COMITE INTERAFRICAIN D'ETUDES HYDRAULIQUES

OUAGADOUGOU • HAUTE VOLTA

L'UTILISATION DES RESSOURCES EN EAU ET DES TERRES DES REGIONS DE SAVANE

RESSOURCES DES REGIONS DE SAVANE

VOLUME 3
ANNEXES

INTERAFRICAN COMMITTEE FOR HYDRAULIC STUDIES

OUAGADOUGOU • UPPER VOLTA

SAVANNA REGIONAL WATER RESOURCES AND LAND USE

SAVANNA RESOURCES

VOLUME 3
APPENDICES

CIEH-USAID
Accords de Subvention
625-11-120-712
et 698-0415

TAMS DG
345 Park
New York

COMITE INTERAFRICAIN D'ETUDES HYDRAULIQUES

OUAGADOUGOU • HAUTE VOLTA

L'UTILISATION DES RESSOURCES EN EAU ET DES TERRES DES REGIONS DE SAVANE

RESSOURCES DES REGIONS DE SAVANE

VOLUME 3
ANNEXES

INTERAFRICAN COMMITTEE FOR HYDRAULIC STUDIES

OUAGADOUGOU • UPPER VOLTA

SAVANNA REGIONAL WATER RESOURCES AND LAND USE

SAVANNA RESOURCES

VOLUME 3
APPENDICES

CIEH-USAID
Accords de Subvention
625-11-120-712
et 698-0415

TAMS DG
345 Park Ave.
New York 10022

La présente Etude sur les RESSOURCES DES REGIONS DE SAVANE comprend 4 Volumes:

This SAVANNA RESOURCES Study consists of 4 Volumes:

VOLUME 1. RAPPORT
REPORT

VOLUME 2. DOSSIER DES CARTES
MAPFOLIO

VOLUME 3. ANNEXES
APPENDICES

VOLUME 4. RECOMMANDATIONS POUR DES ETUDES
STUDY PROPOSALS

TABLE DES MATIERES

TABLE OF CONTENTS

VOLUME 3.

RESSOURCES DES DES REGIONS DE SAVANA - ANNEXES

SAVANNA RESOURCES - APPENDICES

Annexe du Chapitre 3. Analyses fréquentielles des principaux termes du bilan hydrique pour onze pays de la région de Savane

Appendix to Chapter 3. Frequential Analyses of Main Water Balance Parameters for Eleven Countries of the Savanna Region

Annexe du Chapitre 4. Stations hydrométriques et données hydrologiques

Appendix to Chapter 4. Gauging Stations and Hydrologic Data

Annexes du Chapitre 6. Ressources des terres

Appendices to Chapter 6. Land Resources

6 - 1 Liste des 390 unités cartographiques de la carte des sols OUA/IFAN, montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 390 mapping units of the OAU/IFAN soils map, showing soil units contained in each and their capability.

6 - 2 Liste des 166 unités cartographiques de la carte des sols au 1:5.000.000 de la FAO, couvrant le Tchad, le Cameroun, l'Empire Centrafricain, et montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 166 mapping units of the FAO 1:5 million soils map covering Chad, the Cameroon and Central African Empire, showing soil units contained in each and their capability.

Annexes du Chapitre 6. (Suite)

Appendices to Chapter 6. (Cont'd)

6 - 3 Etude du cas No. 1 : Haute-Volta

Case study No. 1 : Upper Volta

6 - 4 Etude du cas No. 2 : Nigeria

Case study No. 2 : Nigeria

ANNEXE DU CHAPITRE 3

APPENDIX TO CHAPTER 3

ANALYSES FREQUENTIELLES DES PRINCIPAUX TERMES DU BILAN HYDRIQUE POUR ONZE PAYS DE LA REGION DE SAVANE

FREQUENTIAL ANALYSES OF MAIN WATER BALANCE PARAMETERS FOR ELEVEN COUNTRIES OF THE SAVANNAH REGION

1. Bénin - Benin
2. Cameroun - Cameroon
3. Côte d'Ivoire - Ivory Coast
4. Empire Centrafricain - Central African Empire
5. Haute-Volta - Upper Volta
6. Mali
7. Mauritanie - Mauritania
8. Niger
9. Sénégal - Senegal
10. Tchad - Chad
11. Togo

APPENDIX 3 - 1 BENIN - Analyse fréquentielle des principaux termes du bilan hydrique.

BENIN - Frequential analysis of main waterbalance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bohicon

Kandi

Natitingou

Parakou

Savé

BOHICON

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 33 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
2	0	0	0	0	0	0	0	0	1	5	0	0	0	1	12
3	0	0	0	0	0	0	0	0	2	8	0	0	1	0	32
4	0	0	0	0	0	0	0	0	4	24	0	0	0	0	35
5	0	0	0	0	0	0	1	4	9	19	0	0	6	0	37
6	6	0	0	0	2	5	13	21	26	42	0	5	22	1	47
7	12	0	0	2	7	12	18	37	48	64	1	12	40	14	81
8	19	0	2	6	13	18	26	34	44	53	5	18	35	4	64
9	30	1	11	16	24	29	47	55	60	71	16	29	58	10	99
10	45	3	13	21	29	39	49	63	66	84	18	39	64	4	99
11	50	3	17	24	40	49	57	63	77	89	22	49	68	35	100
12	38	17	24	26	31	36	41	51	63	77	25	36	55	13	89
13	41	0	3	17	30	39	42	50	63	72	11	39	56	42	92
14	52	4	11	21	35	48	54	64	76	97	17	48	66	10	115
15	47	19	32	36	42	46	49	68	86	110	35	46	72	28	126
16	49	9	18	28	41	48	54	78	103	120	26	48	88	7	130
17	54	13	21	29	40	53	63	74	80	93	24	53	77	6	102
18	35	6	16	17	24	34	47	66	87	103	16	34	67	0	126
19	49	2	19	23	33	47	55	68	79	85	22	47	71	0	118
20	20	0	2	3	8	18	25	46	68	89	2	18	56	4	120
21	17	0	1	3	10	16	41	49	53	74	3	16	50	0	107
22	7	0	0	1	5	7	12	25	39	60	1	7	28	0	77
23	8	0	0	0	3	7	17	28	48	59	0	7	37	0	78
24	29	3	5	11	19	27	34	56	67	106	9	27	63	1	130
25	28	1	3	10	18	27	33	45	57	62	7	27	50	6	67
26	49	3	8	17	37	47	64	71	90	106	15	47	75	29	131
27	53	15	27	37	49	52	61	75	78	102	37	52	77	23	131
28	47	7	18	26	37	44	58	70	82	93	24	44	76	12	135
29	29	1	5	15	24	28	34	56	75	81	11	28	58	12	94
30	29	2	5	9	19	25	33	46	72	89	8	25	50	14	121
31	9	0	0	0	2	7	11	22	27	43	0	7	24	1	66
32	2	0	0	0	0	1	7	10	17	23	0	1	11	4	32
33	0	0	0	0	0	0	4	9	16	23	0	0	11	0	30
34	0	0	0	0	0	0	0	3	7	15	0	0	4	0	22
35	0	0	0	0	0	0	0	0	0	7	0	0	0	0	17
36	0	0	0	0	0	0	0	0	0	12	0	0	0	0	21

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 33 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
2	0	0	0	0	0	0	0	0	1	5	0	0	0	1	12
3	0	0	0	0	0	0	0	0	2	8	0	0	1	0	26
4	0	0	0	0	0	0	0	2	8	24	0	0	4	0	24
5	1	0	0	0	0	0	2	9	13	22	0	0	11	0	25
6	13	0	0	0	3	9	15	22	22	22	0	9	22	1	22
7	26	0	2	4	11	20	26	26	26	26	3	20	26	13	26
8	26	1	10	17	26	26	26	26	26	26	15	26	26	5	26
9	28	15	25	28	28	28	28	28	28	28	28	28	28	10	28
10	25	14	25	25	25	25	25	25	25	25	25	25	25	10	25
11	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
12	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
13	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
14	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
15	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
16	39	36	37	38	38	39	39	39	39	39	38	39	39	34	39
17	36	33	34	35	36	36	36	36	36	36	35	36	36	32	36
18	34	30	32	33	34	34	35	35	35	35	33	34	35	24	35
19	33	25	31	32	32	32	33	33	33	33	31	32	33	26	33
20	30	16	27	29	30	30	31	31	31	31	28	30	31	17	31
21	33	20	29	30	32	33	33	33	34	34	30	33	34	17	34
22	29	14	20	24	29	29	29	29	29	30	23	29	29	9	30
23	29	2	10	24	28	28	29	29	30	30	18	28	29	2	30
24	32	12	19	25	30	31	33	33	34	34	22	31	33	2	34
25	31	4	12	24	30	31	32	33	33	33	21	31	33	7	33
26	33	13	23	30	32	33	33	34	34	34	30	33	34	17	34
27	36	30	32	33	35	36	36	36	36	36	33	36	36	28	36
28	38	29	35	36	36	37	38	38	38	38	36	37	38	30	38
29	39	27	33	38	38	39	40	40	41	41	37	39	40	32	41
30	42	25	30	34	40	41	42	45	45	45	33	41	45	26	45
31	36	15	20	26	29	35	37	38	40	40	25	35	38	16	40
32	26	3	14	17	24	26	27	31	33	35	17	26	32	11	36
33	16	0	2	10	13	16	18	20	22	29	9	16	20	2	30
34	4	0	0	0	3	4	6	10	15	20	0	4	12	0	25
35	0	0	0	0	0	0	0	1	4	13	0	0	2	0	17
36	0	0	0	0	0	0	0	0	6	16	0	0	0	0	22

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 33 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	12	23	23	23	23	23	23	23	23	23	23	23	9	23
2	23	10	21	22	23	23	23	23	23	23	22	23	23	10	23
3	26	0	20	24	26	26	26	26	26	26	24	26	26	13	26
4	24	0	0	17	22	24	24	24	24	24	15	24	24	12	24
5	24	0	5	12	20	23	25	25	25	25	10	23	25	6	25
6	9	0	0	0	5	9	17	20	22	22	0	9	21	0	22
7	0	0	0	0	0	0	11	17	21	24	0	0	19	0	26
8	0	0	0	0	0	0	0	7	13	19	0	0	8	0	24
9	0	0	0	0	0	0	0	0	0	9	0	0	0	1	12
10	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	1	1	1	1	1	1	1	2	2	3	1	1	2	1	4
17	1	1	1	1	1	1	1	2	2	3	1	1	2	1	4
18	1	0	0	0	0	1	1	1	2	3	0	1	1	0	5
19	0	0	0	0	0	0	1	1	2	2	0	0	1	0	7
20	1	0	0	0	0	0	1	1	2	6	0	0	1	0	14
21	2	0	0	0	1	2	2	3	5	8	0	2	4	0	14
22	1	0	0	1	1	1	1	4	8	11	0	1	6	0	15
23	1	0	0	0	1	1	2	4	18	24	0	1	6	0	28
24	3	0	0	1	1	2	3	7	14	17	0	2	8	1	29
25	2	0	0	0	1	1	2	7	14	26	0	1	9	1	28
26	1	0	0	0	0	1	1	3	4	15	0	1	4	0	20
27	1	1	1	1	1	1	1	3	4	6	1	1	3	1	7
28	1	1	1	1	1	1	2	3	3	4	1	1	3	1	10
29	3	1	1	1	2	3	3	4	4	12	1	3	4	1	14
30	5	2	2	2	3	5	6	10	14	20	2	5	11	2	22
31	3	0	0	0	2	2	7	11	14	20	0	2	11	2	24
32	10	0	1	4	7	9	11	16	18	23	3	9	17	1	32
33	15	1	3	10	12	14	17	20	25	30	9	14	21	4	32
34	23	1	8	11	20	22	24	27	27	27	11	22	27	10	27
35	22	5	16	20	22	22	22	22	22	22	18	22	22	2	22
36	25	3	12	24	25	25	25	25	25	25	18	25	25	12	25

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 33 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	7	12	0	0	0	0	29
11	0	0	0	0	0	0	0	8	30	52	0	0	17	0	66
12	0	0	0	0	0	0	0	5	17	34	0	0	7	0	47
13	0	0	0	0	0	0	0	14	29	42	0	0	18	4	46
14	0	0	0	0	0	0	10	19	35	61	0	0	23	0	84
15	11	0	0	0	2	8	13	23	32	48	0	8	27	1	81
16	7	0	0	0	0	5	12	22	63	80	0	5	38	0	90
17	14	0	0	0	1	11	19	33	37	60	0	11	35	0	68
18	0	0	0	0	0	0	0	15	30	43	0	0	22	0	72
19	0	0	0	0	0	0	2	20	37	49	0	0	23	0	66
20	0	0	0	0	0	0	0	7	28	49	0	0	17	0	74
21	0	0	0	0	0	0	0	0	14	37	0	0	6	0	47
22	0	0	0	0	0	0	0	0	0	5	0	0	0	0	35
23	0	0	0	0	0	0	0	0	0	7	0	0	0	0	14
24	0	0	0	0	0	0	0	0	2	60	0	0	0	0	83
25	0	0	0	0	0	0	0	0	5	10	0	0	1	0	24
26	0	0	0	0	0	0	0	9	27	49	0	0	15	0	86
27	0	0	0	0	0	0	4	18	36	62	0	0	23	0	97
28	0	0	0	0	0	0	1	18	28	48	0	0	21	0	93
29	0	0	0	0	0	0	0	0	24	43	0	0	0	0	56
30	0	0	0	0	0	0	0	4	19	38	0	0	5	0	55
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KANDI

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
9	0	0	0	0	0	0	0	1	3	10	21	0	0	5	0	29
10	0	0	0	0	0	0	0	0	1	5	17	0	0	2	0	29
11	2	0	0	0	0	0	2	6	9	11	20	0	2	10	0	25
12	13	0	0	0	0	6	13	20	24	32	49	0	13	29	0	54
13	15	0	0	0	4	8	15	21	35	40	62	2	15	36	0	77
14	17	2	5	12	14	17	24	31	40	47	9	17	34	0	60
15	40	3	16	20	30	40	55	68	74	88	17	40	70	0	101
16	33	1	13	22	26	33	40	45	55	72	16	33	49	0	83
17	47	17	23	29	32	47	64	76	84	104	24	47	79	2	117
18	43	18	25	34	40	43	54	62	79	93	32	43	68	3	102
19	49	16	24	34	44	44	61	79	86	99	28	49	82	5	110
20	58	19	26	41	46	58	61	67	77	90	33	50	69	0	92
21	71	27	45	55	63	71	84	104	109	131	50	71	106	2	145
22	65	35	44	58	60	65	82	104	124	142	48	65	106	7	169
23	84	33	43	58	74	84	93	112	129	175	55	86	123	12	189
24	100	56	68	81	96	100	109	120	132	166	68	100	123	20	206
25	74	40	49	59	72	74	85	95	110	130	53	78	99	8	147
26	94	18	35	46	54	94	97	94	114	144	39	59	101	7	150
27	67	14	17	24	35	47	56	64	77	99	20	47	73	2	127
28	25	0	1	5	12	25	34	42	56	78	3	25	52	0	84
29	7	0	0	0	0	7	5	12	21	29	0	7	16	0	40
30	0	0	0	0	0	0	0	0	2	15	0	0	0	0	21
31	0	0	0	0	0	0	0	0	0	7	0	0	0	0	10
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION POTELLE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
9	0	0	0	0	0	0	0	1	3	10	21	0	0	5	0	29
10	0	0	0	0	0	0	0	0	2	6	20	0	0	4	0	27
11	2	0	0	0	0	1	2	7	10	11	20	0	2	11	0	25
12	13	0	0	0	1	6	13	20	24	32	32	0	13	29	0	32
13	14	0	0	2	7	14	14	24	31	31	31	4	19	31	0	31
14	23	2	4	14	17	23	30	30	30	30	13	23	30	0	30
15	31	6	20	24	31	31	31	31	31	31	21	31	31	1	31
16	32	13	30	32	32	32	32	32	32	32	32	32	32	0	32
17	34	34	34	34	34	34	34	34	34	34	34	34	34	11	34
18	38	36	38	38	38	38	38	38	38	38	38	38	38	9	38
19	43	36	42	42	43	43	43	43	43	43	42	43	43	14	43
20	41	41	38	40	41	41	41	41	41	41	40	41	41	17	41
21	43	40	43	43	43	43	43	43	43	43	43	43	43	18	43
22	39	34	39	39	39	39	39	39	39	39	39	39	39	11	39
23	37	37	37	37	37	37	37	37	37	37	37	37	37	18	37
24	41	41	41	41	41	41	41	41	41	41	41	41	41	20	41
25	39	36	38	39	39	39	39	39	39	39	39	39	39	19	39
26	40	36	38	40	40	40	40	40	40	40	40	40	40	19	40
27	43	40	42	42	43	43	43	43	43	43	42	43	43	19	43
28	44	37	38	41	43	44	44	46	44	44	39	44	46	13	46
29	38	18	24	27	31	38	40	42	44	47	26	38	42	5	47
30	18	3	9	11	14	18	21	23	32	39	9	18	26	0	42
31	6	0	1	1	3	6	6	13	15	20	0	6	14	0	24
32	0	0	0	0	0	0	0	0	2	6	0	0	1	0	9
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETUDIANTS EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	13	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	11	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	13	30
4	27	24	27	27	27	27	27	27	27	27	27	27	27	10	27
5	27	23	27	27	27	27	27	27	27	27	27	27	27	7	27
6	26	26	26	26	26	26	26	26	26	26	26	26	26	10	26
7	31	23	31	31	31	31	31	31	31	31	31	31	31	5	31
8	32	22	31	32	32	32	32	32	32	32	32	32	32	10	32
9	36	6	22	31	34	36	36	36	36	36	26	36	36	0	36
10	33	11	26	29	31	33	33	33	33	33	26	33	33	0	33
11	33	5	17	22	26	29	31	33	33	33	22	29	33	0	33
12	32	17	0	0	3	10	17	24	29	32	32	0	17	31	0
13	31	10	0	0	0	2	10	15	21	27	31	0	10	23	0
14	27	2	0	0	0	0	2	10	14	17	25	0	2	16	0
15	25	0	0	0	0	0	0	0	4	9	21	0	0	6	0
16	18	0	0	0	0	0	0	0	0	0	8	0	0	0	0
17	9	0	0	0	0	0	0	0	0	0	5	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	6	2	2	2	2	2	2	2	2	3	4	2	2	2	1
20	4	2	2	2	2	2	2	2	2	3	4	2	2	2	1
21	5	2	2	2	2	2	2	2	2	2	2	2	2	2	1
22	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0
23	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
26	2	1	1	1	1	1	1	1	1	2	1	1	1	0	2
27	4	2	2	2	2	2	2	2	3	4	2	2	3	1	4
28	14	3	2	2	2	3	5	7	9	13	2	3	7	1	14
29	29	7	0	1	3	5	7	14	17	21	26	1	7	19	0
30	41	25	2	10	16	23	25	30	33	35	38	13	25	33	0
31	36	24	11	17	21	26	28	31	34	36	36	19	28	35	0
32	30	21	13	25	29	30	30	30	30	30	30	27	30	30	1
33	25	25	25	25	25	25	25	25	25	25	25	25	25	25	7
34	24	24	24	24	24	24	24	24	24	24	24	24	24	24	12
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	9
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	11

VARIABLE : DEFICIT EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NATITINGOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	10	0	0	0	0	21
6	0	0	0	0	0	0	0	0	0	11	0	0	0	0	20
7	0	0	0	0	0	0	1	4	7	19	0	0	4	0	22
8	0	0	0	0	0	0	2	6	14	28	0	0	10	0	41
9	7	0	0	1	3	7	11	21	31	43	0	7	25	0	65
10	13	0	1	5	8	12	16	24	34	45	4	12	25	0	68
11	23	3	12	16	18	23	28	33	47	59	14	23	37	0	70
12	19	1	8	13	17	19	21	33	41	70	10	19	36	0	106
13	27	6	14	18	20	27	37	46	55	72	12	27	51	0	88
14	29	7	12	19	23	29	36	44	52	76	15	29	47	4	81
15	33	10	24	31	36	34	40	58	71	95	28	39	66	3	109
16	50	15	28	34	44	50	54	56	62	90	23	50	58	5	102
17	48	23	34	38	46	48	59	67	74	87	36	48	69	14	112
18	42	16	24	31	37	42	50	63	81	94	25	42	72	8	129
19	64	28	31	51	55	64	76	90	103	111	42	64	97	6	129
20	62	31	40	51	57	62	74	80	107	151	45	62	86	16	177
21	76	14	36	47	65	79	84	102	115	141	40	79	106	0	161
22	67	20	31	36	59	67	77	86	112	131	34	67	92	2	153
23	71	31	38	44	60	71	83	100	116	141	44	71	106	6	159
24	104	49	66	77	84	104	133	142	155	173	68	104	148	37	183
25	110	65	81	86	98	110	118	126	146	167	85	110	142	37	173
26	99	41	64	83	94	94	107	117	136	175	77	99	119	17	189
27	86	31	62	50	57	84	77	89	104	114	45	84	93	21	128
28	48	6	23	32	39	48	56	67	75	85	30	48	69	2	98
29	35	6	9	14	24	35	41	49	63	83	8	35	56	0	108
30	24	0	2	11	20	26	34	44	53	90	8	26	46	0	105
31	3	0	0	0	1	3	10	20	29	44	0	3	21	0	53
32	0	0	0	0	0	0	0	2	13	44	0	0	4	0	55
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
34	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
5	0	0	0	0	0	0	0	0	0	10	0	0	0	0	21
6	0	0	0	0	0	0	0	0	0	11	0	0	0	0	20
7	0	0	0	0	0	0	2	4	13	20	0	0	5	0	25
8	0	0	0	0	0	0	2	6	14	26	0	0	10	0	30
9	9	0	0	2	7	9	12	21	31	32	2	9	25	0	32
10	16	0	4	7	11	15	19	27	28	28	5	16	28	0	28
11	28	5	14	18	23	28	28	28	28	28	16	28	28	0	28
12	25	6	17	18	21	25	27	27	27	27	15	25	27	0	27
13	24	11	20	26	24	26	26	26	26	26	24	24	26	6	26
14	31	12	28	31	31	31	31	31	31	31	31	31	31	4	31
15	36	20	36	36	36	36	36	36	36	36	36	36	36	10	36
16	35	35	35	35	35	35	35	35	35	35	35	35	35	15	35
17	40	35	39	40	40	40	40	40	40	40	39	40	40	34	40
18	38	36	37	37	38	38	38	38	38	38	37	38	38	24	38
19	37	36	36	37	37	37	37	37	37	37	37	37	37	28	37
20	35	36	35	35	35	35	35	35	35	35	35	35	35	29	35
21	37	35	37	37	37	37	37	37	37	37	37	37	37	15	37
22	33	32	32	33	33	33	33	33	33	33	33	33	33	22	33
23	31	30	31	31	31	31	31	31	31	31	31	31	31	28	31
24	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
25	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
26	34	34	34	34	34	34	34	34	34	34	34	34	34	33	34
27	37	37	37	37	37	37	37	37	37	37	37	37	37	36	37
28	41	36	40	40	41	41	41	41	41	41	40	41	41	38	41
29	43	41	41	42	43	43	44	44	44	44	41	43	44	30	44
30	46	38	38	37	43	46	46	46	46	46	35	46	46	15	46
31	38	15	26	29	31	35	37	38	38	38	27	35	38	9	38
32	33	3	11	17	20	23	25	29	33	33	14	23	31	0	33
33	7	0	0	1	5	7	10	17	24	28	0	7	22	0	28
34	0	0	0	0	0	0	0	7	11	18	0	0	7	0	22
35	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
36	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7

VARIABLE : DEFICIT ETIAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	25	25	25	25	25	25	25	25	25	25	25	25	25	8	25
2	26	26	25	25	25	25	25	25	25	25	25	25	25	21	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	6	28
4	25	23	25	25	25	25	25	25	25	25	25	25	25	17	25
5	25	9	23	25	25	25	25	25	25	25	25	25	25	0	25
6	23	7	21	23	23	23	23	23	23	23	23	23	23	0	23
7	28	5	11	23	25	28	28	28	28	28	18	28	28	0	28
8	24	6	13	21	24	28	30	30	30	30	15	28	30	0	30
9	21	6	9	9	18	21	24	28	31	32	4	21	29	0	32
10	17	6	6	1	8	12	17	20	23	27	0	12	22	0	28
11	0	0	0	0	0	0	3	10	14	21	0	0	10	0	24
12	0	0	0	0	0	0	4	7	12	15	0	0	9	0	22
13	0	0	0	0	0	0	0	0	3	13	0	0	0	0	16
14	0	0	0	0	0	0	0	0	0	14	0	0	0	0	19
15	0	0	0	0	0	0	0	0	0	4	0	0	0	0	14
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1	1	1	1	1	1	1	1	2	3	1	1	1	1	3
18	1	1	1	1	1	1	1	2	2	4	1	1	2	1	5
19	1	1	1	1	1	1	1	1	2	2	1	1	1	1	6
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
21	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
22	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
23	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	2	3	1	1	2	1	4
29	3	2	2	2	2	3	3	4	5	6	2	3	4	2	10
30	0	0	0	0	0	0	1	4	11	15	0	0	9	0	19
31	2	0	0	0	0	0	2	7	14	11	20	0	2	8	0	23
32	4	0	0	0	3	7	9	11	16	19	27	0	9	18	0	31
33	21	0	4	11	17	21	23	26	28	28	4	21	27	0	28
34	23	4	12	18	21	23	23	23	23	23	14	23	23	0	23
35	23	15	23	23	23	23	23	23	23	23	23	23	23	0	23
36	26	21	26	26	26	26	26	26	26	26	26	26	26	11	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	13
15	0	0	0	0	0	0	0	0	0	9	23	0	0	0	41
16	0	0	0	0	0	0	0	0	0	6	30	0	0	0	53
17	0	0	0	0	0	0	0	0	8	18	38	0	0	10	0	63
18	0	0	0	0	0	0	0	1	13	21	41	0	0	17	0	53
19	13	0	0	0	0	5	13	21	31	55	69	0	13	44	0	82
20	21	0	0	0	5	17	21	31	39	56	112	0	21	42	0	139
21	34	0	0	0	5	22	34	46	66	80	101	0	38	70	0	116
22	22	0	0	0	0	13	22	40	49	61	93	0	22	55	0	116
23	30	0	0	0	11	25	30	45	54	77	101	4	30	62	0	114
24	44	14	24	34	42	64	101	110	121	141	27	44	116	0	152
25	72	30	43	52	60	72	82	90	111	131	47	72	99	3	138
26	44	7	25	50	61	65	73	83	102	141	43	65	86	0	156
27	30	0	0	14	23	30	39	51	70	80	10	30	58	0	94
28	7	0	0	0	1	7	14	30	37	48	0	7	31	0	60
29	0	0	0	0	0	0	0	5	14	39	0	0	8	0	65
30	0	0	0	0	0	0	0	0	3	42	0	0	0	0	52
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PARAKOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	10
4	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
5	0	0	0	0	0	0	0	0	4	17	0	0	0	0	44
6	0	0	0	0	0	0	0	0	8	21	0	0	2	0	32
7	0	0	0	0	0	0	2	5	8	21	0	0	6	0	33
8	0	0	0	0	0	0	6	12	23	30	0	0	17	0	45
9	19	0	0	3	8	19	30	33	42	56	0	19	36	0	65
10	15	0	3	7	10	15	21	35	43	53	4	15	40	0	63
11	19	0	5	9	13	19	29	35	46	61	5	19	41	0	82
12	25	2	7	12	18	25	33	39	50	71	8	25	44	0	81
13	32	7	13	17	23	32	40	51	63	83	15	32	59	0	92
14	38	7	14	19	33	38	44	48	62	75	17	38	53	1	92
15	43	13	19	25	35	43	54	68	91	98	22	43	76	1	109
16	46	15	23	29	40	46	57	63	71	88	25	46	68	8	92
17	56	13	29	35	39	56	63	67	92	119	33	56	74	7	129
18	40	14	20	29	35	40	57	69	80	105	24	40	73	1	127
19	39	8	14	22	30	39	56	65	85	108	17	39	76	3	131
20	45	6	16	28	32	45	54	73	90	110	21	45	84	2	116
21	62	4	25	38	49	62	70	87	107	146	33	62	92	0	171
22	49	9	20	29	45	49	59	71	99	127	23	49	84	2	142
23	47	13	21	29	39	47	58	81	91	117	26	47	83	5	154
24	73	25	43	58	68	73	90	101	110	123	46	73	103	14	145
25	73	21	31	48	61	73	84	110	135	162	37	73	113	5	201
26	64	23	38	48	60	64	75	85	104	122	43	64	88	6	132
27	70	21	44	51	62	70	78	96	114	125	46	70	102	5	136
28	49	11	20	32	41	49	56	61	80	95	25	49	69	0	110
29	30	0	5	10	20	30	40	48	61	80	7	30	54	0	87
30	14	0	0	0	8	14	18	23	29	60	0	14	25	0	66
31	0	0	0	0	0	0	0	1	12	21	0	0	2	0	28
32	0	0	0	0	0	0	0	0	0	8	0	0	0	0	17
33	0	0	0	0	0	0	0	0	0	2	0	0	0	0	17
34	0	0	0	0	0	0	0	0	0	7	0	0	0	0	16
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	10
4	0	0	0	0	0	0	0	0	0	7	0	0	0	0	21
5	0	0	0	0	0	0	0	0	6	24	0	0	0	0	25
6	0	0	0	0	0	0	0	4	11	23	0	0	6	0	23
7	2	0	0	0	0	2	5	8	15	25	0	2	10	0	28
8	5	0	0	0	0	5	9	19	27	30	0	5	23	0	30
9	21	0	0	7	13	21	31	31	31	31	0	21	31	0	31
10	26	2	8	14	19	26	26	26	26	26	10	26	26	0	26
11	27	5	10	16	26	27	27	27	27	27	13	27	27	0	27
12	26	8	16	26	26	26	26	26	26	26	24	26	26	0	26
13	26	18	26	26	26	26	26	26	26	26	26	26	26	4	26
14	31	25	31	31	31	31	31	31	31	31	31	31	31	5	31
15	36	36	36	36	36	36	36	36	36	36	36	36	36	15	36
16	35	35	35	35	35	35	35	35	35	35	35	35	35	19	35
17	40	35	38	39	40	40	40	40	40	40	38	40	40	14	40
18	38	33	35	37	37	38	38	38	38	38	36	38	38	25	38
19	36	33	34	35	35	36	36	36	36	36	34	36	36	19	36
20	34	31	33	33	34	34	35	35	35	35	33	34	35	22	35
21	37	33	35	36	37	37	37	37	37	37	35	37	37	13	37
22	32	28	31	31	31	32	32	32	32	32	31	32	32	14	32
23	31	30	30	31	31	31	31	31	31	31	30	31	31	19	31
24	34	33	34	34	34	34	34	34	34	34	34	34	34	32	34
25	32	31	31	32	32	32	32	32	32	32	32	32	32	30	32
26	32	31	32	32	32	32	32	32	32	32	32	32	32	30	32
27	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
28	39	37	38	39	39	39	39	39	39	39	38	39	39	36	39
29	42	36	39	40	41	42	42	42	42	42	39	42	42	31	42
30	43	25	29	39	42	43	44	45	45	45	31	43	45	16	45
31	27	10	14	24	26	27	31	34	36	37	18	27	35	2	37
32	13	0	2	8	9	13	17	21	26	30	6	13	22	0	32
33	1	0	0	0	0	1	4	7	10	20	0	1	9	0	25
34	0	0	0	0	0	0	0	0	4	11	0	0	0	0	16
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	13
36	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	18	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	25	26	28	28	28	28	28	28	28	28	28	28	0	28
4	25	18	25	25	25	25	25	25	25	25	25	25	25	1	25
5	25	0	17	25	25	25	25	25	25	25	21	25	25	0	25
6	23	0	8	19	23	23	23	23	23	23	15	23	23	0	23
7	26	0	11	19	22	26	28	28	28	28	15	26	28	0	28
8	24	0	2	10	20	24	30	30	30	30	6	24	30	0	30
9	9	0	0	0	0	9	16	22	31	31	0	9	26	0	31
10	0	0	0	0	0	0	5	11	17	23	0	0	12	0	25
11	0	0	0	0	0	0	0	8	15	20	0	0	12	0	22
12	0	0	0	0	0	0	0	0	7	16	0	0	1	0	21
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	1	1	1	1	1	1	1	1	3	4	1	1	2	1	6
18	1	1	1	1	1	1	1	2	3	5	1	1	2	1	7
19	1	1	1	1	1	1	1	2	3	4	1	1	2	1	4
20	1	0	0	0	0	1	1	1	2	4	0	1	2	0	4
21	1	1	1	1	1	1	1	1	2	4	1	1	2	1	7
22	0	0	0	0	0	0	0	1	1	2	0	0	1	0	7
23	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3
24	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
25	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	2	2	1	1	1	1	3
29	2	2	2	2	2	2	3	4	5	6	2	2	4	2	9
30	2	0	0	0	0	2	3	4	14	17	0	2	6	0	21
31	8	0	0	2	5	8	10	12	20	26	1	8	13	0	29
32	19	2	7	12	15	19	22	24	28	33	9	19	25	0	33
33	27	7	17	21	24	27	28	28	28	28	18	27	28	2	28
34	23	10	18	23	23	23	23	23	23	23	21	23	23	0	23
35	23	18	23	23	23	23	23	23	23	23	23	23	23	1	23
36	26	22	26	26	26	26	26	26	26	26	26	26	26	0	26

#FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	12	0	0	0	0	17
15	0	0	0	0	0	0	0	4	17	57	0	0	9	0	63
16	0	0	0	0	0	0	1	7	21	32	0	0	12	0	38
17	0	0	0	0	0	0	4	24	31	63	0	0	27	0	80
18	0	0	0	0	0	0	3	18	32	57	0	0	24	0	64
19	0	0	0	0	0	0	0	15	28	46	0	0	21	0	60
20	0	0	0	0	0	0	4	20	43	57	0	0	26	0	63
21	19	0	0	0	0	19	32	49	59	104	0	19	53	0	136
22	4	0	0	0	0	4	10	23	54	90	0	4	28	0	105
23	2	0	0	0	0	2	16	35	54	84	0	2	45	0	117
24	33	0	0	13	21	33	43	60	71	88	4	33	67	0	104
25	38	0	0	9	26	38	50	75	95	126	0	38	79	0	167
26	30	0	0	9	20	30	42	53	72	89	1	30	55	0	97
27	37	0	4	13	22	37	45	60	73	91	8	37	63	0	104
28	11	0	0	0	0	11	13	21	45	59	0	11	25	0	72
29	0	0	0	0	0	0	0	6	19	35	0	0	8	0	43
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SAVE

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	8	0	0	0	0	30
2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
3	0	0	0	0	0	0	0	0	2	15	0	0	0	0	21
4	0	0	0	0	0	0	0	2	5	19	0	0	3	0	24
5	0	0	0	0	0	0	4	14	29	47	0	0	26	0	66
6	0	0	0	0	0	0	2	7	17	29	0	0	10	0	44
7	13	0	0	2	0	13	27	35	40	62	0	13	35	0	71
8	14	0	0	4	6	14	26	32	48	101	1	14	35	0	115
9	24	0	2	10	17	24	38	45	55	81	6	24	47	0	107
10	30	0	7	14	24	31	41	53	74	110	12	30	61	0	124
11	35	4	11	19	29	35	43	64	80	75	12	35	49	0	90
12	34	7	17	25	42	38	48	71	89	111	20	38	80	0	128
13	32	5	11	16	14	32	41	58	77	109	12	32	66	1	142
14	39	6	16	26	31	34	56	59	74	119	21	39	63	2	127
15	58	18	28	38	47	58	74	85	94	133	32	58	88	7	169
16	51	17	24	38	47	51	60	68	73	89	30	51	70	5	103
17	62	25	38	45	58	62	70	79	102	140	43	62	88	23	236
18	49	16	22	34	40	49	64	73	86	106	28	49	75	3	126
19	51	2	9	23	33	51	64	71	97	121	11	51	75	0	184
20	38	0	6	13	22	34	54	74	97	148	8	38	84	0	191
21	34	1	11	18	24	36	50	79	114	192	13	36	93	0	230
22	31	0	9	14	21	31	40	52	76	117	11	31	60	0	159
23	26	0	3	10	17	26	40	54	77	118	7	26	58	0	133
24	38	7	12	21	26	38	54	61	87	135	14	38	74	0	175
25	49	6	12	25	40	49	63	75	98	127	20	49	88	0	141
26	54	10	19	23	41	54	62	83	103	129	22	54	90	1	140
27	58	20	32	43	53	58	70	93	100	116	37	58	94	6	128
28	54	19	26	38	49	54	63	94	113	156	31	54	102	4	176
29	42	3	12	18	29	42	52	63	89	90	16	42	65	0	131
30	24	0	5	8	15	24	35	42	65	92	6	24	51	0	118
31	5	0	0	0	1	5	10	15	36	70	0	5	21	0	104
32	0	0	0	0	0	0	0	2	12	24	0	0	3	0	52
33	0	0	0	0	0	0	0	0	1	13	0	0	0	0	20
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	34
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

VARIABLE : EVAPOTRANSPIRATION PELLE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	8	0	0	0	0	25
2	0	0	0	0	0	0	0	0	1	9	0	0	0	0	20
3	0	0	0	0	0	0	0	0	6	21	0	0	1	0	28
4	0	0	0	0	0	0	0	3	4	21	0	0	5	0	25
5	0	0	0	0	0	0	6	18	26	26	0	0	26	0	26
6	2	0	0	0	0	0	6	20	24	24	0	2	24	0	24
7	23	1	1	4	13	23	27	27	27	27	2	23	27	0	27
8	28	0	4	6	15	28	28	28	28	28	8	28	28	0	28
9	30	3	15	26	30	30	30	30	30	30	19	30	30	0	30
10	26	14	24	26	26	26	26	26	26	26	26	26	26	4	26
11	31	23	29	31	31	31	31	31	31	31	31	31	31	7	31
12	36	26	35	36	36	36	36	36	36	36	36	36	36	13	36
13	40	18	26	36	40	40	40	40	40	40	32	40	40	8	40
14	47	26	39	39	42	47	48	48	48	48	36	47	48	8	48
15	48	31	36	46	47	48	48	48	48	48	39	48	48	12	48
16	41	26	36	40	40	41	41	41	41	41	37	41	41	13	41
17	38	36	37	37	37	38	38	38	38	38	37	38	38	27	38
18	36	33	35	36	36	36	36	36	36	36	35	36	36	22	36
19	34	26	32	32	33	34	34	34	34	34	32	34	34	9	34
20	32	23	29	31	31	32	32	32	32	32	30	32	32	6	32
21	34	26	28	33	34	34	35	35	35	35	31	34	35	3	35
22	30	7	27	30	30	30	31	31	31	31	28	30	31	1	31
23	30	12	26	26	30	30	31	31	31	31	28	30	31	0	31
24	34	21	29	33	34	34	35	35	35	35	30	34	35	9	35
25	33	14	31	32	32	33	34	34	34	34	31	33	34	2	34
26	34	26	33	33	34	34	35	35	35	35	33	34	35	19	35
27	37	35	36	37	37	37	37	37	37	37	37	37	37	26	37
28	39	36	38	39	39	39	39	39	39	39	38	39	39	20	39
29	41	36	38	40	40	41	41	41	41	41	39	41	41	25	41
30	43	37	39	41	42	43	45	46	46	46	41	43	46	26	46
31	36	19	27	30	32	36	39	39	41	42	28	36	39	9	42
32	23	7	11	15	17	23	28	30	34	38	12	23	31	0	38
33	8	0	0	0	4	8	12	15	22	32	0	8	16	0	34
34	0	0	0	0	0	0	0	1	8	17	0	0	3	0	29
35	0	0	0	0	0	0	0	0	1	14	0	0	0	0	25
36	0	0	0	0	0	0	0	0	0	21	0	0	0	0	27

VARIABLE : DEFICIT ETUDES EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	14	25	25	25	25	25	25	25	25	25	25	25	0	25
2	25	15	23	25	25	25	25	25	25	25	25	25	25	0	25
3	28	4	21	28	28	28	28	28	28	28	23	28	28	0	28
4	26	6	17	22	26	26	26	26	26	26	20	26	26	0	26
5	26	0	0	10	21	26	26	26	26	26	0	26	26	0	26
6	24	0	0	2	18	21	24	24	24	24	0	21	24	0	24
7	27	0	0	0	0	0	13	23	25	27	0	0	24	0	27
8	28	0	0	0	0	0	-10	16	21	27	0	0	19	0	28
9	30	0	0	0	0	0	0	3	13	22	0	0	6	0	30
10	13	0	0	0	0	0	0	0	2	10	0	0	0	0	13
11	18	0	0	0	0	0	0	0	0	7	0	0	0	0	18
12	14	0	0	0	0	0	0	0	1	6	0	0	0	0	14
13	27	0	0	0	0	0	0	0	11	23	0	0	3	0	27
14	31	2	2	2	2	2	2	7	10	15	21	2	2	11	2	31
15	26	2	2	2	2	2	2	2	4	13	17	2	2	6	2	26
16	22	2	2	2	2	2	2	2	3	6	12	2	2	5	2	22
17	5	1	1	1	1	1	1	1	1	2	3	1	1	2	1	5
18	5	1	1	1	1	1	1	1	1	2	3	1	1	1	1	5
19	9	0	0	0	0	0	0	1	1	2	4	0	0	2	0	9
20	13	0	0	0	0	0	0	1	1	2	5	0	0	1	0	13
21	14	1	0	0	0	0	0	1	1	2	5	8	0	1	3	0	14
22	27	1	0	0	0	0	0	1	1	3	20	0	1	1	0	27
23	20	0	0	0	0	0	0	1	2	3	16	0	0	3	0	20
24	18	1	0	0	0	0	0	1	2	2	5	11	0	1	2	0	18
25	22	1	0	0	0	0	0	1	1	2	3	10	0	1	2	0	22
26	7	0	0	0	0	0	0	1	1	2	4	0	0	2	0	7
27	5	1	1	1	1	1	1	1	1	1	2	1	1	1	1	5
28	4	1	1	1	1	1	1	1	1	2	2	1	1	1	1	4
29	7	2	2	2	2	2	2	2	3	4	6	2	2	3	2	7
30	22	6	2	2	3	4	4	6	7	8	17	2	4	7	2	22
31	26	5	0	0	2	3	5	7	10	13	22	1	5	11	0	26
32	32	13	0	3	7	10	13	14	22	25	29	5	13	23	0	32
33	34	24	1	11	17	20	24	27	32	34	34	15	24	34	0	34
34	29	20	6	20	27	29	29	29	29	29	29	24	29	29	0	29
35	25	25	0	23	25	25	25	25	25	25	25	25	25	25	0	25
36	27	27	1	23	27	27	27	27	27	27	27	27	27	27	0	27

VARIABLE : DEFICIT ETUDES EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
10	81	0	0	0	0	0	0	0	0	41	0	0	0	0	81
11	54	0	0	0	0	0	0	0	4	39	0	0	0	0	54
12	80	0	0	0	0	0	0	0	21	68	0	0	3	0	80
13	105	0	0	0	0	0	0	3	25	72	0	0	13	0	105
14	78	0	0	0	0	0	0	0	24	56	0	0	11	0	78
15	69	0	0	0	0	0	0	2	14	34	56	0	0	26	0	69
16	40	0	0	0	0	0	0	0	3	14	34	0	0	7	0	40
17	161	1	0	0	0	0	1	11	23	32	83	0	1	26	0	161
18	87	1	0	0	0	0	1	10	26	40	65	0	1	34	0	87
19	147	0	0	0	0	0	0	14	24	45	78	0	0	31	0	147
20	156	0	0	0	0	0	0	10	24	54	113	0	0	40	0	156
21	179	0	0	0	0	0	0	14	21	74	159	0	0	47	0	179
22	117	0	0	0	0	0	0	0	6	39	74	0	0	15	0	117
23	98	0	0	0	0	0	0	0	8	20	76	0	0	9	0	98
24	126	0	0	0	0	0	0	6	26	53	82	0	0	36	0	126
25	93	0	0	0	0	0	0	6	23	57	85	0	0	33	0	93
26	104	0	0	0	0	0	0	2	27	63	84	0	0	37	0	104
27	86	14	0	0	1	1	14	14	27	57	71	0	14	38	0	86
28	137	11	0	0	0	1	11	22	56	70	119	0	11	59	0	137
29	92	2	0	0	0	0	0	2	21	28	51	0	0	24	0	92
30	66	0	0	0	0	0	0	0	0	1	35	0	0	0	0	66
31	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 2 CAMEROUN - Analyse fréquentielle des principaux termes du bilan hydrique.

CAMEROUN - Frequential analysis of main water-balance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Garoua

Mamfé

Maroua

Ngaoundere

Yoko

GAROUA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	11	0	0	0	0	20
10	1	0	0	0	0	1	4	6	11	34	0	1	9	1	43
11	5	0	0	2	3	5	7	13	23	38	1	5	18	6	54
12	7	0	0	0	3	7	10	12	20	30	0	7	18	2	38
13	29	0	4	11	15	29	41	44	58	72	9	29	54	8	78
14	27	0	6	13	18	27	30	34	47	67	12	27	40	10	77
15	47	10	25	27	36	47	57	57	62	92	26	47	61	23	97
16	55	18	25	34	40	55	61	63	81	91	31	55	74	40	96
17	43	6	20	32	36	43	51	56	67	72	27	43	65	2	79
18	42	14	21	32	39	42	44	47	60	64	30	42	54	9	66
19	36	11	18	26	30	36	45	46	81	102	25	36	73	6	109
20	40	9	18	21	25	40	44	52	66	79	20	40	60	13	89
21	63	12	18	42	46	63	76	82	90	100	31	63	86	38	111
22	24	0	2	9	16	24	32	50	75	87	7	24	67	22	105
23	57	2	16	40	43	57	71	84	99	111	39	57	98	20	127
24	84	21	48	66	69	84	88	92	106	175	64	84	96	35	205
25	82	28	36	68	77	82	88	92	95	102	58	82	95	25	109
26	58	13	20	52	55	58	61	65	80	85	41	58	76	22	88
27	46	4	21	29	31	46	52	70	80	89	26	46	79	15	96
28	24	4	9	20	22	24	29	35	48	73	15	24	41	9	77
29	7	0	0	4	6	7	10	20	38	42	3	7	33	0	46
30	1	0	0	0	0	1	6	22	47	49	0	1	39	9	61
31	0	0	0	0	0	0	0	0	0	2	0	0	0	2	6
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	11	0	0	0	0	20
10	1	0	0	0	0	1	4	6	11	34	0	1	9	1	36
11	6	0	0	2	4	6	10	15	30	37	2	6	23	6	37
12	9	0	0	3	5	9	12	18	30	36	2	9	23	2	36
13	32	1	9	16	23	32	35	35	35	35	15	32	35	8	35
14	33	0	11	21	26	33	33	33	33	33	16	33	33	14	33
15	34	10	25	31	34	34	34	34	34	34	27	34	34	21	34
16	35	28	35	35	35	35	35	35	35	35	35	35	35	30	35
17	39	21	39	39	39	39	39	39	39	39	39	39	39	21	39
18	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
19	47	36	39	44	45	47	47	48	48	48	42	47	48	34	48
20	44	22	33	41	43	44	44	46	46	46	41	44	46	22	46
21	50	28	39	47	49	50	50	50	50	50	45	50	50	35	50
22	42	17	30	39	40	42	44	45	46	46	38	42	46	27	46
23	46	16	30	41	44	46	46	46	46	46	40	46	46	27	46
24	50	35	48	50	50	50	50	50	50	50	50	50	50	38	50
25	45	42	43	45	45	45	45	45	45	45	44	45	45	42	45
26	45	36	42	45	45	45	45	45	45	45	44	45	45	37	45
27	47	26	42	46	47	47	48	48	48	48	45	47	48	29	48
28	48	27	34	41	45	48	49	50	50	50	39	48	50	29	50
29	37	15	25	29	31	37	39	44	49	51	27	37	46	14	51
30	18	1	8	13	15	18	21	36	51	51	11	18	46	7	51
31	9	0	1	6	7	9	10	14	24	27	6	9	22	9	29
32	0	0	0	0	0	0	1	3	9	10	0	0	8	3	11
33	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
6	31	24	31	31	31	31	31	31	31	31	31	31	31	27	31
7	37	36	37	37	37	37	37	37	37	37	37	37	37	36	37
8	40	34	39	40	40	40	40	40	40	40	40	40	40	24	40
9	43	13	31	43	43	43	43	43	43	43	42	43	43	25	43
10	36	0	3	31	32	36	37	38	38	38	29	36	38	12	38
11	29	0	0	19	23	29	31	33	35	37	10	29	34	5	37
12	26	0	0	15	21	26	29	31	33	36	11	26	32	1	36
13	2	0	0	0	0	2	5	16	19	25	0	2	18	0	29
14	0	0	0	0	0	0	1	7	15	22	0	0	11	0	27
15	0	0	0	0	0	0	0	0	6	8	0	0	3	0	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3	2	2	2	2	3	3	5	8	10	2	3	6	7	13
20	4	2	2	2	2	4	4	5	8	21	2	4	7	3	22
21	3	2	3	3	3	3	3	3	7	13	3	3	6	2	17
22	4	2	2	2	2	4	6	7	10	17	2	4	9	2	20
23	2	2	2	2	2	2	2	4	7	18	2	2	6	2	23
24	3	3	3	3	3	3	3	3	3	4	3	3	3	2	7
25	2	2	2	2	2	2	2	2	3	4	2	2	2	2	4
26	2	2	2	2	2	2	2	2	4	5	2	2	3	2	6
27	2	2	2	2	2	2	3	3	6	9	2	2	5	2	13
28	5	2	3	3	3	5	5	9	16	20	3	5	13	4	22
29	12	0	0	4	6	12	16	20	25	30	1	12	23	9	35
30	33	0	0	5	24	33	35	36	39	43	0	33	37	5	45
31	31	5	13	21	27	31	32	34	35	40	17	31	35	9	40
32	36	22	25	29	33	36	37	37	37	37	27	36	37	23	37
33	30	25	27	30	30	30	30	30	30	30	29	30	30	26	30
34	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
35	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	10	0	0	0	0	30
17	0	0	0	0	0	0	0	0	13	25	0	0	7	0	29
18	0	0	0	0	0	0	0	0	4	24	0	0	0	0	25
19	0	0	0	0	0	0	0	0	30	48	0	0	12	0	51
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21	0	0	0	0	0	0	1	9	21	42	0	0	13	0	44
22	0	0	0	0	0	0	0	1	14	0	0	0	0	0	29
23	1	0	0	0	0	1	10	16	27	51	0	1	21	0	79
24	14	0	0	0	0	14	21	40	60	129	0	14	50	0	158
25	19	0	0	1	13	19	25	31	42	48	0	19	38	0	56
26	11	0	0	2	8	11	12	15	25	39	0	11	21	0	43
27	0	0	0	0	0	0	1	24	34	43	0	0	33	0	51
28	0	0	0	0	0	0	0	0	0	7	0	0	0	0	9
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MAMFE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 11 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	8	20	31	0	0	20*********	55	
2	0	0	0	0	0	0	0	2	6	9	0	0	6*********	14	
3	0	0	0	0	0	0	0	0	2	8	0	0	2*********	32	
4	0	0	0	0	0	0	0	0	1	13	0	0	1*********	26	
5	17	0	0	2	5	12	23	40	54	56	0	12	54*********	84	
6	13	0	0	0	0	6	15	22	31	63	0	6	31*********	97	
7	34	21	0	0	17	33	48	75	92	95	0	33	92*********	129	
8	89	6	21	35	57	81	94	103	116	125	21	81	116*********	155	
9	80	27	15	31	49	73	84	97	113	121	15	73	113*********	134	
10	44	48	26	31	37	41	49	61	88	111	26	41	88*********	128	
11	69	60	25	27	44	64	73	84	101	121	25	64	101*********	131	
12	109	29	19	32	70	102	112	116	132	153	19	102	132*********	165	
13	74	26	29	52	61	71	81	96	104	107	28	71	104*********	114	
14	71	77	48	60	64	68	73	76	81	101	48	68	81*********	142	
15	92	53	46	56	70	88	129	168	172	175	46	88	172*********	204	
16	78	59	50	57	65	73	83	128	174	186	50	73	174*********	194	
17	122	40	35	43	57	93	130	152	166	177	35	93	166*********	214	
18	133	76	76	79	83	110	140	157	169	179	76	110	169*********	228	
19	107	118	68	78	92	103	114	159	203	224	68	103	203*********	245	
20	126	69	93	101	108	118	131	141	150	161	93	118	150*********	205	
21	207	139	175	187	196	205	212	221	239	260	175	205	239*********	330	
22	87	27	55	67	76	85	103	137	188	249	55	85	188*********	289	
23	137	66	108	110	123	135	142	159	194	232	108	135	194*********	264	
24	164	72	91	108	134	161	164	181	203	219	91	161	203*********	277	
25	171	94	106	119	127	152	174	177	185	205	106	152	185*********	270	
26	167	116	110	116	126	151	169	182	194	208	110	151	194*********	233	
27	164	143	120	138	147	158	170	202	239	257	120	158	239*********	265	
28	113	94	54	67	87	104	135	172	203	252	54	104	203*********	288	
29	126	119	104	117	120	124	126	145	170	189	104	124	170*********	208	
30	103	63	44	50	72	96	108	128	167	200	44	96	167*********	268	
31	45	9	0	3	23	42	45	56	70	79	0	42	70*********	99	
32	2	5	0	0	0	1	4	14	22	45	0	1	22*********	89	
33	0	0	0	0	0	0	0	0	1	2	0	0	1*********	4	
34	11	0	0	0	1	7	11	13	17	27	0	7	17*********	83	
35	0	0	0	0	0	0	0	0	0	6	0	0	0*********	16	
36	0	9	0	0	0	0	0	0	16	49	0	0	16*********	67	

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 11 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	8	18	20	0	0	18*********	20	
2	0	0	0	0	0	0	2	8	14	18	0	0	14*********	20	
3	1	0	0	0	0	0	2	7	11	17	0	0	11*********	21	
4	0	0	0	0	0	0	1	6	15	20	0	0	15*********	20	
5	17	0	1	6	11	14	18	20	20	20	1	14	20*********	20	
6	18	0	0	0	9	18	18	18	18	18	0	18	18*********	18	
7	21	10	10	21	21	21	21	21	21	21	10	21	21*********	21	
8	21	21	21	21	21	21	21	21	21	21	21	21	21*********	21	
9	24	24	24	24	24	24	24	24	24	24	24	24	24*********	24	
10	21	21	21	21	21	21	21	21	21	21	21	21	21*********	21	
11	21	21	21	21	21	21	21	21	21	21	21	21	21*********	21	
12	21	21	21	21	21	21	21	21	21	21	21	21	21*********	21	
13	25	25	25	25	25	25	25	25	25	25	25	25	25*********	25	
14	30	30	30	30	30	30	30	30	30	30	30	30	30*********	30	
15	35	35	35	35	35	35	35	35	35	35	35	35	35*********	35	
16	35	35	35	35	35	35	35	35	35	35	35	35	35*********	35	
17	33	33	33	33	33	33	33	33	33	33	33	33	33*********	33	
18	31	31	31	31	31	31	31	31	31	31	31	31	31*********	31	
19	30	30	30	30	30	30	30	30	30	30	30	30	30*********	30	
20	28	28	28	28	28	28	28	28	28	28	28	28	28*********	28	
21	31	31	31	31	31	31	31	31	31	31	31	31	31*********	31	
22	27	27	27	27	27	27	27	27	27	27	27	27	27*********	27	
23	27	27	27	27	27	27	27	27	27	27	27	27	27*********	27	
24	31	31	31	31	31	31	31	31	31	31	31	31	31*********	31	
25	30	30	30	30	30	30	30	30	30	30	30	30	30*********	30	
26	30	30	30	30	30	30	30	30	30	30	30	30	30*********	30	
27	32	32	32	32	32	32	32	32	32	32	32	32	32*********	32	
28	34	34	34	34	34	34	34	34	34	34	34	34	34*********	34	
29	35	35	35	35	35	35	35	35	35	35	35	35	35*********	35	
30	39	39	39	39	39	39	39	39	39	39	39	39	39*********	39	
31	33	33	33	33	33	33	33	33	33	33	33	33	33*********	33	
32	29	29	29	29	29	29	29	29	29	29	29	29	29*********	29	
33	26	23	20	21	24	26	26	26	26	26	20	26	26*********	26	
34	22	13	10	17	21	22	22	22	22	22	10	22	22*********	22	
35	19	1	0	2	5	13	19	19	19	19	0	13	19*********	19	
36	19	8	0	0	2	11	20	21	21	21	0	11	21*********	21	

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 11 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	10	0	0	1	11	20	20	20	20	0	11	20	20	
2	14	10	0	1	5	11	17	20	20	20	0	11	20	20	
3	20	8	0	4	9	15	20	21	21	21	0	15	21	21	
4	20	0	0	4	13	19	20	20	20	20	0	19	20	20	
5	0	3	0	0	0	0	1	5	12	18	0	0	12	20	
6	0	0	0	0	0	0	0	9	18	18	0	0	18	18	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33	0	0	0	0	0	0	0	0	1	4	0	0	1	5	
34	0	0	0	0	0	0	0	0	1	5	0	0	1	12	
35	0	0	0	0	0	0	5	12	15	17	0	0	15	19	
36	1	0	0	0	0	0	2	10	19	21	0	0	19	21	

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 11 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
7	0	0	0	0	0	0	0	0	0	21	0	0	0	52	
8	27	0	0	0	0	14	39	57	69	74	0	14	69	80	
9	33	2	1	5	10	22	41	54	78	99	1	22	78	112	
10	14	23	0	2	7	12	22	37	64	87	0	12	64	104	
11	45	38	3	5	22	41	50	62	79	99	3	41	79	109	
12	88	9	0	11	48	80	90	94	110	131	0	80	110	143	
13	52	12	13	29	37	47	59	74	83	85	13	47	83	92	
14	46	44	16	35	39	43	48	50	56	76	16	43	56	117	
15	62	22	16	26	40	58	99	138	142	145	16	58	142	174	
16	43	24	15	22	30	38	48	93	139	151	15	38	139	159	
17	86	5	0	7	21	57	94	116	130	136	0	57	130	178	
18	99	42	42	46	50	76	106	124	135	146	42	76	135	195	
19	76	87	36	46	61	72	83	127	172	193	36	72	172	213	
20	95	38	62	70	77	88	100	110	119	130	62	88	119	174	
21	178	110	146	158	167	176	183	192	210	231	146	176	210	301	
22	56	7	24	35	44	54	72	105	156	218	24	54	156	257	
23	109	40	80	82	95	107	114	131	166	204	80	107	166	236	
24	136	32	63	80	106	133	136	153	175	191	63	133	175	249	
25	140	62	75	87	95	121	142	145	154	173	75	121	154	238	
26	137	86	80	86	96	121	139	152	164	178	80	121	164	203	
27	133	112	89	107	116	127	139	172	208	226	89	127	208	234	
28	81	61	22	34	54	71	103	139	170	219	22	71	170	255	
29	92	85	70	83	86	90	92	111	136	155	70	90	136	174	
30	67	28	8	14	36	60	72	92	132	165	8	60	132	232	
31	6	0	0	0	0	3	6	17	31	40	0	3	31	60	
32	0	0	0	0	0	0	0	0	0	16	0	0	0	56	
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

MAROUA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
10	0	0	0	0	0	0	0	0	3	8	0	0	0	0	8
11	4	0	0	0	1	4	6	9	30	34	0	4	19	0	34
12	2	0	0	0	0	2	3	5	18	31	0	2	12	0	31
13	13	0	0	2	7	13	19	22	26	30	0	13	24	4	30
14	14	0	1	8	11	14	18	21	25	31	5	14	22	9	31
15	25	1	5	9	16	25	34	44	58	72	7	25	51	3	72
16	34	6	19	27	31	34	38	43	46	69	23	34	45	17	69
17	42	9	19	25	35	42	45	58	70	82	21	42	65	26	82
18	31	0	9	11	24	31	48	64	88	113	10	31	75	8	113
19	45	4	23	35	40	45	52	56	70	90	31	45	63	10	90
20	62	15	36	43	57	62	70	71	81	90	40	62	74	43	90
21	73	46	56	61	69	73	80	86	162	203	59	73	117	50	203
22	74	24	30	43	58	74	86	92	101	113	36	74	97	38	113
23	66	30	47	58	64	66	71	94	117	155	53	66	103	24	155
24	85	34	43	58	73	85	89	115	127	147	51	85	118	38	147
25	66	15	32	45	58	66	74	84	92	133	36	66	88	14	133
26	48	16	20	27	40	48	55	62	74	99	23	48	64	22	99
27	30	0	8	14	16	30	34	44	59	80	12	30	50	1	80
28	4	0	0	0	0	4	7	15	33	45	0	4	23	9	45
29	4	0	0	0	0	4	7	12	19	27	0	4	17	0	27
30	0	0	0	0	0	0	2	5	8	18	0	0	6	0	18
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
3	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
6	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
8	36	30	36	36	36	36	36	36	36	36	36	36	36	17	36
9	39	27	37	39	39	39	39	39	39	39	39	39	39	30	39
10	35	24	28	33	35	35	35	35	35	35	31	35	35	29	35
11	29	0	1	14	26	29	32	35	35	35	3	29	35	14	35
12	32	0	10	29	30	32	34	35	35	35	21	32	35	8	35
13	20	0	5	11	14	20	25	26	32	34	7	20	28	3	34
14	17	1	8	12	14	17	20	24	28	34	11	17	25	0	34
15	9	0	0	0	0	9	17	25	29	30	0	9	27	0	30
16	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
17	0	0	0	0	0	0	0	0	1	10	0	0	0	0	10
18	0	0	0	0	0	0	0	0	1	18	0	0	0	0	18
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
26	2	2	2	2	2	2	2	2	3	4	2	2	2	2	4
27	4	2	2	2	2	4	4	5	6	7	2	4	6	2	7
28	7	0	1	2	4	7	10	12	13	16	2	7	13	0	16
29	16	0	7	11	14	16	22	23	26	30	11	16	23	5	30
30	29	6	19	22	27	29	33	35	36	39	21	29	36	10	39
31	30	15	23	25	29	30	32	33	33	33	25	30	33	16	33
32	27	22	27	27	27	27	27	27	27	27	27	27	27	20	27
33	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
34	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
35	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
36	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
10	0	0	0	0	0	0	0	0	3	8	0	0	1	0	8
11	4	0	0	0	1	4	7	9	30	34	0	4	19	0	34
12	2	0	0	0	0	2	3	5	18	31	0	2	12	0	31
13	13	0	0	5	7	13	19	22	26	30	2	13	25	4	30
14	14	0	1	8	11	14	18	21	25	31	5	14	23	9	31
15	25	1	5	9	16	25	34	35	35	35	7	25	35	3	35
16	29	14	28	29	29	29	29	29	29	29	29	29	29	15	29
17	26	10	21	26	26	26	26	26	26	26	24	26	26	17	26
18	29	5	19	29	29	29	29	29	29	29	27	29	29	15	29
19	32	30	32	32	32	32	32	32	32	32	32	32	32	30	32
20	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
21	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
22	41	38	40	40	41	41	41	41	41	41	40	41	41	39	41
23	41	40	40	41	41	41	41	41	41	41	41	41	41	40	41
24	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
25	41	39	41	41	41	41	41	41	41	41	41	41	41	39	41
26	41	38	40	41	41	41	41	41	41	41	40	41	41	38	41
27	43	40	41	41	43	43	44	45	45	45	41	43	45	36	45
28	37	27	30	32	32	37	40	43	44	45	32	37	43	31	45
29	27	10	14	19	21	27	29	31	32	41	17	27	32	15	41
30	12	0	4	5	9	12	14	19	21	26	5	12	20	3	26
31	2	0	0	0	0	2	3	7	8	11	0	2	8	0	11
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18
18	0	0	0	0	0	0	0	1	27	39	0	0	13	0	39
19	0	0	0	0	0	0	0	11	32	47	0	0	23	0	47
20	0	0	0	0	0	0	12	24	30	37	0	0	26	4	37
21	29	0	0	3	16	29	39	47	119	161	0	29	82	11	161
22	21	0	0	1	13	21	37	43	53	68	0	21	48	4	68
23	23	0	0	5	17	23	30	53	76	103	0	23	62	0	103
24	44	0	3	17	32	44	48	60	86	99	10	44	70	0	99
25	18	0	0	0	9	18	25	32	47	83	0	18	38	0	83
26	3	0	0	0	0	3	13	20	27	48	0	3	22	0	48
27	0	0	0	0	0	0	0	0	10	19	0	0	4	0	19
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NGAOUNDERE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
7	0	0	0	0	0	0	0	7	12	26	0	0	10	0	46
8	2	0	0	0	0	1	11	16	21	41	0	1	18	8	57
9	12	0	0	0	7	11	16	24	31	47	0	11	28	1	64
10	26	0	3	6	20	24	33	43	50	68	4	24	47	17	82
11	58	1	25	34	47	54	64	73	82	102	26	54	78	4	112
12	54	5	16	36	42	52	58	66	72	97	20	52	68	20	117
13	54	23	29	34	46	54	67	73	81	97	31	54	80	32	112
14	58	15	35	39	48	57	62	69	75	82	37	57	73	27	86
15	70	27	45	51	56	69	82	97	112	128	48	69	110	28	139
16	58	28	38	44	54	57	66	72	79	104	40	57	76	35	135
17	61	31	51	55	57	61	66	79	91	106	53	61	90	19	117
18	89	26	41	62	74	85	94	103	131	145	51	85	124	48	181
19	72	27	40	49	57	70	77	84	99	109	44	70	93	40	133
20	90	21	42	60	69	85	92	105	121	150	48	85	114	8	181
21	75	25	38	43	58	71	89	103	136	146	39	71	122	54	158
22	76	27	36	50	66	75	82	90	110	137	43	75	107	25	178
23	87	36	45	56	74	87	96	112	123	147	50	87	117	66	177
24	106	55	66	78	87	105	110	120	126	153	69	105	124	56	172
25	67	26	43	53	58	66	70	89	115	140	49	66	99	32	155
26	78	47	51	63	72	77	85	93	108	140	57	77	103	51	150
27	56	29	40	44	46	54	66	82	103	118	42	54	98	62	130
28	67	17	34	43	53	67	77	84	88	103	40	67	86	21	108
29	27	10	15	18	25	27	37	46	59	67	15	27	54	10	76
30	19	0	4	7	14	19	29	35	53	69	4	19	46	3	75
31	0	0	0	0	0	0	2	4	11	19	0	0	7	7	29
32	0	0	0	0	0	0	0	0	0	5	0	0	0	0	14
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
7	0	0	0	0	0	0	0	7	12	24	0	0	10	0	28
8	2	0	0	0	0	2	16	18	27	28	0	2	27	8	28
9	16	0	0	4	10	14	19	28	30	30	0	14	30	1	30
10	25	0	4	11	21	25	25	25	25	25	5	25	25	12	25
11	23	13	23	23	23	23	23	23	23	23	23	23	23	10	23
12	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
13	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
14	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
15	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
16	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
17	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
18	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
19	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
20	30	29	30	30	30	30	30	30	30	30	30	30	30	29	30
21	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
22	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
23	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
24	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
25	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
26	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
27	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
28	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
29	37	35	36	36	36	37	37	37	37	37	36	37	37	34	37
30	42	36	39	41	41	42	42	43	43	43	40	42	43	37	43
31	33	24	28	30	31	32	35	36	38	39	29	32	37	28	39
32	21	7	14	17	18	20	22	27	29	32	15	20	28	14	34
33	5	0	0	1	2	4	7	10	13	17	0	4	12	4	18
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	9
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2	28	25	28	28	28	28	28	28	28	28	28	28	28	18	28
3	31	26	31	31	31	31	31	31	31	31	31	31	31	18	31
4	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
5	29	27	29	29	29	29	29	29	29	29	29	29	29	26	29
6	26	16	25	26	26	26	26	26	26	26	26	26	26	19	26
7	28	0	8	18	21	28	28	28	28	28	11	28	28	14	28
8	13	0	0	5	11	12	27	28	28	28	1	12	28	0	28
9	13	0	0	0	5	13	17	21	28	30	0	13	26	0	30
10	0	0	0	0	0	0	1	5	19	21	0	0	13	0	25
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	10
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	2	2	2	1	1	2	1	3
30	4	2	2	2	3	3	4	5	5	6	2	3	5	2	8
31	5	0	0	1	2	4	6	7	9	11	1	4	8	0	14
32	16	2	5	9	11	15	16	18	20	25	7	15	19	1	29
33	28	15	19	23	24	28	30	32	33	34	21	28	32	8	34
34	31	21	29	31	31	31	31	31	31	31	30	31	31	18	31
35	27	26	27	27	27	27	27	27	27	27	27	27	27	24	27
36	31	28	31	31	31	31	31	31	31	31	31	31	31	24	31

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
11	0	0	0	0	0	0	0	0	0	8	0	0	0	0	24
12	0	0	0	0	0	0	0	12	33	55	0	0	24	0	82
13	10	0	0	0	5	10	24	42	44	63	0	10	43	0	75
14	15	0	0	3	9	14	25	33	43	47	0	14	40	0	58
15	32	0	10	23	28	31	46	69	84	100	17	31	82	0	111
16	24	0	0	7	20	24	32	35	46	71	1	24	42	0	101
17	23	0	0	13	19	22	26	44	56	69	6	22	55	0	82
18	49	0	5	25	40	48	58	70	98	112	14	48	91	13	142
19	39	0	5	17	25	37	44	52	66	75	9	37	60	15	100
20	59	0	10	27	38	54	61	74	83	119	16	54	81	0	150
21	45	0	6	13	28	41	59	73	103	111	8	41	91	18	119
22	43	0	4	17	30	39	49	57	77	103	10	39	74	0	144
23	56	6	14	25	43	54	59	78	90	116	19	54	85	35	146
24	74	23	34	47	55	73	78	88	94	121	38	73	92	24	140
25	32	0	9	19	23	31	36	54	80	106	15	31	64	4	121
26	47	12	20	31	40	46	52	60	76	108	25	46	67	17	118
27	25	0	8	12	15	23	34	50	72	87	10	23	67	38	98
28	34	0	2	10	20	33	44	51	55	66	7	33	53	3	75
29	0	0	0	0	0	0	0	9	23	31	0	0	18	0	40
30	0	0	0	0	0	0	0	0	4	17	0	0	2	0	21
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

YOKO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	15	0	0	0	0	22
4	0	0	0	0	0	0	0	2	8	23	0	0	4	0	27
5	0	0	0	0	0	0	0	3	12	30	0	0	4	0	38
6	2	0	0	0	0	1	9	23	29	35	0	1	26	1	47
7	19	0	0	0	11	18	27	33	46	66	0	18	36	1	78
8	23	0	0	7	17	23	27	39	46	50	3	23	44	1	52
9	28	0	7	17	22	27	38	52	63	104	15	27	57	9	127
10	30	6	10	16	21	28	47	52	58	75	13	28	52	3	82
11	37	3	12	20	28	35	42	49	59	77	16	35	50	5	97
12	35	3	20	29	31	34	41	54	70	79	27	34	60	2	81
13	43	6	20	30	37	42	49	58	95	132	27	42	62	0	164
14	53	10	19	28	38	51	59	75	80	99	23	51	76	4	110
15	61	16	30	36	42	60	64	71	79	92	33	60	74	4	126
16	49	15	23	35	41	47	51	53	75	95	34	47	54	7	131
17	39	6	15	24	31	38	54	57	63	78	21	38	59	1	81
18	53	11	22	28	42	53	69	74	88	100	25	53	80	9	106
19	53	16	20	23	40	52	62	67	77	106	22	52	70	7	123
20	40	6	16	22	28	39	51	68	86	136	20	39	76	19	149
21	65	1	16	23	34	59	76	84	90	100	20	59	85	21	106
22	31	0	14	17	27	31	33	39	55	69	17	31	42	16	81
23	45	5	20	38	40	44	54	74	87	126	32	44	82	51	134
24	91	18	36	64	83	90	108	123	125	150	52	90	123	43	158
25	89	31	58	71	77	88	100	115	119	133	70	88	118	51	144
26	87	45	63	68	77	87	97	114	123	132	66	87	119	54	135
27	112	40	66	77	104	111	119	138	157	175	72	111	142	72	194
28	97	49	67	75	90	96	100	114	130	152	72	96	119	55	155
29	101	32	64	80	89	101	110	120	142	174	78	101	125	44	176
30	100	32	42	69	78	98	104	122	145	169	61	98	130	54	176
31	41	0	7	18	30	39	50	60	74	113	15	39	60	26	126
32	11	0	0	0	2	9	22	29	39	62	0	9	35	0	66
33	0	0	0	0	0	0	0	0	2	6	0	0	0	0	26
34	0	0	0	0	0	0	0	0	5	24	0	0	0	0	34
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	1	15	0	0	0	0	22
4	0	0	0	0	0	0	0	2	8	25	0	0	4	0	26
5	0	0	0	0	0	0	2	6	22	25	0	0	12	0	25
6	10	0	0	0	1	9	17	22	22	22	0	9	22	1	22
7	25	0	0	1	17	25	25	25	25	25	0	25	25	5	25
8	24	0	3	14	21	24	24	24	24	24	7	24	24	8	24
9	24	4	17	23	24	24	24	24	24	24	22	24	24	12	24
10	20	8	20	20	20	20	20	20	20	20	20	20	20	12	20
11	18	18	18	18	18	18	18	18	18	18	18	18	18	14	18
12	19	14	19	19	19	19	19	19	19	19	19	19	19	5	19
13	23	19	23	23	23	23	23	23	23	23	23	23	23	8	23
14	27	27	27	27	27	27	27	27	27	27	27	27	27	14	27
15	33	33	33	33	33	33	33	33	33	33	33	33	33	17	33
16	34	33	33	34	34	34	34	34	34	34	33	34	34	17	34
17	32	31	31	31	32	32	32	32	32	32	31	32	32	15	32
18	31	30	30	31	31	31	31	31	31	31	31	31	31	22	31
19	30	28	29	29	30	30	30	30	30	30	29	30	30	14	30
20	28	27	28	28	28	28	28	28	28	28	28	28	28	27	28
21	32	27	31	31	32	32	32	32	32	32	31	32	32	27	32
22	30	29	29	30	30	30	30	30	30	30	30	30	30	29	30
23	31	29	30	31	31	31	31	31	31	31	30	31	31	29	31
24	34	33	34	34	34	34	34	34	34	34	34	34	34	33	34
25	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
26	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
27	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
28	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
29	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
30	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
31	43	39	40	41	42	43	43	43	43	43	41	43	43	41	43
32	42	27	32	40	42	42	45	45	45	45	38	42	45	34	45
33	26	10	15	23	25	26	31	34	39	39	21	26	36	17	39
34	15	0	5	8	9	15	16	20	24	32	8	15	21	7	33
35	2	0	0	0	0	1	3	5	10	22	0	1	6	0	28
36	0	0	0	0	0	0	0	0	0	17	0	0	0	0	20

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	13	25	25	25	25	25	25	25	25	25	25	25	15	25
2	26	21	26	26	26	26	26	26	26	26	26	26	26	21	26
3	29	1	18	29	29	29	29	29	29	29	27	29	29	14	29
4	26	0	2	21	26	26	26	26	26	26	18	26	26	9	26
5	25	0	0	13	22	24	25	25	25	25	4	24	25	3	25
6	12	0	0	0	2	11	17	21	22	22	0	11	22	0	22
7	0	0	0	0	0	0	6	14	25	25	0	0	18	0	25
8	0	0	0	0	0	0	0	5	16	22	0	0	6	0	24
9	0	0	0	0	0	0	0	0	1	8	0	0	0	0	12
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
17	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31	2	2	2	2	2	2	2	3	4	5	2	2	3	2	6
32	2	0	0	0	0	2	3	3	6	13	0	2	4	0	15
33	13	0	0	1	7	10	13	14	17	24	0	10	14	2	26
34	18	0	3	9	14	17	18	24	24	30	8	17	24	7	32
35	25	0	11	19	23	25	26	28	28	28	17	25	28	13	28
36	26	5	18	26	26	26	26	26	26	26	26	26	26	15	26

FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	1	23	0	0	0	0	33
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	14
11	0	0	0	0	0	0	0	0	11	24	0	0	2	0	49
12	0	0	0	0	0	0	4	12	22	39	0	0	16	0	47
13	9	0	0	0	0	8	21	35	70	113	0	8	39	0	139
14	24	0	0	0	5	19	32	45	51	76	0	19	49	0	77
15	30	0	0	8	14	26	32	36	51	60	5	26	39	0	62
16	9	0	0	0	1	7	16	19	42	60	0	7	20	0	97
17	4	0	0	0	0	3	16	22	26	39	0	3	23	0	44
18	12	0	0	0	0	7	28	41	56	65	0	7	48	0	70
19	21	0	0	0	6	20	25	31	43	68	0	20	34	0	89
20	6	0	0	0	0	3	21	33	50	83	0	3	41	0	104
21	16	0	0	0	3	15	33	45	58	69	0	15	51	0	73
22	0	0	0	0	0	0	0	1	17	35	0	0	3	0	49
23	10	0	0	0	3	8	19	38	50	91	0	8	40	33	103
24	59	0	0	13	38	55	73	80	91	106	9	55	87	18	118
25	55	0	24	37	42	54	59	77	83	99	30	54	80	19	110
26	55	13	31	35	45	55	65	82	91	100	34	55	87	22	103
27	80	9	34	46	72	79	88	107	125	144	41	79	110	41	162
28	64	16	35	43	57	63	67	81	98	119	40	63	86	23	122
29	67	1	29	46	55	67	76	86	108	139	44	67	91	13	141
30	65	0	7	34	43	63	69	84	110	134	26	63	95	21	141
31	0	0	0	0	0	0	7	17	31	68	0	0	17	5	83
32	0	0	0	0	0	0	0	0	0	16	0	0	0	0	22
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 3 COTE D'IVOIRE - Analyse fréquentielle des principaux termes du bilan hydrique.

IVORY COAST - Frequential analysis of main water-balance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bouaké

Bondoukou

Bouna

Boundiali

Ferkéssédougou

Man

Odiénné

BONDOUKOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	2	7	0	0	0	0	16
2	0	0	0	0	0	0	0	0	0	8	0	0	0	0	17
3	0	0	0	0	0	0	0	0	1	20	0	0	0	0	37
4	0	0	0	0	0	0	0	0	5	11	0	0	0	0	27
5	1	0	0	0	0	1	3	6	16	33	0	1	15	0	62
6	8	0	0	0	0	8	13	23	42	61	0	8	30	0	91
7	9	0	0	1	3	9	14	27	39	59	0	9	31	0	79
8	19	0	0	7	14	19	30	40	50	76	1	19	49	0	87
9	31	3	11	16	21	31	38	46	56	84	15	31	47	0	91
10	29	2	8	15	23	29	37	43	56	74	10	29	51	0	102
11	36	3	10	23	30	36	42	52	61	77	15	36	59	1	83
12	43	5	17	22	35	43	58	73	78	84	20	43	76	3	88
13	51	3	18	24	37	51	58	66	78	102	21	51	71	1	109
14	39	14	23	26	31	39	46	57	68	84	25	39	61	9	110
15	47	8	26	34	39	47	53	61	77	93	32	47	71	4	114
16	45	11	27	35	41	45	62	70	83	94	28	45	77	4	109
17	49	15	21	33	42	49	53	59	65	84	27	49	62	11	120
18	48	8	21	31	40	48	53	61	66	87	24	48	64	0	101
19	21	0	1	2	8	21	29	45	58	65	2	21	50	0	79
20	12	0	1	6	10	12	18	24	37	43	3	12	32	0	47
21	14	0	0	2	4	14	19	29	41	56	0	14	33	0	81
22	8	0	0	1	2	8	10	17	26	35	0	8	19	0	42
23	7	0	0	1	2	7	14	24	36	56	0	7	26	0	63
24	26	0	7	8	15	26	28	41	54	79	8	26	47	0	99
25	51	7	18	29	38	51	63	75	84	101	24	51	82	0	120
26	60	17	29	36	41	60	68	73	85	124	32	60	79	4	128
27	56	20	37	41	47	56	69	83	99	109	38	56	89	14	115
28	64	23	30	43	50	64	78	87	100	117	35	64	93	9	119
29	56	12	23	30	41	56	63	68	75	92	25	56	72	0	121
30	46	3	13	19	26	46	59	71	74	84	16	46	72	0	96
31	11	0	0	1	7	11	16	29	44	59	0	11	39	0	78
32	3	0	0	0	0	3	5	16	20	33	0	3	18	0	42
33	0	0	0	0	0	0	0	9	17	35	0	0	13	0	62
34	0	0	0	0	0	0	2	4	14	22	0	0	8	0	34
35	0	0	0	0	0	0	0	2	11	23	0	0	4	0	34
36	0	0	0	0	0	0	0	0	3	11	0	0	2	0	13

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	2	7	0	0	0	0	16
2	0	0	0	0	0	0	0	0	0	11	0	0	0	0	18
3	0	0	0	0	0	0	0	0	3	20	0	0	0	0	29
4	0	0	0	0	0	0	0	0	5	8	17	0	0	7	0	26
5	1	0	0	0	0	1	4	11	24	25	0	1	16	0	25
6	15	0	0	0	5	15	23	24	24	24	0	15	24	0	24
7	27	0	1	5	13	27	27	27	27	27	3	27	27	0	27
8	28	0	6	14	18	28	28	28	28	28	12	28	28	0	28
9	30	14	19	28	30	30	30	30	30	30	20	30	30	2	30
10	31	20	29	31	31	31	31	31	31	31	31	31	31	5	31
11	35	23	34	35	35	35	35	35	35	35	35	35	35	6	35
12	39	33	33	39	39	39	39	39	39	39	39	39	39	13	39
13	47	35	41	43	45	47	47	47	47	47	43	47	47	28	47
14	45	37	39	42	44	45	46	46	46	46	41	45	46	27	46
15	47	28	42	45	46	47	47	47	47	47	44	47	47	25	47
16	39	31	37	38	39	39	39	40	40	40	38	39	40	30	40
17	37	33	34	35	36	37	37	37	37	37	35	37	37	32	37
18	33	31	33	33	33	33	33	33	33	33	33	33	33	28	33
19	28	23	28	28	28	28	28	28	28	28	28	28	28	20	28
20	23	20	23	23	23	23	23	23	23	23	23	23	23	10	23
21	22	15	22	22	22	22	22	22	22	22	22	22	22	2	22
22	16	1	16	16	16	16	16	16	16	16	16	16	16	0	16
23	16	6	16	16	16	16	16	16	16	16	16	16	16	0	16
24	22	7	20	22	22	22	22	22	22	22	22	22	22	2	22
25	24	15	24	24	24	24	24	24	24	24	24	24	24	4	24
26	28	23	28	28	28	28	28	28	28	28	28	28	28	16	28
27	36	35	36	36	36	36	36	36	36	36	36	36	36	33	36
28	37	35	37	37	37	37	37	37	37	37	37	37	37	34	37
29	39	38	37	38	39	39	39	39	39	39	38	39	39	36	39
30	43	35	40	41	43	43	43	43	43	43	41	43	43	34	43
31	36	25	31	34	36	36	37	37	40	40	33	36	38	20	40
32	30	17	23	27	28	30	31	36	37	38	25	30	37	8	38
33	22	1	8	13	16	22	28	30	34	34	11	22	32	0	34
34	15	0	0	2	6	15	19	23	28	30	0	15	25	0	30
35	3	0	0	0	0	3	8	16	24	26	0	3	21	0	26
36	2	0	0	0	0	2	5	11	13	17	0	2	12	0	18

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	7	20	24	25	25	25	25	25	25	22	25	25	2	25
2	27	8	20	27	27	27	27	27	27	27	27	27	27	1	27
3	29	0	21	29	29	29	29	29	29	29	25	29	29	0	29
4	26	0	15	18	26	26	26	26	26	26	17	26	26	0	26
5	23	0	0	9	18	23	24	25	25	25	0	23	25	0	25
6	5	0	0	0	0	5	13	22	24	24	0	5	24	0	24
7	0	0	0	0	0	0	3	20	23	27	0	0	21	0	27
8	0	0	0	0	0	0	3	13	15	28	0	0	14	0	28
9	0	0	0	0	0	0	0	0	9	14	0	0	1	0	20
10	0	0	0	0	0	0	0	0	0	7	0	0	0	0	11
11	0	0	0	0	0	0	0	0	0	5	0	0	0	0	11
12	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
13	2	2	2	2	2	2	3	5	6	11	2	2	6	2	18
14	3	2	2	2	2	3	3	5	7	10	2	3	6	2	11
15	3	2	2	2	2	3	3	4	5	10	2	3	4	2	23
16	2	1	1	1	1	2	2	3	3	6	1	2	3	1	10
17	1	1	1	1	1	1	1	2	3	4	1	1	2	1	5
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
22	0	0	0	0	0	0	0	0	0	5	0	0	0	0	14
23	0	0	0	0	0	0	0	0	0	1	0	0	0	0	10
24	0	0	0	0	0	0	0	0	0	4	0	0	0	0	14
25	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
28	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
29	1	1	1	1	1	1	1	1	2	3	1	1	2	1	4
30	2	2	2	2	2	2	2	4	5	9	2	2	4	2	15
31	4	1	1	2	4	4	5	7	8	14	1	4	7	1	16
32	8	0	0	0	4	4	9	11	13	16	0	8	11	0	20
33	11	0	0	1	5	11	15	18	22	29	0	11	20	0	32
34	15	0	0	4	9	15	21	26	30	30	1	15	27	0	30
35	22	0	0	6	14	22	23	26	26	26	1	22	26	0	26
36	22	6	11	12	17	22	26	26	26	26	12	22	26	0	26

FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
9	0	0	0	0	0	0	0	0	0	2	0	0	0	0	14
10	0	0	0	0	0	0	0	0	0	4	0	0	0	0	14
11	0	0	0	0	0	0	0	0	0	14	0	0	0	0	29
12	0	0	0	0	0	0	0	0	4	25	0	0	0	0	33
13	0	0	0	0	0	0	0	5	26	32	0	0	15	0	40
14	0	0	0	0	0	0	0	0	5	33	0	0	0	0	53
15	0	0	0	0	0	0	0	0	1	18	0	0	0	0	55
16	0	0	0	0	0	0	0	0	13	34	0	0	5	0	42
17	0	0	0	0	0	0	0	0	7	12	26	0	0	9	0	49
18	0	0	0	0	0	0	0	7	13	20	37	0	0	16	0	62
19	0	0	0	0	0	0	0	0	0	11	26	0	0	0	0	38
20	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	18
21	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	35
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	31
24	0	0	0	0	0	0	0	0	0	19	43	0	0	0	0	58
25	0	0	0	0	0	0	0	0	24	47	63	0	0	39	0	97
26	9	0	0	0	1	9	33	44	51	64	0	9	47	0	95
27	17	0	0	0	0	9	17	26	35	50	79	0	17	42	0	86
28	20	0	0	0	0	8	20	35	46	58	80	0	20	49	0	83
29	7	0	0	0	0	0	7	16	26	36	54	0	7	30	0	84
30	0	0	0	0	0	0	0	13	28	33	41	0	0	31	0	57
31	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	34
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUNA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	13
5	0	0	0	0	0	0	0	4	18	42	0	0	6	0	49
6	0	0	0	0	0	0	3	5	14	19	0	0	9	0	33
7	4	0	0	0	0	4	7	16	24	35	0	4	20	0	42
8	8	0	0	0	3	8	16	23	34	43	0	8	27	0	58
9	10	0	0	3	7	13	23	38	47	56	1	10	39	0	63
10	21	0	0	7	14	21	27	32	40	50	4	21	36	0	54
11	34	0	11	16	28	34	40	48	59	81	14	34	55	0	90
12	35	8	12	18	28	35	43	52	60	77	13	35	57	2	86
13	37	10	16	19	25	37	45	56	71	91	17	37	63	2	107
14	36	0	9	19	26	36	51	61	72	92	18	39	65	0	97
15	39	8	21	25	28	39	52	61	70	89	22	39	64	0	104
16	41	8	17	28	32	41	52	61	78	96	23	41	71	2	104
17	45	15	24	31	38	45	54	65	77	92	26	45	69	6	115
18	35	10	20	24	30	35	43	55	74	95	22	35	64	3	115
19	33	0	4	13	27	33	50	65	76	111	9	33	72	0	122
20	40	2	5	19	24	40	48	56	69	88	12	40	63	0	109
21	34	0	6	16	24	34	54	65	74	104	8	34	68	0	123
22	30	0	7	16	21	30	35	51	66	95	11	30	55	0	103
23	30	1	8	17	26	30	42	51	59	92	11	30	54	0	101
24	57	7	28	34	43	57	66	78	88	122	31	57	80	1	128
25	84	22	60	55	67	84	93	119	129	166	43	84	123	17	175
26	57	26	61	47	58	57	78	102	113	153	45	67	108	16	157
27	55	21	35	45	55	55	75	88	101	138	41	66	96	3	141
28	63	16	14	23	28	63	64	55	69	114	21	43	62	0	125
29	22	8	8	18	17	22	30	38	46	68	8	22	43	0	84
30	14	0	0	0	6	14	20	30	46	74	0	13	36	0	97
31	8	0	0	0	6	8	10	15	24	47	0	8	20	0	76
32	0	0	0	0	0	0	2	8	14	32	0	0	11	0	37
33	0	0	0	0	0	0	0	5	9	21	0	0	7	0	26
34	0	0	0	0	0	0	0	0	4	22	0	0	2	0	37
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
36	0	0	0	0	0	0	0	0	0	2	0	0	0	0	19

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	13
5	0	0	0	0	0	0	0	4	18	27	0	0	6	0	27
6	0	0	0	0	0	0	4	11	22	25	0	0	15	0	25
7	6	0	0	0	3	6	12	21	27	30	0	6	24	0	30
8	8	0	0	1	5	8	16	30	30	30	0	8	30	0	30
9	15	0	5	7	10	15	32	32	32	32	6	15	32	0	32
10	29	0	12	18	22	29	29	29	29	29	13	29	29	0	29
11	28	6	16	27	28	28	28	28	28	28	20	28	28	0	28
12	27	12	27	27	27	27	27	27	27	27	27	27	27	3	27
13	27	26	27	27	27	27	27	27	27	27	27	27	27	20	27
14	27	23	27	27	27	27	27	27	27	27	27	27	27	0	27
15	28	28	28	28	28	28	28	28	28	28	28	28	28	17	28
16	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
17	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
18	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
19	40	36	38	39	40	40	41	41	41	41	38	40	41	32	41
20	39	29	35	37	38	39	40	40	40	40	37	39	40	20	40
21	41	30	35	39	40	41	41	41	41	41	37	41	41	2	41
22	36	23	29	33	35	36	36	37	37	37	31	36	37	17	37
23	34	22	28	30	33	34	34	35	35	35	30	34	35	3	35
24	38	27	33	36	37	38	39	39	39	39	35	38	39	12	39
25	36	31	35	36	36	36	36	36	36	36	35	36	36	24	36
26	36	34	35	36	36	36	36	36	36	36	36	36	36	28	36
27	39	36	38	39	39	39	39	39	39	39	38	39	39	33	39
28	42	35	41	41	42	42	42	42	42	42	41	42	42	32	42
29	43	31	38	40	42	43	44	44	45	45	38	43	45	20	45
30	40	23	28	34	36	40	42	43	47	47	31	40	45	9	47
31	28	15	17	22	24	28	30	33	39	39	19	28	38	5	39
32	15	2	6	8	12	15	22	27	31	34	7	15	30	0	34
33	7	0	0	0	4	7	11	15	22	27	0	7	17	0	28
34	1	0	0	0	0	1	5	11	17	23	0	1	12	0	23
35	0	0	0	0	0	0	0	1	6	15	0	0	2	0	19
36	0	0	0	0	0	0	0	0	0	11	0	0	0	0	21

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	24	26	26	26	26	26	26	26	26	26	26	26	1	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	0	27
3	30	25	30	30	30	30	30	30	30	30	30	30	30	0	30
4	27	20	27	27	27	27	27	27	27	27	27	27	27	3	27
5	27	6	4	23	27	27	27	27	27	27	21	27	27	0	27
6	24	3	2	14	20	24	25	25	25	25	7	24	25	0	25
7	23	0	1	7	16	23	26	30	30	30	3	23	30	0	30
8	21	0	0	6	13	21	25	29	30	30	0	21	30	0	30
9	16	0	0	0	0	16	21	24	26	32	0	16	25	0	32
10	0	0	0	0	0	0	6	9	16	26	0	0	11	0	29
11	0	0	0	0	0	0	0	0	4	19	0	0	2	0	23
12	0	0	0	0	0	0	0	0	0	13	0	0	0	0	18
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1	1	1	1	1	1	2	3	4	4	1	1	3	1	6
20	2	1	1	1	1	2	3	4	4	10	1	2	4	1	13
21	2	2	2	2	2	2	3	4	6	11	2	2	4	2	20
22	2	1	1	1	2	2	3	5	8	14	1	2	5	1	16
23	2	1	1	1	2	2	4	5	6	12	1	2	6	1	16
24	1	1	1	1	1	1	3	4	5	10	1	1	4	1	14
25	1	1	1	1	1	1	1	1	2	4	1	1	1	1	6
26	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
27	1	1	1	1	1	1	1	1	2	3	1	1	1	1	4
28	2	2	2	2	2	2	2	3	3	6	2	2	3	2	10
29	4	2	2	2	3	4	5	7	9	11	2	4	7	2	21
30	5	0	0	3	4	5	9	11	17	21	0	5	12	0	24
31	4	0	0	3	3	4	13	15	19	23	0	9	16	0	24
32	15	0	2	5	10	15	20	24	26	31	3	15	26	0	33
33	21	0	5	12	17	21	23	24	24	29	10	21	29	0	29
34	21	0	5	11	17	21	23	23	23	23	7	21	23	0	23
35	23	5	15	21	23	23	23	23	23	23	19	23	23	0	23
36	24	6	25	28	28	28	28	28	28	28	28	28	28	1	28

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
13	0	0	0	0	0	0	0	0	0	36	0	0	0	0	40
14	0	0	0	0	0	0	0	0	0	7	30	0	0	1	0	37
15	0	0	0	0	0	0	0	0	5	16	41	0	0	9	0	59
16	0	0	0	0	0	0	0	0	11	27	52	0	0	20	0	67
17	0	0	0	0	0	0	0	7	13	28	56	0	0	18	0	78
18	0	0	0	0	0	0	0	10	20	43	58	0	0	31	0	75
19	0	0	0	0	0	0	0	0	21	24	66	0	0	24	0	82
20	0	0	0	0	0	0	0	0	1	14	33	0	0	7	0	40
21	0	0	0	0	0	0	0	0	0	14	45	0	0	8	0	65
22	0	0	0	0	0	0	0	0	0	9	43	0	0	0	0	61
23	0	0	0	0	0	0	0	0	0	2	41	0	0	0	0	55
24	0	0	0	0	0	0	0	1	23	40	56	0	0	28	0	65
25	24	0	0	0	2	24	37	61	83	127	0	24	72	0	135
26	28	0	0	5	12	28	42	60	71	94	0	28	66	0	116
27	25	0	0	1	12	25	33	44	60	94	0	25	46	0	105
28	1	0	0	0	0	1	7	14	26	58	0	1	19	0	83
29	0	0	0	0	0	0	0	0	0	22	0	0	0	0	30
30	0	0	0	0	0	0	0	0	0	9	0	0	0	0	41
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUAKE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	10
2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
3	0	0	0	0	0	0	0	6	19	24	0	0	11	0	41
4	0	0	0	0	0	0	0	3	13	40	0	0	6	0	44
5	5	0	0	0	2	5	16	24	40	61	0	5	34	0	74
6	8	0	0	0	3	8	10	13	33	49	0	8	18	0	66
7	21	0	0	7	15	21	27	32	42	75	2	21	34	0	108
8	14	0	0	3	9	14	23	32	46	80	1	14	38	0	90
9	27	2	8	16	23	27	37	41	57	77	12	27	45	0	105
10	33	2	11	16	25	33	39	51	62	89	13	33	54	0	113
11	37	9	16	25	32	37	52	58	70	89	19	37	62	1	98
12	41	7	17	26	33	41	46	60	71	98	19	41	66	0	108
13	29	4	17	21	26	29	36	52	57	86	19	29	55	0	110
14	40	8	14	25	28	40	45	55	71	94	18	40	57	1	113
15	39	14	19	28	30	39	50	60	77	103	24	39	67	1	140
16	44	16	24	29	35	44	54	66	81	94	26	44	74	12	99
17	41	10	16	25	34	41	48	56	75	97	19	41	62	4	102
18	29	1	11	15	19	29	39	45	72	79	13	29	58	0	109
19	29	0	4	7	16	29	39	54	61	74	4	29	57	0	94
20	21	0	0	8	16	21	26	31	46	77	2	21	33	0	97
21	20	0	2	4	11	20	24	33	61	97	3	20	43	0	117
22	14	0	3	6	9	14	23	30	39	56	4	14	35	0	65
23	22	0	6	12	16	22	29	31	39	58	7	22	31	0	69
24	49	6	14	25	40	49	61	72	86	104	17	49	76	0	124
25	56	12	34	45	51	56	64	75	102	145	37	56	83	3	167
26	60	21	32	44	51	60	77	89	110	144	35	60	93	14	153
27	54	19	27	34	50	54	62	78	86	99	31	54	81	4	133
28	53	15	22	30	41	53	67	75	93	111	23	53	82	8	117
29	35	6	15	19	30	35	42	51	60	74	17	35	58	0	87
30	26	0	5	11	18	26	33	34	57	86	7	26	42	0	98
31	9	0	0	1	5	9	12	17	30	44	0	9	21	0	61
32	6	0	0	0	4	6	8	11	17	32	0	6	14	0	37
33	0	0	0	0	0	0	3	9	14	18	0	0	11	0	22
34	1	0	0	0	0	1	3	9	15	29	0	1	9	0	46
35	0	0	0	0	0	0	0	2	11	22	0	0	4	0	34
36	0	0	0	0	0	0	0	0	1	10	0	0	0	0	21

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	10
2	0	0	0	0	0	0	0	0	0	5	0	0	0	0	10
3	0	0	0	0	0	0	0	6	19	24	0	0	11	0	30
4	0	0	0	0	0	0	0	7	17	26	0	0	11	0	26
5	12	0	0	0	3	12	20	26	26	26	0	12	26	0	26
6	12	0	0	2	8	12	23	24	24	24	0	12	24	0	24
7	27	0	5	16	22	27	27	27	27	27	11	27	27	0	27
8	28	2	10	15	27	28	28	28	28	28	12	28	28	0	28
9	30	7	21	30	30	30	30	30	30	30	26	30	30	3	30
10	32	25	31	32	32	32	32	32	32	32	32	32	32	21	32
11	36	34	36	36	36	36	36	36	36	36	36	36	36	29	36
12	40	31	38	40	40	40	40	40	40	40	40	40	40	17	40
13	46	30	42	43	44	46	46	47	47	47	42	46	47	17	47
14	44	29	35	37	40	44	45	46	46	46	36	44	46	12	46
15	47	30	33	40	44	47	47	47	47	47	35	47	47	9	47
16	39	29	34	38	39	39	40	41	41	41	34	39	41	22	41
17	37	30	34	35	36	37	37	38	38	38	34	37	38	20	38
18	34	24	29	33	34	34	34	34	34	34	31	34	34	18	34
19	29	18	29	29	29	29	29	29	29	29	29	29	29	11	29
20	24	1	21	24	24	24	24	24	24	24	24	24	24	0	24
21	22	10	22	22	22	22	22	22	22	22	22	22	22	0	22
22	16	5	16	16	16	16	16	16	16	16	16	16	16	0	16
23	15	9	15	15	15	15	15	15	15	15	15	15	15	0	15
24	21	21	21	21	21	21	21	21	21	21	21	21	21	15	21
25	23	23	23	23	23	23	23	23	23	23	23	23	23	13	23
26	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
27	36	35	36	36	36	36	36	36	36	36	36	36	36	30	36
28	38	37	37	37	38	38	38	38	38	38	37	38	38	35	38
29	40	37	38	39	40	40	40	41	41	41	39	40	41	34	41
30	44	32	38	41	42	44	45	45	45	45	39	44	45	29	45
31	35	22	26	30	33	35	36	38	41	43	28	35	40	17	43
32	25	14	17	18	24	25	28	32	35	39	17	25	34	4	39
33	16	0	3	8	11	16	19	21	26	30	5	16	23	0	34
34	6	0	0	1	3	6	10	16	21	29	0	6	17	0	31
35	0	0	0	0	0	0	1	8	19	25	0	0	11	0	26
36	0	0	0	0	0	0	0	2	5	10	22	0	0	8	0	23

VARIABLE : DFFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	16	23	25	25	25	25	25	25	25	25	25	25	4	25
2	27	19	27	27	27	27	27	27	27	27	27	27	27	8	27
3	30	2	9	23	29	30	30	30	30	30	17	30	30	0	30
4	26	0	9	18	25	26	26	26	26	26	13	26	26	0	26
5	14	0	0	0	3	14	22	26	26	26	0	14	26	0	26
6	11	0	0	0	0	11	15	20	24	24	0	11	22	0	24
7	0	0	0	0	0	0	5	10	19	27	0	0	12	0	27
8	0	0	0	0	0	0	0	12	17	25	0	0	14	0	28
9	0	0	0	0	0	0	0	0	8	21	0	0	1	0	26
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	6	0	0	0	0	14
13	3	2	2	2	3	3	4	6	7	17	2	3	6	2	20
14	3	2	2	2	2	3	7	11	12	19	2	3	11	2	24
15	3	2	2	2	2	3	5	8	16	18	2	3	12	2	20
16	2	1	1	1	2	2	3	4	8	11	1	2	4	1	15
17	2	1	1	1	1	2	3	4	5	8	1	2	4	1	10
18	0	0	0	0	0	0	0	0	4	7	0	0	0	0	9
19	0	0	0	0	0	0	0	0	0	7	0	0	0	0	11
20	0	0	0	0	0	0	0	0	0	17	0	0	0	0	23
21	0	0	0	0	0	0	0	0	0	5	0	0	0	0	18
22	0	0	0	0	0	0	0	0	0	6	0	0	0	0	13
23	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
28	1	1	1	1	1	1	1	1	2	2	1	1	2	1	2
29	2	1	1	1	1	2	2	3	4	4	1	2	3	1	5
30	3	2	2	2	3	3	5	7	9	15	2	3	7	2	17
31	9	2	4	6	9	9	11	14	18	21	4	9	15	2	25
32	14	2	5	8	13	14	17	22	24	26	6	14	23	1	28
33	19	4	10	14	16	19	22	27	32	34	10	19	29	0	36
34	24	0	6	13	19	24	28	29	31	31	12	24	29	0	31
35	26	0	5	15	24	26	26	26	26	26	7	26	26	0	26
36	26	3	12	18	23	26	26	26	26	26	16	26	26	1	26

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	32
11	0	0	0	0	0	0	0	0	0	20	0	0	0	0	25
12	0	0	0	0	0	0	0	0	13	20	0	0	3	0	35
13	0	0	0	0	0	0	0	0	0	14	0	0	0	0	27
14	0	0	0	0	0	0	0	0	0	23	0	0	0	0	44
15	0	0	0	0	0	0	0	0	7	32	0	0	0	0	66
16	0	0	0	0	0	0	0	0	6	32	0	0	0	0	42
17	0	0	0	0	0	0	0	0	16	41	0	0	8	0	58
18	0	0	0	0	0	0	0	0	8	31	0	0	0	0	36
19	0	0	0	0	0	0	0	0	6	32	0	0	0	0	53
20	0	0	0	0	0	0	0	0	6	28	0	0	0	0	37
21	0	0	0	0	0	0	0	0	11	51	0	0	1	0	73
22	0	0	0	0	0	0	0	0	0	16	0	0	0	0	22
23	0	0	0	0	0	0	0	0	7	14	0	0	0	0	26
24	1	0	0	0	0	1	16	27	38	76	0	1	30	0	89
25	25	0	0	0	19	25	34	43	76	110	0	25	52	0	139
26	28	0	0	5	23	28	43	58	70	110	2	28	65	0	126
27	23	0	0	4	17	23	34	44	57	72	0	23	52	0	98
28	7	0	0	0	1	7	26	37	49	66	0	7	42	0	74
29	0	0	0	0	0	0	0	5	18	36	0	0	8	0	49
30	0	0	0	0	0	0	0	0	6	37	0	0	0	0	56
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUNDIALI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	15
5	0	0	0	0	0	0	0	0	3	14	0	0	1	0	20
6	0	0	0	0	0	0	0	0	16	22	0	0	12	0	35
7	1	0	0	0	0	1	3	6	15	31	0	1	14	0	59
8	3	0	0	0	0	3	5	12	23	32	0	3	20	0	36
9	5	0	0	0	2	5	16	28	44	55	0	5	33	0	75
10	10	0	0	3	7	10	16	20	35	53	2	10	28	0	60
11	18	0	3	10	16	18	22	26	44	79	6	18	41	0	94
12	32	5	14	20	27	32	40	45	63	74	19	32	54	0	81
13	27	0	2	17	22	27	34	42	55	68	9	27	49	0	74
14	37	7	18	23	32	37	49	51	56	68	22	37	54	0	85
15	40	7	19	23	28	40	47	51	64	79	21	40	59	2	102
16	50	11	24	30	36	50	58	73	97	120	27	50	87	0	139
17	56	18	26	40	49	56	60	68	79	97	35	56	73	8	114
18	54	17	20	33	38	54	59	71	87	113	30	54	84	7	124
19	54	4	17	31	42	54	67	77	123	131	27	54	105	0	156
20	98	12	33	47	62	98	103	112	120	148	41	98	115	0	158
21	107	26	52	78	97	107	123	128	166	189	76	107	149	15	206
22	95	15	40	55	78	95	104	122	169	192	50	95	152	6	207
23	111	52	73	88	99	111	120	140	159	168	84	111	152	26	197
24	117	44	58	76	94	117	124	136	171	204	68	117	158	29	219
25	90	42	53	69	79	90	111	116	161	179	58	90	150	25	208
26	75	25	40	56	60	75	87	107	149	168	48	75	125	18	214
27	55	22	27	41	45	55	64	70	95	129	37	55	87	13	137
28	46	5	14	27	40	46	55	70	74	93	26	46	72	0	125
29	28	0	8	12	19	28	38	53	65	107	12	28	60	0	139
30	25	1	11	17	19	25	33	45	53	82	15	25	52	0	116
31	9	0	0	0	4	9	15	22	27	51	0	9	25	0	61
32	2	0	0	0	0	2	6	13	30	43	0	2	25	0	49
33	0	0	0	0	0	0	0	0	7	19	0	0	3	0	29
34	0	0	0	0	0	0	0	0	4	19	0	0	0	0	25
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	17
3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
4	0	0	0	0	0	0	0	0	1	9	0	0	0	0	26
5	0	0	0	0	0	0	0	0	11	20	0	0	3	0	23
6	0	0	0	0	0	0	0	1	18	24	0	0	12	0	24
7	3	0	0	0	0	3	6	14	24	27	0	3	21	0	27
8	6	0	0	0	2	6	8	17	26	27	0	6	24	0	27
9	15	0	0	1	3	15	20	30	30	30	0	15	30	0	30
10	18	0	3	7	10	18	22	27	27	27	6	18	27	0	27
11	26	1	4	18	19	26	27	27	27	27	14	26	27	0	27
12	26	11	18	26	26	26	26	26	26	26	26	26	26	2	26
13	26	12	20	26	26	26	26	26	26	26	25	26	26	6	26
14	25	25	25	25	25	25	25	25	25	25	25	25	25	13	25
15	36	23	36	36	36	36	36	36	36	36	36	36	36	16	36
16	41	27	37	41	41	41	41	41	41	41	41	41	41	12	41
17	51	38	51	51	51	51	51	51	51	51	51	51	51	26	51
18	52	41	47	50	52	52	52	52	52	52	49	52	52	29	52
19	46	37	39	42	44	46	46	46	46	46	41	46	46	34	46
20	39	35	37	38	39	39	39	39	39	39	37	39	39	30	39
21	41	39	41	41	41	41	41	41	41	41	41	41	41	36	41
22	37	35	36	37	37	37	37	37	37	37	37	37	37	33	37
23	36	36	36	36	36	36	36	36	36	36	36	36	36	35	36
24	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
25	37	37	37	37	37	37	37	37	37	37	37	37	37	36	37
26	38	37	38	38	38	38	38	38	38	38	38	38	38	37	38
27	41	39	40	40	41	41	41	41	41	41	40	41	41	38	41
28	42	39	41	41	42	42	42	42	42	42	41	42	42	39	42
29	44	35	39	42	42	44	45	45	45	45	40	44	45	28	45
30	46	27	37	40	42	46	48	48	49	49	40	46	49	16	49
31	33	21	24	28	30	33	35	37	40	43	27	33	38	9	43
32	23	8	12	16	19	23	24	29	37	38	15	23	32	7	38
33	8	0	0	3	6	8	15	21	29	33	0	8	26	0	33
34	3	0	0	0	0	3	8	11	19	27	0	3	17	0	28
35	0	0	0	0	0	0	0	3	8	17	0	0	6	0	18
36	0	0	0	0	0	0	0	0	1	6	0	0	0	0	14

VARIABLE : DEFICIT HYDRIQUE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	15	25	25	25	25	25	25	25	25	25	25	25	0	25
2	26	4	26	26	26	26	26	26	26	26	26	26	26	0	26
3	29	23	29	29	29	29	29	29	29	29	29	29	29	0	29
4	26	0	23	26	26	26	26	26	26	26	25	26	26	0	26
5	26	2	11	25	26	26	26	26	26	26	18	26	26	0	26
6	24	0	2	15	24	24	24	24	24	24	8	24	24	0	24
7	23	0	0	11	18	23	25	27	27	27	5	23	27	0	27
8	19	0	0	4	10	19	24	26	27	27	2	19	27	0	27
9	15	0	0	0	5	15	25	27	30	30	0	15	29	0	30
10	9	0	0	0	1	9	16	17	22	24	0	9	20	0	26
11	0	0	0	0	0	0	5	9	15	24	0	0	12	0	27
12	0	0	0	0	0	0	0	0	3	14	0	0	0	0	18
13	0	0	0	0	0	0	0	0	2	9	0	0	0	0	13
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
15	0	0	0	0	0	0	0	0	0	7	0	0	0	0	14
16	0	0	0	0	0	0	0	0	0	11	0	0	0	0	14
17	0	0	0	0	0	0	0	0	0	6	0	0	0	0	13
18	3	3	3	3	3	3	3	4	7	11	3	3	6	3	15
19	2	2	2	2	2	2	3	5	7	10	2	2	6	2	11
20	1	1	1	1	1	1	1	1	3	3	1	1	2	1	4
21	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
22	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	2	2	1	1	2	1	2
28	2	2	2	2	2	2	2	2	3	4	2	2	3	2	5
29	2	2	2	2	2	2	2	4	5	7	10	2	2	6	2	11
30	4	2	2	2	3	4	5	7	10	12	19	2	6	12	2	24
31	4	2	1	2	4	4	5	11	14	16	19	3	8	15	0	21
32	14	0	0	7	12	14	15	19	22	26	2	14	22	0	29
33	23	0	0	7	16	23	26	27	33	33	5	23	30	0	33
34	26	9	9	12	17	24	28	28	28	28	10	24	28	0	28
35	23	5	13	19	22	23	23	23	23	23	16	23	23	2	23
36	27	12	25	27	27	27	27	27	27	27	27	27	27	4	27

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	7	0	0	0	0	32
13	0	0	0	0	0	0	0	0	0	8	0	0	0	0	19
14	0	0	0	0	0	0	0	0	0	21	0	0	0	0	30
15	0	0	0	0	0	0	0	1	14	42	0	0	12	0	70
16	0	0	0	0	0	0	4	14	49	72	0	0	26	0	79
17	0	0	0	0	0	0	1	12	22	55	0	0	18	0	72
18	0	0	0	0	0	0	0	2	22	40	0	0	11	0	55
19	0	0	0	0	0	0	0	1	9	29	0	0	13	0	74
20	10	0	0	0	0	0	10	30	52	65	86	0	10	60	0	102
21	59	0	0	24	37	54	70	86	126	148	8	59	109	0	166
22	63	0	0	1	29	53	62	77	127	150	3	53	100	0	165
23	68	7	24	42	55	73	76	100	118	130	37	68	108	0	159
24	80	7	22	34	58	81	87	99	125	167	32	80	110	0	183
25	64	2	12	22	37	64	69	75	120	137	17	48	109	0	167
26	37	0	1	18	22	37	44	67	110	130	9	37	87	0	176
27	15	0	0	0	5	15	25	31	57	90	0	15	49	0	98
28	1	0	0	0	0	1	9	27	33	50	0	1	31	0	84
29	0	0	0	0	0	0	0	0	18	51	0	0	10	0	96
30	0	0	0	0	0	0	0	0	0	20	0	0	0	0	41
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FERKESSEDOUGOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	10
5	0	0	0	0	0	0	0	0	4	36	0	0	1	0	54
6	0	0	0	0	0	0	0	0	5	11	0	0	2	0	37
7	1	0	0	0	0	0	6	9	16	24	0	0	13	0	30
8	5	0	0	0	1	5	9	16	27	42	0	5	21	0	51
9	17	0	0	5	10	17	28	31	50	64	2	17	43	0	76
10	15	0	0	4	6	13	18	24	35	55	2	13	28	0	66
11	24	0	8	12	17	24	28	36	46	64	10	24	43	0	80
12	40	4	13	18	23	37	49	56	65	84	14	37	59	2	96
13	30	3	13	22	27	29	34	37	47	64	15	29	41	0	83
14	31	1	13	20	24	30	37	56	65	71	18	30	60	0	74
15	51	9	15	34	37	50	60	68	91	108	20	50	81	6	132
16	41	15	21	28	30	39	47	54	67	86	24	39	60	4	109
17	46	19	25	34	41	45	52	66	76	89	27	45	73	13	100
18	46	13	25	34	42	45	57	65	78	98	27	45	75	5	114
19	48	8	18	26	32	46	55	68	83	110	22	46	80	0	124
20	52	19	28	36	42	50	62	68	73	97	30	50	70	8	118
21	66	4	20	30	51	65	79	91	115	142	25	65	97	0	180
22	89	9	32	50	64	87	105	124	142	177	35	87	130	3	194
23	95	29	54	71	82	95	105	122	143	175	62	95	136	18	191
24	82	17	41	61	70	81	104	112	141	164	44	81	133	10	169
25	78	32	50	59	64	73	89	98	124	146	55	73	115	24	172
26	70	24	44	57	60	66	86	95	114	133	50	66	101	11	157
27	70	26	43	55	65	69	75	81	93	104	46	69	89	20	110
28	34	16	20	28	29	33	36	43	62	71	22	33	59	8	77
29	27	2	7	13	20	27	33	43	61	78	9	27	52	0	81
30	23	0	5	11	19	22	31	35	45	67	8	22	40	0	71
31	5	0	0	0	1	5	9	18	23	48	0	5	21	0	52
32	0	0	0	0	0	0	1	4	15	33	0	0	9	0	49
33	0	0	0	0	0	0	0	2	9	24	0	0	5	0	32
34	0	0	0	0	0	0	0	0	4	19	0	0	3	0	36
35	0	0	0	0	0	0	0	0	1	7	0	0	0	0	11
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	14
4	0	0	0	0	0	0	0	0	1	10	0	0	0	0	16
5	0	0	0	0	0	0	0	0	5	25	0	0	4	0	25
6	0	0	0	0	0	0	0	2	10	23	0	0	7	0	23
7	6	0	0	0	0	5	8	13	22	27	0	5	20	0	27
8	6	0	0	0	3	5	15	20	28	28	0	5	27	0	28
9	28	0	3	9	12	26	30	30	30	30	4	26	30	0	30
10	25	0	2	10	17	24	26	26	26	26	4	24	26	0	26
11	25	4	11	20	25	25	25	25	25	25	12	25	25	0	25
12	26	12	25	26	26	26	26	26	26	26	26	26	26	6	26
13	26	26	26	26	26	26	26	26	26	26	26	26	26	12	26
14	26	26	26	26	26	26	26	26	26	26	26	26	26	9	26
15	33	27	33	33	33	33	33	33	33	33	33	33	33	13	33
16	32	31	32	32	32	32	32	32	32	32	32	32	32	24	32
17	35	35	35	35	35	35	35	35	35	35	35	35	35	21	35
18	41	39	41	41	41	41	41	41	41	41	41	41	41	36	41
19	41	36	39	39	40	40	41	41	41	41	39	40	41	34	41
20	41	36	39	40	40	41	41	41	41	41	39	41	41	36	41
21	42	37	40	41	42	42	42	42	42	42	41	42	42	27	42
22	38	35	36	38	38	38	38	38	38	38	36	38	38	24	38
23	36	34	36	36	36	36	36	36	36	36	36	36	36	31	36
24	40	38	40	40	40	40	40	40	40	40	40	40	40	33	40
25	37	35	37	37	37	37	37	37	37	37	37	37	37	30	37
26	37	36	37	37	37	37	37	37	37	37	37	37	37	34	37
27	40	38	40	40	40	40	40	40	40	40	40	40	40	37	40
28	42	40	41	42	42	42	42	42	42	42	41	42	42	37	42
29	44	36	40	41	43	43	44	45	45	45	40	43	45	34	45
30	44	27	35	37	40	44	45	47	47	47	35	44	47	21	47
31	33	16	22	27	29	32	34	35	37	37	25	32	37	6	37
32	20	3	9	13	17	19	23	27	31	32	11	19	30	0	32
33	8	0	0	1	3	7	13	18	24	27	0	7	22	0	27
34	3	0	0	0	0	2	5	9	17	22	0	2	13	0	22
35	0	0	0	0	0	0	0	2	9	22	0	0	6	0	22
36	0	0	0	0	0	0	0	0	1	11	0	0	0	0	19

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	23	25	25	25	25	25	25	25	25	25	25	25	15	25
2	25	22	25	25	25	25	25	25	25	25	25	25	25	8	25
3	28	13	26	28	28	28	28	28	28	28	28	28	28	0	28
4	25	10	23	25	25	25	25	25	25	25	24	25	25	0	25
5	25	0	17	21	25	25	25	25	25	25	19	25	25	0	25
6	23	0	6	18	21	23	23	23	23	23	11	23	23	0	23
7	20	0	2	9	17	19	25	27	27	27	4	19	27	0	27
8	22	0	0	2	11	20	24	25	28	28	0	20	28	0	28
9	1	0	0	0	0	0	10	19	24	30	0	0	23	0	30
10	0	0	0	0	0	0	6	11	21	25	0	0	18	0	26
11	0	0	0	0	0	0	0	0	12	17	0	0	10	0	20
12	0	0	0	0	0	0	0	0	0	10	0	0	0	0	15
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
19	1	1	1	1	1	1	2	2	3	4	1	1	3	1	5
20	1	1	1	1	1	1	2	2	2	4	1	1	2	1	5
21	2	2	2	2	2	2	2	2	3	4	2	2	3	2	7
22	1	1	1	1	1	1	1	1	2	3	1	1	1	1	4
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
28	2	2	2	2	2	2	2	2	3	3	2	2	2	2	3
29	3	2	2	2	2	3	4	5	7	10	2	3	6	2	11
30	2	0	0	0	0	2	5	7	10	14	0	2	9	0	20
31	4	0	0	0	2	3	7	8	11	18	0	3	10	0	20
32	12	0	0	2	7	11	14	16	20	27	1	11	19	0	29
33	18	0	0	7	12	18	21	24	27	27	3	18	26	0	27
34	19	0	1	10	15	19	22	22	22	22	4	19	22	0	22
35	22	0	6	16	20	22	22	22	22	22	12	22	22	0	22
36	25	6	18	25	25	25	25	25	25	25	24	25	25	0	25

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12	0	0	0	0	0	0	0	0	0	11	0	0	0	0	34
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
14	0	0	0	0	0	0	0	0	0	27	0	0	0	0	37
15	0	0	0	0	0	0	3	26	38	63	0	0	33	0	70
16	0	0	0	0	0	0	1	10	25	46	0	0	19	0	59
17	0	0	0	0	0	0	0	8	13	38	49	0	0	25	0	53
18	5	0	0	0	0	0	2	8	21	36	52	0	2	27	0	63
19	0	0	0	0	0	0	0	6	18	37	59	0	0	29	0	63
20	0	0	0	0	0	0	0	5	16	27	45	0	0	21	0	69
21	12	0	0	0	0	0	12	31	44	62	96	0	12	52	0	128
22	31	0	0	0	13	29	57	65	86	134	0	29	76	0	146
23	53	0	3	23	36	52	59	80	104	130	17	52	98	0	138
24	44	0	1	15	29	43	67	76	105	125	6	43	97	0	132
25	29	0	8	16	23	29	49	58	84	106	13	29	74	0	132
26	26	0	0	16	20	25	44	57	71	93	6	25	62	0	119
27	32	0	1	17	27	31	37	43	51	59	6	31	47	0	71
28	0	0	0	0	0	0	0	1	21	26	0	0	15	0	35
29	0	0	0	0	0	0	0	0	11	27	0	0	0	0	34
30	0	0	0	0	0	0	0	0	0	8	0	0	0	0	17
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MAN

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	1	14	0	0	0	0	25
2	0	0	0	0	0	0	0	0	8	14	0	0	1	0	26
3	0	0	0	0	0	0	0	3	5	11	22	0	0	6	0	39
4	0	0	0	0	0	0	0	2	12	24	37	0	0	15	0	56
5	13	0	0	0	5	13	19	25	36	48	0	13	31	0	62
6	21	0	1	6	12	21	35	42	47	69	5	21	44	0	79
7	20	0	1	6	18	20	25	29	38	64	3	20	31	0	96
8	29	4	7	15	20	29	42	55	70	84	10	29	58	1	100
9	34	4	13	23	30	34	46	63	74	97	19	39	69	1	117
10	41	5	13	26	33	41	47	55	73	92	20	41	64	0	98
11	41	7	17	28	37	41	46	52	61	82	24	41	57	0	97
12	57	12	26	36	50	57	63	70	80	115	28	57	76	9	135
13	41	7	25	29	33	41	45	50	57	83	25	41	52	0	87
14	46	8	25	32	36	46	54	63	79	107	28	46	67	0	133
15	49	15	22	40	46	49	65	76	89	116	27	49	81	8	137
16	59	27	37	44	49	59	73	91	112	143	38	59	97	4	157
17	68	25	37	45	51	64	74	81	101	122	40	68	84	11	145
18	48	18	24	34	40	44	61	66	90	109	29	48	82	7	121
19	44	8	17	28	40	44	61	82	94	129	24	44	89	1	196
20	56	6	22	45	50	56	66	85	119	151	28	56	95	0	154
21	57	10	18	32	42	57	77	98	118	136	26	57	104	2	169
22	58	22	33	41	49	58	68	92	119	150	35	58	112	9	172
23	64	18	28	47	53	64	82	94	131	159	36	64	108	10	180
24	103	24	45	76	89	103	114	123	139	159	58	103	128	10	196
25	105	48	74	90	98	105	121	126	139	191	84	105	129	29	237
26	110	55	69	82	98	110	127	139	156	189	72	110	148	40	213
27	76	34	62	58	69	76	95	111	147	182	49	76	126	10	191
28	57	25	34	44	49	57	78	90	100	163	37	57	94	10	181
29	45	6	16	25	36	45	58	65	81	114	19	45	71	0	136
30	33	0	11	17	22	33	39	48	65	100	13	33	55	0	111
31	16	0	2	7	11	16	22	28	44	69	3	16	31	0	77
32	6	0	0	1	3	6	10	16	24	42	0	6	18	0	62
33	1	0	0	0	0	1	5	13	28	38	0	1	19	0	49
34	0	0	0	0	0	0	2	4	10	30	0	0	5	0	38
35	0	0	0	0	0	0	2	6	18	36	0	0	7	0	51
36	0	0	0	0	0	0	0	1	9	19	0	0	3	0	24

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	1	14	0	0	0	0	20
2	0	0	0	0	0	0	0	3	10	18	0	0	8	0	21
3	1	0	0	0	0	1	4	7	15	23	0	1	11	0	23
4	1	0	0	0	0	1	8	16	20	20	0	1	18	0	20
5	16	0	0	8	11	16	20	20	20	20	0	16	20	0	20
6	19	0	7	15	19	19	19	19	19	19	10	19	19	0	19
7	22	5	14	22	22	22	22	22	22	22	20	22	22	0	22
8	23	12	19	23	23	23	23	23	23	23	23	23	23	7	23
9	24	24	24	24	24	24	24	24	24	24	24	24	24	16	24
10	21	21	21	21	21	21	21	21	21	21	21	21	21	18	21
11	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
12	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
13	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
14	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
15	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
16	33	32	33	33	33	33	33	33	33	33	33	33	33	32	33
17	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30
18	30	29	29	30	30	30	30	30	30	30	29	30	30	29	30
19	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
20	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
21	29	28	29	29	29	29	29	29	29	29	29	29	29	27	29
22	26	26	26	26	26	26	26	26	26	26	26	26	26	24	26
23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
24	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30
25	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
26	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
27	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
28	33	32	33	33	33	33	33	33	33	33	33	33	33	30	33
29	35	33	34	34	35	35	35	35	35	35	34	35	35	28	35
30	37	35	36	36	37	37	37	38	38	38	36	37	38	32	38
31	31	24	31	31	31	31	31	31	31	31	31	31	31	26	31
32	27	23	27	27	27	27	27	27	27	27	27	27	27	17	27
33	24	14	21	23	24	24	24	24	24	24	22	24	24	4	24
34	20	4	7	11	18	20	20	20	20	20	9	20	20	0	20
35	16	0	0	3	13	16	16	16	16	16	2	16	16	0	16
36	18	0	0	1	4	18	20	20	20	20	0	18	20	0	20

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	1	16	20	20	20	20	20	20	20	20	20	20	0	20
2	21	0	11	15	21	21	21	21	21	21	11	21	21	0	21
3	22	0	7	15	18	22	23	23	23	23	10	22	23	0	23
4	17	0	0	4	11	17	20	20	20	20	0	17	20	0	20
5	1	0	0	0	0	1	7	11	20	20	0	1	14	0	20
6	0	0	0	0	0	0	0	1	12	19	0	0	6	0	19
7	0	0	0	0	0	0	0	0	4	15	0	0	0	0	18
8	0	0	0	0	0	0	0	0	1	7	0	0	0	0	12
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
29	0	0	0	0	0	0	0	1	1	2	0	0	1	0	2
30	1	1	1	1	1	1	2	2	3	4	1	1	2	1	4
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
33	0	0	0	0	0	0	0	0	2	9	0	0	0	0	15
34	0	0	0	0	0	0	0	8	12	15	0	0	10	0	18
35	0	0	0	0	0	0	0	11	15	16	0	0	13	0	16
36	0	0	0	0	0	0	14	17	20	20	0	0	20	0	20

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	18	0	0	0	0	35
9	0	0	0	0	0	0	0	0	4	36	0	0	0	0	51
10	0	0	0	0	0	0	0	12	24	41	0	0	19	0	47
11	0	0	0	0	0	0	4	14	20	36	0	0	16	0	65
12	12	0	0	0	5	12	21	36	50	89	0	12	39	0	105
13	13	0	0	4	8	13	21	26	34	62	2	13	28	0	66
14	14	0	0	5	11	14	22	37	54	73	2	14	42	0	102
15	21	0	0	12	16	21	30	48	61	84	0	21	53	0	96
16	22	0	3	7	11	22	33	58	74	110	4	22	65	0	119
17	34	0	0	7	21	34	40	47	68	83	3	34	51	0	112
18	17	0	0	2	6	17	29	35	58	78	0	17	48	0	90
19	12	0	0	0	1	12	19	42	64	99	0	12	59	0	166
20	25	0	0	2	17	25	36	53	84	112	0	25	66	0	124
21	23	0	0	1	11	23	46	70	88	108	0	23	76	0	137
22	28	0	0	1	14	28	38	62	90	120	0	28	82	0	142
23	35	0	0	7	22	35	53	64	98	132	0	35	81	0	153
24	74	0	13	42	61	74	86	97	113	133	30	74	102	0	170
25	74	13	38	53	66	74	91	95	108	160	49	74	99	2	204
26	77	36	40	53	69	77	98	110	127	160	43	77	119	11	184
27	45	3	11	27	38	45	64	80	116	151	18	45	95	0	159
28	24	0	2	11	16	24	44	57	87	131	4	24	62	0	149
29	12	0	0	0	2	12	23	31	47	80	0	12	37	0	103
30	0	0	0	0	0	0	0	3	24	65	0	0	9	0	76
31	0	0	0	0	0	0	0	0	0	29	0	0	0	0	38
32	0	0	0	0	0	0	0	0	0	3	0	0	0	0	17
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ODIENNE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	7	0	0	0	0	19
5	0	0	0	0	0	0	0	0	7	24	0	0	2	0	34
6	0	0	0	0	0	0	0	2	7	34	0	0	3	0	42
7	0	0	0	0	0	0	1	3	9	25	0	0	5	0	40
8	5	0	0	0	1	5	10	14	24	40	0	5	17	0	61
9	14	0	0	4	8	14	18	21	35	47	0	14	25	0	57
10	12	0	0	2	7	12	15	23	30	40	1	12	26	0	55
11	23	0	1	8	15	23	29	36	43	54	5	23	38	0	59
12	25	5	10	14	17	25	33	47	58	74	11	25	53	0	87
13	26	6	9	14	17	26	33	42	52	71	11	26	45	1	82
14	29	8	13	19	24	29	39	56	64	92	13	29	60	2	99
15	42	9	19	28	34	42	47	52	63	84	23	42	53	3	96
16	40	11	20	25	30	40	48	63	72	79	21	40	65	3	110
17	44	15	24	32	41	44	54	66	81	100	29	44	71	5	130
18	47	18	26	31	41	47	58	69	87	114	28	47	75	11	139
19	59	24	34	48	53	59	69	83	97	132	45	59	89	8	149
20	85	33	45	60	74	85	93	104	111	155	52	85	105	2	191
21	132	58	78	99	115	132	145	165	184	197	89	132	172	30	211
22	109	46	60	81	93	109	122	142	168	206	73	109	153	34	238
23	126	49	73	84	103	126	143	156	188	214	81	126	167	21	224
24	120	64	85	96	108	120	143	164	173	201	91	120	166	49	221
25	93	45	60	71	88	93	125	148	171	203	67	93	151	27	224
26	95	38	50	66	84	95	99	107	121	154	55	95	114	19	181
27	71	25	41	51	64	71	78	88	100	121	46	71	94	7	132
28	53	10	31	37	45	53	57	71	82	108	33	53	75	6	122
29	52	10	22	37	45	52	65	71	80	109	31	52	75	2	116
30	41	4	17	24	32	41	50	56	79	87	21	41	62	1	91
31	19	0	6	9	14	19	23	28	41	55	8	19	34	0	67
32	12	0	0	0	5	12	19	25	31	47	0	12	26	0	60
33	0	0	0	0	0	0	0	4	7	14	0	0	6	0	30
34	0	0	0	0	0	0	0	0	5	20	0	0	2	0	24
35	0	0	0	0	0	0	0	0	0	9	0	0	0	0	32
36	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	1	13	0	0	0	0	19
5	0	0	0	0	0	0	0	0	9	24	0	0	2	0	26
6	0	0	0	0	0	0	1	3	13	25	0	0	4	0	25
7	1	0	0	0	0	1	5	8	18	28	0	1	10	0	28
8	10	0	0	0	4	10	13	18	28	29	0	10	24	0	29
9	17	0	1	6	11	17	21	28	31	31	4	17	31	0	31
10	19	0	2	7	12	19	25	28	28	28	3	19	28	0	28
11	26	8	5	10	19	26	27	27	27	27	8	26	27	0	27
12	27	9	13	19	27	27	27	27	27	27	16	27	27	3	27
13	27	12	17	26	27	27	27	27	27	27	19	27	27	3	27
14	27	11	27	27	27	27	27	27	27	27	27	27	27	4	27
15	34	26	33	34	34	34	34	34	34	34	34	34	34	12	34
16	34	27	34	34	34	34	34	34	34	34	34	34	34	14	34
17	37	33	37	37	37	37	37	37	37	37	37	37	37	20	37
18	42	31	39	42	42	42	42	42	42	42	41	42	42	17	42
19	41	38	40	41	41	41	41	41	41	41	40	41	41	37	41
20	39	37	39	39	39	39	39	39	39	39	39	39	39	35	39
21	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
22	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
23	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
26	40	40	40	40	40	40	40	40	40	40	40	40	40	37	40
27	41	41	41	41	41	41	41	41	41	41	41	41	41	39	41
28	43	40	43	43	43	43	43	43	43	43	43	43	43	37	43
29	45	40	44	45	45	45	45	45	45	45	44	45	45	32	45
30	49	39	45	47	48	49	49	49	49	49	46	49	49	22	49
31	41	27	33	37	40	41	42	43	44	44	34	41	44	18	44
32	32	18	23	27	29	32	36	37	39	39	25	32	38	9	39
33	18	6	8	12	15	18	20	26	31	34	10	18	28	1	34
34	5	0	0	1	4	5	10	16	23	28	0	5	19	0	28
35	0	0	0	0	0	0	0	4	13	23	0	0	7	0	23
36	0	0	0	0	0	0	0	0	3	16	0	0	1	0	22

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	9	26
2	27	22	27	27	27	27	27	27	27	27	27	27	27	9	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	10	30
4	26	8	24	26	26	26	26	26	26	26	26	26	26	3	26
5	26	0	16	26	26	26	26	26	26	26	20	26	26	0	26
6	25	0	5	20	23	25	25	25	25	25	13	25	25	0	25
7	26	0	4	19	23	26	28	28	28	28	14	26	28	0	28
8	18	0	0	7	14	18	24	28	29	29	1	18	29	0	29
9	13	0	0	2	10	13	20	24	30	31	0	13	27	0	31
10	8	0	0	0	2	8	14	20	24	28	0	8	21	0	28
11	0	0	0	0	0	0	5	14	20	26	0	0	18	0	27
12	0	0	0	0	0	0	0	6	11	18	0	0	10	0	19
13	0	0	0	0	0	0	0	0	9	14	0	0	5	0	20
14	0	0	0	0	0	0	0	0	0	13	0	0	0	0	18
15	0	0	0	0	0	0	0	0	1	7	0	0	0	0	13
16	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
17	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
18	2	2	2	2	2	2	2	2	4	11	2	2	3	2	20
19	1	1	1	1	1	1	1	1	2	3	1	1	2	1	4
20	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5
29	2	2	2	2	2	2	2	2	3	5	2	2	2	2	7
30	3	2	2	2	2	3	3	4	5	9	2	3	4	2	15
31	2	0	0	0	1	2	3	5	9	14	0	2	7	0	17
32	6	0	0	0	2	6	8	10	13	20	0	6	13	0	21
33	14	0	1	7	12	14	18	19	24	28	3	14	21	0	30
34	20	0	1	10	17	20	24	26	28	28	7	20	28	0	28
35	23	0	6	17	22	23	23	23	23	23	11	23	23	0	23
36	27	8	22	26	27	27	27	27	27	27	23	27	27	0	27

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
15	0	0	0	0	0	0	0	0	18	45	0	0	5	0	57
16	0	0	0	0	0	0	0	2	15	33	0	0	13	0	43
17	0	0	0	0	0	0	3	12	31	50	0	0	16	0	58
18	0	0	0	0	0	0	8	15	35	66	0	0	22	0	86
19	5	0	0	0	0	5	10	20	42	81	0	5	23	0	87
20	30	0	0	10	19	30	44	53	64	98	2	30	56	0	138
21	86	12	34	50	64	86	101	119	137	155	38	86	123	0	166
22	66	3	17	38	50	66	79	97	125	163	30	66	103	0	186
23	87	9	33	44	63	87	103	116	149	174	40	87	121	0	184
24	80	24	45	57	69	80	104	124	133	154	52	80	127	8	182
25	50	2	17	28	45	50	82	105	128	160	24	50	108	0	181
26	54	0	10	26	44	54	59	66	79	114	15	54	70	0	140
27	30	0	0	6	19	30	37	48	60	81	2	30	53	0	91
28	8	0	0	0	2	8	15	25	40	64	0	8	33	0	77
29	1	0	0	0	0	1	10	20	32	65	0	1	23	0	71
30	0	0	0	0	0	0	0	6	25	38	0	0	10	0	41
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 4 EMP. CENTRAFRICAIN - Analyse fréquentielle des principaux termes du bilan hydrique.

CENTRAL AFRICAN EMP - Frequential analysis of main waterbalance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bambari

Birao

Bossangoa

Ndélé

BAMBARI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	10	0	0	0	0	19
2	0	0	0	0	0	0	0	0	1	6	0	0	0	0	8
3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
4	0	0	0	0	0	0	0	1	4	13	0	0	3	0	26
5	0	0	0	0	0	0	3	5	7	19	0	0	6	0	43
6	1	0	0	0	0	1	3	4	23	32	0	1	13	2	54
7	10	0	0	2	4	9	10	15	39	54	0	9	26	3	67
8	26	1	4	5	12	25	28	35	44	59	4	25	39	29	67
9	28	1	6	8	14	24	29	33	38	44	7	24	36	2	56
10	26	2	7	10	16	23	34	41	59	66	8	23	51	19	69
11	34	5	11	18	21	30	41	49	52	73	14	30	51	8	92
12	31	5	11	18	22	30	33	41	56	60	15	30	51	15	64
13	35	6	15	19	25	32	40	48	58	63	17	32	52	22	74
14	49	2	19	25	34	46	55	62	79	95	21	46	70	10	101
15	52	22	33	43	46	52	58	69	79	87	40	52	74	44	98
16	46	21	24	32	39	44	47	52	67	83	28	44	54	49	90
17	53	19	36	38	42	50	61	65	82	114	37	50	68	26	116
18	40	8	15	26	36	38	62	66	73	87	22	38	69	12	90
19	46	19	29	34	40	45	53	62	85	106	31	45	68	33	122
20	73	10	45	51	61	70	75	78	83	97	49	70	80	39	126
21	65	24	40	45	55	65	69	75	87	111	41	65	78	19	123
22	61	13	21	32	39	54	74	90	119	154	28	54	108	33	173
23	66	24	42	49	56	63	75	95	125	132	45	63	110	29	145
24	60	10	38	44	46	57	63	84	91	105	43	57	86	47	110
25	68	14	21	44	55	65	72	75	86	97	33	65	79	39	112
26	74	11	34	45	65	74	77	79	87	117	36	74	80	12	146
27	72	6	37	44	56	66	78	94	100	120	42	66	97	34	141
28	81	20	31	47	61	80	83	90	109	126	35	80	100	24	130
29	70	18	25	29	44	68	80	89	99	105	27	68	96	46	110
30	44	19	27	33	39	43	59	69	79	98	29	43	73	32	113
31	21	0	3	8	18	20	25	29	33	43	5	20	31	17	63
32	6	0	0	0	0	3	7	16	19	26	0	3	18	0	34
33	0	0	0	0	0	0	1	4	19	24	0	0	11	0	28
34	0	0	0	0	0	0	0	0	2	15	0	0	1	0	27
35	0	0	0	0	0	0	0	0	0	8	0	0	0	0	19
36	0	0	0	0	0	0	0	2	10	19	0	0	4	0	24

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	10	0	0	0	0	19
2	0	0	0	0	0	0	0	0	3	6	0	0	1	0	8
3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
4	0	0	0	0	0	0	0	1	4	13	0	0	3	0	23
5	5	0	0	0	0	3	5	6	9	19	0	3	7	0	26
6	3	0	0	0	0	2	4	13	23	23	0	2	23	11	23
7	10	0	0	2	4	9	11	19	25	25	1	9	25	12	25
8	25	1	4	12	25	25	25	25	25	25	8	25	25	12	25
9	28	2	10	18	28	28	28	28	28	28	13	28	28	15	28
10	25	5	18	25	25	25	25	25	25	25	23	25	25	13	25
11	25	13	25	25	25	25	25	25	25	25	25	25	25	13	25
12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
13	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
14	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
15	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
16	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
17	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
18	36	35	35	36	36	36	36	36	36	36	36	36	36	35	36
19	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
20	35	33	34	35	35	35	35	35	35	35	35	35	35	34	35
21	39	38	38	39	39	39	39	39	39	39	39	39	39	38	39
22	36	35	35	36	36	36	36	36	36	36	36	36	36	35	36
23	37	35	37	37	37	37	37	37	37	37	37	37	37	35	37
24	41	40	41	41	41	41	41	41	41	41	41	41	41	40	41
25	38	34	37	38	38	38	38	38	38	38	37	38	38	35	38
26	39	31	39	39	39	39	39	39	39	39	39	39	39	33	39
27	40	37	38	40	40	40	40	40	40	40	39	40	40	38	40
28	40	36	39	40	40	40	40	40	40	40	39	40	40	36	40
29	41	39	40	40	41	41	41	41	41	41	40	41	41	40	41
30	45	42	44	45	45	45	45	45	45	45	44	45	45	43	45
31	39	33	35	37	38	39	39	40	41	41	36	39	41	36	41
32	35	22	26	29	30	34	35	36	37	39	28	34	36	30	40
33	23	5	13	16	19	22	25	32	33	35	14	22	33	17	36
34	6	0	0	0	3	6	11	19	24	30	0	6	20	6	31
35	0	0	0	0	0	0	1	5	15	20	0	0	9	0	22
36	1	0	0	0	0	0	3	4	14	18	0	0	9	0	20

VARIABLE : DFFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	2	14	25	25	25	25	25	25	25	24	25	25	12	25
2	26	14	19	22	26	26	26	26	26	26	20	26	26	18	26
3	29	18	27	29	29	29	29	29	29	29	28	29	29	11	29
4	26	0	12	22	26	26	26	26	26	26	21	26	26	10	26
5	20	0	14	18	19	20	24	26	26	26	16	20	26	0	26
6	19	0	0	0	9	18	20	23	23	23	0	18	23	0	23
7	15	0	0	0	5	14	16	21	22	25	0	14	21	0	25
8	0	0	0	0	0	0	0	0	12	21	0	0	6	0	22
9	0	0	0	0	0	0	0	0	8	17	0	0	2	0	22
10	0	0	0	0	0	0	0	0	0	6	0	0	0	0	13
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
28	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
29	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
30	2	2	2	2	2	2	2	2	3	3	2	2	2	2	4
31	4	2	2	2	2	3	4	5	5	8	2	3	5	2	8
32	5	0	1	3	3	5	5	9	10	13	2	5	10	0	16
33	11	0	0	2	6	11	13	17	20	22	1	11	19	1	26
34	23	0	0	6	13	20	25	28	31	32	2	20	30	6	32
35	28	1	7	11	22	28	28	28	28	28	7	28	28	13	28
36	23	2	7	11	21	23	25	26	26	26	9	23	26	13	26

*FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	4	0	0	0	0	20
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	7	0	0	0	0	16
14	0	0	0	0	0	0	5	26	30	49	0	0	28	0	58
15	15	0	0	0	3	14	28	38	48	55	0	14	43	20	60
16	12	0	0	0	3	11	14	18	25	53	0	11	21	24	60
17	24	0	0	4	8	20	29	36	49	83	0	20	39	7	85
18	6	0	0	0	2	5	18	31	38	40	0	5	35	0	43
19	4	0	0	0	0	3	12	19	33	65	0	3	23	9	83
20	35	0	6	15	25	33	36	40	46	61	13	33	43	19	90
21	30	0	0	5	10	24	34	40	52	76	2	24	43	0	88
22	22	0	0	0	0	15	35	46	80	110	0	15	64	0	134
23	24	0	0	4	12	23	38	59	87	96	0	23	72	4	101
24	16	0	0	6	8	13	22	37	53	60	3	13	48	28	67
25	26	0	0	2	14	23	30	31	44	55	0	23	35	11	67
26	35	0	0	0	13	33	39	40	48	79	0	33	42	0	108
27	28	0	0	0	4	22	31	49	60	78	0	22	57	11	102
28	21	0	0	0	15	20	35	44	69	85	0	20	58	0	90
29	30	0	0	0	4	28	37	41	45	56	0	28	43	16	65
30	2	0	0	0	0	1	14	28	37	51	0	1	32	3	71
31	0	0	0	0	0	0	0	0	0	3	0	0	0	0	17
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BIRAO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	1	2	0	0	1	0	6
10	0	0	0	0	0	0	0	1	5	6	0	0	4	0	27
11	0	0	0	0	0	0	0	4	9	12	0	0	9	0	26
12	3	0	0	0	0	2	4	11	14	22	0	2	13	0	22
13	6	0	0	0	1	5	10	15	21	31	0	5	18	7	57
14	11	0	0	1	7	10	17	29	35	59	0	10	34	3	86
15	30	0	0	8	18	29	31	39	44	59	1	29	43	10	104
16	30	7	9	15	21	28	35	40	55	59	11	28	53	10	67
17	32	2	6	22	27	31	34	44	47	64	13	31	46	37	73
18	37	7	19	25	32	36	47	56	66	72	20	36	60	10	75
19	60	12	28	32	46	59	62	69	73	97	28	59	72	10	116
20	51	4	14	35	44	48	55	58	63	74	24	48	63	12	104
21	68	23	35	43	50	65	91	105	123	131	36	65	116	21	142
22	50	16	24	37	46	48	70	76	92	110	28	48	81	57	129
23	61	23	37	45	59	61	69	83	87	111	41	61	86	31	135
24	80	15	48	61	65	80	86	90	107	132	51	80	106	43	150
25	65	9	23	35	45	59	67	75	81	106	28	59	80	3	130
26	51	7	20	28	41	50	61	66	83	89	25	50	81	28	110
27	37	4	19	28	32	36	40	52	61	79	21	36	59	18	104
28	19	0	2	8	12	16	24	29	37	53	6	16	32	13	71
29	4	0	0	0	1	3	5	10	14	36	0	3	12	0	38
30	0	0	0	0	0	0	0	0	1	13	0	0	1	0	18
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	1	2	0	0	1	0	6
10	0	0	0	0	0	0	0	1	5	6	0	0	4	0	27
11	0	0	0	0	0	0	0	4	10	12	0	0	9	0	25
12	3	0	0	0	0	3	5	13	17	22	0	3	14	0	23
13	6	0	0	0	1	5	10	15	21	29	0	5	18	7	30
14	23	0	0	4	10	17	25	30	30	30	1	17	30	3	30
15	30	0	6	13	21	30	30	30	30	30	8	30	30	15	30
16	31	10	22	28	31	31	31	31	31	31	25	31	31	17	31
17	32	5	22	32	32	32	32	32	32	32	28	32	32	17	32
18	35	19	35	35	35	35	35	35	35	35	35	35	35	22	35
19	41	26	36	41	41	41	41	41	41	41	38	41	41	31	41
20	40	24	37	38	40	40	40	40	40	40	37	40	40	19	40
21	43	38	42	43	43	43	43	43	43	43	42	43	43	21	43
22	40	37	38	39	39	40	40	40	40	40	38	40	40	31	40
23	40	38	39	40	40	40	40	40	40	40	39	40	40	21	40
24	44	42	44	44	44	44	44	44	44	44	44	44	44	22	44
25	41	38	40	41	41	41	41	41	41	41	41	41	41	22	41
26	42	37	39	41	42	42	42	42	42	42	40	42	42	23	42
27	43	38	41	42	42	43	43	43	43	43	42	43	43	20	43
28	41	27	34	37	39	41	41	42	42	42	35	41	42	19	42
29	32	13	21	26	29	32	36	38	38	38	22	32	38	13	38
30	17	1	5	12	13	17	21	26	28	34	7	17	27	4	36
31	5	0	0	0	0	4	8	11	13	19	0	4	12	0	23
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
7	30	30	30	30	30	30	30	30	30	30	30	30	30	27	30
8	32	28	32	32	32	32	32	32	32	32	32	32	32	27	32
9	35	28	33	34	35	35	35	35	35	35	33	35	35	27	35
10	32	15	26	28	32	32	32	32	32	32	26	32	32	1	32
11	32	9	20	24	30	32	32	32	32	32	21	32	32	6	32
12	28	7	9	16	19	27	30	31	31	31	9	27	31	16	31
13	24	0	2	12	15	23	26	29	30	30	4	23	30	8	30
14	6	0	0	0	0	6	18	21	27	30	0	6	25	0	30
15	0	0	0	0	0	0	0	10	20	26	0	0	16	0	29
16	0	0	0	0	0	0	0	0	4	12	0	0	2	0	20
17	0	0	0	0	0	0	0	0	0	17	0	0	0	0	26
18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15
19	2	2	2	2	2	2	2	2	3	10	2	2	2	2	16
20	1	1	1	1	1	1	1	2	3	5	1	1	3	1	16
21	2	2	2	2	2	2	2	2	2	4	2	2	2	2	7
22	1	1	1	1	1	1	1	2	2	3	1	1	2	1	3
23	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
25	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5
26	2	2	2	2	2	2	2	2	3	5	2	2	3	2	7
27	2	2	2	2	2	2	3	3	3	5	2	2	3	2	7
28	1	0	0	0	0	0	1	3	5	9	0	0	5	0	14
29	5	0	0	0	0	4	9	9	14	17	0	4	12	0	25
30	19	0	6	9	13	18	21	24	27	31	8	18	25	0	34
31	22	6	12	15	18	21	26	28	28	28	13	21	28	1	28
32	23	18	22	23	23	23	23	23	23	23	23	23	23	13	23
33	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
34	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
35	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
19	0	0	0	0	0	0	0	5	9	40	0	0	9	0	54
20	0	0	0	0	0	0	0	2	5	21	0	0	3	0	41
21	2	0	0	0	0	1	13	46	57	70	0	1	52	0	89
22	3	0	0	0	0	1	8	27	36	66	0	1	32	29	86
23	18	0	0	0	8	17	20	28	43	59	0	17	40	11	82
24	39	0	0	5	17	36	43	50	67	92	0	36	66	23	110
25	8	0	0	0	1	5	17	23	35	58	0	5	32	0	76
26	9	0	0	0	0	8	15	22	38	45	0	8	31	0	64
27	0	0	0	0	0	0	0	0	8	33	0	0	0	0	44
28	0	0	0	0	0	0	0	0	0	5	0	0	0	0	28
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOSSANGOA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
6	0	0	0	0	0	0	0	2	7	15	0	0	5	14	22
7	3	0	0	0	0	1	6	8	10	37	0	1	9	20	48
8	10	0	0	0	0	7	11	14	17	27	0	7	15	0	29
9	13	0	0	3	10	12	15	22	32	40	1	12	27	0	45
10	16	0	1	6	12	15	22	31	47	60	3	15	37	2	103
11	16	0	0	2	9	15	18	28	41	49	0	15	37	0	52
12	31	0	4	14	26	31	36	52	66	83	9	31	59	9	93
13	23	0	0	11	17	22	27	33	49	67	4	22	40	5	91
14	38	1	11	22	30	36	39	45	61	68	17	36	54	0	74
15	59	14	25	38	46	57	61	73	77	83	35	57	76	33	85
16	40	10	17	24	28	38	42	56	74	82	21	38	68	3	91
17	41	2	7	16	24	36	45	56	88	98	13	36	75	28	111
18	59	8	19	26	55	58	68	75	85	96	22	58	80	29	104
19	58	3	8	11	29	54	62	76	90	100	9	54	83	28	112
20	74	20	36	52	62	71	82	102	124	149	44	71	112	14	153
21	86	15	23	46	73	85	93	119	136	146	34	85	128	31	197
22	84	29	45	57	76	83	89	107	131	153	52	83	116	82	186
23	85	36	50	63	79	84	92	103	141	180	58	84	122	77	198
24	79	47	60	68	74	79	88	114	135	179	62	79	128	60	242
25	82	15	47	58	73	78	100	107	118	125	51	78	114	35	172
26	82	12	23	28	57	72	90	110	122	131	24	72	118	51	140
27	65	11	38	52	63	65	86	104	127	167	47	65	114	26	197
28	47	19	23	27	41	45	53	79	97	127	25	45	90	29	164
29	76	7	25	37	62	70	76	93	115	142	31	70	103	14	200
30	41	0	9	21	31	38	48	64	73	94	15	38	71	33	108
31	11	0	0	0	1	7	13	16	22	33	0	7	19	4	40
32	0	0	0	0	0	0	0	1	3	25	0	0	2	0	46
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	14
5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
6	0	0	0	0	0	0	0	2	7	15	0	0	5	12	20
7	3	0	0	0	0	1	6	8	10	28	0	1	9	14	28
8	10	0	0	0	3	10	12	17	29	30	0	10	23	14	30
9	15	0	0	8	13	15	21	31	31	31	2	15	31	0	31
10	26	0	1	9	17	23	27	27	27	27	3	23	27	2	27
11	20	0	6	12	17	20	23	26	26	26	9	20	26	0	26
12	27	6	20	27	27	27	27	27	27	27	25	27	27	10	27
13	28	9	16	27	28	28	28	28	28	28	21	28	28	6	28
14	30	6	30	30	30	30	30	30	30	30	30	30	30	13	30
15	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
16	33	33	33	33	33	33	33	33	33	33	33	33	33	26	33
17	33	22	32	33	33	33	33	33	33	33	33	33	33	24	33
18	39	25	38	38	39	39	39	39	39	39	38	39	39	26	39
19	37	34	35	36	36	37	37	37	37	37	36	37	37	35	37
20	36	35	36	36	36	36	36	36	36	36	36	36	36	35	36
21	40	38	38	40	40	40	40	40	40	40	39	40	40	39	40
22	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
24	41	40	41	41	41	41	41	41	41	41	41	41	41	40	41
25	37	36	37	37	37	37	37	37	37	37	37	37	37	36	37
26	38	36	37	37	38	38	38	38	38	38	37	38	38	37	38
27	39	37	39	39	39	39	39	39	39	39	39	39	39	37	39
28	40	38	39	39	39	40	40	40	40	40	39	40	40	38	40
29	41	33	39	40	41	41	41	41	41	41	39	41	41	34	41
30	44	24	42	44	44	44	44	44	44	44	43	44	44	29	44
31	36	11	26	34	36	36	36	36	36	36	30	36	36	19	36
32	28	1	12	19	26	28	29	33	33	33	16	28	33	15	33
33	12	0	0	3	10	12	14	21	28	28	1	12	25	7	28
34	1	0	0	0	0	0	1	11	20	23	0	0	18	0	23
35	0	0	0	0	0	0	0	2	3	15	0	0	2	0	22
36	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	11	25	25	25	25	25	25	25	25	25	25	25	16	25
2	25	23	25	25	25	25	25	25	25	25	25	25	25	23	25
3	28	20	27	28	28	28	28	28	28	28	28	28	28	10	28
4	25	10	24	25	25	25	25	25	25	25	25	25	25	2	25
5	25	17	22	25	25	25	25	25	25	25	25	25	25	20	25
6	24	0	9	16	22	24	24	24	24	24	13	24	24	0	24
7	22	0	0	18	20	21	26	28	28	28	9	21	28	0	28
8	17	0	0	1	15	17	19	29	30	30	0	17	30	0	30
9	16	0	0	0	8	14	16	20	28	31	0	14	23	0	31
10	0	0	0	0	0	0	7	14	21	26	0	0	18	0	26
11	6	0	0	0	0	5	7	12	16	23	0	5	14	0	25
12	0	0	0	0	0	0	0	0	1	9	0	0	0	0	14
13	0	0	0	0	0	0	0	0	6	13	0	0	1	0	15
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	9
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
19	1	1	1	1	1	1	1	2	2	2	1	1	2	1	3
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	2	2	2	1	1	2	1	2
29	1	1	1	1	1	1	1	1	2	3	1	1	1	1	3
30	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
31	0	0	0	0	0	0	0	0	1	9	0	0	0	0	13
32	4	0	0	0	0	3	4	7	13	21	0	3	10	0	26
33	15	0	0	3	11	14	16	19	24	28	0	14	22	0	28
34	21	0	0	4	19	21	23	23	23	23	2	21	23	0	23
35	23	0	15	20	23	23	23	23	23	23	19	23	23	1	23
36	26	16	26	26	26	26	26	26	26	26	26	26	26	19	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	11	0	0	0	0	21
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
15	0	0	0	0	0	0	0	0	6	16	26	0	0	8	0	32
16	0	0	0	0	0	0	0	0	8	23	35	0	0	16	0	52
17	0	0	0	0	0	0	0	11	13	37	0	0	12	0	58
18	14	0	0	0	0	11	22	34	36	41	0	11	35	0	53
19	0	0	0	0	0	0	12	25	39	51	0	0	33	0	58
20	20	0	0	1	11	16	28	56	67	81	0	16	62	0	83
21	49	0	0	9	36	49	52	71	99	109	2	49	83	1	160
22	42	0	2	12	18	39	49	67	91	113	7	39	76	49	146
23	47	1	9	26	42	45	52	67	104	144	17	45	85	41	162
24	42	11	23	31	37	41	51	77	98	142	26	41	91	24	205
25	41	0	6	16	32	37	59	65	77	84	10	37	73	14	131
26	44	0	0	0	16	32	52	73	85	93	0	32	80	31	103
27	26	0	0	11	21	26	36	54	78	122	5	26	65	4	159
28	4	0	0	0	0	4	14	40	55	87	0	4	49	0	125
29	24	0	0	0	22	24	30	43	75	94	0	24	58	0	153
30	0	0	0	0	0	0	0	23	32	53	0	0	30	12	67
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NDELE

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	9
6	0	0	0	0	0	0	0	0	0	5	0	0	0	2	10
7	0	0	0	0	0	0	0	2	5	14	0	0	3	0	23
8	0	0	0	0	0	0	4	11	20	29	0	0	18	0	51
9	4	0	0	0	0	3	8	14	17	41	0	3	16	0	63
10	8	0	0	0	3	7	11	13	20	29	0	7	20	2	35
11	14	0	0	0	5	13	15	25	36	47	0	13	33	0	106
12	17	0	2	8	11	15	22	25	38	51	4	15	36	2	81
13	26	3	10	16	22	25	37	43	51	59	14	25	50	10	72
14	41	5	13	24	34	40	49	54	63	88	16	40	55	1	123
15	49	18	30	34	42	47	56	63	76	101	32	47	74	15	125
16	45	18	29	37	44	44	50	62	68	89	33	44	66	14	119
17	42	13	22	29	36	41	46	48	59	74	26	41	54	1	85
18	35	18	23	30	34	35	46	54	67	73	25	35	63	0	95
19	59	15	30	47	53	58	67	73	78	93	40	58	77	46	108
20	59	25	30	38	48	59	63	79	90	94	32	59	84	31	109
21	72	15	47	57	63	71	78	84	91	101	53	71	90	20	133
22	76	30	35	44	58	75	82	89	117	138	37	75	105	41	164
23	68	36	46	62	64	67	73	87	93	113	51	67	88	35	121
24	81	45	50	55	64	77	88	106	118	144	50	77	113	23	152
25	104	28	60	75	85	102	106	110	121	139	70	102	117	11	148
26	84	35	55	71	78	84	88	96	118	142	61	84	114	37	165
27	83	44	49	55	62	83	93	107	118	135	51	83	114	33	153
28	69	22	36	48	60	69	76	84	93	111	40	69	90	34	137
29	45	11	16	28	37	45	55	58	69	83	19	45	65	24	96
30	41	0	1	15	28	39	57	65	82	97	2	39	76	8	123
31	3	0	0	0	0	3	6	15	25	38	0	3	19	0	42
32	0	0	0	0	0	0	0	0	0	9	0	0	0	0	20
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	4	0	0	0	0	16
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	9
6	0	0	0	0	0	0	0	0	0	5	0	0	0	2	14
7	0	0	0	0	0	0	0	2	7	19	0	0	5	0	24
8	0	0	0	0	0	0	4	12	20	26	0	0	18	0	28
9	4	0	0	0	0	3	9	16	30	30	0	3	24	0	30
10	10	0	0	3	5	9	13	20	25	26	0	9	23	2	26
11	15	0	0	5	13	15	25	26	26	26	2	15	26	0	26
12	22	2	9	14	18	22	24	25	25	25	11	22	25	2	25
13	25	7	16	21	23	25	25	25	25	25	18	25	25	10	25
14	24	9	24	24	24	24	24	24	24	24	24	24	24	2	24
15	31	31	31	31	31	31	31	31	31	31	31	31	31	25	31
16	31	31	31	31	31	31	31	31	31	31	31	31	31	22	31
17	34	34	34	34	34	34	34	34	34	34	34	34	34	17	34
18	39	38	38	38	39	39	39	39	39	39	38	39	39	18	39
19	37	36	36	37	37	37	37	37	37	37	36	37	37	35	37
20	35	33	35	35	35	35	35	35	35	35	35	35	35	33	35
21	39	37	39	39	39	39	39	39	39	39	39	39	39	35	39
22	35	34	34	35	35	35	35	35	35	35	35	35	35	34	35
23	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
24	38	38	38	38	38	38	38	38	38	38	38	38	38	37	38
25	35	35	35	35	35	35	35	35	35	35	35	35	35	32	35
26	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
27	37	37	37	37	37	37	37	37	37	37	37	37	37	36	37
28	39	38	39	39	39	39	39	39	39	39	39	39	39	38	39
29	41	39	39	40	40	41	41	41	41	41	39	41	41	40	41
30	45	41	42	43	45	45	45	45	45	45	42	45	45	39	45
31	39	24	28	34	39	39	39	39	39	39	30	39	39	25	39
32	25	9	13	18	23	25	29	31	34	37	15	25	33	10	37
33	9	0	0	5	9	9	12	14	16	23	2	9	15	0	27
34	0	0	0	0	0	0	0	1	6	11	0	0	3	0	19
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	27	27	27	27	27	27	27	27	27	27	27	27	27	25	27
2	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3	30	30	30	30	30	30	30	30	30	30	30	30	30	25	30
4	27	20	27	27	27	27	27	27	27	27	27	27	27	15	27
5	27	16	26	27	27	27	27	27	27	27	27	27	27	13	27
6	25	9	21	25	25	25	25	25	25	25	22	25	25	10	25
7	27	4	16	24	25	27	27	27	27	27	19	27	27	1	27
8	28	0	3	9	22	26	28	28	28	28	5	26	28	9	28
9	22	0	0	5	15	21	28	30	30	30	0	21	30	13	30
10	14	0	0	3	6	13	18	22	24	26	0	13	23	8	26
11	9	0	0	0	0	5	11	15	21	26	0	5	20	13	26
12	2	0	0	0	0	2	4	9	12	19	0	2	11	7	22
13	0	0	0	0	0	0	0	3	4	8	0	0	3	0	17
14	0	0	0	0	0	0	0	0	0	7	0	0	0	0	19
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	1	1	1	1	1	1	1	1	2	2	1	1	2	1	2
19	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
22	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
29	1	1	1	1	1	1	1	2	2	3	1	1	2	1	3
30	0	0	0	0	0	0	0	0	1	2	0	0	1	0	4
31	0	0	0	0	0	0	0	2	8	12	0	0	6	0	14
32	11	0	0	3	7	10	11	16	20	24	1	10	19	1	27
33	22	4	11	16	18	20	23	26	29	32	13	20	28	10	32
34	26	7	16	22	25	26	26	26	26	26	17	26	26	12	26
35	27	22	27	27	27	27	27	27	27	27	27	27	27	22	27
36	30	30	30	30	30	30	30	30	30	30	30	30	30	24	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
14	0	0	0	0	0	0	0	0	4	16	0	0	0	0	67
15	0	0	0	0	0	0	0	0	6	46	0	0	3	0	67
16	4	0	0	0	0	2	9	19	25	42	0	2	21	0	60
17	0	0	0	0	0	0	0	5	10	17	0	0	8	0	28
18	0	0	0	0	0	0	0	3	14	32	0	0	12	0	52
19	12	0	0	0	2	11	17	28	37	49	0	11	36	0	54
20	22	0	0	0	4	21	26	35	52	56	0	21	46	0	71
21	26	0	0	15	21	25	32	44	54	61	1	25	51	0	97
22	34	0	0	0	13	29	38	47	69	98	0	29	56	7	125
23	31	0	7	19	29	30	37	51	55	78	10	30	53	4	86
24	45	10	15	20	29	41	53	71	83	109	15	41	78	2	116
25	66	0	22	37	47	64	68	72	82	101	32	64	78	0	110
26	46	0	19	29	39	45	50	55	78	106	24	45	70	2	123
27	47	4	13	19	26	47	57	70	83	99	15	47	78	15	117
28	31	0	0	10	21	28	35	42	56	73	2	28	53	8	100
29	5	0	0	0	0	4	14	17	26	44	0	4	21	0	56
30	0	0	0	0	0	0	3	14	26	53	0	0	18	0	77
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 5 HAUTE VOLTA - Analyse fréquentielle des principaux termes du bilan hydrique.

UPPER VOLTA - Frequential analysis of main water-balance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bobo-Dioulasso

Boromo

Dédougou

Djibo

Dori

Fada N'Gourma

Gaoua

Kaya

Ouagadougou

Ouahigouya

Pô

BOBO-DIOULASSO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
6	0	0	0	0	0	0	0	0	0	8	0	0	0	0	14
7	0	0	0	0	0	0	0	0	1	12	0	0	0	0	15
8	0	0	0	0	0	0	0	2	6	14	0	0	4	0	26
9	3	0	0	0	0	3	9	11	14	24	0	3	12	0	37
10	4	0	0	0	2	4	6	10	22	31	0	4	11	0	34
11	11	0	0	2	5	11	14	20	29	37	1	11	23	0	46
12	14	0	4	6	8	14	23	30	36	56	5	14	35	0	75
13	23	0	8	15	16	23	31	37	45	81	10	23	38	0	98
14	22	2	8	12	16	22	27	34	46	68	10	22	40	0	82
15	43	5	17	23	30	43	48	58	78	94	20	43	72	1	114
16	33	3	15	19	27	33	42	49	62	69	17	33	56	0	82
17	38	10	24	28	33	38	51	57	65	77	27	38	61	2	79
18	46	16	22	31	34	46	54	62	70	74	28	46	63	10	78
19	50	22	29	34	48	50	61	67	73	100	35	50	69	10	113
20	70	21	37	46	55	70	80	94	115	137	42	70	102	13	181
21	73	27	51	61	69	73	80	96	125	167	55	73	112	10	200
22	85	35	59	72	81	85	95	114	135	162	64	85	126	17	185
23	95	40	55	71	85	95	102	114	144	199	63	95	121	23	240
24	105	42	65	81	87	105	127	143	150	198	73	105	145	29	207
25	81	35	49	61	75	81	93	107	121	146	50	81	112	29	174
26	72	32	37	45	58	72	81	90	104	123	41	72	97	17	130
27	35	12	18	24	28	35	39	49	65	90	19	35	56	5	97
28	27	1	8	13	21	27	32	38	53	74	11	27	41	0	88
29	16	0	3	8	10	16	20	27	39	55	6	16	31	0	59
30	9	0	0	2	7	9	14	25	34	55	1	9	30	0	61
31	1	0	0	0	0	1	2	4	10	21	0	1	6	0	36
32	0	0	0	0	0	0	0	0	2	7	0	0	1	0	12
33	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
6	0	0	0	0	0	0	0	0	0	8	0	0	0	0	14
7	0	0	0	0	0	0	0	0	1	12	0	0	0	0	15
8	0	0	0	0	0	0	0	3	7	14	0	0	5	0	25
9	4	0	0	0	0	4	4	11	16	24	0	4	12	0	37
10	4	0	0	0	2	4	6	11	22	31	0	4	18	0	34
11	11	0	0	2	5	11	14	21	29	34	1	11	25	0	34
12	19	0	4	6	10	19	24	34	34	34	5	19	34	0	34
13	25	4	11	16	21	25	34	34	34	34	13	25	34	0	34
14	30	5	11	16	24	30	34	34	34	34	12	30	34	1	34
15	36	14	23	30	36	36	36	36	36	36	26	36	36	4	36
16	30	17	29	30	30	30	30	30	30	30	30	30	30	10	30
17	29	28	29	29	29	29	29	29	29	29	29	29	29	14	29
18	34	34	34	34	34	34	34	34	34	34	34	34	34	28	34
19	38	38	38	38	38	38	38	38	38	38	38	38	38	33	38
20	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
21	52	51	52	52	52	52	52	52	52	52	52	52	52	22	52
22	45	43	45	45	45	45	45	45	45	45	45	45	45	41	45
23	43	43	43	43	43	43	43	43	43	43	43	43	43	40	43
24	48	48	48	48	48	48	48	48	48	48	48	48	48	45	48
25	44	43	44	44	44	44	44	44	44	44	44	44	44	42	44
26	45	44	45	45	45	45	45	45	45	45	45	45	45	42	45
27	48	42	45	47	48	48	49	49	49	49	46	48	49	36	49
28	47	32	36	42	45	47	49	51	51	51	38	47	51	26	51
29	37	17	25	28	33	37	44	47	51	53	26	37	50	12	53
30	22	6	12	14	18	22	32	40	46	51	13	22	41	4	51
31	14	2	5	9	12	14	16	19	23	33	6	14	20	0	40
32	5	0	0	1	3	5	7	9	11	16	0	5	10	0	22
33	0	0	0	0	0	0	0	1	4	10	0	0	2	0	12
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	30	30	30	30	30	30	30	30	30	30	30	30	30	21	30
2	30	30	30	30	30	30	30	30	30	30	30	30	30	19	30
3	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
4	30	28	30	30	30	30	30	30	30	30	30	30	30	10	30
5	30	24	30	30	30	30	30	30	30	30	30	30	30	18	30
6	29	17	27	29	29	29	29	29	29	29	29	29	29	4	29
7	34	19	32	34	34	34	34	34	34	34	33	34	34	1	34
8	35	20	27	31	34	35	35	35	35	35	29	35	35	0	35
9	33	7	20	26	28	33	38	39	39	39	24	33	39	0	39
10	30	0	10	20	28	30	32	35	35	35	12	30	35	0	35
11	21	0	1	10	18	21	26	31	33	34	6	21	32	0	34
12	13	0	0	0	9	13	21	27	28	33	0	13	27	0	34
13	4	0	0	0	0	4	11	17	21	26	0	4	18	0	31
14	4	0	0	0	0	4	9	14	21	28	0	4	18	0	29
15	0	0	0	0	0	0	0	2	11	15	0	0	5	0	25
16	0	0	0	0	0	0	0	0	0	12	0	0	0	0	14
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3	3	3	3	3	3	3	3	3	4	3	3	3	3	10
22	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
26	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
27	3	2	2	2	2	3	3	4	6	8	2	3	5	2	10
28	6	3	3	3	4	6	9	11	17	22	3	6	14	3	26
29	15	0	1	3	8	15	18	23	27	35	1	15	25	0	37
30	29	0	4	11	19	29	32	37	39	44	9	29	37	0	45
31	26	2	16	20	24	26	28	30	35	38	18	26	33	0	39
32	29	17	23	25	27	29	31	33	35	35	24	29	33	0	35
33	29	18	24	27	28	29	29	29	29	29	24	29	29	6	29
34	28	25	28	28	28	28	28	28	28	28	28	28	28	16	28
35	28	25	28	28	28	28	28	28	28	28	28	28	28	7	28
36	32	32	32	32	32	32	32	32	32	32	32	32	32	25	32

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	8	0	0	0	0	22
16	0	0	0	0	0	0	0	0	0	25	0	0	0	0	31
17	0	0	0	0	0	0	0	0	0	7	0	0	0	0	16
18	0	0	0	0	0	0	0	0	3	23	0	0	1	0	35
19	0	0	0	0	0	0	3	15	27	41	0	0	18	0	77
20	12	0	0	0	2	12	23	36	52	96	0	12	45	0	121
21	20	0	0	10	15	20	30	44	83	114	2	20	62	0	158
22	31	0	2	10	19	31	37	48	81	109	5	31	61	0	132
23	41	0	5	23	34	41	56	62	99	149	14	41	73	0	195
24	48	0	21	36	41	48	79	99	106	151	24	48	102	0	163
25	32	0	0	9	26	32	44	58	72	97	0	32	64	0	125
26	26	0	0	0	12	26	33	41	59	78	0	26	48	0	85
27	0	0	0	0	0	0	0	3	19	41	0	0	9	0	52
28	0	0	0	0	0	0	0	0	0	9	0	0	0	0	21
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOROMO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
8	0	0	0	0	0	0	0	0	1	7	0	0	0	0	13
9	0	0	0	0	0	0	1	2	8	19	0	0	6	0	28
10	1	0	0	0	0	1	3	6	10	18	0	1	8	0	28
11	3	0	0	0	0	2	3	10	16	43	0	2	12	0	44
12	10	0	0	2	4	9	13	16	30	47	0	9	27	0	62
13	14	0	3	6	9	13	22	26	38	51	4	13	33	0	63
14	24	0	5	14	20	23	28	32	40	54	8	23	37	0	69
15	36	7	14	20	21	35	41	48	69	80	16	35	56	0	90
16	34	6	13	19	26	32	36	46	55	69	14	32	52	1	77
17	35	6	17	20	27	35	42	47	61	83	19	35	56	2	98
18	37	9	17	23	28	36	44	46	69	75	19	36	63	4	93
19	49	8	22	29	42	48	53	60	82	104	26	48	71	1	118
20	72	25	38	45	57	70	76	88	100	125	44	70	96	17	148
21	66	14	32	43	57	65	77	82	92	116	34	65	85	10	159
22	70	25	38	50	60	70	82	87	92	150	44	70	89	21	190
23	85	21	33	51	73	84	89	109	131	162	39	84	123	12	171
24	88	42	61	73	79	87	93	107	136	156	67	87	122	28	231
25	66	24	41	49	52	65	73	89	103	115	44	65	97	21	153
26	55	19	26	37	47	54	59	73	94	110	29	54	89	10	116
27	44	4	12	18	31	43	49	54	64	111	15	43	62	2	121
28	17	0	0	4	8	16	21	26	35	55	1	16	30	0	65
29	10	0	0	0	1	9	15	18	27	36	0	9	22	0	43
30	2	0	0	0	0	1	3	6	20	32	0	1	15	0	37
31	0	0	0	0	0	0	0	1	4	18	0	0	2	0	31
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	6	0	0	0	0	10
8	0	0	0	0	0	0	0	0	1	9	0	0	1	0	15
9	0	0	0	0	0	0	1	2	8	19	0	0	6	0	28
10	1	0	0	0	0	1	3	6	10	18	0	1	8	0	28
11	3	0	0	0	0	3	6	12	17	31	0	3	13	0	31
12	14	0	0	4	11	13	16	21	30	31	1	13	28	0	31
13	23	2	5	11	14	22	25	30	31	31	7	22	31	0	31
14	30	0	9	21	26	30	31	31	31	31	19	30	31	0	31
15	33	9	16	26	33	33	33	33	33	33	21	33	33	4	33
16	29	11	20	29	29	29	29	29	29	29	23	29	29	5	29
17	34	13	23	34	34	34	34	34	34	34	33	34	34	4	34
18	39	20	36	39	39	39	39	39	39	39	39	39	39	12	39
19	43	22	43	43	43	43	43	43	43	43	43	43	43	2	43
20	50	47	49	50	50	50	50	50	50	50	49	50	50	44	50
21	52	40	51	52	52	52	52	52	52	52	52	52	52	23	53
22	47	42	45	46	47	47	47	47	47	47	45	47	47	39	47
23	45	40	44	45	45	45	45	45	45	45	44	45	45	33	45
24	49	48	49	49	49	49	49	49	49	49	49	49	49	39	49
25	45	43	44	45	45	45	45	45	45	45	45	45	45	41	45
26	45	42	43	44	45	45	45	45	45	45	44	45	45	38	45
27	43	36	40	42	42	43	44	44	44	44	40	43	44	30	44
28	40	21	32	36	39	39	41	42	43	44	36	39	42	20	44
29	32	18	24	26	30	31	34	36	37	39	26	31	37	6	41
30	19	4	10	14	15	18	23	27	32	38	12	18	31	1	40
31	7	0	0	1	2	6	12	16	21	31	0	6	18	0	32
32	0	0	0	0	0	0	0	1	7	23	0	0	4	0	27
33	0	0	0	0	0	0	0	0	1	11	0	0	0	0	16
34	0	0	0	0	0	0	0	0	0	3	0	0	0	0	16
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-EIR EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4	23	23	23	23	23	23	23	23	23	23	23	23	23	18	23
5	23	22	23	23	23	23	23	23	23	23	23	23	23	10	23
6	23	21	23	23	23	23	23	23	23	23	23	23	23	10	23
7	29	19	29	29	29	29	29	29	29	29	29	29	29	4	29
8	31	18	29	31	31	31	31	31	31	31	30	31	31	8	31
9	35	6	25	30	32	34	35	35	35	35	26	34	35	1	35
10	30	3	18	22	26	30	30	31	31	31	20	30	31	0	31
11	28	0	10	19	21	27	29	31	31	31	14	27	31	0	31
12	17	0	0	4	14	16	19	26	30	31	0	16	28	0	31
13	8	0	0	0	2	7	14	17	24	27	0	7	22	0	29
14	0	0	0	0	0	0	4	8	11	28	0	0	10	0	31
15	0	0	0	0	0	0	0	3	12	21	0	0	7	0	24
16	0	0	0	0	0	0	0	0	5	12	0	0	1	0	17
17	0	0	0	0	0	0	0	0	0	14	0	0	0	0	20
18	0	0	0	0	0	0	0	0	0	12	0	0	0	0	17
19	0	0	0	0	0	0	0	0	0	2	0	0	0	0	19
20	2	2	2	2	2	2	2	2	3	4	2	2	2	2	5
21	3	3	3	3	3	3	3	3	3	9	3	3	3	3	15
22	2	2	2	2	2	2	2	2	4	5	2	2	3	2	6
23	2	2	2	2	2	2	2	2	3	4	2	2	2	2	7
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
25	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
26	2	2	2	2	2	2	2	2	3	4	2	2	3	2	5
27	2	2	2	2	2	2	3	4	5	8	2	2	4	2	10
28	6	2	2	4	5	6	7	7	11	16	3	6	10	2	24
29	8	0	2	4	6	8	10	12	15	19	2	8	14	0	22
30	20	0	5	10	14	19	23	24	27	32	7	19	25	0	35
31	23	0	7	14	18	23	28	29	31	32	11	23	30	0	32
32	27	0	18	24	26	27	27	27	27	27	21	27	27	0	27
33	22	5	19	22	22	22	22	22	22	22	21	22	22	0	22
34	21	5	21	21	21	21	21	21	21	21	21	21	21	1	21
35	21	15	21	21	21	21	21	21	21	21	21	21	21	2	21
36	24	24	24	24	24	24	24	24	24	24	24	24	24	20	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	4	0	0	0	0	26
18	0	0	0	0	0	0	0	0	0	12	0	0	0	0	38
19	0	0	0	0	0	0	0	2	12	37	0	0	6	0	48
20	0	0	0	0	0	0	10	31	43	59	0	0	39	0	65
21	0	0	0	0	0	0	12	24	35	59	0	0	32	0	83
22	7	0	0	0	0	4	20	24	34	87	0	4	32	0	137
23	26	0	0	0	9	24	37	47	72	99	0	24	63	0	119
24	39	0	3	19	31	38	45	56	89	109	9	38	74	0	162
25	8	0	0	0	1	5	18	32	53	65	0	5	48	0	86
26	2	0	0	0	0	2	11	26	47	64	0	2	41	0	71
27	0	0	0	0	0	0	0	3	14	50	0	0	8	0	66
28	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DEDOUGOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	7	0	0	0	0	11	
9	0	0	0	0	0	0	0	1	9	0	0	0	0	18	
10	0	0	0	0	0	0	0	2	12	0	0	1	0	22	
11	0	0	0	0	0	0	2	6	15	37	0	0	9	0	55
12	3	0	0	0	0	3	9	18	30	37	0	3	19	0	47
13	9	0	0	0	3	9	16	22	29	44	0	9	25	0	50
14	13	0	2	6	7	13	18	25	30	38	3	13	27	0	41
15	22	0	7	12	17	22	28	39	53	67	9	22	44	0	73
16	32	8	12	20	23	32	37	45	57	70	17	32	51	1	71
17	35	7	12	16	23	35	42	51	64	84	13	35	60	1	95
18	38	18	20	29	34	38	45	59	67	82	23	38	62	9	89
19	53	19	30	35	40	53	66	73	85	122	33	53	75	6	136
20	63	17	26	37	49	63	68	81	95	128	33	63	84	10	143
21	85	25	47	60	76	85	96	113	122	146	51	85	119	11	153
22	82	26	51	60	72	82	91	100	117	128	53	82	105	21	140
23	95	29	47	58	69	95	109	130	140	179	55	95	133	12	193
24	95	31	49	62	80	95	107	117	127	147	52	95	123	21	157
25	60	21	30	40	51	60	71	88	105	128	33	60	94	5	145
26	48	10	19	25	35	48	65	74	100	106	22	48	79	2	106
27	33	0	6	16	24	33	43	55	66	90	12	33	59	0	99
28	19	0	4	11	13	19	27	30	52	67	6	19	39	0	80
29	10	0	0	0	5	10	12	14	27	37	0	10	17	0	46
30	0	0	0	0	0	0	3	7	10	26	0	0	9	0	51
31	0	0	0	0	0	0	0	0	3	7	0	0	0	0	11
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	9	0	0	0	0	11
9	0	0	0	0	0	0	0	0	2	13	0	0	0	0	20
10	0	0	0	0	0	0	0	1	3	16	0	0	2	0	22
11	0	0	0	0	0	0	2	6	15	36	0	0	9	0	37
12	3	0	0	0	1	3	11	20	33	37	0	3	26	0	37
13	12	0	0	0	4	12	20	28	37	37	0	12	32	0	37
14	16	2	5	7	13	16	23	28	32	37	7	16	30	0	37
15	23	2	9	14	17	23	28	37	37	37	11	23	37	0	37
16	30	8	17	23	30	30	30	30	30	30	21	30	30	1	30
17	26	8	16	26	26	26	26	26	26	26	23	26	26	1	26
18	32	26	32	32	32	32	32	32	32	32	32	32	32	15	32
19	39	39	39	39	39	39	39	39	39	39	39	39	39	30	39
20	45	43	45	45	45	45	45	45	45	45	45	45	45	35	45
21	56	53	56	56	56	56	56	56	56	56	56	56	56	47	56
22	50	46	48	50	50	50	50	50	50	50	49	50	50	42	50
23	48	46	48	48	48	48	48	48	48	48	48	48	48	42	48
24	52	51	52	52	52	52	52	52	52	52	52	52	52	49	52
25	48	42	46	47	48	48	48	48	48	48	46	48	48	39	48
26	48	39	44	45	47	48	48	48	48	48	44	48	48	26	48
27	47	30	40	43	45	47	49	50	50	50	42	47	50	23	50
28	42	22	28	34	39	42	45	48	51	51	31	42	50	12	51
29	30	10	16	20	24	30	32	37	44	47	18	30	40	3	50
30	13	0	4	9	12	13	15	19	26	39	7	13	21	0	46
31	6	0	0	3	5	6	8	11	13	19	1	6	12	0	26
32	0	0	0	0	0	0	0	0	3	6	0	0	1	0	11
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	12	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	10	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	19	27
5	27	27	27	27	27	27	27	27	27	27	27	27	27	12	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	25	27
7	32	32	32	32	32	32	32	32	32	32	32	32	32	15	32
8	35	24	34	35	35	35	35	35	35	35	35	35	35	10	35
9	40	21	36	40	40	40	40	40	40	40	37	40	40	0	40
10	36	20	32	35	36	36	36	36	36	36	33	36	36	3	36
11	36	0	21	29	34	36	37	37	37	37	23	36	37	0	37
12	33	0	2	15	26	33	35	37	37	37	5	33	37	0	37
13	25	0	0	6	15	25	32	37	37	37	1	25	37	0	37
14	20	0	2	8	14	20	24	29	31	34	5	20	30	0	36
15	14	0	0	0	8	14	19	22	27	32	0	14	24	0	36
16	0	0	0	0	0	0	0	5	10	20	0	0	6	0	22
17	0	0	0	0	0	0	0	0	6	15	0	0	0	0	18
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
21	3	3	3	3	3	3	3	3	3	4	3	3	3	3	7
22	2	2	2	2	2	2	2	2	3	6	2	2	2	2	6
23	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
25	2	2	2	2	2	2	2	2	4	7	2	2	3	2	8
26	2	2	2	2	2	2	3	4	6	11	2	2	5	2	12
27	4	2	2	2	3	4	6	9	12	18	2	4	10	2	25
28	11	3	3	4	8	11	14	19	24	31	3	11	21	3	34
29	20	3	6	13	17	20	25	29	34	38	9	20	31	0	41
30	36	8	21	29	34	36	37	40	42	47	25	36	40	0	50
31	31	16	23	27	29	31	34	35	37	39	25	31	35	0	39
32	33	23	29	32	33	33	33	33	33	33	30	33	33	9	33
33	26	25	26	26	26	26	26	26	26	26	26	26	26	17	26
34	25	24	25	25	25	25	25	25	25	25	25	25	25	23	25
35	25	25	25	25	25	25	25	25	25	25	25	25	25	18	25
36	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
18	0	0	0	0	0	0	0	0	1	18	0	0	0	0	29
19	0	0	0	0	0	0	1	13	25	35	0	0	14	0	78
20	0	0	0	0	0	0	13	25	45	67	0	0	31	0	78
21	20	0	0	0	12	20	33	51	70	83	0	20	56	0	96
22	20	0	0	0	10	20	27	40	49	65	0	20	43	0	72
23	35	0	0	6	14	35	50	71	89	114	0	35	82	0	136
24	37	0	0	14	25	37	50	63	75	93	4	37	69	0	102
25	7	0	0	0	0	7	18	33	48	71	0	7	37	0	92
26	0	0	0	0	0	0	5	14	31	55	0	0	21	0	57
27	0	0	0	0	0	0	0	0	6	27	0	0	0	0	46
28	0	0	0	0	0	0	0	0	0	5	0	0	0	0	11
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DJIBO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	3	8	0	0	0	0	11
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	2	0	0	0	0	5
12	0	0	0	0	0	0	0	0	1	2	0	0	0	0	13
13	0	0	0	0	0	0	0	5	7	8	0	0	6	0	13
14	1	0	0	0	0	0	2	6	11	15	0	0	9	1	25
15	7	0	0	1	4	7	9	15	23	36	0	7	20	0	40
16	5	0	0	0	4	5	12	16	19	24	0	5	18	0	27
17	12	0	3	5	9	12	14	16	20	25	4	12	18	2	36
18	20	0	0	6	11	19	21	39	48	76	3	19	40	7	81
19	28	0	9	17	19	24	33	40	49	60	15	24	46	4	65
20	43	5	11	18	29	41	54	72	81	101	14	41	75	42	108
21	32	12	15	19	26	32	36	43	54	75	18	32	46	13	89
22	54	21	27	36	45	54	64	73	80	84	32	54	78	50	86
23	44	20	24	29	34	42	55	60	78	95	27	42	68	29	124
24	54	15	27	35	46	53	59	65	104	194	31	53	82	24	208
25	48	6	16	27	33	45	50	54	60	78	19	45	55	23	105
26	41	8	13	16	24	36	45	50	59	69	14	36	56	6	75
27	8	0	0	0	3	7	10	19	32	41	0	7	25	0	49
28	4	0	0	0	1	3	5	13	27	48	0	3	20	0	55
29	0	0	0	0	0	0	1	11	21	25	0	0	16	0	31
30	0	0	0	0	0	0	0	0	2	4	0	0	0	0	8
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	3	8	0	0	0	0	11
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	2	0	0	0	0	5
12	0	0	0	0	0	0	0	0	1	2	0	0	0	0	13
13	0	0	0	0	0	0	0	5	7	8	0	0	6	0	17
14	1	0	0	0	0	0	2	6	11	15	0	0	9	1	25
15	8	0	0	1	4	7	11	16	23	36	0	7	20	0	39
16	5	0	0	1	4	5	13	16	22	26	0	5	19	0	28
17	12	0	3	5	9	12	14	17	21	31	4	12	20	2	33
18	21	0	3	6	16	20	27	32	32	32	6	20	32	7	32
19	30	6	13	17	29	30	30	30	30	30	15	30	30	17	30
20	30	14	22	30	30	30	30	30	30	30	27	30	30	21	30
21	38	12	30	38	38	38	38	38	38	38	35	38	38	25	38
22	39	31	39	39	39	39	39	39	39	39	39	39	39	31	39
23	43	28	43	43	43	43	43	43	43	43	43	43	43	32	43
24	55	36	48	50	55	55	55	55	55	55	49	55	55	42	55
25	46	27	35	40	42	45	48	50	50	50	38	45	50	37	50
26	44	8	15	21	41	43	48	49	49	50	17	43	49	16	50
27	21	2	6	9	15	21	29	35	41	45	7	21	41	0	46
28	7	0	0	3	5	6	13	21	29	40	1	6	27	6	40
29	0	0	0	0	0	0	1	18	24	30	0	0	21	9	34
30	0	0	0	0	0	0	0	2	4	18	0	0	4	0	22
31	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
2	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
3	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
4	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
5	21	20	21	21	21	21	21	21	21	21	21	21	21	20	21
6	21	16	21	21	21	21	21	21	21	21	21	21	21	16	21
7	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
8	29	27	29	29	29	29	29	29	29	29	29	29	29	28	29
9	33	19	24	30	33	33	33	33	33	33	27	33	33	25	33
10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	31	25	29	31	31	31	31	31	31	31	30	31	31	23	31
12	33	5	30	30	33	33	33	33	33	33	30	33	33	16	33
13	35	8	26	28	32	35	35	35	35	35	27	35	35	17	35
14	33	0	20	24	32	33	35	36	36	36	22	33	36	12	36
15	30	0	7	18	25	28	32	36	38	39	15	28	36	2	39
16	28	5	9	14	19	24	28	30	34	34	10	24	32	2	34
17	20	0	7	12	17	19	21	25	28	29	11	19	27	0	31
18	10	0	0	0	0	10	12	17	25	29	0	10	21	0	32
19	0	0	0	0	0	0	0	1	13	16	0	0	7	0	20
20	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
21	0	0	0	0	0	0	0	0	0	7	0	0	0	0	16
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24	3	3	3	3	3	3	3	3	8	10	3	3	6	3	13
25	6	2	3	3	3	4	8	11	13	18	3	4	11	2	21
26	8	2	2	2	3	6	10	19	31	36	2	6	27	2	40
27	25	0	2	5	16	20	27	33	38	40	4	20	36	0	43
28	28	0	5	13	24	27	33	34	37	40	11	27	35	0	40
29	34	0	5	12	16	33	34	34	34	34	10	33	34	3	34
30	31	2	12	25	29	31	31	31	31	31	18	31	31	15	31
31	21	2	17	21	21	21	21	21	21	21	21	21	21	10	21
32	20	12	20	20	20	20	20	20	20	20	20	20	20	16	20
33	20	13	20	20	20	20	20	20	20	20	20	20	20	13	20
34	18	16	18	18	18	18	18	18	18	18	18	18	18	16	18
35	18	16	18	18	18	18	18	18	18	18	18	18	18	16	18
36	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 21 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	30	37	0	0	14	13	40
21	0	0	0	0	0	0	0	3	8	26	0	0	6	0	46
22	0	0	0	0	0	0	15	20	31	41	0	0	25	15	45
23	1	0	0	0	0	0	4	18	28	55	0	0	20	0	84
24	2	0	0	0	0	1	13	19	42	150	0	1	25	0	160
25	0	0	0	0	0	0	0	0	0	16	0	0	0	0	49
26	0	0	0	0	0	0	0	0	3	8	0	0	0	0	10
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	1	3	0	0	0	0	4
12	0	0	0	0	0	0	0	0	2	5	0	0	1	0	12
13	0	0	0	0	0	0	0	1	3	6	0	0	2	0	12
14	3	0	0	0	0	3	8	11	18	27	0	3	15	0	28
15	9	0	0	3	5	9	11	16	22	35	1	9	21	0	49
16	10	0	1	3	6	10	14	18	25	41	1	10	25	0	47
17	18	0	3	10	13	18	20	25	29	42	7	18	28	0	56
18	25	4	8	12	20	25	30	35	45	55	10	25	39	1	86
19	34	9	14	23	30	34	42	48	53	61	17	34	50	7	66
20	44	9	19	32	40	44	46	51	60	75	27	44	60	7	100
21	46	19	26	34	40	46	56	66	76	94	32	46	75	11	129
22	58	11	21	30	40	58	68	78	86	102	25	58	82	2	107
23	67	28	37	46	51	67	74	85	90	102	42	67	87	18	112
24	59	21	28	40	48	59	64	69	86	120	37	59	76	17	141
25	36	7	11	19	23	36	42	47	55	76	15	36	49	2	84
26	28	3	7	13	17	28	34	44	51	71	11	28	49	0	120
27	14	0	1	4	8	14	18	24	31	44	3	14	27	0	54
28	4	0	0	0	1	4	5	8	13	23	0	4	11	0	30
29	0	0	0	0	0	0	1	1	10	17	0	0	5	0	19
30	0	0	0	0	0	0	0	0	2	12	0	0	1	0	15
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	1	3	0	0	0	0	4
12	0	0	0	0	0	0	0	0	2	5	0	0	1	0	12
13	0	0	0	0	0	0	0	1	3	6	0	0	3	0	12
14	3	0	0	0	1	3	9	11	19	27	0	3	16	0	28
15	9	0	0	3	6	9	14	18	23	35	1	9	21	0	40
16	11	0	1	3	7	11	16	22	32	35	2	11	26	0	35
17	19	0	6	11	16	19	22	25	32	35	8	19	29	0	35
18	27	5	10	17	24	27	32	34	34	34	12	27	34	3	34
19	32	11	17	27	32	32	32	32	32	32	23	32	32	7	32
20	31	19	30	31	31	31	31	31	31	31	31	31	31	12	31
21	40	32	40	40	40	40	40	40	40	40	40	40	40	29	40
22	41	35	41	41	41	41	41	41	41	41	41	41	41	25	41
23	47	36	47	47	47	47	47	47	47	47	47	47	47	21	47
24	61	42	53	60	61	61	61	61	61	61	58	61	61	32	61
25	43	17	26	31	35	43	46	51	54	54	29	43	52	12	54
26	37	5	11	22	29	37	43	47	50	54	15	37	49	0	54
27	22	1	4	10	17	22	25	27	34	42	8	22	30	0	48
28	5	0	0	0	2	5	7	11	19	30	0	5	14	0	35
29	0	0	0	0	0	0	1	3	13	18	0	0	10	0	21
30	0	0	0	0	0	0	0	1	2	13	0	0	1	0	17
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	18	20
2	20	20	20	20	20	20	20	20	20	20	20	20	20	18	20
3	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
4	21	21	21	21	21	21	21	21	21	21	21	21	21	10	21
5	21	21	21	21	21	21	21	21	21	21	21	21	21	19	21
6	22	22	22	22	22	22	22	22	22	22	22	22	22	20	22
7	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26
8	28	28	28	28	28	28	28	28	28	28	28	28	28	20	28
9	32	28	31	32	32	32	32	32	32	32	32	32	32	23	32
10	31	30	31	31	31	31	31	31	31	31	31	31	31	23	31
11	32	27	31	32	32	32	32	32	32	32	32	32	32	24	32
12	33	20	29	32	33	33	33	33	33	33	31	33	33	10	33
13	35	23	30	32	34	35	35	35	35	35	32	35	35	6	35
14	31	7	13	20	25	31	33	36	36	36	18	31	36	2	36
15	30	0	13	18	22	30	32	35	40	40	17	30	37	0	40
16	23	0	0	9	18	23	26	30	34	35	7	23	32	0	35
17	15	0	0	7	11	15	17	22	27	35	5	15	26	0	35
18	5	0	0	0	0	5	9	13	23	27	0	5	22	0	29
19	0	0	0	0	0	0	0	0	9	16	0	0	9	0	20
20	0	0	0	0	0	0	0	0	0	6	0	0	0	0	16
21	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
24	3	3	3	3	3	3	3	3	8	19	3	3	4	3	25
25	13	3	3	5	7	13	21	25	29	33	3	13	28	3	40
26	19	3	4	9	12	19	26	31	44	49	7	19	41	3	52
27	26	0	10	19	22	26	30	37	42	46	17	26	40	0	49
28	34	5	17	27	30	34	35	38	40	40	22	34	40	0	40
29	32	11	17	27	31	32	33	33	33	33	22	32	33	0	33
30	30	12	24	28	30	30	30	30	30	30	27	30	30	7	30
31	21	19	21	21	21	21	21	21	21	21	21	21	21	5	21
32	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
33	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
34	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
35	20	20	20	20	20	20	20	20	20	20	20	20	20	14	20
36	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 44 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
19	0	0	0	0	0	0	0	0	0	3	0	0	0	0	13
20	0	0	0	0	0	0	0	0	1	18	0	0	0	0	26
21	0	0	0	0	0	0	7	13	28	36	0	0	22	0	98
22	2	0	0	0	0	2	17	25	39	52	0	2	37	0	65
23	11	0	0	0	4	11	21	30	44	50	0	11	38	0	62
24	5	0	0	0	0	5	13	20	38	47	0	5	29	0	94
25	0	0	0	0	0	0	0	0	0	12	0	0	0	0	21
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FADA N'GOURMA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
9	0	0	0	0	0	0	3	6	9	16	0	0	8	0	17
10	0	0	0	0	0	0	0	5	8	15	0	0	6	0	20
11	2	0	0	0	1	2	3	6	11	18	0	2	9	0	22
12	9	0	0	1	4	9	12	16	21	27	0	9	18	0	48
13	13	0	1	4	8	13	16	20	25	29	3	13	23	0	44
14	14	0	2	4	11	14	20	33	42	51	3	14	39	0	65
15	30	3	9	21	25	30	36	41	58	73	14	30	51	0	94
16	28	8	14	18	24	28	29	40	46	57	16	28	45	4	72
17	41	15	21	25	31	41	47	52	58	85	22	41	57	2	98
18	43	12	17	29	38	43	46	56	66	86	23	43	61	9	89
19	39	15	21	29	38	39	48	58	68	102	26	39	65	3	117
20	69	15	31	42	52	69	72	82	86	118	35	69	83	3	124
21	65	22	25	39	52	65	72	84	104	119	32	65	96	12	136
22	81	12	36	56	70	81	90	102	119	141	51	81	114	7	156
23	99	34	48	70	82	99	104	112	139	155	60	99	123	23	199
24	82	35	44	54	64	82	85	92	107	138	51	82	97	20	142
25	67	24	40	50	62	67	73	85	107	132	48	67	92	8	158
26	55	11	20	31	39	55	58	71	81	99	28	55	77	4	115
27	25	1	11	16	22	25	33	42	49	62	14	25	46	0	71
28	12	0	0	0	4	12	13	15	20	28	0	12	17	0	32
29	0	0	0	0	0	0	1	3	21	28	0	0	14	0	33
30	0	0	0	0	0	0	0	1	11	19	0	0	3	0	30
31	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
9	0	0	0	0	0	0	3	6	9	16	0	0	8	0	17
10	0	0	0	0	0	0	0	5	8	15	0	0	6	0	20
11	3	0	0	0	1	3	3	8	13	20	0	3	9	0	28
12	10	0	0	2	6	10	13	16	21	27	1	10	18	0	35
13	13	0	1	4	8	13	16	21	26	37	3	13	24	0	37
14	14	0	2	7	12	14	25	35	37	37	4	14	37	0	37
15	37	4	13	24	27	37	39	39	39	39	21	37	39	0	39
16	32	10	16	22	30	32	32	32	32	32	18	32	32	6	32
17	30	14	30	30	30	30	30	30	30	30	30	30	30	12	30
18	35	15	35	35	35	35	35	35	35	35	35	35	35	12	35
19	39	32	39	39	39	39	39	39	39	39	39	39	39	22	39
20	43	38	43	43	43	43	43	43	43	43	43	43	43	10	43
21	54	44	53	54	54	54	54	54	54	54	53	54	54	26	54
22	49	42	46	49	49	49	49	49	49	49	48	49	49	39	49
23	47	45	47	47	47	47	47	47	47	47	47	47	47	42	47
24	51	51	51	51	51	51	51	51	51	51	51	51	51	49	51
25	46	43	45	46	46	46	46	46	46	46	46	46	46	40	46
26	46	41	43	44	46	46	46	46	46	46	44	46	46	31	46
27	46	33	41	43	46	46	47	48	49	49	42	46	48	25	49
28	37	17	26	31	34	37	40	42	43	46	30	37	42	10	48
29	21	3	12	14	20	21	23	25	29	39	13	21	29	0	43
30	9	0	2	7	8	9	10	12	17	23	6	9	15	0	24
31	1	0	0	0	0	1	2	4	6	12	0	1	5	0	16
32	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	25	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	27	26	27	27	27	27	27	27	27	27	27	27	27	16	27
5	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
7	32	31	32	32	32	32	32	32	32	32	32	32	32	25	32
8	35	28	34	35	35	35	35	35	35	35	35	35	35	11	35
9	39	22	27	31	35	39	40	40	40	40	30	39	40	9	40
10	37	17	28	31	35	37	37	37	37	37	31	37	37	0	37
11	34	8	20	28	33	34	36	36	37	37	26	34	37	0	37
12	26	2	14	19	23	26	30	34	37	37	17	26	36	0	37
13	22	0	8	13	20	22	27	31	33	37	12	22	32	0	37
14	21	0	0	0	4	21	24	28	33	36	0	21	31	0	37
15	0	0	0	0	0	0	5	13	20	31	0	0	15	0	34
16	0	0	0	0	0	0	0	8	14	18	0	0	13	0	22
17	0	0	0	0	0	0	0	0	0	9	0	0	0	0	14
18	0	0	0	0	0	0	0	0	0	5	0	0	0	0	20
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
21	3	3	3	3	3	3	3	3	4	6	3	3	3	3	12
22	2	2	2	2	2	2	2	2	3	4	2	2	2	2	8
23	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
25	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
26	2	2	2	2	2	2	2	3	4	6	2	2	4	2	6
27	4	2	2	3	4	4	5	6	9	12	2	4	8	2	17
28	8	0	3	6	6	8	11	15	18	25	5	8	17	0	30
29	23	1	12	16	20	23	24	28	31	35	16	23	31	0	41
30	32	18	22	26	30	32	33	34	36	41	25	32	35	1	42
31	30	15	24	26	28	30	31	31	31	31	25	30	31	4	31
32	25	19	23	25	25	25	25	25	25	25	25	25	25	5	25
33	25	25	25	25	25	25	25	25	25	25	25	25	25	16	25
34	25	25	25	25	25	25	25	25	25	25	25	25	25	14	25
35	25	24	25	25	25	25	25	25	25	25	25	25	25	22	25
36	29	29	29	29	29	29	29	29	29	29	29	29	29	22	29

*FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
18	0	0	0	0	0	0	0	0	11	29	0	0	5	0	36
19	0	0	0	0	0	0	0	0	6	25	0	0	3	0	33
20	0	0	0	0	0	0	0	11	26	43	0	0	19	0	54
21	0	0	0	0	0	0	8	21	41	68	0	0	37	0	82
22	12	0	0	0	2	12	21	37	51	74	0	12	42	0	87
23	38	0	0	4	20	38	52	60	78	101	0	38	70	0	140
24	25	0	0	3	9	25	35	42	51	89	0	25	47	0	95
25	12	0	0	0	5	12	19	27	50	78	0	12	38	0	103
26	5	0	0	0	0	5	11	25	32	51	0	5	29	0	62
27	0	0	0	0	0	0	0	0	0	4	0	0	0	0	10
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GAOUA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
5	0	0	0	0	0	0	0	0	1	6	0	0	0	0	13
6	0	0	0	0	0	0	0	0	1	9	0	0	0	0	14
7	0	0	0	0	0	0	0	1	4	10	0	0	1	0	22
8	1	0	0	0	0	1	4	7	14	33	0	1	10	0	45
9	13	0	0	0	4	13	16	22	31	53	0	13	27	0	58
10	8	0	0	0	2	8	18	25	46	62	0	8	31	0	67
11	16	0	3	6	12	16	28	33	44	53	4	16	36	0	62
12	23	3	5	13	18	23	31	42	48	57	8	23	46	0	71
13	38	2	7	13	24	38	48	55	63	82	8	38	58	0	92
14	28	10	13	17	24	28	40	54	62	72	15	28	58	3	90
15	41	15	23	28	32	41	55	62	73	95	24	41	68	7	126
16	47	16	28	35	44	47	51	54	66	80	31	47	56	6	86
17	47	12	29	37	40	47	54	63	74	84	33	47	67	6	91
18	44	15	25	31	36	44	50	55	62	92	28	44	57	5	121
19	46	15	23	28	38	46	55	63	77	116	26	46	71	9	150
20	58	16	29	42	55	58	71	83	95	123	37	58	89	4	145
21	60	16	30	40	47	60	71	82	102	135	32	60	93	5	157
22	73	11	34	38	52	73	98	111	127	140	35	73	115	3	144
23	76	23	37	59	64	76	96	113	122	135	52	76	115	8	156
24	66	27	41	49	57	66	87	96	129	178	44	66	102	21	198
25	78	38	53	62	71	78	88	103	115	134	55	78	110	22	142
26	60	30	38	46	53	60	73	87	109	134	39	60	95	20	149
27	51	18	30	35	39	51	56	66	91	115	32	51	70	11	141
28	29	4	13	19	24	29	31	37	55	83	15	29	44	0	92
29	21	2	5	8	14	21	29	38	44	56	7	21	40	0	70
30	21	0	0	8	17	21	23	37	43	48	2	21	42	0	55
31	5	0	0	0	1	5	10	15	28	47	0	5	18	0	56
32	0	0	0	0	0	0	0	1	6	22	0	0	4	0	36
33	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
34	0	0	0	0	0	0	0	0	7	23	0	0	0	0	33
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
5	0	0	0	0	0	0	0	0	3	8	0	0	0	0	21
6	0	0	0	0	0	0	0	0	3	11	0	0	0	0	16
7	0	0	0	0	0	0	0	1	4	15	0	0	2	0	22
8	1	0	0	0	0	1	5	9	16	33	0	1	10	0	34
9	15	0	0	0	4	15	19	23	34	36	0	15	27	0	36
10	19	0	0	1	10	19	22	31	31	31	0	19	31	0	31
11	30	0	5	15	21	30	30	30	30	30	8	30	30	0	30
12	30	6	16	23	27	30	30	30	30	30	19	30	30	1	30
13	30	6	18	26	30	30	30	30	30	30	23	30	30	3	30
14	30	13	22	30	30	30	30	30	30	30	26	30	30	8	30
15	31	24	31	31	31	31	31	31	31	31	31	31	31	14	31
16	33	32	33	33	33	33	33	33	33	33	33	33	33	20	33
17	37	36	37	37	37	37	37	37	37	37	37	37	37	20	37
18	41	41	41	41	41	41	41	41	41	41	41	41	41	29	41
19	47	41	44	46	46	47	47	47	47	47	44	47	47	39	47
20	46	37	43	45	46	46	46	46	46	46	44	46	46	33	46
21	49	40	47	48	49	49	49	49	49	49	47	49	49	26	49
22	43	36	41	43	43	43	43	43	43	43	42	43	43	21	43
23	42	37	41	42	42	42	42	42	42	42	41	42	42	36	42
24	46	45	46	46	46	46	46	46	46	46	46	46	46	38	46
25	42	42	42	42	42	42	42	42	42	42	42	42	42	37	42
26	42	41	42	42	42	42	42	42	42	42	42	42	42	37	42
27	45	42	43	45	45	45	45	45	45	45	44	45	45	39	45
28	46	36	41	44	44	46	46	46	47	47	43	46	47	27	47
29	44	24	35	37	40	44	45	47	47	47	36	44	47	18	47
30	40	9	18	27	36	40	42	45	45	45	20	40	45	4	45
31	25	4	12	20	22	25	28	34	36	36	17	25	36	0	36
32	12	0	4	6	9	12	16	20	23	30	5	12	20	0	30
33	1	0	0	0	0	1	3	5	10	22	0	1	6	0	25
34	0	0	0	0	0	0	1	7	14	22	0	0	7	0	23
35	0	0	0	0	0	0	0	0	2	9	0	0	0	0	13
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	13	25
2	25	23	25	25	25	25	25	25	25	25	25	25	25	5	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	22	28
4	26	22	26	26	26	26	26	26	26	26	26	26	26	1	26
5	26	13	22	26	26	26	26	26	26	26	25	26	26	0	26
6	26	11	20	26	26	26	26	26	26	26	25	26	26	0	26
7	31	12	26	30	30	31	31	31	31	31	27	31	31	0	31
8	31	0	14	23	27	31	34	34	34	34	19	31	34	0	34
9	20	0	0	10	15	20	28	36	36	36	4	20	36	0	36
10	10	0	0	0	8	10	20	29	31	31	0	10	30	0	31
11	0	0	0	0	0	0	6	13	22	29	0	0	17	0	30
12	0	0	0	0	0	0	2	6	10	20	0	0	8	0	25
13	0	0	0	0	0	0	0	1	9	21	0	0	4	0	25
14	0	0	0	0	0	0	0	0	5	16	0	0	0	0	18
15	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	3	5	7	2	2	3	2	8
20	2	2	2	2	2	2	2	3	4	8	2	2	3	2	13
21	2	2	2	2	2	2	2	3	5	8	2	2	4	2	12
22	2	2	2	2	2	2	2	2	3	7	2	2	2	2	11
23	2	2	2	2	2	2	2	2	3	6	2	2	2	2	7
24	2	2	2	2	2	2	2	2	3	4	2	2	2	2	4
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
27	2	2	2	2	2	2	2	2	3	4	2	2	2	2	5
28	3	2	2	2	3	3	4	5	6	12	2	3	5	2	13
29	2	0	0	0	1	2	6	8	11	21	0	2	9	0	23
30	5	0	0	0	2	5	8	16	25	32	0	5	20	0	37
31	9	0	0	0	5	9	12	15	22	30	0	9	18	0	32
32	16	0	5	9	13	16	21	23	25	30	7	16	24	0	30
33	23	0	13	18	20	23	25	25	25	25	14	23	25	0	25
34	23	0	6	16	22	23	23	23	23	23	12	23	23	0	23
35	23	11	20	23	23	23	23	23	23	23	22	23	23	0	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	5	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	12	0	0	0	0	33
14	0	0	0	0	0	0	0	0	0	11	0	0	0	0	20
15	0	0	0	0	0	0	0	0	3	27	0	0	0	0	76
16	0	0	0	0	0	0	0	2	13	27	0	0	8	0	44
17	0	0	0	0	0	0	1	11	21	34	0	0	14	0	40
18	0	0	0	0	0	0	0	2	10	50	0	0	4	0	80
19	0	0	0	0	0	0	0	6	14	46	0	0	10	0	91
20	0	0	0	0	0	0	0	8	22	39	63	0	0	27	0	97
21	0	0	0	0	0	0	0	16	29	44	88	0	0	30	0	104
22	1	0	0	0	0	1	30	54	64	87	0	1	59	0	94
23	18	0	0	0	3	18	33	60	75	89	0	18	66	0	113
24	12	0	0	0	2	12	38	48	87	135	0	12	52	0	155
25	26	0	0	8	17	26	34	44	65	75	2	26	59	0	87
26	17	0	0	0	8	17	28	44	66	91	0	17	52	0	106
27	7	0	0	0	0	7	9	21	47	71	0	7	25	0	98
28	0	0	0	0	0	0	0	0	6	33	0	0	0	0	39
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KAYA

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	2	8	0	0	0	0	9
10	0	0	0	0	0	0	0	0	2	5	0	0	0	0	7
11	0	0	0	0	0	0	0	1	3	6	0	0	1	0	12
12	0	0	0	0	0	0	1	2	5	13	0	0	3	0	17
13	2	0	0	0	0	1	7	11	17	24	0	1	14	0	32
14	8	0	0	2	4	8	10	15	28	42	0	8	21	0	49
15	18	0	2	6	8	17	22	28	40	47	4	17	34	0	58
16	24	7	10	15	17	23	25	33	44	54	13	23	37	5	61
17	29	4	8	16	22	28	38	46	59	69	13	28	48	0	80
18	29	3	12	20	25	29	37	43	49	70	16	29	48	1	84
19	41	16	23	27	36	41	53	58	69	80	25	41	61	11	90
20	46	3	11	17	26	45	60	71	76	89	16	45	72	1	101
21	57	10	27	42	51	57	68	82	92	101	38	57	83	8	114
22	73	22	35	48	62	72	79	85	99	140	42	72	88	9	159
23	84	27	39	49	60	80	90	98	108	117	45	80	104	21	153
24	66	19	30	39	54	64	78	87	101	122	37	64	91	12	142
25	45	14	25	36	40	44	58	68	81	108	33	44	72	1	113
26	34	5	15	21	27	34	41	56	67	88	18	34	63	1	99
27	19	0	1	10	14	19	28	37	42	54	7	19	39	0	66
28	3	0	0	0	0	3	6	10	18	24	0	3	14	0	30
29	1	0	0	0	0	1	6	10	16	26	0	1	10	0	31
30	0	0	0	0	0	0	0	2	5	18	0	0	3	0	28
31	0	0	0	0	0	0	0	0	0	8	0	0	0	0	13
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	2	8	0	0	0	0	9
10	0	0	0	0	0	0	0	0	4	5	0	0	1	0	16
11	0	0	0	0	0	0	0	1	3	6	0	0	1	0	12
12	0	0	0	0	0	0	1	3	5	13	0	0	4	0	17
13	3	0	0	0	0	2	7	11	17	26	0	2	14	0	37
14	8	0	0	2	4	8	10	21	32	40	0	8	26	0	40
15	19	0	2	6	11	18	23	38	41	41	4	18	40	0	41
16	26	8	11	16	23	25	32	35	35	35	15	25	35	5	35
17	32	5	13	21	27	32	32	32	32	32	19	32	32	1	32
18	31	5	12	26	31	31	31	31	31	31	22	31	31	1	31
19	37	22	36	37	37	37	37	37	37	37	37	37	37	14	37
20	42	17	36	42	42	42	42	42	42	42	42	42	42	7	42
21	51	42	50	51	51	51	51	51	51	51	51	51	51	26	51
22	52	41	46	52	52	52	52	52	52	52	51	52	52	38	52
23	50	39	48	50	50	50	50	50	50	50	50	50	50	34	50
24	53	42	50	53	53	53	53	53	53	53	52	53	53	31	53
25	47	36	42	45	47	47	48	48	48	48	44	47	48	29	48
26	44	30	36	39	42	44	45	45	46	46	38	44	46	21	46
27	42	22	28	35	38	41	44	46	47	47	32	41	47	20	47
28	26	10	14	18	21	25	29	35	42	44	16	25	36	5	44
29	12	0	3	9	10	12	15	21	26	32	6	12	23	0	38
30	5	0	0	0	2	4	8	11	14	27	0	4	11	0	37
31	0	0	0	0	0	0	1	4	7	17	0	0	5	0	24
32	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
2	3	3	3	3	3	3	3	3	4	11	3	3	3	3	13
3	3	3	3	3	3	3	3	3	3	10	3	3	3	2	13
4	3	3	3	3	3	3	3	3	4	9	3	3	3	3	14
5	3	2	2	2	2	3	3	5	7	12	2	3	5	2	14
6	4	2	2	2	3	4	6	7	10	14	2	4	8	2	17
7	5	0	0	0	1	4	9	10	16	21	0	4	12	0	24
8	18	0	1	7	13	17	21	24	28	31	2	17	26	0	33
9	29	3	11	17	25	28	30	31	35	41	15	28	32	0	41
10	32	0	21	25	27	31	33	35	37	37	24	31	36	0	37
11	26	5	16	21	23	25	26	26	26	26	20	25	26	0	26
12	25	14	24	25	25	25	25	25	25	25	25	25	25	9	25
13	25	25	25	25	25	25	25	25	25	25	25	25	25	22	25
14	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24	24	24	24	24	24	24	18	24
16	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
19	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
20	26	26	26	26	26	26	26	26	26	26	26	26	26	19	26
21	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
22	26	25	26	26	26	26	26	26	26	26	26	26	26	23	26
23	32	31	32	32	32	32	32	32	32	32	32	32	32	24	32
24	35	34	35	35	35	35	35	35	35	35	35	35	35	28	35
25	39	29	34	39	39	39	39	39	39	39	39	39	39	13	39
26	36	20	31	35	36	36	36	36	36	36	33	36	36	2	36
27	37	24	32	36	37	37	37	37	37	37	35	37	37	5	37
28	37	21	31	34	36	37	38	38	38	38	32	37	38	4	38
29	35	1	20	24	30	35	37	38	38	38	23	35	38	0	38
30	31	0	2	13	24	30	33	37	40	40	9	30	37	0	40
31	21	0	0	6	16	20	27	33	36	39	0	20	34	0	40
32	4	0	0	0	1	8	11	18	21	25	0	8	19	0	28
33	0	0	0	0	0	0	3	8	14	24	0	0	11	0	27
34	0	0	0	0	0	0	0	3	16	22	0	0	6	0	25
35	0	0	0	0	0	0	0	0	0	8	0	0	0	0	14
36	0	0	0	0	0	0	0	0	0	16	0	0	0	0	25

*FIN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	26
21	0	0	0	0	0	0	0	5	16	40	0	0	12	0	48
22	2	0	0	0	0	0	0	18	31	73	0	0	24	0	80
23	5	0	0	0	0	5	14	40	51	59	0	5	43	0	80
24	10	0	0	0	0	7	13	24	40	66	0	7	26	0	75
25	0	0	0	0	0	0	0	7	17	47	0	0	12	0	58
26	0	0	0	0	0	0	0	0	7	27	0	0	0	0	43
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
9	0	0	0	0	0	0	0	1	3	14	0	0	3	0	20
10	0	0	0	0	0	0	0	1	6	9	0	0	3	0	10
11	1	0	0	0	0	1	2	4	8	16	0	1	6	0	31
12	3	0	0	0	2	3	5	8	16	24	0	3	13	0	36
13	9	0	0	1	4	9	13	20	29	40	0	9	27	0	50
14	14	0	3	6	9	14	24	32	42	58	4	14	39	0	70
15	26	0	9	13	20	26	39	48	68	94	11	26	64	0	104
16	29	7	11	15	21	29	33	40	49	63	13	29	44	4	66
17	39	7	11	24	29	39	44	51	58	69	17	39	55	4	74
18	35	14	18	25	30	35	38	46	63	80	24	35	51	1	93
19	54	16	33	38	44	54	64	73	78	98	37	54	73	8	105
20	55	14	31	42	49	55	64	70	81	94	38	55	79	6	107
21	66	24	46	53	62	66	69	74	89	119	50	66	82	19	159
22	69	26	40	53	61	69	77	97	115	123	43	69	112	18	150
23	86	20	45	61	81	86	89	111	125	149	55	84	119	10	168
24	87	37	51	62	70	87	95	109	125	141	57	87	123	32	148
25	63	24	30	45	53	63	67	78	91	111	38	63	85	17	129
26	42	10	23	29	37	42	50	59	70	85	28	42	66	5	105
27	20	2	6	13	16	20	25	32	47	62	11	20	41	0	74
28	11	0	1	5	8	11	13	20	28	39	3	11	26	0	48
29	1	0	0	0	0	1	3	10	18	36	0	1	15	0	60
30	0	0	0	0	0	0	2	9	17	34	0	0	11	0	42
31	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
9	0	0	0	0	0	0	0	1	3	14	0	0	3	0	20
10	0	0	0	0	0	0	0	1	6	9	0	0	3	0	11
11	1	0	0	0	0	0	1	2	4	8	16	0	1	6	0	31
12	4	0	0	0	0	2	4	8	9	16	28	0	4	15	0	37
13	12	0	0	0	1	4	12	14	20	29	37	1	12	27	0	37
14	18	1	4	7	10	18	25	34	38	38	38	6	18	38	0	38
15	37	6	9	14	25	37	40	40	40	40	40	15	37	40	0	40
16	34	11	17	25	34	34	34	34	34	34	34	22	34	34	5	34
17	31	12	27	31	31	31	31	31	31	31	31	31	31	31	6	31
18	37	23	31	37	37	37	37	37	37	37	37	37	37	37	18	37
19	41	29	41	41	41	41	41	41	41	41	41	41	41	41	11	41
20	46	41	46	46	46	46	46	46	46	46	46	46	46	46	37	46
21	58	58	58	58	58	58	58	58	58	58	58	58	58	58	35	58
22	50	46	48	48	48	50	50	50	50	50	49	50	50	43	50
23	48	43	48	48	48	48	48	48	48	48	48	48	48	35	48
24	52	52	52	52	52	52	52	52	52	52	52	52	52	47	52
25	48	46	46	47	48	48	48	48	48	48	47	48	48	40	48
26	48	39	43	45	47	48	48	48	48	48	44	48	48	36	48
27	45	32	37	39	42	45	45	48	49	50	38	45	49	28	50
28	35	18	22	25	31	35	38	42	47	48	24	35	46	10	50
29	20	5	10	13	17	20	22	26	30	45	12	20	28	1	46
30	9	0	3	5	8	9	11	15	21	35	3	9	17	0	40
31	2	0	0	0	1	2	3	6	12	15	0	2	9	0	23
32	0	0	0	0	0	0	0	0	0	5	0	0	0	0	14
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	24	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	12	27
5	27	22	27	27	27	27	27	27	27	27	27	27	27	8	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	24	27
7	32	31	32	32	32	32	32	32	32	32	32	32	32	30	32
8	35	26	35	35	35	35	35	35	35	35	35	35	35	7	35
9	39	18	29	36	39	39	39	39	39	39	36	39	39	7	39
10	36	25	28	33	36	36	36	36	36	36	30	36	36	18	36
11	35	4	27	30	32	35	36	36	36	36	27	35	36	0	36
12	32	0	15	23	30	32	34	36	37	37	20	32	37	0	37
13	24	0	6	15	21	24	31	35	37	37	9	24	36	0	37
14	21	0	0	0	10	21	25	29	33	35	0	21	31	0	37
15	1	0	0	0	0	1	13	20	28	35	0	1	24	0	39
16	0	0	0	0	0	0	0	4	13	21	0	0	9	0	22
17	0	0	0	0	0	0	0	0	1	12	0	0	0	0	18
18	0	0	0	0	0	0	0	0	2	9	0	0	0	0	12
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
21	3	3	3	3	3	3	3	3	3	4	3	3	3	3	4
22	2	2	2	2	2	2	2	2	3	6	2	2	3	2	7
23	2	2	2	2	2	2	2	2	2	5	2	2	2	2	7
24	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
25	2	2	2	2	2	2	2	2	3	4	2	2	3	2	6
26	2	2	2	2	2	2	3	4	6	9	2	2	5	2	11
27	7	2	2	4	5	7	9	12	14	18	3	7	13	2	20
28	15	0	2	6	10	15	17	22	27	30	3	15	25	0	31
29	25	0	10	18	22	25	27	31	35	38	16	25	34	0	40
30	32	2	14	26	30	32	33	35	40	43	23	32	38	0	43
31	28	8	17	23	26	28	29	31	31	31	20	28	31	0	31
32	25	14	24	25	25	25	25	25	25	25	25	25	25	4	25
33	25	22	25	25	25	25	25	25	25	25	25	25	25	12	25
34	25	25	25	25	25	25	25	25	25	25	25	25	25	22	25
35	24	22	24	24	24	24	24	24	24	24	24	24	24	8	24
36	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	0	0	0	0	0	0	0	0	0	10	0	0	0	0	46
19	0	0	0	0	0	0	0	0	0	27	0	0	0	0	37
20	0	0	0	0	0	0	1	11	20	28	0	0	16	0	39
21	2	0	0	0	0	2	5	15	25	55	0	2	20	0	89
22	1	0	0	0	0	1	9	16	55	61	0	1	36	0	68
23	25	0	0	0	14	25	35	54	71	88	0	25	61	0	98
24	33	0	0	12	20	33	41	49	66	88	7	33	59	0	100
25	7	0	0	0	0	7	13	25	38	55	0	7	32	0	63
26	0	0	0	0	0	0	0	5	22	32	0	0	18	0	56
27	0	0	0	0	0	0	0	0	0	3	0	0	0	0	22
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

OUAHIGOUYA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
11	0	0	0	0	0	0	0	1	4	10	0	0	3	0	28
12	0	0	0	0	0	0	0	3	4	13	0	0	4	0	19
13	1	0	0	0	0	1	3	8	12	22	0	1	10	0	28
14	3	0	0	0	1	3	7	12	16	21	0	3	15	0	32
15	14	0	0	1	5	14	18	25	37	51	1	14	32	0	55
16	20	0	2	11	15	20	23	28	39	63	10	20	34	0	75
17	30	4	11	17	24	30	31	45	54	64	14	30	51	1	70
18	34	6	16	22	28	34	38	47	59	72	19	34	53	3	80
19	45	11	26	32	38	45	48	54	66	86	27	45	60	1	88
20	47	8	21	34	40	47	50	63	80	94	28	47	75	2	126
21	65	18	30	38	51	65	74	90	98	118	34	65	97	16	152
22	63	19	40	52	56	63	66	79	97	128	50	63	87	14	144
23	75	15	37	50	70	75	85	96	125	163	47	75	114	4	173
24	52	18	36	41	50	52	63	76	90	111	41	52	88	10	121
25	45	10	21	28	39	45	50	62	80	94	24	45	74	5	112
26	30	11	14	21	26	30	39	56	67	71	20	30	62	4	92
27	15	0	3	7	11	15	22	36	47	58	6	15	44	0	62
28	7	0	0	0	4	7	9	15	18	39	0	7	16	0	46
29	1	0	0	0	0	1	3	8	18	23	0	1	15	0	36
30	0	0	0	0	0	0	0	3	6	14	0	0	4	0	16
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	1	3	0	0	0	0	6
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
11	0	0	0	0	0	0	0	1	4	11	0	0	3	0	24
12	0	0	0	0	0	0	1	4	7	19	0	0	5	0	28
13	2	0	0	0	0	2	5	8	12	23	0	2	10	0	28
14	3	0	0	0	1	3	7	12	16	32	0	3	15	0	35
15	16	0	0	3	8	16	22	30	37	37	1	16	36	0	37
16	20	0	3	11	15	20	26	32	32	32	10	20	32	0	32
17	31	5	14	20	29	31	31	31	31	31	18	31	31	2	31
18	30	15	26	30	30	30	30	30	30	30	30	30	30	8	30
19	35	18	35	35	35	35	35	35	35	35	35	35	35	7	35
20	40	35	40	40	40	40	40	40	40	40	40	40	40	14	40
21	49	49	49	49	49	49	49	49	49	49	49	49	49	27	49
22	50	39	47	50	50	50	50	50	50	50	50	50	50	27	50
23	49	39	45	48	49	49	49	49	49	49	47	49	49	32	49
24	52	41	51	52	52	52	52	52	52	52	51	52	52	22	52
25	45	26	35	40	44	45	45	46	46	46	38	45	46	15	46
26	42	14	33	38	39	42	43	44	45	45	35	42	45	13	45
27	37	9	16	22	32	37	39	40	44	46	21	37	43	7	47
28	12	0	2	6	8	12	15	21	32	43	5	12	30	0	45
29	4	0	0	0	1	4	8	16	22	34	0	4	21	0	36
30	0	0	0	0	0	0	1	4	11	16	0	0	6	0	17
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	21	21	21	21	21	21	21	21	21	21	21	21	21	19	21
2	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
3	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
4	21	21	21	21	21	21	21	21	21	21	21	21	21	17	21
5	21	21	21	21	21	21	21	21	21	21	21	21	21	19	21
6	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
7	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
8	30	28	30	30	30	30	30	30	30	30	30	30	30	11	30
9	33	26	31	33	33	33	33	33	33	33	32	33	33	13	33
10	30	26	30	30	30	30	30	30	30	30	30	30	30	10	30
11	31	15	26	28	31	31	31	31	31	31	27	31	31	0	31
12	32	3	22	28	29	32	32	32	32	32	27	32	32	0	32
13	31	6	17	23	26	31	33	34	34	34	22	31	34	0	34
14	30	0	14	20	25	30	33	35	35	35	19	30	35	0	35
15	20	0	0	3	11	20	25	33	36	37	0	20	34	0	37
16	11	0	0	0	3	11	16	19	27	30	0	11	21	0	31
17	0	0	0	0	0	0	0	6	14	21	0	0	11	0	25
18	0	0	0	0	0	0	0	0	2	12	0	0	0	0	17
19	0	0	0	0	0	0	0	0	0	6	0	0	0	0	16
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3	2	3	3	3	3	3	3	3	10	3	3	3	2	13
23	2	2	2	2	2	2	2	2	4	9	2	2	3	2	12
24	3	3	3	3	3	3	3	3	4	8	3	3	4	3	14
25	3	2	2	2	2	3	3	5	10	17	2	3	8	2	25
26	4	2	2	2	3	4	7	8	13	18	2	4	12	2	32
27	11	2	4	7	10	11	16	23	28	35	5	11	28	2	40
28	31	0	10	18	28	31	36	38	40	45	13	31	39	0	45
29	37	5	18	21	33	37	40	42	42	42	19	37	42	0	42
30	37	20	25	31	34	37	37	37	37	37	28	37	37	13	37
31	26	19	26	26	26	26	26	26	26	26	26	26	26	13	26
32	20	20	20	20	20	20	20	20	20	20	20	20	20	14	20
33	20	20	20	20	20	20	20	20	20	20	20	20	20	18	20
34	20	20	20	20	20	20	20	20	20	20	20	20	20	15	20
35	20	20	20	20	20	20	20	20	20	20	20	20	20	13	20
36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
18	0	0	0	0	0	0	0	0	0	7	0	0	0	0	13
19	0	0	0	0	0	0	0	5	15	31	0	0	8	0	47
20	0	0	0	0	0	0	5	12	35	52	0	0	31	0	58
21	4	0	0	0	0	4	12	37	50	71	0	4	44	0	104
22	6	0	0	0	3	6	13	23	44	72	0	6	36	0	84
23	20	0	0	0	6	20	30	45	68	108	0	20	59	0	122
24	1	0	0	0	0	1	4	16	36	62	0	1	29	0	72
25	0	0	0	0	0	0	0	2	22	41	0	0	16	0	60
26	0	0	0	0	0	0	0	0	10	24	0	0	2	0	30
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
6	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
8	0	0	0	0	0	0	0	2	6	10	0	0	3	0	11
9	2	0	0	0	0	2	4	8	17	20	0	2	11	0	35
10	0	0	0	0	0	0	3	6	10	37	0	0	7	0	47
11	7	0	0	2	5	7	20	31	38	54	0	7	32	0	65
12	13	0	2	4	8	13	23	25	30	38	3	13	27	6	41
13	17	0	4	7	12	17	25	31	36	45	5	17	33	0	48
14	20	0	6	10	14	20	25	30	39	54	8	20	33	7	60
15	41	4	10	19	26	41	49	59	78	92	13	41	71	23	100
16	35	9	18	23	28	35	41	61	71	80	20	35	64	16	85
17	49	13	20	29	41	49	55	64	76	85	22	49	71	21	87
18	39	5	15	26	33	39	51	59	66	107	18	39	60	15	109
19	51	9	20	26	38	51	55	63	70	92	23	51	67	13	104
20	57	14	31	39	52	57	66	72	89	105	32	57	75	0	113
21	47	12	21	32	40	47	75	97	116	143	26	47	106	22	157
22	74	15	43	59	68	74	94	111	126	163	54	74	113	30	180
23	86	33	35	54	63	86	95	109	132	163	44	86	116	42	172
24	99	22	49	77	86	99	109	123	127	144	59	99	125	18	172
25	79	23	39	56	69	79	95	105	110	125	42	79	107	35	137
26	61	30	41	49	59	61	65	68	87	110	44	61	72	59	125
27	40	11	20	23	29	40	53	61	69	81	21	40	63	14	91
28	16	0	1	8	13	16	23	28	39	57	3	16	28	16	68
29	8	0	0	0	1	8	12	17	22	27	0	8	21	0	28
30	0	0	0	0	0	0	6	15	24	32	0	0	18	0	40
31	0	0	0	0	0	0	0	0	5	24	0	0	0	0	26
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
35	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
6	0	0	0	0	0	0	0	0	0	8	0	0	0	0	10
7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
8	0	0	0	0	0	0	1	3	6	11	0	0	4	0	13
9	2	0	0	0	0	2	4	11	17	20	0	2	15	0	28
10	1	0	0	0	0	1	5	7	14	30	0	1	10	0	31
11	8	0	0	2	5	8	26	31	31	31	0	8	31	0	31
12	19	0	4	10	13	19	25	29	31	31	5	19	30	6	31
13	22	2	7	10	16	22	30	30	30	30	8	22	30	0	30
14	25	2	12	15	18	25	30	30	30	30	14	25	30	7	30
15	32	4	17	28	32	32	32	32	32	32	22	32	32	16	32
16	28	14	23	28	28	28	28	28	28	28	27	28	28	20	28
17	27	16	27	27	27	27	27	27	27	27	27	27	27	20	27
18	32	27	32	32	32	32	32	32	32	32	32	32	32	26	32
19	37	32	37	37	37	37	37	37	37	37	37	37	37	22	37
20	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
21	51	46	49	51	51	51	51	51	51	51	50	51	51	26	51
22	46	39	44	46	46	46	46	46	46	46	45	46	46	40	46
23	45	42	44	45	45	45	45	45	45	45	45	45	45	41	45
24	49	47	49	49	49	49	49	49	49	49	49	49	49	46	49
25	44	41	43	44	44	44	44	44	44	44	43	44	44	42	44
26	44	42	43	44	44	44	44	44	44	44	44	44	44	42	44
27	46	41	43	44	45	46	46	46	46	46	44	46	46	42	46
28	44	27	37	41	43	44	45	46	46	46	38	44	46	35	46
29	33	11	25	27	28	33	34	37	42	43	26	33	40	19	43
30	19	5	10	12	15	19	22	26	31	36	11	19	27	11	37
31	6	0	0	1	3	5	11	14	17	26	0	6	15	3	28
32	0	0	0	0	0	0	0	1	2	10	0	0	1	0	12
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
35	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	24	24	24	24	24	24	24	24	24	24	24	24	24	17	24
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	18	25	25	25	25	25	25	25	25	25	25	25	12	25
5	25	17	25	25	25	25	25	25	25	25	25	25	25	12	25
6	25	14	23	25	25	25	25	25	25	25	25	25	25	12	25
7	30	25	30	30	30	30	30	30	30	30	30	30	30	15	30
8	32	18	23	27	29	32	32	32	32	32	25	32	32	16	32
9	33	7	18	20	28	33	35	35	35	35	18	33	35	16	35
10	28	0	12	21	25	28	31	31	31	31	16	28	31	15	31
11	16	0	0	0	0	16	25	26	31	31	0	16	29	15	31
12	12	0	0	0	5	12	18	20	25	29	0	12	21	3	30
13	8	0	0	0	0	8	14	20	22	27	0	8	20	0	29
14	3	0	0	0	0	3	9	14	16	23	0	3	15	6	27
15	0	0	0	0	0	0	0	0	9	23	0	0	3	0	26
16	0	0	0	0	0	0	0	0	1	10	0	0	0	0	13
17	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3	3	3	3	3	3	3	3	4	6	3	3	3	3	7
22	2	2	2	2	2	2	2	2	3	7	2	2	2	2	8
23	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5
24	2	2	2	2	2	2	2	2	3	4	2	2	2	2	4
25	2	2	2	2	2	2	2	2	2	4	2	2	2	2	4
26	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
27	2	2	2	2	2	2	3	3	4	6	2	2	4	2	7
28	1	0	0	0	0	1	2	4	7	15	0	1	5	0	18
29	9	0	0	0	5	7	9	13	14	15	27	0	9	15	0	31
30	18	3	8	12	16	18	23	26	27	29	9	18	27	0	33
31	22	1	12	14	17	22	25	27	29	29	12	22	28	5	29
32	23	10	17	22	23	23	23	23	23	23	21	23	23	10	23
33	23	23	23	23	23	23	23	23	23	23	23	23	23	11	23
34	22	18	22	22	22	22	22	22	22	22	22	22	22	16	22
35	22	16	22	22	22	22	22	22	22	22	22	22	22	8	22
36	25	22	25	25	25	25	25	25	25	25	25	25	25	18	25

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	19	37	0	0	3	0	44
18	0	0	0	0	0	0	0	10	24	49	0	0	12	0	62
19	0	0	0	0	0	0	0	9	21	38	0	0	17	0	60
20	9	0	0	0	0	9	17	27	43	61	0	9	31	0	62
21	1	0	0	0	0	1	20	37	65	96	0	1	45	0	100
22	13	0	0	0	4	13	36	44	62	106	0	13	51	0	129
23	21	0	0	3	10	21	45	50	71	111	0	21	54	11	122
24	43	0	0	16	34	43	61	69	82	99	1	43	74	0	126
25	27	0	0	0	13	27	44	55	60	69	0	27	58	0	70
26	13	0	0	0	5	13	20	23	42	56	0	13	27	21	71
27	0	0	0	0	0	0	1	3	16	37	0	0	9	0	44
28	0	0	0	0	0	0	0	0	0	10	0	0	0	0	14
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 6 MALI - Analyse fréquentielle des principaux termes du bilan hydrique.

MALI - Frequential analysis of main waterbalance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bafoulabé
Bamako
Banamba
Bougouni
Diéma
Douentza
Gao
Hombori
Kayes
Kéniéba
Kita
Koutiala
Ménaka
Mopti
Nara
Niafounké
Niono
Nioro du Sahel
San
Ségou
Sikasso
Sokolo
Tombouctou

BAFOULABE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	6	11	0	0	0	0	13
13	0	0	0	0	0	0	0	0	2	10	0	0	1	0	17
14	2	0	0	0	1	1	2	5	10	16	0	1	7	5	27
15	10	0	0	2	5	9	17	21	39	47	0	9	25	15	54
16	18	0	6	10	13	17	20	33	54	63	6	17	40	0	70
17	32	11	19	21	27	32	37	51	70	102	20	32	58	25	123
18	40	6	11	19	28	39	46	52	79	92	14	39	66	41	109
19	54	8	29	42	50	53	59	70	85	114	35	53	79	19	131
20	62	20	38	42	51	62	68	77	87	99	40	62	79	32	121
21	74	12	27	49	58	69	78	85	97	155	29	69	92	75	180
22	74	9	32	58	68	72	90	100	110	136	36	72	101	34	163
23	89	22	52	63	80	89	116	145	168	211	55	89	154	72	243
24	103	19	64	73	86	102	113	123	143	167	70	102	131	48	187
25	79	21	40	53	71	77	84	98	114	154	44	77	106	20	170
26	46	20	23	28	35	45	51	59	85	113	24	45	69	37	149
27	47	1	5	18	34	43	61	74	85	101	6	43	78	0	141
28	25	0	3	8	18	24	34	48	71	94	5	24	50	4	98
29	3	0	0	0	2	2	7	10	19	26	0	2	13	1	39
30	0	0	0	0	0	0	1	3	11	28	0	0	9	0	34
31	0	0	0	0	0	0	0	0	1	7	0	0	0	0	14
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	6	11	0	0	0	0	13
13	0	0	0	0	0	0	0	0	2	10	0	0	1	0	17
14	2	0	0	0	1	1	2	5	12	19	0	1	7	5	34
15	10	0	0	2	5	9	17	21	38	40	0	9	25	15	40
16	21	0	7	11	18	20	26	32	34	34	9	20	34	0	34
17	32	11	19	26	32	32	32	32	32	32	21	32	32	17	32
18	37	21	29	37	37	37	37	37	37	37	32	37	37	21	37
19	40	24	40	40	40	40	40	40	40	40	40	40	40	20	40
20	43	34	43	43	43	43	43	43	43	43	43	43	43	25	43
21	53	31	52	53	53	53	53	53	53	53	52	53	53	26	53
22	47	35	45	47	47	47	47	47	47	47	45	47	47	24	47
23	44	40	44	44	44	44	44	44	44	44	44	44	44	29	44
24	49	47	49	49	49	49	49	49	49	49	49	49	49	48	49
25	45	43	45	45	45	45	45	45	45	45	45	45	45	42	45
26	46	42	44	45	45	46	46	46	46	46	44	46	46	42	46
27	46	33	40	42	45	46	47	47	47	47	41	46	47	31	47
28	43	23	31	39	42	43	45	48	49	49	36	43	48	32	49
29	34	8	20	26	28	33	36	41	42	44	22	33	41	18	45
30	18	0	10	11	14	17	21	23	28	34	11	17	26	5	39
31	7	0	0	1	3	6	8	11	15	18	0	6	13	0	20
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
33	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	12	25
5	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
7	31	30	31	31	31	31	31	31	31	31	31	31	31	30	31
8	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
9	39	39	39	39	39	39	39	39	39	39	39	39	39	35	39
10	36	32	36	36	36	36	36	36	36	36	36	36	36	31	36
11	37	36	37	37	37	37	37	37	37	37	37	37	37	36	37
12	37	23	30	37	37	37	37	37	37	37	34	37	37	15	37
13	38	20	34	36	38	38	38	38	38	38	35	38	38	13	38
14	36	11	26	31	35	36	37	38	38	38	27	36	38	1	38
15	30	0	1	14	21	27	34	36	39	40	6	27	37	0	40
16	13	0	0	0	6	12	15	21	26	32	0	12	23	3	34
17	0	0	0	0	0	0	0	0	11	14	0	0	5	0	21
18	0	0	0	0	0	0	0	0	4	11	0	0	0	0	15
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
21	3	3	3	3	3	3	3	3	3	5	3	3	3	3	24
22	2	2	2	2	2	2	2	2	3	5	2	2	2	2	14
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
25	2	2	2	2	2	2	2	2	2	4	2	2	2	2	4
26	2	2	2	2	2	2	3	3	4	4	2	2	3	2	5
27	3	2	2	2	2	2	4	6	9	10	2	2	7	2	15
28	7	2	2	2	4	6	9	9	15	27	2	6	11	4	28
29	12	1	4	5	9	12	16	19	24	32	5	12	21	9	38
30	26	4	14	17	22	25	27	32	33	41	15	25	33	17	44
31	26	13	18	20	24	26	28	31	34	34	18	26	32	18	34
32	28	23	28	28	28	28	28	28	28	28	28	28	28	17	28
33	22	17	21	22	22	22	22	22	22	22	22	22	22	17	22
34	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
35	22	21	22	22	22	22	22	22	22	22	22	22	22	16	22
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
18	0	0	0	0	0	0	0	0	0	18	0	0	0	0	49
19	0	0	0	0	0	0	0	0	13	29	0	0	7	0	53
20	0	0	0	0	0	0	1	14	27	46	0	0	22	9	67
21	9	0	0	0	4	8	15	32	43	72	0	8	39	53	136
22	16	0	0	0	4	15	23	36	51	63	0	15	45	6	89
23	32	0	0	5	20	31	51	88	111	162	0	31	101	45	196
24	54	0	5	27	40	53	60	71	88	118	11	53	78	17	136
25	26	0	0	2	21	25	32	35	64	98	0	25	52	0	115
26	0	0	0	0	0	0	1	9	39	57	0	0	19	0	101
27	0	0	0	0	0	0	4	15	29	55	0	0	25	0	83
28	0	0	0	0	0	0	0	0	11	39	0	0	0	0	50
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BAMAKO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	5	0	0	0	0	6
9	0	0	0	0	0	0	0	0	3	4	0	0	2	0	8
10	0	0	0	0	0	0	0	0	2	13	0	0	1	0	18
11	1	0	0	0	0	0	2	2	4	10	0	0	4	0	16
12	4	0	0	0	1	3	6	8	10	25	0	3	9	0	35
13	7	0	0	1	4	7	12	20	26	42	0	7	23	0	49
14	17	1	5	6	8	15	20	23	32	39	5	15	28	0	50
15	20	0	2	5	13	20	26	35	51	60	3	20	39	0	69
16	31	1	7	19	28	30	38	50	70	98	14	30	62	0	114
17	44	11	16	23	30	43	49	56	65	83	21	43	60	6	90
18	51	12	28	33	39	50	56	63	75	85	29	50	69	2	99
19	62	23	36	51	56	60	71	81	92	101	42	60	90	9	109
20	72	18	42	48	57	71	81	87	95	105	45	71	93	12	139
21	88	43	58	70	79	88	103	126	132	156	61	88	129	38	184
22	93	27	47	63	85	91	102	109	125	175	52	91	121	8	186
23	115	43	73	78	86	112	125	133	149	175	76	112	146	25	183
24	100	54	59	71	83	96	118	137	162	202	66	96	152	39	210
25	90	33	61	72	77	87	97	108	123	158	68	87	117	24	175
26	60	19	35	41	48	59	65	76	84	120	39	59	80	13	147
27	32	8	14	21	27	32	45	50	80	88	16	32	75	1	103
28	27	0	5	16	21	26	36	42	50	86	13	26	45	0	114
29	8	0	0	0	2	7	11	15	29	42	0	7	27	0	45
30	4	0	0	0	2	3	5	9	18	27	0	3	12	0	37
31	0	0	0	0	0	0	0	0	5	12	0	0	2	0	14
32	0	0	0	0	0	0	0	0	0	4	0	0	0	0	21
33	0	0	0	0	0	0	0	0	0	3	0	0	0	0	14
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	5	0	0	0	0	6
9	0	0	0	0	0	0	0	0	3	4	0	0	2	0	8
10	0	0	0	0	0	0	0	0	2	13	0	0	1	0	18
11	1	0	0	0	0	0	2	3	4	10	0	0	4	0	16
12	5	0	0	0	2	4	7	9	12	31	0	4	10	0	32
13	9	0	0	3	5	8	16	23	28	33	1	8	26	0	33
14	18	1	5	6	11	17	23	29	33	33	6	17	32	0	33
15	24	0	3	13	17	24	32	35	35	35	5	24	35	0	35
16	30	5	17	26	30	30	30	30	30	30	23	30	30	0	30
17	34	22	32	34	34	34	34	34	34	34	34	34	34	17	34
18	38	28	38	38	38	38	38	38	38	38	38	38	38	2	38
19	42	38	42	42	42	42	42	42	42	42	42	42	42	26	42
20	47	45	47	47	47	47	47	47	47	47	47	47	47	44	47
21	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
22	45	43	45	45	45	45	45	45	45	45	45	45	45	40	45
23	44	44	44	44	44	44	44	44	44	44	44	44	44	41	44
24	47	47	47	47	47	47	47	47	47	47	47	47	47	46	47
25	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43
26	42	40	42	42	42	42	42	42	42	42	42	42	42	40	42
27	44	39	42	42	43	44	44	44	44	44	42	44	44	34	44
28	43	32	38	40	41	42	44	45	45	45	39	42	45	26	45
29	36	22	26	28	32	36	40	41	43	44	27	36	43	12	44
30	24	7	11	15	19	24	28	29	39	43	13	24	33	2	43
31	12	0	2	5	7	11	13	16	22	30	3	11	19	0	33
32	0	0	0	0	0	0	1	4	8	21	0	0	8	0	29
33	0	0	0	0	0	0	0	0	2	15	0	0	0	0	20
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	20	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	29	28	29	29	29	29	29	29	29	29	29	29	29	22	29
4	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
5	26	25	26	26	26	26	26	26	26	26	26	26	26	23	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	24	26
7	31	29	31	31	31	31	31	31	31	31	31	31	31	22	31
8	34	27	34	34	34	34	34	34	34	34	34	34	34	22	34
9	36	28	32	34	34	36	36	36	36	36	33	36	36	17	36
10	32	13	28	31	32	32	32	32	32	32	30	32	32	7	32
11	30	14	25	27	29	30	31	31	31	31	26	30	31	3	31
12	27	0	12	22	25	27	29	31	32	32	20	27	32	0	32
13	24	0	1	8	12	22	26	29	32	33	4	22	30	0	33
14	14	0	0	2	6	14	19	24	27	29	0	14	27	0	32
15	10	0	0	0	0	9	15	20	30	34	0	9	25	0	35
16	0	0	0	0	0	0	0	1	8	20	0	0	6	0	24
17	0	0	0	0	0	0	0	0	0	7	0	0	0	0	11
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
21	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
27	2	2	2	2	2	2	2	3	4	5	2	2	4	2	6
28	4	2	2	2	2	4	6	6	7	10	2	4	7	2	14
29	8	0	0	1	3	6	11	13	17	18	1	6	16	0	21
30	19	0	2	11	14	19	22	26	29	32	7	19	29	0	36
31	21	1	9	15	18	21	24	27	30	34	11	21	29	0	34
32	29	0	19	22	26	28	29	29	29	29	20	28	29	0	29
33	24	3	18	24	24	24	24	24	24	24	21	24	24	0	24
34	23	19	23	23	23	23	23	23	23	23	23	23	23	3	23
35	23	22	23	23	23	23	23	23	23	23	23	23	23	10	23
36	26	25	26	26	26	26	26	26	26	26	26	26	26	23	26

RETN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	0	0	0	0	18
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
18	0	0	0	0	0	0	0	0	1	25	0	0	0	0	42
19	0	0	0	0	0	0	2	12	26	57	0	0	19	0	62
20	3	0	0	0	0	2	20	29	36	45	0	2	34	0	57
21	39	0	0	5	28	37	50	64	82	103	0	37	79	0	129
22	39	0	0	10	27	38	47	57	73	124	1	38	70	0	134
23	60	0	11	31	38	59	74	83	103	127	27	59	100	0	132
24	55	4	13	21	37	51	74	92	117	158	15	51	107	0	166
25	42	0	13	24	29	39	49	59	75	110	21	39	66	0	127
26	11	0	0	0	2	9	19	32	38	77	0	9	36	0	103
27	0	0	0	0	0	0	2	6	35	40	0	0	17	0	45
28	0	0	0	0	0	0	0	0	0	16	0	0	0	0	69
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SAVANNA

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	VERITAB	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	13
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
10	0	0	0	0	0	0	0	0	3	7	0	0	1	0	26
11	0	0	0	0	0	0	0	0	2	4	0	0	0	0	7
12	0	0	0	0	0	0	0	0	6	14	0	0	2	0	26
13	0	0	0	0	0	2	5	10	17	22	0	2	13	0	31
14	1	0	0	0	0	1	1	6	15	23	0	1	11	0	26
15	6	0	0	1	3	4	10	13	25	35	0	4	18	0	41
16	20	0	2	5	7	13	25	31	50	63	4	19	39	4	75
17	31	2	8	14	21	30	34	44	54	71	10	30	49	3	77
18	27	6	13	22	26	26	30	37	47	59	18	26	40	19	83
19	52	8	21	35	41	50	51	72	92	90	29	50	76	10	126
20	60	21	27	43	50	59	71	84	97	104	36	60	85	8	117
21	73	27	31	41	55	70	85	99	107	124	35	70	101	59	144
22	69	14	34	55	63	66	105	118	124	139	45	86	118	35	144
23	91	37	55	69	77	93	104	116	135	146	63	90	125	58	196
24	76	27	35	55	59	69	75	90	116	137	50	69	96	16	185
25	68	13	37	67	62	67	71	79	98	125	44	67	82	37	162
26	39	14	23	28	32	39	47	56	63	72	24	39	62	21	111
27	21	0	4	9	11	21	27	35	44	80	6	21	37	5	95
28	10	0	3	6	6	10	14	24	39	53	3	10	29	0	69
29	3	0	0	0	0	0	0	0	10	28	0	0	5	2	34
30	3	0	0	0	0	0	0	0	6	21	0	0	3	0	49
31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	14
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION PELLE EN MM EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	VERITAB	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	1	9	0	0	0	0	17
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
10	0	0	0	0	0	0	0	0	3	15	0	0	1	0	26
11	0	0	0	0	0	0	0	0	2	4	0	0	0	0	7
12	0	0	0	0	0	0	0	0	4	16	0	0	2	0	27
13	3	0	0	0	0	2	5	10	17	22	0	2	13	0	31
14	1	0	0	0	0	1	3	10	17	25	0	1	14	0	29
15	4	0	0	1	3	6	10	13	25	35	0	4	18	0	38
16	26	0	3	6	9	21	27	31	33	33	4	21	33	4	33
17	32	8	14	26	31	32	32	32	32	32	20	32	32	6	32
18	31	9	23	29	31	31	31	31	31	31	26	31	31	15	31
19	35	16	25	35	35	35	35	35	35	35	35	35	35	22	35
20	39	36	39	39	39	39	39	39	39	39	39	39	39	22	39
21	48	48	48	48	48	48	48	48	48	48	48	48	48	43	48
22	50	41	47	50	50	50	50	50	50	50	50	50	50	32	50
23	48	45	47	48	48	48	48	48	48	48	48	48	48	43	48
24	51	41	50	51	51	51	51	51	51	51	51	51	51	41	51
25	47	36	45	47	47	47	47	47	47	47	46	47	47	36	47
26	45	25	40	42	43	45	46	46	46	46	41	45	46	28	46
27	34	11	15	25	33	37	42	45	48	48	22	37	47	22	48
28	24	2	6	9	13	22	32	37	44	46	7	22	41	2	46
29	0	0	0	0	0	0	6	12	31	34	0	0	17	15	40
30	0	0	0	0	0	0	0	2	8	21	0	0	3	0	37
31	0	0	0	0	0	0	0	0	0	12	0	0	0	0	28
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25
2	26	26	26	26	26	26	26	26	26	26	26	26	26	20	26
3	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
4	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
5	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	32	29	32	32	32	32	32	32	32	32	32	32	32	16	32
8	35	17	31	35	35	35	35	35	35	35	33	35	35	24	35
9	38	26	37	38	38	38	38	38	38	38	38	38	38	16	38
10	35	10	30	34	35	35	35	35	35	35	33	35	35	6	35
11	34	27	30	34	34	34	34	34	34	34	33	34	34	23	34
12	35	14	30	34	35	35	35	35	35	35	31	35	35	2	35
13	32	9	15	23	28	31	34	35	35	35	20	31	35	0	35
14	34	6	13	21	29	34	34	35	35	35	18	34	35	12	35
15	33	0	6	19	25	33	34	35	38	38	12	33	37	13	38
16	9	0	0	0	4	8	22	25	28	32	0	8	27	1	33
17	0	0	0	0	0	0	0	2	12	22	0	0	6	9	25
18	0	0	0	0	0	0	0	0	4	11	0	0	2	0	21
19	0	0	0	0	0	0	0	0	0	15	0	0	0	0	18
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2	2	2	2	2	2	2	2	2	6	2	2	2	2	11
23	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
24	3	3	3	3	3	3	3	3	3	7	3	3	3	3	12
25	2	2	2	2	2	2	2	2	3	11	2	2	2	2	13
26	3	2	2	2	2	3	4	5	7	12	2	3	6	2	22
27	12	2	2	3	6	11	14	17	27	35	2	11	25	2	38
28	22	0	1	5	13	20	30	34	39	42	3	20	38	0	44
29	37	2	10	25	33	37	43	43	43	43	11	37	43	3	43
30	40	3	23	37	39	40	40	40	40	40	34	40	40	15	40
31	31	2	31	31	31	31	31	31	31	31	31	31	31	15	31
32	25	21	25	25	25	25	25	25	25	25	25	25	25	16	25
33	25	21	25	25	25	25	25	25	25	25	25	25	25	8	25
34	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
35	23	21	23	23	23	23	23	23	23	23	23	23	23	20	23
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

$FIN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
18	0	0	0	0	0	0	0	0	0	12	0	0	0	0	28
19	0	0	0	0	0	0	3	10	23	55	0	0	15	0	61
20	6	0	0	0	0	5	20	24	43	56	0	5	29	0	74
21	19	0	0	0	4	17	32	45	63	77	0	17	56	7	92
22	40	0	0	2	11	36	44	64	73	87	0	36	69	11	95
23	39	0	0	15	25	37	53	65	84	96	6	37	68	16	136
24	19	0	0	4	8	18	25	42	65	89	0	18	46	0	136
25	14	0	0	2	9	14	19	24	37	62	0	14	29	0	104
26	0	0	0	0	0	0	1	2	16	25	0	0	12	0	64
27	0	0	0	0	0	0	0	0	0	20	0	0	0	0	40
28	0	0	0	0	0	0	0	0	0	1	0	0	0	0	19
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUGOUNI

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

REJET	ANNEE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
8	0	0	0	0	0	0	0	0	2	10	0	0	0	0	13
9	1	0	0	0	0	1	2	6	10	24	0	1	7	0	29
10	0	0	0	0	0	0	1	5	14	18	0	0	8	0	28
11	2	0	0	0	0	2	5	10	16	26	0	2	11	0	28
12	11	0	0	3	7	11	14	19	30	38	1	11	24	0	50
13	11	2	2	5	7	11	17	29	38	64	3	11	33	0	80
14	24	4	13	17	23	29	38	48	56	69	14	29	50	1	83
15	30	6	10	12	22	30	40	51	66	77	10	30	55	0	94
16	42	12	17	27	34	42	46	58	63	81	19	42	57	8	98
17	44	24	33	36	43	46	54	70	82	106	36	46	73	9	120
18	44	24	31	35	41	44	55	67	81	96	33	48	73	18	103
19	54	11	33	41	49	55	75	82	88	157	31	56	86	4	169
20	68	24	38	46	56	68	85	117	127	146	40	68	121	20	165
21	68	56	72	77	88	98	103	133	149	210	74	98	146	34	279
22	105	48	61	74	91	105	126	142	155	167	66	105	146	24	193
23	93	48	58	75	79	94	112	147	153	196	64	93	150	31	229
24	116	58	72	83	100	116	127	138	152	187	76	116	147	33	234
25	98	37	69	71	93	98	100	115	141	159	59	98	119	27	196
26	94	36	58	65	84	94	98	97	112	154	42	74	105	25	168
27	36	8	13	27	31	35	44	59	77	103	23	36	65	3	119
28	60	16	16	26	30	40	44	49	65	93	15	40	57	0	126
29	29	0	2	7	12	22	29	41	52	68	5	22	48	0	79
30	8	0	1	1	4	6	10	18	24	46	0	6	21	0	56
31	1	0	0	0	0	1	4	6	10	21	0	1	8	0	29
32	0	0	0	0	0	0	0	0	5	11	0	0	1	0	13
33	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION POTELLE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

REJET	ANNEE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	5	0	0	0	0	7
8	0	0	0	0	0	0	0	0	2	10	0	0	0	0	13
9	1	0	0	0	0	1	2	6	10	24	0	1	7	0	29
10	0	0	0	0	0	0	2	6	14	18	0	0	8	0	28
11	4	0	0	0	1	4	6	11	14	27	0	4	12	0	29
12	12	0	0	2	7	12	16	22	30	30	1	12	27	0	30
13	14	0	3	6	9	14	21	29	29	29	5	14	29	0	29
14	29	15	15	24	29	29	29	29	29	29	21	29	29	1	29
15	36	16	13	34	36	36	36	36	36	36	24	36	36	0	36
16	37	16	35	37	37	37	37	37	37	37	37	37	37	11	37
17	39	39	39	39	39	39	39	39	39	39	39	39	39	35	39
18	46	42	46	46	46	46	46	46	46	46	46	46	46	37	46
19	45	37	41	44	45	45	45	45	45	45	43	45	45	24	45
20	44	41	42	44	44	44	44	44	44	44	43	44	44	28	44
21	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
22	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
23	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
24	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
25	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
26	42	42	42	42	42	42	42	42	42	42	42	42	42	40	42
27	44	41	43	43	44	44	44	44	44	44	43	44	44	40	44
28	46	36	43	43	46	46	47	47	47	47	42	46	47	31	47
29	43	32	39	46	41	43	45	47	43	49	31	43	48	15	49
30	41	11	14	21	26	41	34	43	47	49	16	31	44	2	49
31	20	1	6	10	16	20	22	25	29	36	8	20	28	0	37
32	6	0	0	0	2	6	11	14	17	21	0	6	15	0	26
33	0	0	0	0	0	0	1	3	6	10	0	0	3	0	10
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

VARIABLE : DEFICIT HYDRIQUE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
3	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25
4	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
5	24	24	24	24	24	24	24	24	24	24	24	24	24	9	24
6	23	23	23	23	23	23	23	23	23	23	23	23	23	9	23
7	27	21	25	27	27	27	27	27	27	27	27	27	27	15	27
8	30	17	26	30	30	30	30	30	30	30	27	30	30	7	30
9	31	9	20	25	28	31	32	32	32	32	24	31	32	0	32
10	30	7	15	21	25	30	30	30	30	30	17	30	30	0	30
11	24	1	9	17	20	24	27	30	30	30	13	24	30	0	30
12	17	0	0	5	13	17	22	26	24	30	0	17	26	0	30
13	13	0	0	0	0	0	13	19	22	24	29	0	13	23	0	29
14	8	0	0	0	0	0	0	0	4	10	18	0	0	7	0	26
15	6	0	0	0	0	0	0	0	0	17	25	0	0	4	0	28
16	3	0	0	0	0	0	0	0	0	0	15	0	0	0	0	19
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	2	2	2	2	2	2	2	2	2	3	5	2	2	3	2	7
19	3	2	2	2	2	2	2	2	3	5	8	2	2	4	2	13
20	3	2	2	2	2	2	2	2	3	4	2	2	2	2	2	5
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
27	2	2	2	2	2	2	2	2	3	3	5	2	2	3	2	5
28	3	2	2	2	2	3	3	4	5	7	12	2	3	6	2	14
29	4	2	2	2	3	4	4	6	11	21	24	3	8	15	2	32
30	17	0	1	5	10	17	21	25	33	37	3	17	30	0	38
31	17	1	5	11	15	17	21	26	29	36	8	17	28	0	37
32	25	3	13	19	23	25	29	32	32	32	14	25	32	0	32
33	26	14	23	23	25	25	25	25	25	36	22	26	26	5	26
34	22	21	22	22	22	22	22	22	22	22	22	22	22	7	22
35	21	20	21	21	21	21	21	21	21	21	21	21	21	3	21
36	24	24	24	24	24	24	24	24	24	24	24	24	24	8	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	11	0	0	0	0	14
17	0	0	0	0	0	0	0	0	1	23	0	0	0	0	41
18	0	0	0	0	0	0	0	3	15	35	0	0	7	0	54
19	0	0	0	0	0	0	0	10	33	95	0	0	12	0	119
20	1	0	0	0	0	1	21	45	74	101	0	1	61	0	119
21	44	0	0	13	28	44	64	83	113	162	4	44	94	0	231
22	57	0	1	24	43	57	74	85	106	115	12	57	94	0	145
23	46	6	15	29	36	46	70	103	111	154	18	46	107	0	183
24	76	18	32	52	56	76	84	97	112	147	36	76	106	0	194
25	65	6	9	24	37	65	66	70	96	114	10	65	74	0	151
26	30	0	0	12	20	30	48	55	69	112	0	30	63	0	126
27	0	0	0	0	0	0	0	0	13	34	61	0	0	17	0	76
28	0	0	0	0	0	0	0	0	3	13	37	0	0	7	0	73
29	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	31
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DIEMA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 25 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	21
12	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
13	0	0	0	0	0	0	0	1	5	7	0	0	2	0	8
14	0	0	0	0	0	0	0	0	2	3	0	0	1	0	6
15	0	0	0	0	0	0	4	7	12	16	0	0	9	14	19
16	10	0	0	1	3	4	14	19	24	28	0	9	21	13	30
17	19	0	6	8	11	15	26	31	48	58	8	15	33	1	67
18	28	0	5	9	17	27	30	34	47	50	7	27	40	16	52
19	32	6	14	24	31	32	37	44	55	67	17	32	48	6	72
20	44	18	28	35	43	48	63	70	81	89	33	48	75	38	91
21	65	2	30	36	50	63	81	86	114	134	32	63	90	16	139
22	67	27	46	49	56	64	77	90	107	115	48	64	98	26	116
23	82	14	44	48	59	61	79	103	114	124	47	61	107	67	129
24	83	11	34	41	55	60	76	88	111	136	35	60	99	38	152
25	68	10	32	42	46	47	59	66	89	106	39	47	70	4	118
26	62	5	18	26	31	37	51	60	76	79	22	37	67	12	93
27	21	0	1	3	13	21	24	26	38	54	3	21	27	9	67
28	11	0	0	0	0	10	12	22	36	51	0	10	31	0	62
29	5	0	0	0	1	4	7	15	23	32	0	4	17	0	38
30	0	0	0	0	0	0	0	0	1	7	0	0	0	0	9
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 25 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	21
12	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
13	0	0	0	0	0	0	0	1	5	7	0	0	2	0	8
14	0	0	0	0	0	0	0	1	2	3	0	0	2	0	6
15	0	0	0	0	0	0	4	6	12	16	0	0	9	14	19
16	10	0	0	1	7	4	14	19	24	30	0	9	21	13	33
17	19	0	6	8	11	15	26	31	36	36	8	15	33	1	36
18	31	1	9	11	29	31	32	32	32	32	10	31	32	16	32
19	30	9	20	27	30	30	30	30	30	30	23	30	30	6	30
20	31	10	31	31	31	31	31	31	31	31	31	31	31	25	31
21	40	25	40	40	40	40	40	40	40	40	40	40	40	30	40
22	41	36	41	41	41	41	41	41	41	41	41	41	41	34	41
23	49	44	49	49	49	49	49	49	49	49	49	49	49	45	49
24	53	40	50	52	53	53	53	53	53	53	51	53	53	46	53
25	48	35	43	45	48	48	49	49	49	49	44	48	49	30	49
26	44	15	35	41	43	45	44	49	49	49	39	45	49	17	49
27	35	0	11	18	30	33	38	43	45	50	13	33	44	9	50
28	19	0	3	8	11	15	23	31	40	48	6	15	33	0	48
29	13	0	0	0	4	11	17	21	32	36	0	11	23	0	39
30	0	0	0	0	0	0	0	1	2	7	0	0	1	0	9
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 25 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
4	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
7	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
8	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
9	40	38	40	40	40	40	40	40	40	40	40	40	40	38	40
10	37	36	37	37	37	37	37	37	37	37	37	37	37	36	37
11	37	12	37	37	37	37	37	37	37	37	37	37	37	4	37
12	38	22	37	38	38	38	38	38	38	38	38	38	38	25	38
13	39	15	33	36	39	39	39	39	39	39	35	39	39	16	39
14	40	21	37	38	40	40	40	40	40	40	37	40	40	25	40
15	40	18	29	31	37	39	42	42	42	42	30	39	42	7	42
16	25	3	11	14	20	24	29	31	36	37	12	24	34	2	37
17	16	0	0	2	8	16	24	25	29	33	0	16	26	0	35
18	0	0	0	0	0	0	2	5	21	25	0	0	13	0	28
19	0	0	0	0	0	0	0	0	8	15	0	0	2	0	18
20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
21	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
24	3	3	3	3	3	3	3	3	5	9	3	3	3	3	12
25	3	2	2	2	2	2	3	3	7	13	2	2	4	3	16
26	5	2	2	2	2	4	8	9	15	24	2	4	10	2	30
27	17	2	4	7	13	17	22	28	38	43	6	17	31	5	48
28	29	0	3	10	18	28	36	37	44	47	7	28	38	14	48
29	30	0	7	19	26	30	38	41	43	43	13	30	42	7	43
30	40	28	35	39	39	40	40	40	40	40	37	40	40	32	40
31	30	14	29	30	30	30	30	30	30	30	30	30	30	19	30
32	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
33	23	19	23	23	23	23	23	23	23	23	23	23	23	21	23
34	22	20	22	22	22	22	22	22	22	22	22	22	22	20	22
35	22	13	22	22	22	22	22	22	22	22	22	22	22	13	22
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

FIN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 25 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	9	0	0	0	0	15
20	0	0	0	0	0	0	3	8	23	37	0	0	12	0	40
21	26	0	0	0	15	24	31	38	54	67	0	24	45	0	88
22	21	0	2	6	16	19	31	36	59	73	5	19	39	0	75
23	18	0	0	3	11	17	38	56	70	77	0	17	62	33	83
24	9	0	0	0	2	4	23	39	62	87	0	8	50	9	94
25	0	0	0	0	0	0	3	9	25	45	0	0	11	0	52
26	0	0	0	0	0	0	0	2	21	30	0	0	9	0	38
27	0	0	0	0	0	0	0	0	0	3	0	0	0	0	14
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DOUENTZA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
12	0	0	0	0	0	0	0	0	0	7	0	0	0	0	17
13	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
14	0	0	0	0	0	0	0	2	6	21	0	0	3	0	24
15	1	0	0	0	0	0	7	12	15	28	0	0	14	0	41
16	12	0	0	3	5	11	14	19	25	28	1	11	24	0	35
17	17	0	1	5	11	17	22	30	34	45	3	17	32	0	51
18	18	1	5	11	14	18	25	32	38	53	8	18	35	0	58
19	22	4	7	12	18	21	26	31	36	53	12	21	33	0	64
20	38	6	14	23	28	37	48	57	63	76	16	37	59	2	109
21	50	21	27	34	42	50	55	68	89	94	30	50	75	10	98
22	51	19	25	36	44	50	61	73	88	103	33	50	80	8	115
23	57	11	29	37	45	56	63	74	84	91	34	56	80	7	113
24	42	10	22	28	34	41	45	61	72	82	27	41	62	3	85
25	36	7	13	18	23	34	37	45	52	62	15	34	48	3	67
26	26	1	7	13	17	25	32	41	49	64	12	25	44	0	71
27	19	0	0	2	8	17	21	25	36	42	0	17	31	0	48
28	3	0	0	0	0	2	7	17	25	33	0	2	22	0	46
29	0	0	0	0	0	0	2	3	5	6	0	0	4	0	7
30	0	0	0	0	0	0	0	0	0	4	0	0	0	0	10
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
2	24	24	24	24	24	24	24	24	24	24	24	24	24	22	24
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	21	25
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	19	26
7	31	31	31	31	31	31	31	31	31	31	31	31	31	28	31
8	34	34	34	34	34	34	34	34	34	34	34	34	34	28	34
9	37	36	37	37	37	37	37	37	37	37	37	37	37	18	37
10	35	32	35	35	35	35	35	35	35	35	35	35	35	16	35
11	35	27	35	35	35	35	35	35	35	35	35	35	35	16	35
12	35	18	34	35	35	35	35	35	35	35	35	35	35	13	35
13	36	28	36	36	36	36	36	36	36	36	36	36	36	25	36
14	37	13	23	34	35	37	37	37	37	37	31	37	37	4	37
15	38	1	23	26	31	37	41	41	41	41	25	37	41	0	41
16	24	0	6	11	19	23	30	32	35	36	9	23	33	0	36
17	18	0	0	5	10	18	22	25	33	36	2	18	30	0	36
18	7	0	0	0	2	6	11	18	23	31	0	6	20	0	33
19	5	0	0	0	0	4	10	14	21	24	0	4	19	0	26
20	0	0	0	0	0	0	0	0	8	15	0	0	2	0	21
21	0	0	0	0	0	0	0	0	0	14	0	0	0	0	18
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
23	0	0	0	0	0	0	0	0	0	6	0	0	0	0	8
24	3	3	3	3	3	3	4	6	17	21	3	3	10	3	29
25	12	3	3	3	6	11	20	22	33	39	3	11	25	3	40
26	19	3	4	10	13	18	29	35	41	46	7	18	38	3	51
27	29	2	10	18	24	28	31	42	48	52	15	28	43	0	52
28	38	2	16	22	32	38	42	47	47	47	20	38	47	0	47
29	40	21	35	36	39	40	41	41	41	41	35	40	41	3	41
30	37	29	37	37	37	37	37	37	37	37	37	37	37	15	37
31	26	26	26	26	26	26	26	26	26	26	26	26	26	21	26
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
34	22	22	22	22	22	22	22	22	22	22	22	22	22	17	22
35	21	21	21	21	21	21	21	21	21	21	21	21	21	15	21
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
12	0	0	0	0	0	0	0	0	0	7	0	0	0	0	17
13	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
14	0	0	0	0	0	0	0	2	6	21	0	0	3	0	24
15	2	0	0	0	0	1	7	12	15	28	0	1	14	0	40
16	12	0	0	3	5	12	14	23	27	33	1	12	25	0	36
17	17	0	1	5	11	17	23	30	35	36	3	17	32	0	36
18	28	1	5	14	19	25	31	35	35	35	11	25	35	0	35
19	28	7	12	13	20	27	32	33	33	33	12	27	33	3	33
20	32	11	21	29	32	32	32	32	32	32	24	32	32	2	32
21	41	22	30	41	41	41	41	41	41	41	41	41	41	14	41
22	41	33	41	41	41	41	41	41	41	41	41	41	41	19	41
23	44	36	43	44	44	44	44	44	44	44	44	44	44	23	44
24	58	31	42	53	56	57	58	58	58	58	44	57	58	14	58
25	43	16	21	30	35	41	48	52	53	53	23	41	52	5	53
26	37	4	12	18	24	33	40	44	48	53	15	33	46	1	53
27	23	0	1	8	19	22	25	31	37	48	3	22	35	0	50
28	7	0	0	0	1	6	11	21	28	39	0	6	25	0	44
29	0	0	0	0	0	0	2	4	5	9	0	0	5	0	20
30	0	0	0	0	0	0	0	0	0	5	0	0	0	0	10
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
20	0	0	0	0	0	0	0	0	0	8	0	0	0	0	36
21	0	0	0	0	0	0	2	13	20	34	0	0	16	0	41
22	2	0	0	0	0	2	12	19	28	49	0	2	23	0	56
23	5	0	0	0	0	4	20	33	42	49	0	4	35	0	55
24	0	0	0	0	0	0	0	2	11	16	0	0	9	0	30
25	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GAO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
15	0	0	0	0	0	0	0	2	5	8	0	0	3	0	31
16	1	0	0	0	0	0	1	4	7	9	0	0	5	0	16
17	6	0	0	2	2	5	9	13	21	36	0	5	14	0	48
18	5	0	0	1	3	5	5	9	12	24	0	5	10	0	27
19	9	0	0	2	5	8	15	23	29	41	1	8	25	0	45
20	11	0	4	6	8	11	14	22	32	40	5	11	23	0	64
21	29	5	13	16	21	29	38	43	53	68	15	29	48	0	90
22	35	5	10	18	26	35	38	49	55	82	15	35	51	0	107
23	32	1	10	24	28	32	37	45	57	68	18	32	51	0	75
24	24	2	5	12	20	23	35	40	46	65	10	23	43	0	80
25	9	0	1	3	6	9	12	21	24	35	3	9	22	0	38
26	8	0	0	2	4	7	11	17	26	42	1	7	20	0	48
27	1	0	0	0	0	1	3	6	16	19	0	1	8	0	20
28	0	0	0	0	0	0	1	3	5	12	0	0	4	0	15
29	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
15	0	0	0	0	0	0	0	2	5	8	0	0	2	0	31
16	0	0	0	0	0	0	1	3	6	14	0	0	4	0	19
17	6	0	0	2	3	6	10	14	21	36	0	6	16	0	43
18	5	0	0	1	3	5	5	10	13	24	1	5	11	0	29
19	8	0	0	2	5	8	15	24	32	44	1	8	26	0	47
20	11	0	2	5	8	11	15	22	32	41	4	11	24	0	59
21	29	4	10	17	23	29	40	48	53	70	15	29	50	0	70
22	38	6	11	18	27	37	43	49	61	71	15	37	52	0	71
23	32	2	12	24	28	32	37	47	60	66	22	32	51	0	66
24	23	3	6	13	20	23	35	44	49	65	10	23	46	0	68
25	10	1	2	4	6	9	14	21	26	35	3	9	23	0	38
26	8	0	0	2	4	7	11	17	26	42	1	7	20	0	46
27	2	0	0	0	0	1	4	7	15	19	0	1	8	0	28
28	0	0	0	0	0	0	2	4	6	10	0	0	5	0	15
29	0	0	0	0	0	0	0	0	1	3	0	0	0	0	10
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	27	27	27	27	27	27	27	27	27	27	27	27	27	19	27
2	28	28	28	28	28	28	28	28	28	28	28	28	28	24	28
3	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32
4	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
5	30	30	30	30	30	30	30	30	30	30	30	30	30	27	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
8	37	37	37	37	37	37	37	37	37	37	37	37	37	33	37
9	42	42	42	42	42	42	42	42	42	42	42	42	42	34	42
10	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
11	39	38	39	39	39	39	39	39	39	39	39	39	39	34	39
12	41	38	41	41	41	41	41	41	41	41	41	41	41	26	41
13	43	41	43	43	43	43	43	43	43	43	43	43	43	35	43
14	45	42	45	45	45	45	45	45	45	45	45	45	45	38	45
15	49	17	42	46	48	49	49	49	49	49	44	49	49	3	49
16	42	24	36	39	41	42	43	43	43	43	38	42	43	9	43
17	37	0	16	27	31	36	39	41	43	43	24	36	42	0	43
18	38	14	26	31	36	38	39	41	43	43	31	38	42	5	43
19	42	3	13	24	32	42	44	48	49	51	22	42	48	0	51
20	47	0	23	35	42	47	49	52	54	57	33	47	53	0	58
21	40	0	10	19	28	37	43	50	56	62	17	37	52	0	64
22	36	3	7	21	29	36	45	54	60	67	13	36	56	3	68
23	37	3	4	18	29	35	40	43	51	64	16	35	44	3	67
24	44	0	13	22	29	42	46	51	57	63	20	42	55	0	64
25	44	16	27	31	37	43	46	49	51	53	30	43	50	6	54
26	39	0	18	28	35	38	42	43	46	47	24	38	44	0	47
27	37	12	23	32	35	37	39	41	41	41	27	37	41	0	41
28	35	19	27	29	31	34	35	35	35	35	28	34	35	15	35
29	35	25	33	35	35	35	35	35	35	35	34	35	35	14	35
30	36	34	36	36	36	36	36	36	36	36	36	36	36	29	36
31	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
32	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
33	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
34	26	26	26	26	26	26	26	26	26	26	26	26	26	24	26
35	25	25	25	25	25	25	25	25	25	25	25	25	25	23	25
36	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
22	0	0	0	0	0	0	0	0	0	3	0	0	0	0	27
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HOMBORI

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 38 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	0	2	4	0	0	1	0	5
15	1	0	0	0	0	1	2	4	8	16	0	1	5	0	46
16	4	0	0	0	1	4	5	8	14	21	0	4	10	0	31
17	7	0	1	3	4	7	9	14	24	29	1	7	18	0	31
18	18	0	1	5	11	18	21	31	41	48	3	18	38	8	53
19	24	1	7	9	16	24	27	36	50	71	9	24	44	8	84
20	38	1	7	14	26	38	41	49	56	66	10	38	53	14	70
21	54	8	13	32	42	54	55	66	72	79	25	54	67	8	83
22	48	7	18	35	39	48	55	66	72	103	30	48	70	9	136
23	52	18	32	39	43	52	64	67	83	115	36	52	73	30	121
24	37	14	24	30	35	37	44	51	55	86	29	37	53	20	118
25	30	1	7	15	19	30	34	38	42	59	11	30	40	14	85
26	18	0	2	10	14	18	19	25	31	46	4	18	27	8	59
27	7	0	0	2	4	7	11	15	18	34	1	7	17	2	59
28	0	0	0	0	0	0	1	4	13	25	0	0	8	0	32
29	0	0	0	0	0	0	0	0	3	10	0	0	1	0	13
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 38 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	1	2	4	0	0	1	0	5
15	1	0	0	0	0	1	2	4	8	16	0	1	5	0	42
16	4	0	0	0	2	4	7	9	14	23	0	4	12	0	32
17	8	0	1	3	4	8	9	16	25	29	1	8	21	0	34
18	18	0	1	5	11	18	21	31	37	37	3	18	36	8	37
19	24	1	9	11	16	24	27	36	36	36	9	24	36	13	36
20	43	1	9	21	33	43	43	43	43	43	12	43	43	21	43
21	52	9	27	37	52	52	52	52	52	52	29	52	52	17	52
22	51	11	24	41	50	51	51	51	51	51	35	51	51	23	51
23	56	30	37	44	53	56	56	56	56	56	41	56	56	30	56
24	51	24	35	37	45	51	56	59	63	63	36	51	62	37	63
25	34	3	13	18	23	34	37	40	48	57	17	34	41	14	57
26	19	0	4	14	17	19	24	28	35	46	13	19	31	8	55
27	7	0	0	3	5	7	12	15	21	34	1	7	17	2	44
28	1	0	0	0	0	1	1	8	17	30	0	1	13	0	32
29	0	0	0	0	0	0	0	0	3	10	0	0	1	0	13
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 38 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
3	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
4	25	25	25	25	25	25	25	25	25	25	25	25	25	23	25
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
7	31	31	31	31	31	31	31	31	31	31	31	31	31	29	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
9	37	35	37	37	37	37	37	37	37	37	37	37	37	35	37
10	33	33	33	33	33	33	33	33	33	33	33	33	33	31	33
11	33	30	33	33	33	33	33	33	33	33	33	33	33	28	33
12	35	31	35	35	35	35	35	35	35	35	35	35	35	19	35
13	36	30	35	36	36	36	36	36	36	36	36	36	36	33	36
14	38	33	35	36	38	38	38	38	38	38	35	38	38	32	38
15	40	0	28	37	39	40	41	42	42	42	33	40	42	21	42
16	32	5	19	25	29	32	34	36	38	38	23	32	38	14	38
17	29	4	11	20	25	29	32	35	37	38	13	29	35	2	38
18	19	0	0	1	14	19	23	28	34	36	0	19	31	0	37
19	10	0	0	0	4	10	14	21	25	30	0	10	24	0	35
20	0	0	0	0	0	0	3	14	29	35	0	0	20	0	41
21	0	0	0	0	0	0	0	12	22	38	0	0	16	0	42
22	0	0	0	0	0	0	0	4	15	34	0	0	9	1	39
23	3	3	3	3	3	3	3	11	17	24	3	3	16	3	28
24	13	3	3	3	8	13	18	25	29	35	3	13	28	5	42
25	24	3	6	19	21	24	32	41	43	52	11	24	42	15	57
26	34	0	16	24	28	34	36	40	41	53	19	34	40	18	55
27	41	5	21	32	35	41	43	46	47	50	28	41	46	22	50
28	43	11	19	30	42	43	44	44	44	44	27	43	44	21	44
29	38	24	28	36	38	38	38	38	38	38	34	38	38	26	38
30	32	29	31	32	32	32	32	32	32	32	32	32	32	23	32
31	27	26	27	27	27	27	27	27	27	27	27	27	27	25	27
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	23	23	23	23	23	23	23	23	23	23	23	23	23	22	23
34	21	20	21	21	21	21	21	21	21	21	21	21	21	20	21
35	20	20	20	20	20	20	20	20	20	20	20	20	20	15	20
36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 38 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
21	0	0	0	0	0	0	0	0	9	21	0	0	1	0	32
22	0	0	0	0	0	0	0	1	13	37	0	0	9	0	82
23	0	0	0	0	0	0	0	13	18	43	0	0	16	0	61
24	0	0	0	0	0	0	0	0	0	17	0	0	0	0	61
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KAYES

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	1	2	0	0	1	0	2
14	0	0	0	0	0	0	0	2	4	7	0	0	3	0	20
15	4	0	0	0	2	4	7	12	19	29	0	4	16	0	33
16	10	0	1	3	6	10	13	25	28	53	2	10	26	0	70
17	28	6	10	14	21	28	34	41	48	66	12	28	44	0	74
18	43	11	18	24	33	43	48	55	64	75	21	43	60	4	79
19	49	11	29	36	39	49	53	58	62	78	34	49	60	5	85
20	51	12	20	33	42	51	57	67	74	121	26	51	68	5	137
21	56	18	29	42	45	56	64	73	96	115	38	56	83	3	119
22	62	9	25	34	51	62	73	92	108	138	28	62	103	0	153
23	73	17	36	49	64	73	78	100	113	132	37	73	108	11	144
24	74	26	47	54	64	74	85	115	131	152	52	74	128	11	175
25	62	24	33	39	52	62	69	81	89	110	35	62	83	16	120
26	48	13	23	27	41	48	53	61	70	98	25	48	68	5	117
27	33	1	3	11	14	33	41	53	56	87	8	33	54	0	98
28	14	0	2	4	9	14	21	27	34	46	3	14	30	0	76
29	5	0	0	0	1	5	7	14	18	21	0	5	16	0	30
30	0	0	0	0	0	0	2	6	10	24	0	0	7	0	28
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	1	2	0	0	1	0	2
14	0	0	0	0	0	0	1	3	4	11	0	0	4	0	26
15	4	0	0	0	2	4	7	12	19	29	0	4	16	0	33
16	10	0	2	3	6	10	15	25	32	36	2	10	26	0	36
17	33	7	12	16	26	33	33	33	33	33	15	33	33	3	33
18	38	11	28	37	38	38	38	38	38	38	34	38	38	6	38
19	42	26	42	42	42	42	42	42	42	42	42	42	42	17	42
20	46	24	37	46	46	46	46	46	46	46	44	46	46	17	46
21	56	36	45	51	56	56	56	56	56	56	49	56	56	21	57
22	49	25	35	40	48	49	49	49	49	49	39	49	49	5	49
23	46	39	43	45	46	46	46	46	46	46	45	46	46	31	46
24	51	38	50	51	51	51	51	51	51	51	51	51	51	29	51
25	48	38	42	46	48	48	48	48	48	48	44	48	48	29	48
26	48	33	40	45	47	48	49	49	49	49	44	48	49	21	49
27	43	11	24	30	37	43	47	49	50	50	27	43	49	2	50
28	29	0	5	9	25	29	33	39	47	50	8	29	42	0	50
29	11	0	0	0	4	11	17	21	27	36	0	11	21	0	38
30	0	0	0	0	0	0	2	6	10	25	0	0	8	0	37
31	0	0	0	0	0	0	0	0	0	12	0	0	0	0	25
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	23	14	23
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
4	25	25	25	25	25	25	25	25	25	25	25	25	25	16	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
7	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
8	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
9	38	38	38	38	38	38	38	38	38	38	38	38	38	34	38
10	36	36	36	36	36	36	36	36	36	36	36	36	36	35	36
11	37	37	37	37	37	37	37	37	37	37	37	37	37	35	37
12	38	37	38	38	38	38	38	38	38	38	38	38	38	18	38
13	40	36	38	39	40	40	40	40	40	40	38	40	40	4	40
14	40	14	35	36	38	40	40	40	40	40	35	40	40	0	40
15	37	7	15	25	33	37	39	41	42	42	21	37	42	0	42
16	24	0	0	9	15	24	28	31	33	36	3	24	33	0	36
17	0	0	0	0	0	0	6	15	18	23	0	0	17	0	27
18	0	0	0	0	0	0	0	0	6	23	0	0	1	0	28
19	0	0	0	0	0	0	0	0	0	8	0	0	0	0	17
20	0	0	0	0	0	0	0	0	1	10	0	0	0	0	21
21	3	3	3	3	3	3	3	7	12	20	3	3	9	3	24
22	2	2	2	2	2	2	2	7	12	19	2	2	10	2	25
23	2	2	2	2	2	2	2	2	3	8	2	2	2	2	8
24	3	3	3	3	3	3	3	3	3	9	3	3	3	3	20
25	2	2	2	2	2	2	2	3	6	11	2	2	4	2	14
26	3	2	2	2	2	3	3	5	8	15	2	3	6	2	23
27	8	2	2	2	4	8	12	20	26	33	2	8	23	2	40
28	22	3	3	11	17	22	26	40	46	50	5	22	44	3	53
29	37	9	15	27	31	37	43	48	49	49	23	37	49	3	49
30	44	8	27	36	40	44	45	45	45	45	34	44	45	0	45
31	34	9	32	34	34	34	34	34	34	34	33	34	34	0	34
32	28	27	28	28	28	28	28	28	28	28	28	28	28	13	28
33	22	19	22	22	22	22	22	22	22	22	22	22	22	10	22
34	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
35	21	20	21	21	21	21	21	21	21	21	21	21	21	18	21
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
19	0	0	0	0	0	0	0	0	7	23	0	0	3	0	29
20	0	0	0	0	0	0	7	14	21	53	0	0	19	0	72
21	0	0	0	0	0	0	3	15	24	67	0	0	21	0	73
22	0	0	0	0	0	0	11	26	46	69	0	0	39	0	94
23	8	0	0	0	1	8	20	35	53	64	0	8	46	0	83
24	25	0	0	5	18	25	36	66	80	101	0	25	75	0	129
25	10	0	0	0	2	10	15	26	32	58	0	10	29	0	69
26	0	0	0	0	0	0	0	7	20	47	0	0	11	0	59
27	0	0	0	0	0	0	0	0	0	37	0	0	0	0	49
28	0	0	0	0	0	0	0	0	0	6	0	0	0	0	23
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KENIEBA

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
11	0	0	0	0	0	0	0	0	2	9	0	0	1	0	10
12	0	0	0	0	0	0	0	3	6	11	0	0	4	0	14
13	6	0	0	0	1	6	8	11	15	32	0	6	12	0	37
14	5	0	0	1	3	5	8	11	24	45	0	5	15	2	49
15	23	0	2	5	16	23	32	38	55	74	4	23	42	1	78
16	38	3	16	21	27	38	46	57	62	76	19	38	59	7	88
17	47	10	29	43	45	47	70	90	99	112	38	47	93	15	115
18	57	17	24	31	46	57	60	75	82	96	26	57	76	37	107
19	60	22	35	46	54	60	65	72	81	121	37	60	73	12	132
20	89	23	48	58	75	89	101	113	125	132	52	89	116	16	140
21	97	36	73	81	90	97	112	132	167	208	75	97	138	41	220
22	128	63	73	83	111	128	138	157	214	264	74	128	180	63	289
23	120	53	74	94	106	120	135	154	209	279	80	120	168	63	290
24	121	32	73	88	96	121	133	148	170	228	78	121	155	51	239
25	127	52	73	100	112	127	137	142	187	200	89	127	150	86	207
26	76	26	40	62	71	76	86	114	129	152	41	76	114	34	165
27	60	11	19	41	54	60	72	96	108	128	26	60	101	14	161
28	38	6	15	24	28	38	53	78	96	121	15	38	81	12	128
29	15	1	5	8	12	15	18	35	53	72	6	15	42	0	95
30	6	0	0	0	2	6	8	18	27	68	0	6	24	16	77
31	0	0	0	0	0	0	2	6	14	21	0	0	8	3	25
32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	8	0	0	0	0	9
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	3	0	0	0	0	4
11	0	0	0	0	0	0	0	0	2	9	0	0	1	0	10
12	0	0	0	0	0	0	0	3	6	11	0	0	4	0	14
13	6	0	0	0	1	6	8	12	15	30	0	6	12	0	32
14	6	0	0	2	4	6	8	11	24	32	0	6	15	2	32
15	24	0	4	13	19	24	32	33	33	33	5	24	33	1	33
16	34	9	19	25	33	34	34	34	34	34	21	34	34	8	34
17	37	14	35	37	37	37	37	37	37	37	37	37	37	22	37
18	39	26	39	39	39	39	39	39	39	39	39	39	39	30	39
19	43	41	43	43	43	43	43	43	43	43	43	43	43	38	43
20	40	38	40	40	40	40	40	40	40	40	40	40	40	37	40
21	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
22	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
24	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
26	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
27	42	39	40	42	42	42	42	42	42	42	41	42	42	39	42
28	43	35	40	41	42	43	43	43	43	43	40	43	43	37	43
29	41	28	34	38	40	41	42	42	44	44	36	41	43	27	44
30	33	19	23	26	29	33	37	41	43	45	24	33	41	21	45
31	21	4	8	14	17	21	24	27	31	35	10	21	30	11	35
32	5	0	0	0	1	5	8	12	17	28	0	5	15	2	30
33	0	0	0	0	0	0	0	4	9	16	0	0	6	0	23
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
35	0	0	0	0	0	0	0	0	0	6	0	0	0	0	10
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	23	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	24	24	24	24	24	24	24	24	24	24	24	24	24	21	24
7	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
8	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
9	35	35	35	35	35	35	35	35	35	35	35	35	35	32	35
10	32	27	30	32	32	32	32	32	32	32	31	32	32	27	32
11	33	22	28	32	33	33	33	33	33	33	30	33	33	17	33
12	32	14	25	29	31	32	32	32	32	32	26	32	32	12	32
13	25	0	10	14	23	25	28	32	32	32	17	25	32	16	32
14	25	0	3	20	24	25	27	28	32	32	9	25	29	4	32
15	8	0	0	0	0	8	13	19	29	32	0	8	24	0	33
16	0	0	0	0	0	0	0	7	15	19	0	0	10	0	23
17	0	0	0	0	0	0	0	0	0	16	0	0	0	0	22
18	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
19	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
20	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
27	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5
28	2	2	2	2	2	2	3	4	5	9	2	2	4	2	9
29	5	2	2	2	4	5	6	8	12	16	2	5	8	3	17
30	10	0	1	3	8	10	14	16	20	24	3	10	18	0	25
31	13	0	4	7	10	13	17	19	24	29	5	13	21	0	30
32	25	1	13	17	22	25	28	29	30	30	14	25	29	0	30
33	25	8	14	21	25	25	25	25	25	25	16	25	25	0	25
34	20	18	20	20	20	20	20	20	20	20	20	20	20	5	20
35	20	12	20	20	20	20	20	20	20	20	20	20	20	4	20
36	24	24	24	24	24	24	24	24	24	24	24	24	24	22	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	3	14	31	0	0	6	0	40
18	0	0	0	0	0	0	0	15	38	59	0	0	22	0	70
19	1	0	0	0	0	1	6	17	22	45	0	1	20	0	61
20	31	0	0	3	14	31	37	43	54	86	0	31	45	0	97
21	50	0	8	23	34	50	71	92	115	168	11	50	98	0	180
22	82	21	30	40	69	82	95	114	167	221	31	82	136	16	246
23	83	16	37	56	68	83	98	117	172	241	43	83	131	25	252
24	85	2	37	51	60	85	97	111	134	191	42	85	119	29	202
25	85	11	35	57	66	85	95	100	145	158	45	85	108	44	165
26	36	0	0	22	30	36	43	74	89	112	1	36	74	10	125
27	17	0	0	0	10	17	30	54	66	86	0	17	59	0	112
28	0	0	0	0	0	0	5	19	53	78	0	0	30	0	85
29	0	0	0	0	0	0	0	0	4	28	0	0	0	0	43
30	0	0	0	0	0	0	0	0	0	4	0	0	0	0	16
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KITA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
11	0	0	0	0	0	0	0	0	1	4	0	0	0	0	21
12	1	0	0	0	0	0	1	2	10	13	0	0	4	0	25
13	4	0	0	0	1	4	6	9	12	24	0	4	9	0	34
14	7	0	1	2	5	6	10	18	24	31	2	6	22	0	41
15	14	0	1	3	11	14	17	26	39	47	2	14	31	0	53
16	40	6	23	28	33	39	46	54	74	79	24	39	61	1	91
17	46	14	19	26	38	44	55	65	72	81	19	44	71	1	95
18	49	14	29	34	45	48	56	72	80	108	31	48	74	3	114
19	67	24	34	43	60	66	75	89	96	111	39	66	91	15	134
20	71	24	38	45	58	69	78	86	101	122	41	69	93	11	142
21	108	35	57	68	91	105	112	122	142	158	60	105	136	23	169
22	107	36	71	90	101	107	114	131	139	180	82	107	136	17	204
23	113	57	66	80	102	111	123	144	168	192	73	111	151	40	202
24	116	44	64	74	82	111	120	135	154	196	69	111	144	24	224
25	91	36	69	71	86	90	97	112	128	146	71	90	119	14	199
26	65	16	30	42	51	62	73	83	97	111	37	62	91	11	114
27	51	12	23	29	41	51	56	73	86	114	28	51	77	2	135
28	28	1	6	14	20	27	36	43	61	96	11	27	54	0	107
29	13	0	2	5	7	12	18	24	31	41	4	12	26	0	48
30	2	0	0	0	0	1	6	11	13	27	0	1	12	0	42
31	0	0	0	0	0	0	0	1	8	21	0	0	5	0	29
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
11	0	0	0	0	0	0	0	0	2	6	0	0	1	0	22
12	1	0	0	0	0	1	1	2	10	16	0	1	4	0	25
13	4	0	0	0	1	4	7	9	13	29	0	4	11	0	35
14	7	0	1	2	5	7	14	20	24	33	2	7	23	0	35
15	15	0	1	5	11	14	19	28	36	36	3	14	36	0	36
16	30	7	26	30	30	30	30	30	30	30	29	30	30	6	30
17	34	21	34	34	34	34	34	34	34	34	34	34	34	19	34
18	38	31	37	38	38	38	38	38	38	38	38	38	38	25	38
19	41	41	41	41	41	41	41	41	41	41	41	41	41	30	41
20	46	42	45	46	46	46	46	46	46	46	46	46	46	34	46
21	48	48	48	48	48	48	48	48	48	48	48	48	48	40	48
22	42	41	42	42	42	42	42	42	42	42	42	42	42	40	42
23	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
24	45	45	45	45	45	45	45	45	45	45	45	45	45	44	45
25	41	40	41	41	41	41	41	41	41	41	41	41	41	39	41
26	42	40	41	42	42	42	42	42	42	42	42	42	42	38	42
27	44	35	41	43	44	44	44	44	44	44	43	44	44	35	44
28	44	32	40	42	43	44	45	46	46	46	41	44	46	22	46
29	39	23	30	33	37	39	41	43	45	47	31	39	44	16	48
30	26	7	14	17	22	26	27	30	39	45	15	26	35	2	49
31	11	0	2	5	8	11	16	19	22	34	3	11	20	0	39
32	1	0	0	0	0	0	2	3	5	18	0	0	4	0	30
33	0	0	0	0	0	0	0	0	3	12	0	0	0	0	15
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	22	27
5	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
6	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	33	30	33	33	33	33	33	33	33	33	33	33	33	27	33
8	36	34	36	36	36	36	36	36	36	36	36	36	36	29	36
9	40	39	40	40	40	40	40	40	40	40	40	40	40	38	40
10	36	29	34	36	36	36	36	36	36	36	36	36	36	6	36
11	37	14	33	36	37	37	37	37	37	37	33	37	37	0	37
12	35	13	23	32	34	34	36	36	36	36	29	34	36	4	36
13	31	2	19	25	27	30	32	35	35	35	22	30	35	0	35
14	26	0	6	11	17	25	27	31	33	33	10	25	31	0	34
15	20	0	0	3	14	20	22	26	32	35	0	20	31	0	36
16	0	0	0	0	0	0	0	0	0	7	0	0	0	0	22
17	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
18	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	2	2	2	2	2	2	2	2	2	3	2	2	2	2	6
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
27	2	2	2	2	2	2	2	2	3	5	2	2	3	2	10
28	4	2	2	2	3	3	4	5	6	9	2	3	6	2	16
29	10	2	5	5	7	9	12	15	18	23	5	9	16	2	27
30	23	0	7	13	20	23	25	29	33	37	9	23	31	0	40
31	25	0	11	18	21	24	29	32	34	36	16	24	33	0	39
32	31	1	21	28	29	30	32	32	32	32	26	30	32	1	32
33	28	12	20	28	28	28	28	28	28	28	23	28	28	10	28
34	23	23	23	23	23	23	23	23	23	23	23	23	23	21	23
35	23	17	23	23	23	23	23	23	23	23	23	23	23	9	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	3	0	0	0	0	15
18	0	0	0	0	0	0	0	0	13	42	0	0	1	0	73
19	0	0	0	0	0	0	2	20	28	54	0	0	27	0	58
20	5	0	0	0	0	5	16	39	46	59	0	5	44	0	81
21	44	0	4	13	34	41	61	73	90	106	10	41	76	0	111
22	58	0	8	27	52	68	65	81	91	131	22	58	83	0	145
23	65	14	23	36	54	64	79	95	125	149	30	64	104	4	159
24	75	4	22	31	41	70	79	94	112	155	26	70	103	0	183
25	44	3	23	25	40	44	51	61	81	100	25	44	68	0	153
26	23	0	0	1	9	20	30	40	55	69	0	20	46	0	72
27	8	0	0	0	0	8	14	28	39	72	0	8	31	0	92
28	0	0	0	0	0	0	0	0	2	39	0	0	0	0	58
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KOUTIALA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
9	0	0	0	0	0	0	0	1	2	9	0	0	1	0	12
10	0	0	0	0	0	0	0	2	3	10	0	0	2	0	25
11	1	0	0	0	0	1	4	8	21	38	0	1	12	0	46
12	4	0	0	0	1	4	5	11	24	60	0	4	14	0	72
13	7	0	0	1	2	6	11	16	22	42	1	6	19	0	78
14	9	0	0	3	5	8	13	18	32	45	1	8	20	0	48
15	21	2	6	12	17	20	26	36	48	78	12	20	44	0	90
16	30	7	14	22	26	34	45	51	57	69	16	38	52	3	76
17	42	15	29	33	37	41	47	55	63	87	32	41	57	6	98
18	41	15	26	31	33	40	56	61	71	102	27	40	63	9	114
19	55	19	26	33	47	55	60	70	80	114	32	55	72	10	132
20	65	17	37	51	57	65	72	81	106	114	45	65	98	11	116
21	69	43	55	70	76	88	96	104	111	141	61	88	106	28	148
22	86	36	58	70	73	84	92	110	128	154	66	84	119	15	183
23	87	33	54	70	77	87	101	115	128	147	62	87	122	26	167
24	79	37	48	63	73	79	96	123	133	144	56	79	128	21	175
25	72	26	40	47	58	71	83	97	123	140	45	71	110	17	150
26	59	18	26	36	43	56	66	77	87	105	32	56	78	11	109
27	37	5	11	16	26	37	47	54	68	82	17	37	57	2	86
28	21	1	11	13	17	21	33	34	39	45	12	21	37	0	62
29	14	2	3	5	9	13	17	23	35	55	4	13	26	0	73
30	4	0	0	0	1	3	6	9	11	27	0	3	9	0	36
31	0	0	0	0	0	0	0	1	5	13	0	0	2	0	21
32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	13	0	0	0	0	19
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
9	0	0	0	0	0	0	0	1	2	9	0	0	1	0	12
10	0	0	0	0	0	0	0	2	5	11	0	0	2	0	23
11	2	0	0	0	0	0	2	6	12	25	25	0	2	18	0	25
12	5	0	0	0	0	2	5	11	20	25	25	0	5	24	0	25
13	17	0	1	2	10	14	20	23	23	23	23	1	16	23	0	23
14	20	0	1	6	13	18	22	22	22	22	22	4	18	22	0	22
15	24	6	14	18	23	24	24	24	24	24	24	17	24	24	0	24
16	26	17	24	26	26	26	26	26	26	26	26	26	26	26	11	26
17	30	26	30	30	30	30	30	30	30	30	30	30	30	30	17	30
18	35	28	35	35	35	35	35	35	35	35	35	35	35	35	20	35
19	43	30	42	43	43	43	43	43	43	43	43	43	43	43	13	43
20	44	36	44	44	44	44	44	44	44	44	44	44	44	44	18	44
21	48	48	48	48	48	48	48	48	48	48	48	48	48	48	46	48
22	45	45	45	45	45	45	45	45	45	45	45	45	45	45	42	45
23	46	45	46	46	46	46	46	46	46	46	46	46	46	46	45	46
24	54	54	54	54	54	54	54	54	54	54	54	54	54	54	51	54
25	52	49	52	52	52	52	52	52	52	52	52	52	52	52	43	52
26	56	49	52	55	56	56	56	56	56	56	56	54	56	38	56
27	54	36	38	45	51	54	55	56	56	56	41	54	56	25	56
28	42	21	28	35	38	41	44	48	51	55	33	41	49	14	56
29	25	11	14	21	23	25	30	35	43	51	20	25	38	7	53
30	12	3	7	8	10	12	14	21	24	35	7	12	21	1	45
31	9	0	1	3	6	9	10	11	13	22	2	9	12	0	26
32	1	0	0	0	0	0	1	2	3	10	0	0	3	0	11
33	0	0	0	0	0	0	0	0	0	12	0	0	0	0	16
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	0	0	23	23	23	23	23	23	23	6	23	23	0	23
2	23	0	0	23	23	23	23	23	23	25	11	23	23	0	25
3	25	0	0	21	21	25	25	25	25	25	2	25	25	0	25
4	21	0	0	17	20	20	21	21	21	21	1	20	21	0	21
5	20	0	0	19	19	20	20	20	20	20	9	20	20	0	20
6	19	0	0	19	19	19	19	19	19	21	6	19	19	0	21
7	21	0	0	12	20	21	21	21	21	22	5	21	21	0	22
8	22	0	0	14	21	22	22	22	22	25	4	22	22	0	25
9	25	0	0	15	23	25	25	25	25	25	5	25	25	0	25
10	20	0	0	0	16	19	24	25	25	25	0	19	25	0	25
11	9	0	0	0	0	6	19	25	25	25	0	6	25	0	25
12	3	0	0	0	0	2	14	22	23	25	0	2	23	0	25
13	0	0	0	0	0	0	3	11	21	22	0	0	14	0	22
14	0	0	0	0	0	0	0	6	8	15	0	0	7	0	18
15	0	0	0	0	0	0	0	0	6	10	0	0	0	0	11
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
18	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2
19	2	0	0	2	2	2	2	2	2	3	1	2	2	0	3
20	2	0	0	2	2	2	2	2	2	3	1	2	2	0	5
21	2	0	0	2	2	2	2	2	2	2	1	2	2	0	2
22	2	0	0	2	2	2	2	2	2	2	1	2	2	0	2
23	2	0	0	2	2	2	2	2	2	3	1	2	2	0	3
24	3	0	0	3	3	3	3	3	3	3	1	3	3	0	3
25	3	0	0	3	3	3	3	3	3	5	1	3	3	0	7
26	3	0	0	3	3	3	3	3	5	8	1	3	3	0	15
27	4	0	0	3	3	4	7	10	13	25	1	4	11	0	30
28	17	0	0	3	7	15	21	25	30	34	0	15	28	0	35
29	14	0	0	0	7	14	28	33	37	42	0	14	34	0	43
30	30	0	0	10	26	30	33	38	41	45	0	30	39	0	46
31	30	0	0	14	27	29	31	34	35	39	0	29	35	0	41
32	27	0	0	24	27	27	32	33	35	35	4	27	34	0	35
33	26	0	0	15	26	26	27	27	27	27	3	26	27	0	27
34	25	0	0	21	25	25	26	26	26	26	10	25	26	0	26
35	25	0	0	22	25	25	25	25	25	26	0	25	25	0	26
36	26	0	0	0	0	26	26	26	26	26	0	26	26	0	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
17	0	0	0	0	0	0	0	0	0	11	0	0	0	0	32
18	0	0	0	0	0	0	0	0	17	45	0	0	2	0	62
19	5	0	0	0	0	3	12	24	32	47	0	3	27	0	83
20	6	0	0	0	0	6	13	26	40	63	0	6	28	0	70
21	26	0	0	2	15	26	39	49	62	89	0	26	53	0	103
22	34	0	0	8	21	30	39	54	77	102	4	30	67	0	134
23	41	0	6	17	31	41	54	65	80	102	9	41	70	0	116
24	33	0	0	17	26	32	47	76	86	98	9	32	79	0	129
25	16	0	0	0	1	13	25	42	68	82	0	13	52	0	91
26	0	0	0	0	0	0	3	16	25	52	0	0	19	0	57
27	0	0	0	0	0	0	0	0	0	20	0	0	0	0	29
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MENAKA

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	1	3	0	0	0	0	6
15	1	0	0	0	0	1	2	3	6	17	0	1	4	0	26
16	1	0	0	0	0	1	3	4	10	15	0	1	5	0	20
17	3	0	0	0	1	2	5	8	15	18	0	2	11	0	21
18	6	0	1	2	4	6	9	12	14	29	2	6	13	0	43
19	12	0	3	6	10	11	17	18	23	39	6	11	20	0	55
20	14	3	6	10	11	14	19	23	33	41	7	14	29	0	44
21	33	2	11	17	25	30	39	51	70	89	14	30	58	1	98
22	33	1	12	17	30	32	45	53	62	71	14	32	58	0	80
23	41	5	18	24	30	39	45	54	72	81	21	39	67	2	99
24	21	0	5	11	15	21	29	36	52	77	8	21	43	0	82
25	13	0	3	5	9	12	19	21	32	45	4	12	24	0	55
26	5	0	0	1	3	5	7	10	19	34	0	5	12	0	47
27	2	0	0	0	1	2	3	8	20	31	0	2	14	0	41
28	0	0	0	0	0	0	0	1	3	10	0	0	2	0	12
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	1	3	0	0	0	0	6
15	1	0	0	0	0	1	2	3	6	17	0	1	4	0	26
16	2	0	0	0	0	1	3	4	10	15	0	1	5	0	20
17	3	0	0	0	1	2	5	8	15	19	0	2	11	0	23
18	7	0	1	2	4	6	9	12	14	29	2	6	13	0	37
19	14	0	4	7	10	14	17	20	26	37	6	14	22	0	37
20	19	3	7	11	14	18	23	27	37	37	10	18	31	0	37
21	34	2	11	20	26	31	39	47	47	47	18	31	47	1	47
22	43	3	19	25	32	42	46	46	46	46	22	42	46	0	46
23	46	5	22	26	38	44	50	50	50	50	25	44	50	3	50
24	34	0	14	22	29	32	42	48	63	65	16	32	59	0	65
25	16	1	5	8	11	15	21	27	36	49	6	15	30	0	53
26	6	0	0	1	4	6	9	12	19	36	1	6	14	0	47
27	2	0	0	0	1	2	3	9	24	32	0	2	16	0	39
28	0	0	0	0	0	0	1	3	5	12	0	0	3	0	12
29	0	0	0	0	0	0	0	0	0	2	0	0	0	0	9
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
2	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
3	23	23	23	23	23	23	23	23	23	23	23	23	23	21	23
4	22	22	22	22	22	22	22	22	22	22	22	22	22	20	22
5	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
6	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
7	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
8	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
9	34	34	34	34	34	34	34	34	34	34	34	34	34	23	34
10	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
11	33	31	33	33	33	33	33	33	33	33	33	33	33	26	33
12	35	35	35	35	35	35	35	35	35	35	35	35	35	33	35
13	36	34	36	36	36	36	36	36	36	36	36	36	36	29	36
14	37	31	36	37	37	37	37	37	37	37	37	37	37	13	37
15	40	14	33	36	38	40	41	41	41	41	34	40	41	2	41
16	35	17	24	32	34	35	37	37	37	37	29	35	37	7	37
17	34	16	22	26	31	33	35	37	37	37	23	33	37	11	37
18	30	0	22	24	27	29	33	34	35	37	23	29	35	0	37
19	22	0	6	15	19	21	26	28	31	34	12	21	30	0	37
20	18	0	0	4	13	17	23	26	29	32	0	17	26	0	34
21	13	0	0	0	3	12	19	25	32	42	0	12	27	0	44
22	3	0	0	0	0	1	13	18	26	36	0	1	22	0	43
23	0	0	0	0	0	0	9	19	25	35	0	0	22	0	44
24	32	3	4	9	25	32	39	44	52	63	6	32	46	3	68
25	39	2	16	24	34	39	43	45	50	52	20	39	47	0	54
26	42	1	27	35	39	42	43	46	48	49	32	42	47	0	49
27	41	3	14	26	38	40	41	43	43	43	22	40	43	0	43
28	37	24	29	33	35	37	37	37	37	37	32	37	37	0	37
29	30	21	29	30	30	30	30	30	30	30	30	30	30	10	30
30	31	27	31	31	31	31	31	31	31	31	31	31	31	17	31
31	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26
32	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
33	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
34	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
35	20	20	20	20	20	20	20	20	20	20	20	20	20	18	20
36	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	10	0	0	0	0	18
22	0	0	0	0	0	0	0	0	0	7	0	0	0	0	22
23	0	0	0	0	0	0	0	0	0	26	0	0	0	0	32
24	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MOPTI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	7	0	0	0	0	9
12	0	0	0	0	0	0	0	2	5	7	0	0	3	0	10
13	0	0	0	0	0	0	0	0	4	13	0	0	1	0	24
14	0	0	0	0	0	0	1	2	5	10	0	0	2	0	18
15	5	0	2	3	4	5	10	17	27	32	2	5	19	0	37
16	10	0	2	5	9	10	15	17	24	34	3	10	20	0	45
17	15	1	3	6	11	15	20	23	29	48	5	15	25	0	61
18	17	1	4	5	14	17	25	28	41	50	5	17	30	0	60
19	24	4	9	13	21	28	31	38	53	62	11	28	42	3	65
20	34	11	20	24	29	33	50	60	88	107	22	33	64	3	111
21	46	14	26	31	42	46	65	77	106	113	27	46	86	12	119
22	56	11	25	35	47	53	64	77	89	109	33	53	82	7	115
23	61	19	33	44	60	61	72	86	97	123	39	61	86	9	154
24	52	21	29	35	47	51	57	64	79	96	33	51	70	13	163
25	32	9	20	22	28	31	53	55	64	89	21	31	55	5	107
26	25	3	13	16	22	25	31	37	44	55	15	25	40	1	62
27	16	0	4	6	12	15	20	25	33	40	5	15	29	0	52
28	7	0	0	1	2	7	13	18	22	30	0	7	19	0	38
29	0	0	0	0	0	0	2	3	10	17	0	0	5	0	21
30	0	0	0	0	0	0	0	0	4	8	0	0	1	0	11
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	1	7	0	0	0	0	9
12	0	0	0	0	0	0	0	3	5	7	0	0	4	0	10
13	0	0	0	0	0	0	0	0	4	13	0	0	1	0	24
14	0	0	0	0	0	0	0	1	2	8	13	0	0	2	0	19
15	5	0	2	3	4	5	10	17	27	32	2	5	19	0	37
16	12	0	2	5	9	11	17	20	27	35	3	11	22	0	35
17	20	1	4	6	15	20	23	26	29	35	5	20	27	0	35
18	21	1	5	6	15	20	28	32	33	33	5	20	33	0	33
19	34	4	10	18	29	34	37	37	37	37	13	34	37	3	37
20	41	20	27	32	39	41	41	41	41	41	29	41	41	13	41
21	51	17	34	46	51	51	51	51	51	51	40	51	51	12	51
22	51	14	35	45	51	51	51	51	51	51	38	51	51	10	51
23	49	29	42	48	49	49	49	49	49	49	44	49	49	14	49
24	53	30	46	48	52	53	53	53	53	53	47	53	53	25	53
25	44	23	30	34	41	43	46	48	44	48	33	43	48	10	48
26	38	6	19	26	35	37	42	43	46	48	20	37	45	2	48
27	23	2	6	12	20	22	28	36	40	44	12	22	38	0	46
28	10	0	0	2	4	9	16	21	30	36	1	9	25	0	40
29	2	0	0	0	0	2	3	5	11	21	0	2	7	0	23
30	0	0	0	0	0	0	0	0	4	8	0	0	1	0	11
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT FINAL EN MM — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	23	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
5	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
7	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32
8	35	35	35	35	35	35	35	35	35	35	35	35	35	27	35
9	39	38	39	39	39	39	39	39	39	39	39	39	39	35	39
10	35	34	35	35	35	35	35	35	35	35	35	35	35	30	35
11	36	27	34	36	36	36	36	36	36	36	34	36	36	12	36
12	36	27	31	32	36	36	36	36	36	36	31	36	36	14	36
13	36	11	31	34	36	36	36	36	36	36	33	36	36	0	36
14	35	17	26	33	34	35	36	36	36	36	28	35	36	5	36
15	33	2	10	21	28	33	35	36	38	40	17	33	36	0	40
16	20	0	6	12	17	19	25	27	31	33	8	19	30	0	34
17	14	0	4	7	11	14	19	27	29	31	5	14	28	0	33
18	7	0	0	0	5	7	16	20	27	30	0	7	26	0	31
19	2	0	0	0	0	2	6	13	25	31	0	2	22	0	32
20	0	0	0	0	0	0	0	6	12	17	0	0	9	0	20
21	0	0	0	0	0	0	0	0	14	23	0	0	4	0	32
22	3	1	2	3	3	3	3	4	14	28	3	3	9	3	40
23	2	1	2	2	2	2	2	4	7	14	2	2	5	2	21
24	3	1	3	3	3	3	3	5	9	20	3	3	8	3	26
25	6	2	3	4	5	6	6	9	13	17	25	2	6	15	2	27
26	11	2	4	5	7	10	14	18	30	40	4	10	23	2	44
27	23	2	6	9	14	23	26	29	36	42	6	23	33	0	43
28	31	2	11	17	23	30	33	39	41	43	15	30	40	0	43
29	38	14	24	36	44	35	38	38	38	38	28	35	38	4	38
30	35	25	31	34	35	35	35	35	35	35	33	35	35	5	35
31	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	25	25	25	25	25	25	25	25	25	25	25	25	25	21	25
34	24	23	24	24	24	24	24	24	24	24	24	24	24	21	24
35	23	23	23	23	23	23	23	23	23	23	23	23	23	13	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

VARIABLE : [illegible] — EFFECTIF DE L ECHANTILLON 45 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
20	0	0	0	0	0	0	0	0	0	34	0	0	1	0	37
21	0	0	0	0	0	0	0	5	30	52	0	0	17	0	68
22	0	0	0	0	0	0	2	11	33	46	0	0	24	0	60
23	4	0	0	0	0	2	11	20	40	66	0	2	27	0	102
24	0	0	0	0	0	0	1	12	24	37	0	0	15	0	94
25	0	0	0	0	0	0	0	0	1	27	0	0	0	0	44
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NARA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 36 ANNEES

PERIODE	MOIS	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	2	7	0	0	2	0	12
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	22
14	0	0	0	0	0	0	0	0	2	6	0	0	0	0	11
15	0	0	0	0	0	0	1	4	6	11	0	0	5	0	16
16	5	0	0	0	2	5	7	13	20	22	0	5	18	0	29
17	7	0	0	2	4	7	11	18	27	36	2	7	22	0	56
18	18	2	4	8	15	18	21	27	33	50	6	18	29	1	61
19	27	4	7	11	19	27	31	43	46	65	9	27	43	4	102
20	46	7	25	32	37	46	48	61	71	88	31	46	65	41	102
21	50	15	26	27	38	50	56	63	71	85	26	50	67	33	127
22	50	21	29	33	45	50	50	65	79	114	31	50	72	25	124
23	56	22	35	56	59	56	74	89	98	137	46	66	93	23	159
24	50	9	19	23	33	50	59	72	80	105	22	50	79	39	126
25	39	5	11	17	23	39	44	55	64	69	14	39	61	40	71
26	25	3	5	12	20	25	29	42	46	50	11	25	45	2	63
27	19	0	5	6	11	19	21	25	35	45	6	19	33	12	52
28	3	0	0	0	0	3	8	10	13	21	0	3	12	0	32
29	0	0	0	0	0	0	0	3	6	11	0	0	4	0	24
30	0	0	0	0	0	0	0	3	5	22	0	0	3	2	27
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 36 ANNEES

PERIODE	MOIS	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	2	7	0	0	2	0	12
13	0	0	0	0	0	0	0	0	0	5	0	0	0	0	22
14	0	0	0	0	0	0	0	0	2	6	0	0	0	0	11
15	0	0	0	0	0	0	1	4	6	11	0	0	5	0	16
16	5	0	0	0	2	5	7	13	20	22	0	5	18	0	29
17	7	0	0	2	4	7	11	18	27	36	2	7	22	0	38
18	14	2	4	10	15	18	23	28	34	34	8	18	32	1	34
19	30	5	10	15	26	31	30	30	30	30	14	30	30	4	30
20	27	20	27	27	27	27	27	27	27	27	27	27	27	22	27
21	36	25	36	36	36	36	36	36	36	36	36	36	36	28	36
22	38	34	38	38	38	38	38	38	38	38	38	38	38	38	38
23	43	43	43	43	43	43	43	43	43	43	43	43	43	41	43
24	56	31	44	53	56	56	56	56	56	56	52	56	56	38	56
25	47	12	25	35	40	47	49	50	50	50	32	47	50	28	50
26	47	7	20	23	28	37	41	44	47	50	21	37	45	16	50
27	24	0	5	13	19	24	27	35	39	45	9	24	37	12	48
28	4	0	0	0	3	4	10	12	14	23	0	9	13	0	39
29	0	0	0	0	0	0	0	4	6	15	0	0	4	0	28
30	0	0	0	0	0	0	0	3	5	22	0	0	4	2	27
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 36 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	24	25	25	25	25	25	25	25	25	25	25	25	23	25
2	26	22	26	26	26	26	26	26	26	26	26	26	26	22	26
3	30	28	30	30	30	30	30	30	30	30	30	30	30	23	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
5	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
6	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
7	34	34	34	34	34	34	34	34	34	34	34	34	34	32	34
8	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
9	41	41	41	41	41	41	41	41	41	41	41	41	41	37	41
10	37	36	37	37	37	37	37	37	37	37	37	37	37	35	37
11	38	35	38	38	38	38	38	38	38	38	38	38	38	36	38
12	38	28	35	37	38	38	38	38	38	38	35	38	38	23	38
13	40	17	37	40	40	40	40	40	40	40	40	40	40	28	40
14	40	28	36	39	40	40	40	40	40	40	37	40	40	29	40
15	43	29	37	38	41	43	43	43	43	43	37	43	43	13	43
16	33	9	17	19	29	33	35	36	38	38	18	33	38	17	38
17	30	0	6	15	24	30	32	34	36	38	11	30	36	14	38
18	14	0	0	1	8	14	16	20	26	31	0	14	25	10	32
19	0	0	0	0	0	0	2	10	15	22	0	0	14	12	25
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3	3	3	3	3	3	3	4	7	16	3	3	6	3	28
25	5	3	3	3	3	5	8	14	21	30	3	5	17	3	40
26	15	3	4	8	10	15	22	26	31	38	6	15	29	8	46
27	24	0	4	11	18	24	27	30	39	47	9	24	35	8	49
28	34	3	25	29	32	34	38	41	43	43	29	34	42	21	43
29	39	10	31	34	37	39	39	39	39	39	33	39	39	10	39
30	35	7	24	31	34	35	35	35	35	35	31	35	35	14	35
31	25	13	25	25	25	25	25	25	25	25	25	25	25	12	25
32	25	23	25	25	25	25	25	25	25	25	25	25	25	12	25
33	24	20	24	24	24	24	24	24	24	24	24	24	24	20	24
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	22	21	22	22	22	22	22	22	22	22	22	22	22	11	22
36	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 36 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
20	0	0	0	0	0	0	0	0	11	30	0	0	4	0	48
21	4	0	0	0	0	4	11	23	27	42	0	4	25	12	58
22	1	0	0	0	0	1	11	14	36	54	0	1	32	1	76
23	26	0	0	0	13	26	28	44	53	96	0	26	50	0	120
24	4	0	0	0	0	4	10	23	35	56	0	4	32	17	58
25	0	0	0	0	0	0	0	0	0	2	0	0	0	11	11
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NIAFOUNKE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
15	0	0	0	0	0	0	0	0	3	5	0	0	1	0	19
16	2	0	0	0	0	1	2	3	4	7	0	1	3	0	23
17	2	0	0	0	0	2	3	6	12	25	0	2	9	0	33
18	2	0	0	0	1	2	3	5	11	16	0	2	8	0	21
19	12	0	0	3	6	11	18	21	29	40	1	11	22	0	45
20	21	6	11	15	17	20	26	35	44	61	12	20	39	3	70
21	28	1	10	15	21	27	33	42	49	63	13	27	46	0	83
22	28	3	7	14	22	27	31	43	52	58	11	27	47	1	78
23	36	13	19	23	27	33	42	57	73	92	20	33	67	9	113
24	34	3	11	22	28	33	40	42	46	53	13	33	46	0	80
25	30	2	5	15	24	29	36	45	56	72	7	29	52	0	79
26	19	0	1	3	6	18	23	25	35	57	2	18	28	0	59
27	10	0	0	1	4	9	12	17	21	37	0	9	18	0	47
28	0	0	0	0	0	0	0	2	6	21	0	0	3	0	25
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION PEELLE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
15	0	0	0	0	0	0	0	0	3	5	0	0	1	0	19
16	2	0	0	0	0	1	2	3	5	14	0	1	4	0	25
17	2	0	0	0	0	2	4	9	14	32	0	2	12	0	36
18	2	0	0	0	1	2	4	5	10	16	0	2	8	0	21
19	12	0	0	3	6	11	18	21	29	35	1	11	22	0	35
20	22	7	12	16	17	21	28	34	34	34	14	21	34	3	34
21	38	2	13	21	29	37	42	43	43	43	18	37	43	0	43
22	36	10	14	21	28	36	42	44	44	44	16	36	44	3	44
23	45	16	21	28	37	45	48	48	48	48	25	45	48	9	48
24	45	7	17	31	34	44	46	52	63	63	23	44	55	1	63
25	36	2	14	21	27	35	38	47	55	56	20	35	50	0	56
26	24	0	2	4	11	23	28	34	40	52	3	23	38	0	53
27	12	0	0	2	4	12	15	19	26	39	0	12	23	0	46
28	0	0	0	0	0	0	1	3	10	24	0	0	5	0	28
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	18	22
2	22	22	22	22	22	22	22	22	22	22	22	22	22	19	22
3	25	24	25	25	25	25	25	25	25	25	25	25	25	23	25
4	24	24	24	24	24	24	24	24	24	24	24	24	24	17	24
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
7	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
8	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32
9	37	37	37	37	37	37	37	37	37	37	37	37	37	35	37
10	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
11	35	34	35	35	35	35	35	35	35	35	35	35	35	30	35
12	36	32	36	36	36	36	36	36	36	36	36	36	36	20	36
13	37	31	37	37	37	37	37	37	37	37	37	37	37	17	37
14	38	35	38	38	38	38	38	38	38	38	38	38	38	34	38
15	42	22	38	41	42	42	42	42	42	42	39	42	42	9	42
16	35	11	31	33	34	35	37	37	37	37	32	35	37	0	37
17	34	0	11	24	31	34	36	37	37	37	22	34	37	0	37
18	33	15	23	27	30	32	34	36	36	36	25	32	36	6	36
19	22	0	1	13	16	21	28	30	33	35	10	21	31	0	35
20	9	0	0	0	1	8	13	17	19	24	0	8	18	0	26
21	5	0	0	0	0	5	12	19	24	35	0	5	21	0	40
22	3	0	0	0	0	3	14	17	27	31	0	3	22	0	34
23	2	0	0	0	0	1	7	16	24	30	0	1	20	0	32
24	21	3	3	11	19	21	28	34	43	55	3	21	39	3	60
25	24	3	3	9	17	23	27	35	39	50	5	23	37	3	57
26	29	0	10	16	21	29	36	47	50	53	14	25	48	0	53
27	34	0	15	25	30	33	39	43	46	47	21	33	45	0	47
28	41	12	24	36	38	41	41	41	41	41	30	41	41	3	41
29	34	28	34	34	34	34	34	34	34	34	34	34	34	26	34
30	30	30	30	30	30	30	30	30	30	30	30	30	30	8	30
31	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	23	23	23	23	23	23	23	23	23	23	23	23	23	17	23
34	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
35	21	21	21	21	21	21	21	21	21	21	21	21	21	13	21
36	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
22	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
23	0	0	0	0	0	0	0	0	0	20	0	0	0	0	41
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STOKO

VARIABLE : PLUIE EM MM EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
11	0	0	0	0	0	0	0	0	2	6	0	0	1	0	6
12	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
13	0	0	0	0	0	0	0	6	11	18	0	0	9	0	18
14	0	0	0	0	0	0	0	0	5	11	0	0	3	1	11
15	3	0	1	1	1	3	5	11	15	20	1	3	12	0	20
16	10	0	1	6	8	10	15	17	19	27	3	10	17	4	27
17	9	0	1	4	6	9	19	38	51	65	3	9	41	9	65
18	6	0	0	2	4	6	12	29	40	44	0	6	38	0	44
19	35	2	5	15	27	35	40	53	61	67	10	35	56	8	67
20	44	6	16	25	29	44	53	58	74	83	20	44	66	24	83
21	46	2	11	32	33	46	82	92	98	124	23	46	95	4	124
22	45	4	19	29	42	45	51	61	108	166	28	45	84	15	166
23	62	12	25	39	51	62	71	86	102	123	33	62	91	22	123
24	66	10	28	36	50	66	70	80	107	141	34	66	85	21	141
25	35	6	16	19	29	35	40	44	50	111	16	35	47	19	111
26	32	2	9	19	21	32	39	53	58	67	16	32	55	19	67
27	6	0	0	1	3	6	11	29	50	70	0	6	39	3	70
28	2	0	0	0	0	2	4	15	18	24	0	2	16	4	24
29	1	0	0	0	0	1	2	4	8	14	0	1	6	2	14
30	0	0	0	0	0	0	0	0	4	18	0	0	2	0	18
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
11	0	0	0	0	0	0	0	0	2	6	0	0	1	0	6
12	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
13	0	0	0	0	0	0	0	6	11	18	0	0	9	0	18
14	0	0	0	0	0	0	0	1	5	11	0	0	3	2	11
15	3	0	1	1	1	3	5	11	15	20	1	3	12	0	20
16	10	0	1	6	8	10	15	17	19	27	3	10	17	4	27
17	12	0	3	5	7	12	30	37	37	37	4	12	37	9	37
18	18	0	1	3	8	18	29	35	35	35	2	18	35	7	35
19	33	2	5	16	30	33	33	33	33	33	10	33	33	8	33
20	37	5	25	33	37	37	37	37	37	37	28	37	37	20	37
21	46	10	28	43	46	46	46	46	46	46	37	46	46	25	46
22	46	7	25	35	46	46	46	46	46	46	28	46	46	25	46
23	52	12	48	52	52	52	52	52	52	52	51	52	52	27	52
24	56	9	47	53	56	56	56	56	56	56	49	56	56	24	56
25	43	10	25	33	39	43	46	50	51	51	31	43	51	20	51
26	40	4	20	23	30	40	44	49	50	50	21	40	50	20	50
27	16	0	0	7	10	16	31	38	51	51	3	16	46	4	51
28	10	0	0	0	2	10	18	20	23	30	0	10	22	7	30
29	1	0	0	0	0	1	2	4	8	19	0	1	6	2	19
30	0	0	0	0	0	0	0	0	4	18	0	0	2	0	18
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	13	25	25	25	25	25	25	25	25	25	25	25	13	25
2	26	14	26	26	26	26	26	26	26	26	26	26	26	14	26
3	30	16	30	30	30	30	30	30	30	30	30	30	30	16	30
4	28	15	28	28	28	28	28	28	28	28	28	28	28	15	28
5	29	15	29	29	29	29	29	29	29	29	29	29	29	15	29
6	28	15	28	28	28	28	28	28	28	28	28	28	28	15	28
7	33	15	33	33	33	33	33	33	33	33	33	33	33	11	33
8	36	17	36	36	36	36	36	36	36	36	36	36	36	19	36
9	40	21	38	40	40	40	40	40	40	40	39	40	40	22	40
10	36	11	35	36	36	36	36	36	36	36	36	36	36	19	36
11	36	14	30	34	36	36	36	36	36	36	32	36	36	19	36
12	37	8	30	36	37	37	37	37	37	37	35	37	37	20	37
13	37	1	21	27	35	37	37	37	37	37	26	37	37	10	37
14	38	9	26	33	37	38	38	38	38	38	31	38	38	17	38
15	35	3	21	25	29	35	38	40	40	40	22	35	40	20	40
16	24	1	10	17	20	24	28	29	30	36	14	24	29	10	36
17	14	0	0	0	0	14	25	29	31	34	0	14	30	0	34
18	7	0	0	0	0	7	20	26	31	34	0	7	28	5	34
19	0	0	0	0	0	0	0	9	18	27	0	0	15	0	27
20	0	0	0	0	0	0	0	0	3	12	0	0	0	0	12
21	0	0	0	0	0	0	0	0	3	18	0	0	1	0	18
22	0	0	0	0	0	0	0	0	0	9	20	0	0	1	0	20
23	3	1	3	3	3	3	3	3	3	7	3	3	3	1	7
24	3	1	3	3	3	3	3	4	10	14	3	3	6	1	14
25	9	2	3	3	5	9	12	17	21	29	3	9	19	2	29
26	10	2	3	3	6	10	16	22	30	33	3	10	26	2	33
27	30	3	3	7	20	30	41	45	47	55	3	30	45	3	55
28	34	1	26	28	31	34	39	48	51	51	26	34	49	7	51
29	43	8	26	38	41	43	44	45	46	46	35	43	46	22	46
30	44	13	33	42	44	44	44	44	44	44	40	44	44	2	44
31	35	19	35	35	35	35	35	35	35	35	35	35	35	15	35
32	29	15	29	29	29	29	29	29	29	29	29	29	29	15	29
33	27	10	27	27	27	27	27	27	27	27	27	27	27	14	27
34	25	13	25	25	25	25	25	25	25	25	25	25	25	13	25
35	24	7	24	24	24	24	24	24	24	24	24	24	24	11	24
36	28	15	28	28	28	28	28	28	28	28	28	28	28	15	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 20 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
20	0	0	0	0	0	0	0	2	18	27	0	0	10	0	27
21	0	0	0	0	0	0	9	39	55	67	0	0	48	0	67
22	0	0	0	0	0	0	0	11	44	111	0	0	22	0	111
23	1	0	0	0	0	1	14	32	44	60	0	1	38	0	60
24	7	0	0	0	0	7	17	23	53	83	0	7	29	0	83
25	0	0	0	0	0	0	0	0	0	54	0	0	0	0	54
26	0	0	0	0	0	0	0	0	1	7	0	0	0	0	7
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NIORO DU SAHEL

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	5	0	0	0	0	11
12	0	0	0	0	0	0	0	0	1	10	0	0	0	0	19
13	0	0	0	0	0	0	0	0	1	6	0	0	0	0	16
14	0	0	0	0	0	0	0	0	2	6	0	0	0	0	10
15	1	0	0	0	0	1	3	8	18	36	0	1	13	0	43
16	5	0	0	1	3	5	7	12	15	27	0	5	14	0	32
17	20	0	3	8	13	20	23	31	42	51	4	20	33	0	65
18	24	3	6	9	15	24	26	37	42	68	7	24	39	0	97
19	34	10	14	26	30	34	48	54	75	88	18	34	57	0	100
20	43	13	23	33	37	43	47	57	75	103	24	43	62	4	113
21	58	17	25	37	53	58	79	93	111	146	31	68	100	13	154
22	56	13	26	35	47	56	61	81	101	156	28	56	88	0	196
23	66	28	34	44	57	66	82	101	122	184	41	66	111	6	252
24	66	15	37	47	56	66	88	122	141	163	44	66	137	4	169
25	42	15	21	26	33	42	56	69	80	99	22	42	71	6	119
26	36	6	14	20	25	39	46	56	64	87	16	39	58	2	109
27	19	6	1	5	13	19	23	33	41	55	3	19	34	0	59
28	11	0	0	1	4	11	12	19	25	32	0	11	21	0	41
29	0	0	0	0	0	0	1	7	15	20	0	0	9	0	30
30	0	0	0	0	0	0	0	1	2	8	0	0	1	0	18
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	8	0	0	0	0	11
12	0	0	0	0	0	0	0	0	1	10	0	0	0	0	19
13	0	0	0	0	0	0	0	0	1	6	0	0	1	0	16
14	0	0	0	0	0	0	0	0	2	7	0	0	1	0	11
15	1	0	0	0	0	0	2	8	18	36	0	0	13	0	43
16	5	2	1	2	4	5	10	16	18	32	1	6	15	0	37
17	21	0	3	8	16	21	25	31	40	40	5	21	33	0	40
18	24	6	8	10	16	24	29	33	33	33	9	24	33	0	33
19	32	11	22	30	32	32	32	32	32	32	27	32	32	4	32
20	29	24	29	29	29	29	29	29	29	29	29	29	29	12	29
21	41	31	41	41	41	41	41	41	41	41	41	41	41	16	41
22	48	35	46	47	48	48	48	48	48	48	48	48	48	17	48
23	52	46	50	52	52	52	52	52	52	52	51	52	52	14	52
24	58	32	54	58	58	58	58	58	58	58	57	58	58	26	58
25	50	27	35	39	46	49	51	51	51	51	38	49	51	20	51
26	44	16	23	33	39	46	49	51	51	51	27	44	51	8	51
27	49	1	19	19	26	38	34	34	45	51	14	38	42	0	52
28	12	0	1	4	8	12	16	24	27	38	1	12	25	0	48
29	0	0	0	0	0	0	3	9	19	29	0	0	13	0	38
30	0	0	0	0	0	0	0	1	3	18	0	0	2	0	21
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

REPETITION	ANNEE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	1	24	24	24	24	24	24	24	24	24	24	24	24	23	24
2	2	25	25	25	25	25	25	25	25	25	25	25	25	17	25
3	3	29	29	29	29	29	29	29	29	29	29	29	29	27	29
4	4	27	27	27	27	27	27	27	27	27	27	27	27	16	27
5	5	29	29	29	29	29	29	29	29	29	29	29	29	29	29
6	6	28	28	28	28	28	28	28	28	28	28	28	28	27	28
7	7	33	33	33	33	33	33	33	33	33	33	33	33	32	33
8	8	36	36	36	36	36	36	36	36	36	36	36	36	36	36
9	9	40	40	40	40	40	40	40	40	40	40	40	40	39	40
10	10	37	37	37	37	37	37	37	37	37	37	37	37	17	37
11	11	38	38	37	38	38	38	38	38	38	38	38	38	20	38
12	12	39	38	38	39	39	39	39	39	39	39	39	39	15	39
13	13	40	39	38	39	40	40	40	40	40	40	39	40	4	40
14	14	41	32	39	40	41	41	41	41	41	41	39	41	27	41
15	15	44	4	24	33	41	44	45	45	45	45	29	44	45	0	45
16	16	34	6	17	25	29	34	35	37	38	40	22	34	38	0	40
17	17	18	0	0	7	13	18	23	30	35	39	0	18	33	0	40
18	18	9	0	0	0	3	6	16	23	25	28	0	9	24	0	30
19	19	0	0	0	0	0	0	0	1	7	18	0	0	2	0	22
20	20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
21	21	0	0	0	0	0	0	0	0	0	5	0	0	0	0	17
22	22	2	2	2	2	2	2	2	3	4	11	2	2	3	2	15
23	23	3	3	3	3	3	3	3	3	5	8	3	3	3	3	12
24	24	3	3	3	3	3	3	3	3	6	28	3	3	3	3	30
25	25	6	3	3	3	3	6	8	14	17	25	3	6	15	3	28
26	26	9	3	3	3	5	9	14	20	30	38	3	9	23	3	39
27	27	24	3	4	10	20	24	29	35	44	51	10	24	39	3	54
28	28	37	5	21	24	33	37	40	45	49	50	23	37	47	0	50
29	29	44	11	26	34	40	44	45	45	45	45	27	44	45	0	45
30	30	41	22	37	39	41	41	41	41	41	41	37	41	41	8	41
31	31	31	26	31	31	31	31	31	31	31	31	31	31	31	16	31
32	32	24	24	24	24	24	24	24	24	24	24	24	24	24	20	24
33	33	23	16	23	23	23	23	23	23	23	23	23	23	23	7	23
34	34	22	22	22	22	22	22	22	22	22	22	22	22	22	18	22
35	35	22	20	22	22	22	22	22	22	22	22	22	22	22	12	22
36	36	25	25	25	25	25	25	25	25	25	25	25	25	25	22	25

FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

REPETITION	ANNEE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	12
18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	19
19	19	0	0	0	0	0	0	0	2	10	0	0	0	0	50
20	20	0	0	0	0	0	0	0	10	18	47	0	0	12	0	60
21	21	15	0	0	0	0	15	26	53	75	97	0	15	63	0	121
22	22	5	0	0	0	0	5	11	30	53	108	0	5	42	0	146
23	23	13	0	0	0	0	13	25	38	64	123	0	13	46	0	204
24	24	10	0	0	0	0	10	30	46	63	102	0	10	70	0	112
25	25	0	0	0	0	0	0	0	7	17	34	0	0	10	0	46
26	26	0	0	0	0	0	0	0	0	2	23	0	0	0	0	42
27	27	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SAN

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MENSUEL	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9	0	0	0	0	0	0	0	0	0	3	6	0	0	1	7
10	0	0	0	0	0	0	0	0	0	5	12	0	0	2	0	35
11	0	0	0	0	0	0	0	0	0	5	14	0	0	2	0	21
12	0	0	0	0	0	0	0	1	4	9	18	0	0	6	0	27
13	4	0	6	0	0	0	4	7	10	16	32	0	4	12	0	43
14	5	0	0	1	2	3	5	8	12	17	25	1	5	12	0	26
15	11	0	2	6	8	11	20	24	30	55	4	11	26	0	57
16	22	3	7	10	14	22	31	39	58	70	7	22	53	0	78
17	23	2	7	15	19	23	28	38	56	70	12	23	44	0	76
18	32	2	16	20	25	32	34	47	56	70	18	32	51	0	83
19	40	15	24	30	35	40	47	53	64	80	28	40	59	6	90
20	56	19	37	44	48	54	63	75	88	100	40	54	79	5	112
21	67	22	36	47	59	67	75	90	101	116	42	67	93	10	133
22	73	27	37	54	68	73	95	106	118	139	45	73	114	20	153
23	74	33	49	56	61	74	82	88	108	133	52	74	93	19	162
24	83	33	44	66	74	83	89	95	116	124	52	83	104	29	136
25	53	14	24	40	48	53	62	69	82	100	31	53	77	8	121
26	38	6	17	25	31	38	46	50	75	98	24	38	62	0	111
27	17	1	4	8	11	17	22	29	41	54	6	17	36	0	56
28	13	0	1	4	7	13	15	20	28	44	3	13	24	0	55
29	1	0	0	0	0	1	2	5	11	18	0	1	8	0	23
30	0	0	0	0	0	0	0	1	3	11	0	0	3	0	19
31	0	0	0	0	0	0	0	0	0	10	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MENSUEL	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9	0	0	0	0	0	0	0	0	0	3	6	0	0	1	7
10	0	0	0	0	0	0	0	0	1	5	12	0	0	2	0	31
11	0	0	0	0	0	0	0	0	0	8	17	0	0	5	0	21
12	0	0	0	0	0	0	0	1	4	9	18	0	0	6	0	27
13	4	0	0	0	0	0	4	7	10	17	31	0	4	12	0	32
14	5	0	0	2	4	5	9	15	21	26	2	5	17	0	29
15	11	0	2	6	8	11	20	24	36	36	4	11	26	0	36
16	25	4	7	10	17	25	31	31	31	31	8	25	31	0	31
17	30	10	19	23	30	30	30	30	30	30	21	30	30	1	30
18	29	14	29	29	29	29	29	29	29	29	28	29	29	5	29
19	34	29	34	34	34	34	34	34	34	34	34	34	34	6	34
20	38	38	38	38	38	38	38	38	38	38	38	38	38	26	38
21	46	46	46	46	46	46	46	46	46	46	46	46	46	42	46
22	47	45	46	47	47	47	47	47	47	47	47	47	47	43	47
23	45	44	45	45	45	45	45	45	45	45	45	45	45	36	45
24	50	46	50	50	50	50	50	50	50	50	50	50	50	46	50
25	46	42	44	46	46	46	46	46	46	46	44	46	46	38	46
26	46	34	41	43	44	46	47	47	47	47	42	46	47	26	47
27	42	26	31	35	38	42	43	45	47	48	33	42	46	20	48
28	33	17	19	23	27	33	37	38	42	46	21	33	41	13	48
29	19	3	6	10	15	19	20	23	26	35	7	19	24	0	42
30	6	0	0	4	4	6	7	9	12	24	1	6	11	0	27
31	0	0	0	0	0	0	0	3	10	12	0	0	5	0	15
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETMEETO EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	17	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	18	23
3	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
4	25	25	25	25	25	25	25	25	25	25	25	25	25	21	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
7	30	28	30	30	30	30	30	30	30	30	30	30	30	19	30
8	31	30	31	31	31	31	31	31	31	31	31	31	31	15	31
9	35	28	31	35	35	35	35	35	35	35	31	35	35	17	35
10	31	14	25	29	31	31	31	31	31	31	27	31	31	0	31
11	31	10	22	30	31	31	31	31	31	31	23	31	31	4	31
12	31	10	22	26	30	31	32	32	32	32	23	31	32	0	32
13	27	0	12	20	26	27	32	32	32	32	16	27	32	0	32
14	27	6	11	18	23	27	29	30	32	33	13	27	31	0	33
15	22	0	0	11	14	22	26	29	32	35	4	22	29	0	36
16	6	0	0	0	0	6	11	20	23	26	0	6	21	0	30
17	0	0	0	0	0	0	0	6	9	17	0	0	6	0	22
18	0	0	0	0	0	0	0	0	4	12	0	0	0	0	17
19	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
24	3	3	3	3	3	3	3	3	3	3	3	3	3	2	4
25	2	2	2	2	2	2	2	2	4	6	2	2	3	2	7
26	3	2	2	2	2	3	4	6	7	9	2	3	6	2	12
27	8	2	3	5	7	8	11	14	17	23	3	8	16	2	25
28	18	4	9	13	15	18	22	27	31	34	10	18	29	2	35
29	29	6	23	23	27	29	32	36	41	43	22	29	38	1	44
30	38	19	30	35	38	39	41	42	45	46	34	39	44	10	46
31	36	21	26	31	35	35	36	36	36	36	26	36	36	16	36
32	30	26	30	30	30	30	30	30	30	30	30	30	30	9	30
33	23	21	23	23	23	23	23	23	23	23	23	23	23	7	23
34	22	22	22	22	22	22	22	22	22	22	22	22	22	16	22
35	20	20	20	20	20	21	20	20	20	20	20	20	20	12	20
36	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
20	0	0	0	0	0	0	0	3	11	44	0	0	7	0	45
21	7	0	0	0	0	7	17	29	45	60	0	7	34	0	65
22	19	0	0	0	2	19	29	48	60	80	0	19	54	0	100
23	19	0	0	0	11	19	29	35	47	85	0	19	39	0	114
24	31	0	0	11	24	31	39	48	67	78	0	31	52	0	90
25	1	0	0	0	0	1	8	16	26	40	0	1	18	0	63
26	0	0	0	0	0	0	0	3	28	51	0	0	11	0	58
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SEGOU

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 45 ANNEES

DEC	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	0	0	0	0	10
9	0	0	0	0	0	0	0	0	1	0	0	0	0	3
10	0	0	0	0	0	0	0	2	5	0	0	0	0	8
11	0	0	0	0	0	0	1	4	14	0	0	2	0	20
12	0	0	0	0	0	0	4	9	17	0	0	5	0	34
13	1	0	0	0	0	1	3	5	8	14	0	1	6	0	20
14	3	0	0	0	1	2	5	10	16	28	0	2	11	0	33
15	3	0	0	1	3	4	5	13	18	29	1	4	15	0	42
16	22	1	4	4	10	22	26	29	37	54	5	22	32	0	65
17	21	1	4	11	16	21	26	38	50	64	10	21	43	0	74
18	32	1	7	12	20	30	34	44	50	67	9	30	47	0	76
19	44	11	20	24	34	48	56	63	73	82	24	48	67	6	90
20	47	22	34	44	60	55	65	73	86	101	38	56	76	8	111
21	52	24	36	47	58	62	71	79	95	122	41	62	82	17	140
22	74	31	47	56	67	74	88	93	103	120	52	74	95	18	136
23	77	34	53	61	66	75	80	103	111	142	46	75	104	3	157
24	84	32	63	63	68	75	83	104	130	146	46	66	89	16	155
25	87	34	64	61	68	67	73	91	107	36	57	82	6	126
26	61	15	25	28	38	44	51	61	78	18	38	55	4	89
27	17	1	4	4	13	15	22	25	42	50	8	15	30	0	56
28	5	0	0	1	4	5	8	14	22	35	0	5	17	0	44
29	1	0	0	0	1	2	6	14	25	0	1	10	0	38
30	0	0	0	0	0	0	0	3	9	0	0	1	0	30
31	0	0	0	0	0	0	0	0	2	0	0	0	0	14
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION POTELLE EN MM EFFECTIF DE L ECHANTILLON 45 ANNEES

DEC	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	0	0	0	0	10
9	0	0	0	0	0	0	0	0	1	0	0	0	0	3
10	0	0	0	0	0	0	0	0	2	5	0	0	0	8
11	0	0	0	0	0	0	0	1	4	14	0	0	2	0	20
12	0	0	0	0	0	0	0	4	12	21	0	0	5	0	31
13	1	0	0	0	0	1	3	4	12	17	0	1	7	0	22
14	4	0	0	0	1	2	7	11	19	28	0	2	13	0	32
15	6	0	1	2	3	5	8	15	19	29	1	5	16	0	36
16	23	4	5	10	22	27	29	32	32	32	5	22	32	0	32
17	26	7	13	17	20	25	31	31	31	31	13	25	31	0	31
18	30	6	14	26	28	30	30	30	30	30	18	30	30	0	30
19	34	17	33	34	34	34	34	34	34	34	34	34	34	12	34
20	37	37	37	37	37	37	37	37	37	37	37	37	37	31	37
21	45	45	45	45	45	45	45	45	45	45	45	45	45	24	45
22	47	47	47	47	47	47	47	47	47	48	48	48	48	43	48
23	46	42	46	46	46	46	46	46	46	46	46	46	46	37	46
24	50	47	50	50	50	50	50	50	50	50	50	50	50	40	50
25	46	39	43	45	46	46	46	46	46	46	44	46	46	33	46
26	45	38	40	43	46	46	46	46	46	46	42	44	46	28	46
27	42	26	32	35	39	42	44	45	46	47	34	42	45	13	47
28	32	8	19	24	28	31	34	35	40	44	21	31	38	3	46
29	12	1	4	12	16	17	22	24	29	34	12	17	25	0	39
30	6	0	0	0	2	4	6	11	15	24	0	4	12	0	32
31	0	0	0	0	0	0	2	3	14	0	0	3	0	15
32	0	0	0	0	0	0	0	0	0	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : [illegible] EN MM — EFFECTIF DE L'ECHANTILLON 45 ANNEES

DEC	EFFECTIF	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1		25	25	25	25	25	25	25	25	25	25	25	25	22	25
2		25	25	25	25	25	25	25	25	25	25	25	25	24	25
3		28	28	28	28	28	28	28	28	28	28	28	28	28	28
4		26	26	26	26	26	26	26	26	26	26	26	26	19	26
5		27	27	27	27	27	27	27	27	27	27	27	27	27	27
6		26	26	26	26	26	26	26	26	26	26	26	26	26	26
7		30	30	31	30	30	30	30	30	30	30	30	30	25	30
8		32	31	32	32	32	32	32	32	32	32	32	32	14	32
9		36	33	36	36	36	36	36	36	36	36	36	36	17	36
10		32	25	29	32	32	32	32	32	32	30	32	32	9	32
11		32	12	25	29	32	32	32	32	32	28	32	32	3	32
12		33	6	20	28	32	33	33	33	33	26	33	33	0	33
13		32	12	20	25	29	32	33	33	33	24	32	33	0	33
14		31	7	15	21	27	31	32	34	34	19	30	34	0	34
15		31	8	17	20	26	30	32	34	35	16	30	34	0	36
16		9	0	0	0	4	8	17	25	27	31	0	8	26	0	32
17		5	0	0	0	0	4	10	13	19	24	0	4	15	0	29
18		0	0	0	0	0	0	1	6	15	20	0	0	10	0	25
19		0	0	0	0	0	0	0	0	0	11	0	0	0	0	16
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
23		2	2	2	2	2	2	2	2	2	4	2	2	2	2	6
24		3	2	2	3	3	3	3	3	3	4	3	3	3	2	5
25		2	2	2	2	2	2	2	2	2	4	2	2	2	2	8
26		3	2	2	2	2	3	4	5	7	8	2	3	5	2	13
27		7	2	3	4	5	7	9	12	16	22	3	7	14	2	29
28		14	5	8	13	16	17	21	24	29	35	10	17	26	2	41
29		16	7	14	20	23	27	30	32	36	42	18	27	33	0	45
30		40	12	28	31	37	41	43	44	44	44	29	39	44	0	44
31		34	20	30	32	34	35	35	35	35	35	31	35	35	4	35
32		29	25	27	29	29	29	29	29	29	29	29	29	29	11	29
33		24	21	24	24	24	24	24	24	24	24	24	24	24	9	24
34		24	24	24	24	24	24	24	24	24	24	24	24	24	22	24
35		23	23	23	23	23	23	23	23	23	23	23	23	23	17	23
36		26	26	26	26	26	26	26	26	26	26	26	26	26	22	26

VARIABLE : [illegible] EN MM — EFFECTIF DE L'ECHANTILLON 45 ANNEES

DEC	EFFECTIF	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		0	0	0	0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0	0	0	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0
28		0	0	0	0	0	0	0	0	0	0	0	0	0	0
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		0	0	0	0	0	0	0	0	0	0	0	0	0	0
35		0	0	0	0	0	0	0	0	0	0	0	0	0	0
36		0	0	0	0	0	0	0	0	0	0	0	0	0	0

SIKASSO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

CENTILE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
6	0	0	0	0	0	0	0	0	0	4	0	0	0	0	14
7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	11
8	0	0	0	0	0	0	0	0	0	5	11	0	0	2	0	20
9	1	0	0	0	0	0	3	5	8	14	27	0	3	11	0	36
10	3	0	0	0	0	0	4	10	15	20	35	0	3	16	0	45
11	4	0	0	0	2	4	6	9	19	27	44	1	6	24	0	53
12	9	15	0	1	4	8	15	20	27	36	57	2	15	31	0	63
13	14	1	3	12	17	19	26	32	40	58	5	19	34	0	89
14	23	3	0	13	16	23	30	40	45	56	9	23	41	1	58
15	44	7	20	25	41	46	54	59	71	87	23	44	64	1	108
16	40	12	13	25	35	40	51	60	77	87	23	40	66	2	98
17	47	15	35	41	52	57	59	66	75	92	37	57	69	-2	100
18	54	21	37	39	44	54	62	68	79	100	38	54	68	-1	110
19	62	32	39	45	58	62	73	86	91	109	42	62	85	11	119
20	77	27	39	45	65	77	89	106	131	157	42	77	115	17	165
21	105	62	77	88	97	105	114	130	137	190	81	105	135	49	202
22	96	44	57	65	79	94	107	116	133	165	59	94	124	28	170
23	105	51	58	81	93	105	111	128	147	218	73	105	132	41	237
24	118	46	63	76	97	113	124	151	167	201	65	110	158	29	216
25	91	41	61	75	83	91	105	127	141	175	65	91	129	12	197
26	78	36	56	64	67	78	79	91	112	148	40	78	97	17	171
27	73	15	27	35	41	62	66	65	74	95	31	52	72	12	104
28	61	6	14	25	28	61	56	61	77	90	20	41	69	2	100
29	35	2	5	10	18	25	37	42	49	64	6	25	46	0	71
30	13	0	2	5	8	13	16	20	25	47	4	13	21	0	57
31	6	0	0	0	3	6	11	14	21	28	0	6	16	0	29
32	3	0	0	0	0	0	0	0	3	10	0	0	1	0	18
33	2	0	0	0	0	0	0	0	1	5	0	0	0	0	9
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION PELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

CENTILE	MOYENNE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	1	0	0	0	0	0	0	0	0	4	0	0	0	0	13
6	3	0	0	0	0	0	0	0	0	8	0	0	0	0	19
7	5	0	0	0	0	0	0	0	0	11	0	0	0	0	25
8	5	0	0	0	0	0	0	0	2	11	0	0	4	0	26
9	7	0	0	0	1	3	6	11	21	27	0	3	14	0	29
10	5	0	0	0	0	5	11	16	23	26	0	5	17	0	26
11	10	0	1	3	5	10	16	25	26	26	2	10	26	0	26
12	23	0	6	8	15	20	26	26	26	26	6	20	26	0	26
13	27	1	9	16	20	27	27	27	27	27	8	27	27	0	27
14	27	7	13	22	27	27	27	27	27	27	17	27	27	3	27
15	34	17	27	34	34	34	34	34	34	34	33	34	34	3	34
16	35	25	33	35	35	35	35	35	35	35	35	35	35	17	35
17	39	35	39	39	39	39	39	39	39	39	39	39	39	8	39
18	45	43	44	45	45	45	45	45	45	45	45	45	45	3	45
19	43	40	41	43	43	43	43	43	43	43	43	43	43	34	43
20	42	40	42	42	42	42	42	42	42	42	42	42	42	33	42
21	45	45	45	45	45	45	45	45	45	45	45	45	45	44	45
22	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
23	39	36	39	39	39	39	39	39	39	39	39	39	39	39	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	40	40	40	40	40	40	40	40	40	40	40	40	40	37	40
26	40	36	39	40	40	40	40	40	40	40	39	40	40	36	40
27	42	41	41	42	42	42	42	42	42	42	41	42	42	38	42
28	44	36	43	47	47	48	49	44	44	49	45	48	49	27	49
29	45	33	35	39	43	45	45	47	48	48	38	45	48	14	48
30	38	14	24	30	32	36	36	41	47	48	26	34	44	5	48
31	24	4	15	17	20	24	25	29	33	36	17	24	31	1	36
32	9	0	1	4	6	9	13	18	22	27	1	9	19	0	30
33	0	0	0	0	0	0	2	5	9	16	0	0	6	0	18
34	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	21	21	21	21	21	21	21	21	21	21	21	21	21	15	21
2	21	21	21	21	21	21	21	21	21	21	21	21	21	16	21
3	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
4	22	22	22	22	22	22	22	22	22	22	22	22	22	2	22
5	22	13	21	22	22	22	22	22	22	22	22	22	22	0	22
6	21	6	21	21	21	21	21	21	21	21	21	21	21	0	21
7	25	7	20	25	25	25	25	25	25	25	23	25	25	0	25
8	24	0	13	24	24	26	26	26	26	26	20	24	26	0	26
9	25	0	6	15	22	25	26	24	29	29	10	25	29	0	29
10	20	0	3	9	14	21	24	26	26	26	6	20	26	0	26
11	15	0	0	0	9	15	19	22	24	26	0	15	23	0	26
12	6	0	0	0	0	6	11	18	21	26	0	6	19	0	26
13	0	0	0	0	0	0	5	11	21	25	0	0	14	0	26
14	0	0	0	0	0	0	0	3	11	18	0	0	5	0	20
15	0	0	0	0	0	0	0	0	3	13	0	0	0	0	21
16	0	0	0	0	0	0	0	0	0	9	0	0	0	0	13
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
18	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
19	2	2	2	2	2	2	2	2	3	4	2	2	2	2	5
20	2	2	2	2	2	2	2	2	2	4	2	2	2	2	6
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
27	2	2	2	2	2	2	2	2	3	3	2	2	2	2	4
28	3	2	2	2	2	2	3	4	7	11	2	2	5	2	13
29	6	2	2	3	4	5	7	10	14	25	2	5	11	2	27
30	13	0	0	5	11	13	16	17	23	30	3	13	19	0	33
31	12	0	3	6	10	12	15	18	23	27	3	12	19	0	30
32	20	1	7	12	17	20	23	26	28	30	10	20	27	0	30
33	25	8	15	19	22	25	25	25	25	25	17	25	25	1	25
34	20	13	20	20	20	20	20	20	20	20	20	20	20	4	20
35	20	14	20	20	20	20	20	20	20	20	20	20	20	1	20
36	22	22	22	22	22	22	22	22	22	22	22	22	22	9	22

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	25	0	0	0	0	50
16	0	0	0	0	0	0	0	0	4	39	0	0	0	0	47
17	0	0	0	0	0	0	0	4	17	28	0	0	10	0	45
18	0	0	0	0	0	0	0	1	24	52	0	0	11	0	67
19	3	0	0	0	0	3	15	22	31	57	0	3	25	0	70
20	23	0	0	0	4	23	43	50	87	111	0	23	71	0	122
21	54	2	20	35	44	54	63	78	94	135	26	54	89	0	151
22	48	0	11	28	33	44	61	70	83	118	13	48	78	0	124
23	65	11	28	46	52	65	78	88	97	144	32	65	92	3	190
24	70	10	32	36	57	70	85	112	128	161	26	70	119	0	177
25	48	0	14	32	40	48	62	82	97	132	22	48	85	0	154
26	29	0	0	4	17	29	39	51	72	107	0	29	56	0	131
27	10	0	0	0	0	10	19	24	34	54	0	10	29	0	64
28	0	0	0	0	0	0	6	18	29	44	0	0	20	0	57
29	0	0	0	0	0	0	0	0	0	8	0	0	0	0	16
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SOKOLO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
14	0	0	0	0	0	0	0	0	2	5	0	0	0	0	6
15	1	0	0	0	0	1	2	5	7	18	0	1	6	0	34
16	7	0	0	0	3	6	8	14	23	36	0	6	20	0	46
17	6	0	0	1	2	5	10	15	21	31	0	5	17	0	32
18	13	0	0	3	7	12	17	22	29	40	0	12	23	0	43
19	34	4	13	23	28	32	36	37	50	71	22	32	41	6	78
20	54	6	12	23	36	53	60	66	81	102	15	53	68	41	121
21	53	0	21	33	50	53	64	72	87	105	27	53	78	25	108
22	57	7	30	43	47	56	67	73	84	115	41	56	78	15	143
23	62	14	30	38	53	60	65	69	88	125	36	60	72	14	142
24	54	4	13	40	44	52	64	75	87	120	31	52	76	16	130
25	32	1	16	22	28	31	38	43	70	94	18	31	50	14	99
26	22	0	2	7	12	20	25	32	42	58	5	20	34	15	65
27	9	0	0	1	4	8	12	18	22	41	0	8	20	3	59
28	1	0	0	0	0	0	3	6	16	28	0	0	8	0	34
29	0	0	0	0	0	0	0	3	16	21	0	0	4	0	26
30	0	0	0	0	0	0	0	0	0	6	0	0	0	0	8
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	1	8	0	0	0	0	11
14	0	0	0	0	0	0	0	0	2	5	0	0	0	0	6
15	1	0	0	0	0	1	2	3	7	18	0	1	5	0	34
16	7	0	0	0	3	6	8	14	25	35	0	6	20	0	38
17	8	0	0	1	2	7	12	17	27	35	0	7	19	0	36
18	15	0	0	3	7	13	18	23	34	35	0	13	24	0	35
19	33	4	13	23	28	32	33	33	33	33	22	32	33	6	33
20	30	9	27	30	30	30	30	30	30	30	30	30	30	19	30
21	38	19	38	38	38	38	38	38	38	38	38	38	38	20	38
22	39	18	39	39	39	39	39	39	39	39	39	39	39	28	39
23	43	31	43	43	43	43	43	43	43	43	43	43	43	31	43
24	55	27	42	54	55	55	55	55	55	55	53	55	55	29	56
25	45	14	27	35	41	44	46	48	50	50	33	44	48	24	50
26	30	1	14	17	24	29	33	43	46	49	17	29	45	16	50
27	15	0	0	2	5	12	18	22	40	46	1	12	28	4	47
28	2	0	0	0	0	1	6	13	25	36	0	1	18	0	37
29	0	0	0	0	0	0	0	3	16	26	0	0	4	0	30
30	0	0	0	0	0	0	0	0	2	6	0	0	0	0	8
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	24	25	25	25	25	25	25	25	25	25	25	25	24	25
2	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
3	30	27	30	30	30	30	30	30	30	30	30	30	30	27	30
4	28	27	28	28	28	28	28	28	28	28	28	28	28	27	28
5	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
6	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
7	35	27	35	35	35	35	35	35	35	35	35	35	35	27	35
8	37	33	37	37	37	37	37	37	37	37	37	37	37	33	37
9	41	39	41	41	41	41	41	41	41	41	41	41	41	39	41
10	37	35	37	37	37	37	37	37	37	37	37	37	37	35	37
11	38	26	38	38	38	38	38	38	38	38	38	38	38	31	38
12	38	18	38	38	38	38	38	38	38	38	38	38	38	19	38
13	38	24	33	38	38	38	38	38	38	38	37	38	38	29	38
14	39	32	35	39	39	39	39	39	39	39	38	39	39	31	39
15	41	0	35	37	40	41	42	42	42	42	35	41	42	16	42
16	31	0	5	14	28	30	33	36	38	38	12	30	37	14	38
17	29	0	4	18	24	28	33	35	37	37	11	28	36	6	37
18	20	0	0	5	14	19	25	30	35	35	0	19	32	5	35
19	0	0	0	0	0	0	3	8	14	22	0	0	9	0	23
20	0	0	0	0	0	0	0	0	0	7	0	0	0	0	14
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	9	0	0	0	0	19
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24	3	3	3	3	3	3	3	3	10	18	3	3	3	3	19
25	7	2	2	2	6	7	10	14	18	30	2	7	15	3	33
26	21	2	3	6	16	20	23	31	35	40	6	20	33	6	46
27	33	0	3	12	27	32	39	44	46	48	7	32	44	12	48
28	41	2	9	24	33	40	43	43	43	43	17	40	43	9	43
29	38	3	17	33	37	38	38	38	38	38	27	38	38	11	38
30	35	24	29	34	35	35	35	35	35	35	32	35	35	29	35
31	25	23	25	25	25	25	25	25	25	25	25	25	25	23	25
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	25	14	25	25	25	25	25	25	25	25	25	25	25	18	25
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	23	22	23	23	23	23	23	23	23	23	23	23	23	22	23
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	9	24	0	0	0	0	58
21	14	0	0	0	0	11	21	27	34	44	0	11	31	9	47
22	11	0	0	0	4	9	17	31	34	75	0	9	32	0	103
23	18	0	0	0	0	18	22	26	48	86	0	18	29	0	103
24	3	0	0	0	0	2	8	27	37	69	0	2	30	0	87
25	0	0	0	0	0	0	0	0	2	38	0	0	0	0	44
26	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOMBOUCTOU

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
15	0	0	0	0	0	0	0	1	4	12	0	0	2	0	14
16	0	0	0	0	0	0	0	2	4	20	0	0	3	0	26
17	1	0	0	0	0	1	1	2	6	14	0	1	2	0	17
18	5	0	0	0	3	5	8	9	12	22	0	5	10	1	25
19	7	0	1	2	4	7	8	10	18	31	1	7	12	0	34
20	14	1	5	7	9	14	23	29	41	53	6	14	34	16	58
21	18	1	5	8	13	18	24	27	38	48	6	18	29	21	51
22	22	1	6	10	20	22	36	39	46	52	9	22	40	8	54
23	20	0	3	9	17	20	26	33	46	64	3	20	40	0	69
24	27	2	6	10	22	27	30	40	48	65	7	27	42	0	75
25	11	1	3	6	9	11	13	19	28	40	3	11	21	6	54
26	4	0	0	1	2	4	10	11	15	21	0	4	12	0	22
27	2	0	0	0	0	2	3	6	8	13	0	2	7	0	15
28	0	0	0	0	0	0	0	1	4	10	0	0	2	0	14
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
15	0	0	0	0	0	0	0	1	4	12	0	0	2	0	14
16	0	0	0	0	0	0	0	2	4	20	0	0	3	0	26
17	1	0	0	0	0	1	1	2	9	17	0	1	4	0	25
18	5	0	0	0	3	5	8	9	11	22	0	5	10	1	25
19	7	0	1	2	4	7	8	10	18	31	1	7	12	0	34
20	18	1	6	7	10	18	23	29	41	43	7	18	34	16	43
21	21	1	6	10	13	21	25	29	44	51	7	21	35	21	52
22	28	1	6	10	20	28	36	39	46	51	9	28	40	11	53
23	20	0	3	9	17	20	26	33	50	60	3	20	40	0	60
24	27	3	7	15	24	27	32	40	51	60	7	27	44	0	63
25	13	1	3	7	10	13	18	21	28	40	5	13	23	6	49
26	9	0	0	1	3	9	10	12	15	21	0	9	14	0	22
27	2	0	0	0	0	2	3	5	8	13	0	2	7	0	15
28	0	0	0	0	0	0	0	1	4	10	0	0	2	0	14
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ESTIVAL EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
2	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
3	23	23	23	23	23	23	23	23	23	23	23	23	23	22	23
4	21	20	21	21	21	21	21	21	21	21	21	21	21	18	21
5	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
6	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
7	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
8	30	30	30	30	30	30	30	30	30	30	30	30	30	21	30
9	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
10	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
11	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
12	35	33	35	35	35	35	35	35	35	35	35	35	35	27	35
13	36	36	36	36	36	36	36	36	36	36	36	36	36	33	36
14	44	36	38	38	38	38	38	38	38	38	38	38	38	35	38
15	41	26	36	39	40	41	41	41	41	41	37	41	41	29	41
16	37	18	30	34	36	37	37	37	37	37	33	37	37	18	37
17	36	14	27	34	35	36	36	37	37	37	29	36	37	2	37
18	29	10	23	25	27	29	32	35	36	36	24	29	36	19	36
19	25	2	13	23	27	28	32	33	35	36	18	28	34	13	36
20	28	0	0	11	19	20	31	34	35	39	2	20	35	3	42
21	30	2	0	17	27	30	38	42	45	49	10	30	43	0	51
22	24	0	4	12	15	24	31	38	44	51	6	24	41	0	51
23	41	7	7	22	34	41	45	53	60	62	13	41	58	22	63
24	33	0	7	17	27	33	36	42	55	59	10	33	49	25	60
25	37	10	21	28	32	37	39	41	44	47	25	37	42	0	49
26	34	21	26	29	33	34	41	43	43	44	28	34	43	26	44
27	34	21	26	29	33	34	36	37	37	37	28	34	37	23	37
28	30	14	26	28	30	30	30	30	30	30	26	30	30	13	30
29	30	27	30	30	30	30	30	30	30	30	30	30	30	26	30
30	30	30	30	30	30	30	30	30	30	30	30	30	30	25	30
31	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
32	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
33	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
34	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
35	20	14	20	20	20	20	20	20	20	20	20	20	20	16	20
36	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 7 MAURITANIE - Analyse fréquentielle des Principaux termes du bilan hydrique.

MAURITANIA - Frequential analysis of main water-balance Parameters

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Aïoun-El-Atrouss

Boutilimit

Kiffa

Néma

Nouakchott

AIOUL-EL-ATROUSS

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	1	2	0	0	1	0	3
16	0	0	0	0	0	0	1	2	6	9	0	0	4	0	11
17	1	0	0	0	0	1	3	7	17	21	0	1	15	0	26
18	3	0	0	0	1	3	3	5	10	14	0	3	9	0	17
19	10	0	2	6	9	10	13	17	29	32	5	10	26	4	41
20	15	0	1	11	11	15	22	29	36	51	8	15	35	0	69
21	38	4	12	18	28	38	42	55	81	90	16	38	72	17	103
22	36	0	11	18	20	36	43	49	55	70	17	36	54	0	72
23	30	4	10	21	26	30	35	37	42	57	16	30	39	17	68
24	39	6	14	22	29	39	45	55	65	71	21	39	63	0	74
25	20	0	2	10	12	20	26	29	37	44	8	20	33	0	73
26	17	0	0	2	8	17	18	21	28	34	0	17	26	12	39
27	6	0	0	2	3	6	6	9	14	16	1	6	12	0	20
28	0	0	0	0	0	0	3	10	15	19	0	0	14	0	22
29	0	0	0	0	0	0	0	1	3	14	0	0	2	0	26
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
15	0	0	0	0	0	0	0	0	1	2	0	0	1	0	3
16	0	0	0	0	0	0	0	2	6	10	0	0	4	0	11
17	1	0	0	0	0	1	3	5	18	26	0	1	15	0	31
18	2	0	0	0	0	2	3	5	10	15	0	2	10	0	21
19	12	0	0	4	9	12	14	17	29	32	3	12	25	4	41
20	15	0	2	11	11	15	22	30	38	59	8	15	37	0	60
21	38	4	12	19	30	38	42	57	71	71	16	38	71	17	71
22	36	3	12	19	22	36	45	54	58	71	18	36	55	0	71
23	29	7	14	21	25	29	36	37	42	56	17	29	39	19	65
24	39	4	17	24	29	39	45	59	65	68	22	39	63	0	68
25	20	0	2	10	12	20	27	31	41	46	10	20	38	5	51
26	16	0	0	2	8	16	18	23	30	40	1	16	28	12	45
27	6	0	0	3	4	6	7	10	15	19	2	6	14	0	24
28	2	0	0	0	1	2	3	10	14	16	0	2	13	0	21
29	1	0	0	0	0	1	1	3	3	14	0	1	3	0	26
30	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
31	0	0	0	0	0	0	0	0	1	2	0	0	0	0	4
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	38	37	38	38	38	38	38	38	38	38	38	38	38	37	38
2	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
3	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
4	38	23	38	38	38	38	38	38	38	38	38	38	38	23	38
5	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
6	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
7	46	23	46	46	46	46	46	46	46	46	46	46	46	23	46
8	50	48	50	50	50	50	50	50	50	50	50	50	50	48	50
9	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
10	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
11	53	47	53	53	53	53	53	53	53	53	53	53	53	49	53
12	52	49	52	52	52	52	52	52	52	52	52	52	52	50	52
13	52	51	52	52	52	52	52	52	52	52	52	52	52	51	52
14	51	47	49	51	51	51	51	51	51	51	51	51	51	48	51
15	56	51	53	55	56	56	56	56	56	56	54	56	56	52	56
16	50	31	40	45	48	50	50	50	50	50	43	50	50	37	50
17	48	14	23	34	47	48	50	50	50	50	32	48	50	26	50
18	45	23	31	37	44	45	45	48	48	48	37	45	48	31	48
19	42	2	24	33	40	42	44	46	51	54	29	42	49	10	55
20	43	0	0	23	29	43	47	48	55	59	22	43	51	21	60
21	32	0	0	0	13	32	36	40	54	58	0	32	50	14	61
22	34	3	3	18	28	34	40	51	56	66	16	34	54	30	71
23	36	3	11	29	30	36	40	42	50	54	25	36	47	17	58
24	28	0	0	5	14	28	37	40	45	56	4	28	45	0	63
25	33	0	8	16	25	33	41	43	44	52	13	33	44	11	54
26	30	0	7	21	24	30	33	39	46	48	19	30	45	8	48
27	35	12	21	27	32	35	35	38	40	42	26	35	39	22	42
28	33	10	19	22	25	33	34	35	36	36	21	33	36	22	36
29	35	2	22	34	34	35	36	37	37	37	33	35	37	18	37
30	40	34	37	40	40	40	40	40	40	40	40	40	40	36	40
31	35	28	32	34	35	35	35	35	35	35	34	35	35	30	35
32	35	32	35	35	35	35	35	35	35	35	35	35	35	33	35
33	35	29	35	35	35	35	35	35	35	35	35	35	35	29	35
34	36	34	35	36	36	36	36	36	36	36	36	36	36	35	36
35	37	34	36	37	37	37	37	37	37	37	37	37	37	33	37
36	41	39	41	41	41	41	41	41	41	41	41	41	41	38	41

#FIN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	2	10	0	0	0	0	23
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUTILIMIT

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	8	0	0	0	0	12
16	0	0	0	0	0	0	0	0	1	6	0	0	0	0	7
17	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
18	0	0	0	0	0	0	0	0	1	9	0	0	0	0	13
19	0	0	0	0	0	0	1	2	17	31	0	0	5	0	41
20	1	0	0	0	0	1	3	9	15	28	0	1	11	0	39
21	5	0	0	0	2	4	10	16	26	37	0	4	16	0	64
22	9	0	0	1	4	9	20	27	38	67	1	9	30	0	86
23	9	0	0	3	4	8	13	21	30	40	2	8	23	0	59
24	22	0	5	9	11	21	25	41	43	58	8	21	42	0	72
25	14	0	0	2	8	14	17	23	27	42	1	14	24	0	46
26	10	0	0	3	6	10	12	26	33	52	2	10	28	0	59
27	2	0	0	0	0	1	8	15	29	40	0	1	19	0	42
28	1	0	0	0	0	0	3	11	23	31	0	0	15	0	42
29	0	0	0	0	0	0	0	0	1	7	0	0	0	0	15
30	0	0	0	0	0	0	0	0	1	16	0	0	0	0	22
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE .: EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	8	0	0	0	0	12
16	0	0	0	0	0	0	0	0	1	6	0	0	0	0	7
17	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
18	0	0	0	0	0	0	0	0	1	9	0	0	0	0	13
19	0	0	0	0	0	0	0	3	17	31	0	0	5	0	41
20	0	0	0	0	0	0	0	10	15	28	0	0	12	0	39
21	4	0	0	0	0	3	10	17	31	40	0	3	21	0	60
22	9	0	1	4	5	9	20	29	40	66	2	9	32	0	66
23	9	0	0	3	4	8	13	20	34	53	2	8	27	0	59
24	14	0	4	8	10	13	24	41	44	58	7	13	43	0	72
25	13	0	0	4	7	12	17	23	30	42	3	12	24	0	51
26	10	0	1	4	6	10	13	25	35	53	3	10	28	0	53
27	4	0	0	0	0	3	8	16	31	43	0	3	21	0	46
28	2	0	0	0	1	2	3	10	23	33	0	2	11	0	38
29	0	0	0	0	0	0	1	2	2	11	0	0	2	0	18
30	0	0	0	0	0	0	0	0	1	16	0	0	0	0	22
31	0	0	0	0	0	0	0	0	3	3	0	0	1	0	9
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2	36	35	36	36	36	36	36	36	36	36	36	36	36	28	36
3	40	40	40	40	40	40	40	40	40	40	40	40	40	37	40
4	37	33	37	37	37	37	37	37	37	37	37	37	37	16	37
5	37	37	37	37	37	37	37	37	37	37	37	37	37	29	37
6	37	37	37	37	37	37	37	37	37	37	37	37	37	29	37
7	45	44	45	45	45	45	45	45	45	45	45	45	45	40	45
8	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
9	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
10	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
11	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
12	52	51	52	52	52	52	52	52	52	52	52	52	52	48	52
13	52	52	52	52	52	52	52	52	52	52	52	52	52	26	52
14	53	53	53	53	53	53	53	53	53	53	53	53	53	46	53
15	58	45	54	58	58	58	58	58	58	58	58	58	58	43	58
16	52	45	48	52	52	52	52	52	52	52	51	52	52	20	52
17	52	44	52	52	52	52	52	52	52	52	52	52	52	31	52
18	50	36	47	50	50	50	50	50	50	50	48	50	50	31	50
19	47	6	23	42	45	47	47	47	47	47	35	47	47	0	47
20	55	15	36	43	48	55	55	55	55	55	41	55	55	0	55
21	63	6	31	45	52	63	67	67	67	67	37	63	67	0	67
22	56	0	21	33	41	52	59	62	63	66	29	52	62	0	66
23	67	18	41	50	60	66	73	75	76	78	46	66	75	4	78
24	58	4	32	34	45	57	64	67	71	76	33	57	68	0	77
25	48	9	28	36	41	47	51	55	58	61	32	47	56	0	61
26	42	0	10	25	36	41	45	48	50	53	22	41	49	0	53
27	42	0	12	28	36	41	45	46	46	46	19	41	46	0	46
28	37	1	13	27	34	37	38	40	40	40	19	37	40	0	40
29	40	21	38	38	39	40	40	40	40	40	38	40	40	0	40
30	43	20	42	43	43	43	43	43	43	43	42	43	43	9	43
31	38	28	35	37	38	38	38	38	38	38	35	38	38	8	38
32	38	34	38	38	38	38	38	38	38	38	38	38	38	15	38
33	37	31	37	37	37	37	37	37	37	37	37	37	37	29	37
34	36	34	36	36	36	36	36	36	36	36	36	36	36	32	36
35	36	36	36	36	36	36	36	36	36	36	36	36	36	15	36
36	40	40	40	40	40	40	40	40	40	40	40	40	40	20	40

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KIFFA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	ECHANT	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
15	0	0	0	0	0	0	0	0	2	6	0	0	0	0	14
16	0	0	0	0	0	0	3	6	11	16	0	0	9	0	18
17	0	1	0	0	0	0	1	4	6	15	37	0	1	8	0	48
18	0	5	0	0	0	2	5	10	15	17	31	0	5	15	0	32
19	0	10	0	0	3	6	10	14	21	32	52	1	10	24	0	55
20	0	15	1	3	5	10	15	22	33	43	55	4	15	36	0	64
21	0	34	4	8	13	25	33	43	51	68	83	10	33	63	0	93
22	0	31	0	4	7	17	31	39	54	62	73	4	31	57	0	86
23	0	41	4	14	26	33	41	44	55	71	88	22	41	61	0	114
24	0	43	13	19	21	30	43	46	57	76	109	20	33	68	2	126
25	0	29	0	6	11	18	26	32	39	44	59	8	26	41	0	84
26	0	26	0	4	7	16	25	29	34	48	60	5	25	40	0	74
27	0	13	0	0	3	6	13	18	18	31	48	1	13	26	0	55
28	0	1	0	0	0	0	1	3	10	21	35	0	1	13	0	40
29	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0	8
30	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	ECHANT	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
15	0	0	0	0	0	0	0	0	2	6	0	0	0	0	14
16	0	0	0	0	0	0	3	6	12	16	0	0	9	0	18
17	0	1	0	0	0	0	1	4	6	15	37	0	1	8	0	48
18	0	5	0	0	0	1	5	10	15	17	31	0	5	15	0	32
19	0	10	0	0	3	6	10	14	23	32	52	0	8	24	0	54
20	0	16	0	0	5	10	16	22	35	43	55	3	16	39	0	61
21	0	35	0	0	14	27	35	44	51	71	73	10	35	63	0	73
22	0	33	0	6	7	17	33	42	54	66	73	5	33	57	0	73
23	0	42	4	14	26	37	42	44	56	68	84	22	42	63	2	84
24	0	44	11	20	23	31	44	46	57	76	74	21	38	69	2	74
25	0	28	2	6	13	20	28	34	39	44	62	8	28	41	0	62
26	0	31	0	0	3	11	22	27	43	60	80	0	11	42	0	74
27	0	15	1	5	8	15	30	30	30	37	48	5	15	32	0	48
28	0	2	0	0	1	2	4	14	24	41	61	0	2	16	0	43
29	0	0	0	0	0	0	0	2	3	8	8	0	0	2	0	16
30	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : [illegible] EFFECTIF DE L'ECHANTILLON 50 ANNEES

ANNEES	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	34	34	34	34	46	44	34	34	34	34	34	34	34	34
2	34	34	34	34	34	34	34	34	34	34	34	34	37	34
3	42	42	42	42	42	42	42	42	42	42	42	42	34	42
4	38	38	38	38	38	38	38	38	38	38	38	38	27	38
5	39	39	39	39	39	39	39	39	39	39	39	39	37	39
6	38	38	38	38	38	38	38	38	38	38	38	38	37	38
7	45	45	45	45	45	45	45	45	45	45	45	45	44	45
8	49	49	49	49	49	49	49	49	49	49	49	49	49	49
9	55	55	55	55	55	55	55	55	55	55	55	55	55	55
10	51	51	51	51	51	51	51	51	51	51	51	51	49	51
11	52	51	52	52	52	52	52	52	52	52	52	52	49	52
12	52	52	52	52	52	52	52	52	52	52	52	52	39	52
13	51	51	51	51	51	51	51	51	51	51	51	51	38	51
14	51	48	51	51	51	51	51	51	51	51	51	51	45	51
15	56	56	56	56	56	56	56	56	56	56	56	56	27	56
16	50	49	50	50	50	50	50	50	50	50	50	50	15	50
17	50	5	24	46	48	48	50	50	50	38	48	50	0	50
18	41	14	24	33	37	41	46	48	48	30	41	48	3	48
19	55	8	20	31	36	45	49	53	55	55	25	46	5	55
20	61	2	15	26	35	43	49	54	54	61	19	43	56	61
21	72	6	8	15	24	37	44	53	64	72	5	37	58	72
22	76	3	8	21	33	42	55	67	71	74	14	39	69	76
23	64	3	3	15	22	29	36	44	51	63	4	29	45	64
24	70	3	3	3	20	33	34	46	50	56	66	3	39	55	3	70
25	59	16	8	13	22	26	36	41	45	54	57	18	34	50	0	54
26	74	13	24	37	48	55	66	72	74	74	31	65	74	0	74
27	45	4	7	17	24	33	36	39	43	45	13	33	40	0	45
28	47	1	13	27	34	34	41	43	43	43	16	39	43	6	43
29	36	28	31	33	36	36	36	36	36	36	32	36	36	6	36
30	39	16	36	36	36	39	39	39	39	39	39	39	15	39
31	35	26	35	35	35	35	35	35	35	35	35	35	26	35
32	33	33	33	33	33	33	33	33	33	33	33	33	29	33
33	35	31	35	35	35	35	35	35	35	35	35	35	18	35
34	36	36	36	36	36	36	36	36	36	36	36	36	32	36
35	37	37	37	37	37	37	37	37	37	37	37	37	16	37
36	41	41	41	41	41	41	41	41	41	41	41	41	40	41

FIN

VARIABLE : [illegible] EFFECTIF DE L'ECHANTILLON 50 ANNEES

ANNEES	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NEMA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
13	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
15	0	0	0	0	0	0	0	4	5	13	0	0	4	0	29
16	3	0	0	0	0	3	5	8	11	24	0	3	10	0	35
17	4	0	0	0	0	4	9	14	17	27	0	4	15	0	34
18	7	0	0	3	5	7	8	12	13	23	1	7	12	0	26
19	9	0	0	3	5	9	13	16	22	36	0	9	19	0	44
20	17	0	2	6	8	17	18	24	31	39	4	17	29	0	44
21	26	6	13	15	20	26	30	39	46	58	13	26	43	1	65
22	30	1	9	15	27	30	36	43	52	71	12	30	48	0	79
23	31	2	9	19	24	31	36	43	50	71	13	31	47	0	82
24	29	3	10	16	22	29	33	37	46	78	13	29	38	1	94
25	18	0	2	5	13	18	21	29	36	44	3	18	34	0	54
26	13	0	3	4	6	13	19	23	29	41	3	13	28	0	49
27	12	0	1	3	8	12	14	22	25	41	2	12	24	0	55
28	3	0	0	0	0	3	4	6	11	15	0	3	8	0	18
29	0	0	0	0	0	0	0	0	3	8	0	0	1	0	11
30	0	0	0	0	0	0	0	0	0	11	0	0	0	0	14
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
13	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
15	0	0	0	0	0	0	0	1	5	13	0	0	4	0	29
16	1	0	0	0	0	1	4	9	12	24	0	1	11	0	35
17	4	0	0	0	0	4	9	15	19	31	0	4	16	0	41
18	8	0	0	3	6	8	11	12	17	24	1	8	15	0	28
19	9	0	1	2	5	9	14	17	22	36	1	9	19	0	41
20	17	0	2	6	11	17	18	27	34	41	3	17	30	0	47
21	28	6	11	15	20	28	32	42	46	58	13	28	44	0	59
22	34	2	9	18	27	34	40	48	52	59	13	34	50	0	59
23	32	5	16	22	26	32	39	48	55	65	20	32	52	0	65
24	29	5	10	18	23	29	33	38	50	68	12	29	46	2	68
25	19	0	2	6	13	19	23	31	41	48	4	19	35	0	52
26	17	0	3	4	8	17	19	26	29	41	3	17	29	0	47
27	10	0	1	3	7	10	13	21	24	43	2	10	22	0	43
28	4	0	0	0	2	4	5	9	11	16	0	4	10	0	17
29	1	0	0	0	0	1	1	1	2	5	0	1	2	0	13
30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
31	0	0	0	0	0	0	0	0	2	3	4	0	0	3	0	4
32	0	0	0	0	0	0	0	0	0	1	3	0	0	1	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	41	37	41	41	41	41	41	41	41	41	41	41	41	15	41
2	42	41	42	42	42	42	42	42	42	42	42	42	42	36	42
3	48	48	48	48	48	48	48	48	48	48	48	48	48	47	48
4	45	45	45	45	45	45	45	45	45	45	45	45	45	42	45
5	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
6	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
7	50	50	50	50	50	50	50	50	50	50	50	50	50	47	50
8	50	50	50	50	50	50	50	50	50	50	50	50	50	49	50
9	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
10	50	50	50	50	50	50	50	50	50	50	50	50	50	47	50
11	49	49	49	49	49	49	49	49	49	49	49	49	49	27	49
12	49	38	47	49	49	49	49	49	49	49	49	49	49	20	49
13	49	41	49	49	49	49	49	49	49	49	49	49	49	31	49
14	49	42	49	49	49	49	49	49	49	49	49	49	49	11	49
15	52	22	43	48	52	52	52	52	52	52	46	52	52	1	52
16	43	10	29	34	39	43	46	46	46	46	33	43	46	0	46
17	39	3	24	28	34	39	44	45	45	45	25	39	45	0	45
18	35	14	23	29	32	35	37	38	42	43	28	35	40	5	43
19	32	0	19	23	27	32	35	37	40	42	21	32	39	0	42
20	31	3	12	19	29	31	35	40	45	47	17	31	42	0	48
21	30	0	10	15	22	30	36	42	46	51	12	30	45	0	53
22	23	0	2	8	15	23	28	36	45	54	6	23	40	0	55
23	34	3	12	18	26	34	39	44	47	61	13	34	45	3	63
24	36	0	9	21	32	36	42	45	55	61	17	36	49	0	62
25	33	1	9	18	27	33	37	46	50	52	12	33	49	0	53
26	29	0	17	18	27	29	37	41	44	47	17	29	43	0	47
27	31	0	16	21	27	31	35	37	40	43	18	31	39	0	43
28	34	21	24	27	32	34	35	37	38	38	26	34	37	9	38
29	39	26	36	39	39	39	41	41	41	41	39	39	41	8	41
30	44	32	44	44	44	44	44	44	44	44	44	44	44	4	44
31	39	34	35	36	37	39	39	39	39	39	35	39	39	33	39
32	38	34	35	37	38	38	38	38	38	38	36	38	38	34	38
33	38	37	38	38	38	38	38	38	38	38	38	38	38	30	38
34	38	37	38	38	38	38	38	38	38	38	38	38	38	35	38
35	38	34	38	38	38	38	38	38	38	38	38	38	38	23	38
36	44	43	44	44	44	44	44	44	44	44	44	44	44	39	44

*FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOUAKCHOTT

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
19	0	0	0	0	0	0	0	0	3	7	0	0	1	0	8
20	0	0	0	0	0	0	0	0	1	7	0	0	0	0	16
21	1	0	0	0	0	0	4	6	10	15	0	0	9	0	27
22	1	0	0	0	0	1	3	11	17	35	0	1	12	0	49
23	6	0	0	0	3	5	13	20	26	33	0	5	23	0	54
24	12	0	2	5	8	11	18	28	36	55	3	11	33	0	67
25	5	0	0	1	4	5	11	14	21	33	0	5	17	0	36
26	5	0	0	1	2	4	7	12	20	32	0	4	15	0	49
27	2	0	0	0	0	2	6	13	18	34	0	2	17	0	51
28	0	0	0	0	0	0	1	4	10	22	0	0	8	0	34
29	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM. EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
19	0	0	0	0	0	0	0	0	3	7	0	0	2	0	8
20	0	0	0	0	0	0	0	0	1	7	0	0	1	0	16
21	1	0	0	0	0	0	4	7	10	16	0	0	9	0	35
22	1	0	0	0	0	1	3	11	17	35	0	1	12	0	49
23	6	0	0	0	3	5	16	21	27	41	0	5	25	0	54
24	12	0	2	5	8	11	18	31	40	55	4	11	34	0	59
25	11	0	0	3	4	10	14	18	23	33	0	10	20	0	36
26	5	0	0	1	2	4	7	12	20	37	0	4	15	0	41
27	3	0	0	0	0	2	8	17	19	35	0	2	18	0	35
28	1	0	0	0	0	0	4	11	19	30	0	0	13	0	30
29	0	0	0	0	0	0	0	0	1	7	0	0	0	0	23
30	0	0	0	0	0	0	0	0	0	2	0	0	0	0	9
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	19	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	17	23
3	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26
4	23	17	21	23	23	23	23	23	23	23	22	23	23	6	23
5	24	24	24	24	24	24	24	24	24	24	24	24	24	17	24
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	28	28	28	28	28	28	28	28	28	28	28	28	28	19	28
8	31	31	31	31	31	31	31	31	31	31	31	31	31	29	31
9	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
11	35	35	35	35	35	35	35	35	35	35	35	35	35	33	35
12	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
13	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
14	38	38	38	38	38	38	38	38	38	38	38	38	38	31	38
15	41	41	41	41	41	41	41	41	41	41	41	41	41	39	41
16	36	36	36	36	36	36	36	36	36	36	36	36	36	33	36
17	35	35	35	35	35	35	35	35	35	35	35	35	35	32	35
18	34	30	34	34	34	34	34	34	34	34	34	34	34	30	34
19	33	25	27	32	33	33	33	33	33	33	31	33	33	20	33
20	39	28	35	38	39	39	39	39	39	39	38	39	39	10	39
21	46	13	35	40	43	45	49	49	49	49	38	45	49	7	49
22	47	1	25	37	43	46	49	50	50	50	32	46	50	0	50
23	54	5	31	36	43	51	56	58	60	60	33	51	60	3	60
24	44	0	11	25	36	43	50	54	56	59	20	43	54	0	60
25	36	10	19	27	32	35	40	43	46	47	25	35	44	0	47
26	34	0	13	25	31	34	37	40	40	41	20	34	40	0	41
27	30	0	1	16	20	29	33	35	35	35	15	29	35	0	35
28	28	0	5	17	21	27	30	30	30	30	10	27	30	0	30
29	30	6	23	29	30	30	30	30	30	30	28	30	30	0	30
30	31	22	30	31	31	31	31	31	31	31	31	31	31	11	31
31	26	21	26	26	26	26	26	26	26	26	26	26	26	8	26
32	24	23	24	24	24	24	24	24	24	24	24	24	24	17	24
33	23	20	23	23	23	23	23	23	23	23	23	23	23	5	23
34	22	22	22	22	22	22	22	22	22	22	22	22	22	13	22
35	21	14	20	21	21	21	21	21	21	21	21	21	21	0	21
36	24	19	24	24	24	24	24	24	24	24	24	24	24	8	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 8 NIGER - Analyse fréquentielle des principaux termes du bilan hydrique.

NIGER - Frequential analysis of main waterbalance parameters.

Stations pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were were processed -

Birni-Nkonni

Dogodoutchi

Filingue

Gaya

Gouré

Maïné Soroa

Maradi

Nguigmi

Niamey

Tahoua

Tanout

Tillabery

Zinder

BIRNI-NKONNI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
12	0	0	0	0	0	0	0	1	2	0	0	0	0	0	6
13	0	0	0	0	0	0	2	5	9	23	0	0	6	0	25
14	2	0	0	0	0	1	3	7	11	19	0	1	9	0	29
15	4	0	0	0	2	4	5	12	15	32	0	4	14	0	55
16	15	2	5	9	12	14	19	25	30	37	6	14	27	0	45
17	18	0	6	9	12	17	22	25	41	53	7	17	39	0	60
18	18	3	6	11	15	18	20	28	44	48	8	18	36	0	54
19	31	9	16	20	26	30	32	36	46	58	19	30	38	6	66
20	34	7	16	23	26	33	47	49	60	76	19	33	56	2	83
21	47	13	21	32	38	47	55	66	75	97	28	47	71	8	114
22	77	14	24	47	65	74	78	87	91	109	31	74	89	6	133
23	66	24	39	50	55	65	72	81	92	119	45	65	86	21	141
24	64	15	25	42	57	63	77	88	102	117	30	63	94	13	122
25	41	13	17	25	31	40	47	56	71	82	23	40	59	4	104
26	35	7	12	18	24	33	40	48	61	96	16	33	50	2	110
27	8	0	0	3	6	8	12	19	26	34	1	8	21	0	41
28	0	0	0	0	0	0	1	6	8	13	0	0	7	0	30
29	0	0	0	0	0	0	0	0	1	11	0	0	0	0	14
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
12	0	0	0	0	0	0	0	0	1	2	0	0	0	0	6
13	0	0	0	0	0	0	2	5	9	23	0	0	6	0	25
14	2	0	0	0	0	2	4	7	11	19	0	2	9	0	29
15	4	0	0	0	2	4	5	13	17	41	0	4	14	0	41
16	19	2	6	9	13	18	22	27	30	36	6	18	29	0	36
17	20	2	7	10	15	19	24	35	35	35	8	19	35	0	35
18	20	3	7	14	17	20	25	33	33	33	10	20	33	0	33
19	37	12	21	29	31	36	37	37	37	37	25	36	37	9	37
20	40	10	22	33	38	40	40	40	40	40	26	40	40	2	40
21	48	30	36	45	48	48	48	48	48	48	42	48	48	20	48
22	48	25	40	46	48	48	48	48	48	48	45	48	48	15	48
23	45	32	41	45	45	45	45	45	45	45	43	45	45	24	45
24	51	40	47	50	51	51	51	51	51	51	48	51	51	25	51
25	46	26	35	41	43	45	47	48	48	48	39	45	48	11	48
26	43	18	29	32	37	42	44	48	50	50	31	42	49	6	50
27	20	0	3	7	11	19	29	38	43	49	5	19	40	0	50
28	5	0	0	0	0	3	6	9	11	29	0	3	10	0	41
29	0	0	0	0	0	0	0	0	5	11	0	0	1	0	14
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DFFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28
2	29	29	29	29	29	29	29	29	29	29	29	29	29	26	29
3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	31	31	31	31	31	31	31	31	31	31	31	31	31	29	31
6	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
8	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
9	40	40	40	40	40	40	40	40	40	40	40	40	40	33	40
10	36	35	36	36	36	36	36	36	36	36	36	36	36	31	36
11	36	34	36	36	36	36	36	36	36	36	36	36	36	28	36
12	37	30	36	37	37	37	37	37	37	37	36	37	37	11	37
13	37	12	25	31	34	36	37	37	37	37	28	36	37	3	37
14	35	8	23	28	32	35	36	38	38	38	25	35	38	0	38
15	36	0	17	25	31	36	38	39	41	41	22	36	40	0	41
16	16	0	2	7	11	16	22	25	29	32	5	16	28	0	35
17	15	0	0	0	10	14	18	23	26	29	0	14	24	0	32
18	11	0	0	0	6	10	14	17	21	27	0	10	18	0	30
19	0	0	0	0	0	0	4	6	14	21	0	0	8	0	24
20	0	0	0	0	0	0	0	5	13	25	0	0	6	0	29
21	0	0	0	0	0	0	0	0	7	15	0	0	3	0	19
22	2	2	2	2	2	2	2	2	7	20	2	2	4	2	27
23	2	2	2	2	2	2	2	2	4	7	2	2	2	2	14
24	3	3	3	3	3	3	3	3	6	9	3	3	4	3	13
25	4	2	2	2	2	3	5	7	12	19	2	3	9	2	28
26	9	2	2	3	6	8	12	19	21	30	2	8	20	2	34
27	29	0	4	9	17	29	35	41	45	49	6	29	43	0	50
28	41	4	31	36	38	41	46	46	46	46	35	41	46	0	46
29	42	27	32	41	42	42	42	42	42	42	39	42	42	13	42
30	39	35	39	39	39	39	39	39	39	39	39	39	39	15	39
31	28	28	28	28	28	28	28	28	28	28	28	28	28	25	28
32	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
33	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
34	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
35	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
36	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
20	0	0	0	0	0	0	0	0	0	6	0	0	0	0	17
21	0	0	0	0	0	0	0	3	19	30	0	0	12	0	47
22	9	0	0	0	0	8	11	18	35	43	0	8	24	0	68
23	7	0	0	0	3	7	13	27	44	70	0	7	38	0	93
24	17	0	0	0	11	16	21	35	40	70	0	16	36	0	76
25	0	0	0	0	0	0	0	0	10	30	0	0	6	0	53
26	0	0	0	0	0	0	0	0	1	47	0	0	0	0	61
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DOGODOUTCHI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
12	0	0	0	0	0	0	0	0	1	4	0	0	0	0	14
13	0	0	0	0	0	0	0	2	6	18	0	0	3	0	38
14	2	0	0	0	0	2	4	9	17	31	0	2	12	0	35
15	3	0	0	0	0	3	5	12	20	38	0	3	17	0	42
16	20	0	3	7	12	20	24	27	32	43	5	20	30	0	46
17	18	0	2	6	11	18	23	30	38	48	5	18	32	0	78
18	18	0	3	6	12	18	23	34	46	60	5	18	41	0	66
19	30	2	12	21	25	30	45	56	66	89	18	30	61	0	101
20	36	1	8	27	31	36	47	55	68	85	19	36	61	0	105
21	63	11	27	41	49	63	69	81	107	128	36	63	95	6	148
22	54	22	34	42	49	54	66	77	91	125	41	54	83	10	152
23	66	18	33	41	54	66	73	97	106	146	38	66	104	5	171
24	64	20	30	45	54	64	71	93	105	146	37	64	100	7	157
25	38	3	14	18	25	38	45	54	63	102	17	38	59	0	122
26	27	1	5	12	18	27	31	43	53	65	9	27	49	0	69
27	8	0	0	2	5	8	11	21	33	41	0	8	28	0	52
28	0	0	0	0	0	0	0	3	9	13	0	0	8	0	18
29	0	0	0	0	0	0	0	0	5	23	0	0	3	0	26
30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
12	0	0	0	0	0	0	0	0	3	4	0	0	0	0	14
13	0	0	0	0	0	0	0	2	6	18	0	0	4	0	32
14	3	0	0	0	1	3	4	10	19	31	0	3	14	0	33
15	5	0	0	0	1	5	7	13	20	37	0	5	17	0	37
16	20	0	3	7	12	20	24	28	33	34	5	20	31	0	34
17	22	0	5	10	15	22	28	33	35	35	7	22	35	0	35
18	22	0	4	11	16	22	29	32	32	32	9	22	32	0	32
19	37	8	21	25	37	37	37	37	37	37	24	37	37	2	37
20	40	6	30	38	40	40	40	40	40	40	33	40	40	2	40
21	48	21	46	48	48	48	48	48	48	48	48	48	48	7	48
22	49	41	46	47	48	49	49	49	49	49	47	49	49	29	49
23	46	35	42	45	46	46	46	46	46	46	43	46	46	19	46
24	51	37	47	51	51	51	51	51	51	51	50	51	51	20	51
25	47	29	41	44	46	47	48	49	49	49	43	47	49	0	49
26	42	23	33	37	41	42	43	47	50	50	36	42	49	6	50
27	27	10	17	21	25	27	33	37	41	50	19	27	40	8	50
28	14	0	3	8	11	14	15	19	21	39	6	14	20	0	43
29	6	0	0	1	3	6	7	9	16	20	0	6	15	0	22
30	0	0	0	0	0	0	0	4	6	9	0	0	6	0	10
31	0	0	0	0	0	0	0	0	0	4	0	0	0	0	5
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28
3	32	32	32	32	32	32	32	32	32	32	32	32	32	28	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	16	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
8	36	36	36	36	36	36	36	36	36	36	36	36	36	18	36
9	40	39	40	40	40	40	40	40	40	40	40	40	40	18	40
10	37	37	37	37	37	37	37	37	37	37	37	37	37	34	37
11	37	25	37	37	37	37	37	37	37	37	37	37	37	5	37
12	35	21	31	35	35	35	35	35	35	35	34	35	35	6	35
13	35	9	27	31	34	35	35	35	35	35	30	35	35	0	35
14	30	0	13	22	29	30	31	33	33	33	19	30	33	0	33
15	32	0	7	22	26	32	34	37	37	37	18	32	37	0	37
16	12	0	0	4	9	12	18	25	30	33	2	12	28	0	34
17	12	0	0	0	4	12	17	22	28	35	0	12	26	0	35
18	9	0	0	0	2	9	13	19	25	32	0	9	21	0	32
19	0	0	0	0	0	0	0	7	13	24	0	0	12	0	28
20	0	0	0	0	0	0	0	0	9	25	0	0	4	0	33
21	0	0	0	0	0	0	0	0	0	16	0	0	0	0	27
22	2	2	2	2	2	2	3	3	4	8	2	2	4	2	11
23	2	2	2	2	2	2	2	2	5	12	2	2	5	2	14
24	3	3	3	3	3	3	3	3	4	9	3	3	3	3	16
25	3	2	2	2	3	3	5	6	8	19	2	3	7	2	22
26	10	2	2	3	8	10	10	13	17	27	2	10	15	2	29
27	20	0	7	11	14	20	23	27	30	34	9	20	29	0	39
28	32	3	23	27	28	32	33	36	41	47	25	32	39	1	47
29	36	19	25	30	35	36	38	40	43	43	27	36	42	9	43
30	39	29	31	34	39	39	39	39	39	39	32	39	39	26	39
31	29	23	27	29	29	29	29	29	29	29	29	29	29	20	29
32	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
33	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
34	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
35	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26
36	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
20	0	0	0	0	0	0	0	0	0	16	0	0	0	0	17
21	0	0	0	0	0	0	0	0	17	51	0	0	5	0	82
22	0	0	0	0	0	0	0	13	29	44	0	0	26	0	72
23	0	0	0	0	0	0	14	33	54	91	0	0	44	0	109
24	2	0	0	0	0	2	13	26	52	93	0	2	35	0	103
25	0	0	0	0	0	0	0	0	7	40	0	0	2	0	58
26	0	0	0	0	0	0	0	0	0	12	0	0	0	0	16
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FILINQUE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
12	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
13	0	0	0	0	0	0	0	1	4	10	0	0	1	0	14
14	0	0	0	0	0	0	4	5	10	16	0	0	6	0	23
15	1	0	0	0	0	1	2	7	15	19	0	1	10	0	20
16	8	0	0	2	4	8	10	13	22	50	2	8	16	0	57
17	7	0	0	1	4	7	13	18	22	34	0	7	19	0	38
18	15	0	1	6	13	15	20	28	33	62	2	15	31	0	65
19	17	1	6	9	13	17	21	27	41	67	9	17	33	0	86
20	40	7	17	22	31	40	48	63	68	82	20	40	65	0	87
21	47	5	17	27	33	47	56	63	44	98	20	47	77	2	112
22	39	13	19	25	30	39	46	58	94	119	22	39	83	2	131
23	70	18	27	40	52	70	77	88	121	129	32	70	108	12	159
24	50	18	25	36	42	50	57	74	83	113	32	50	79	4	141
25	28	5	10	14	21	28	35	43	50	63	11	28	45	1	71
26	22	0	3	6	13	22	28	36	55	66	5	22	46	0	75
27	1	0	0	0	0	1	6	10	14	31	0	1	14	0	35
28	0	0	0	0	0	0	0	3	6	9	0	0	4	0	12
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 10
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
12	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
13	0	0	0	0	0	0	0	1	4	10	0	0	1	0	14
14	0	0	0	0	0	0	4	6	10	20	0	0	8	0	28
15	1	0	0	0	2	3	5	9	15	19	0	1	10	0	20
16	8	0	0	2	5	8	10	13	22	38	2	8	16	0	38
17	11	0	0	2	5	11	17	22	34	37	0	11	26	0	37
18	15	0	2	4	13	15	23	30	34	36	4	15	32	0	36
19	22	1	8	11	14	22	31	41	42	42	9	22	42	0	42
20	47	8	20	32	39	47	48	48	48	48	22	47	48	3	48
21	56	18	29	40	49	56	56	56	56	56	34	56	56	5	56
22	47	21	27	32	40	47	51	55	55	55	29	47	55	11	55
23	50	20	35	43	49	50	50	50	50	50	41	50	50	16	50
24	58	23	34	48	55	58	58	58	58	58	42	58	58	21	58
25	38	8	20	27	31	38	45	49	54	54	25	38	53	2	54
26	28	0	5	11	15	28	35	43	53	53	7	28	49	0	53
27	5	0	0	0	1	5	12	25	30	40	0	5	28	0	44
28	0	0	0	0	0	0	0	3	6	9	0	0	5	0	12
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DFFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	26	29
7	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
8	36	36	36	36	36	36	36	36	36	36	36	36	36	34	36
9	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
10	36	35	36	36	36	36	36	36	36	36	36	36	36	32	36
11	37	31	37	37	37	37	37	37	37	37	37	37	37	26	37
12	38	34	37	38	38	38	38	38	38	38	38	38	38	23	38
13	40	24	32	38	40	40	40	40	40	40	35	40	40	8	40
14	40	11	28	34	36	40	41	41	41	41	31	40	41	3	41
15	42	23	27	32	39	42	44	44	44	44	28	42	44	0	44
16	30	0	9	21	27	30	33	34	36	38	16	30	36	0	38
17	25	0	0	14	18	25	31	33	37	37	5	25	35	0	37
18	20	0	0	4	11	20	22	25	31	36	3	20	27	0	36
19	20	0	0	0	8	20	25	29	32	35	0	20	31	0	41
20	0	0	0	0	0	0	6	10	25	30	0	0	15	0	38
21	0	0	0	0	0	0	5	11	20	35	0	0	15	0	37
22	9	3	3	3	4	9	14	24	28	33	3	9	26	3	37
23	3	3	3	3	3	3	3	6	12	23	3	3	9	3	32
24	3	3	3	3	3	3	4	9	19	28	3	3	12	3	37
25	18	3	3	6	10	18	22	28	31	43	3	18	30	3	49
26	24	0	0	5	18	24	32	40	46	50	0	24	41	0	53
27	44	4	15	23	32	44	47	49	49	49	22	44	49	0	49
28	44	31	37	39	43	44	44	44	44	44	38	44	44	6	44
29	39	32	39	39	39	39	39	39	39	39	39	39	39	23	39
30	35	34	35	35	35	35	35	35	35	35	35	35	35	28	35
31	30	28	30	30	30	30	30	30	30	30	30	30	30	26	30
32	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
33	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
34	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
35	27	27	27	27	27	27	27	27	27	27	27	27	27	23	27
36	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DFC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
20	0	0	0	0	0	0	0	0	2	9	0	0	0	0	12
21	0	0	0	0	0	0	0	1	23	44	0	0	10	0	49
22	0	0	0	0	0	0	0	0	25	43	0	0	8	0	51
23	0	0	0	0	0	0	13	27	41	61	0	0	29	0	88
24	0	0	0	0	0	0	2	15	30	59	0	0	25	0	67
25	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
26	0	0	0	0	0	0	0	0	0	3	0	0	0	0	19
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GAZA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 39 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
11	0	0	0	0	0	0	0	3	4	18	0	0	3	0	27
12	3	0	0	0	0	2	5	8	15	22	0	2	13	0	31
13	7	0	0	1	3	6	12	18	28	34	0	6	21	0	61
14	11	0	0	3	7	11	13	17	24	36	1	11	21	8	48
15	21	1	9	14	16	20	30	42	52	87	11	20	53	30	117
16	28	1	9	19	21	26	30	40	52	59	14	26	45	0	110
17	35	0	13	18	28	35	37	43	65	82	16	35	56	37	102
18	33	5	16	21	24	31	36	43	50	65	19	31	45	8	79
19	58	10	16	21	32	55	65	79	90	99	17	55	86	11	126
20	56	2	14	37	46	54	62	75	83	116	20	54	78	9	136
21	78	11	22	40	53	76	87	115	125	154	38	76	120	13	163
22	79	23	43	62	69	78	86	97	111	158	51	78	106	21	169
23	75	30	51	55	69	75	90	101	122	157	53	75	117	56	198
24	81	23	33	44	62	77	87	100	126	158	34	77	116	27	183
25	66	21	35	49	54	65	80	90	113	138	41	65	100	29	157
26	51	11	21	31	38	46	61	65	70	83	26	46	66	4	94
27	31	1	6	11	21	30	37	44	57	70	8	30	52	6	83
28	5	0	0	0	0	5	9	19	26	34	0	5	24	4	44
29	0	0	0	0	0	0	1	6	9	22	0	0	6	0	32
30	0	0	0	0	0	0	0	0	0	10	0	0	0	0	13
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 39 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
11	0	0	0	0	0	0	1	3	6	18	0	0	4	0	27
12	4	0	0	0	0	3	5	11	16	25	0	3	14	0	35
13	7	0	0	1	3	6	14	18	28	34	0	8	21	0	45
14	12	0	1	5	10	12	14	23	25	33	2	12	24	8	33
15	28	4	9	16	19	27	33	36	36	36	14	27	36	18	36
16	31	5	14	21	26	31	31	31	31	31	20	31	31	12	31
17	36	11	20	29	36	36	36	36	36	36	26	36	36	22	36
18	40	14	20	30	40	40	40	40	40	40	23	40	40	26	40
19	43	16	22	37	43	43	43	43	43	43	29	43	43	25	43
20	48	14	39	44	47	48	48	48	48	48	43	48	48	12	48
21	49	19	40	45	49	49	49	49	49	49	43	49	49	20	49
22	42	38	42	42	42	42	42	42	42	42	42	42	42	32	42
23	40	38	39	40	40	40	40	40	40	40	40	40	40	38	40
24	45	40	45	45	45	45	45	45	45	45	45	45	45	37	45
25	44	40	43	44	44	44	44	44	44	44	43	44	44	42	44
26	46	34	42	44	45	46	46	46	46	46	43	46	46	27	46
27	46	15	31	34	38	45	48	48	49	49	33	45	49	11	49
28	25	0	0	3	12	24	30	36	44	49	2	24	38	4	50
29	4	0	0	0	0	2	6	10	19	29	0	2	12	3	40
30	0	0	0	0	0	0	0	0	1	10	0	0	0	0	14
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-PLU EN MM — EFFECTIF DE L ECHANTILLON 39 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31
4	30	30	30	30	30	30	30	30	30	30	30	30	30	15	30
5	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
7	33	31	33	33	33	33	33	33	33	33	33	33	33	21	33
8	35	34	35	35	35	35	35	35	35	35	35	35	35	20	35
9	39	23	37	34	39	39	39	39	39	39	39	39	39	24	39
10	36	26	32	36	36	36	36	36	36	36	36	36	36	18	36
11	36	9	24	32	33	36	36	36	36	36	29	36	36	18	36
12	30	0	16	21	29	30	34	35	35	35	19	30	35	9	35
13	24	0	2	13	19	25	30	33	35	35	6	25	34	8	35
14	20	0	0	9	15	19	22	26	31	33	7	19	28	4	33
15	4	0	0	0	0	4	10	17	21	29	0	4	19	0	32
16	0	0	0	0	0	0	2	6	11	21	0	0	9	0	25
17	0	0	0	0	0	0	0	0	10	20	0	0	6	0	24
18	0	0	0	0	0	0	0	2	16	22	0	0	9	0	25
19	0	0	0	0	0	0	0	1	12	24	0	0	5	0	26
20	2	2	2	2	2	2	2	4	8	27	2	2	5	4	36
21	2	2	2	2	2	2	2	3	10	23	2	2	6	5	33
22	2	2	2	2	2	2	2	2	2	5	2	2	2	2	6
23	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
24	2	2	2	2	2	2	2	2	2	3	2	2	2	2	7
25	2	2	2	2	2	2	2	2	3	4	2	2	2	2	5
26	2	2	2	2	2	2	2	3	5	12	2	2	4	3	14
27	5	2	2	2	3	4	11	16	19	28	2	4	17	2	39
28	24	0	3	12	18	24	34	44	47	50	9	24	46	0	50
29	42	6	21	34	40	42	47	47	47	47	27	42	47	19	47
30	43	28	38	43	43	43	43	43	43	43	41	43	43	31	43
31	33	31	33	33	33	33	33	33	33	33	33	33	33	26	33
32	26	26	26	26	26	26	26	26	26	26	26	26	26	19	26
33	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
34	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 39 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	7	0	0	0	0	37
16	0	0	0	0	0	0	0	0	0	15	0	0	0	0	30
17	0	0	0	0	0	0	0	0	0	33	0	0	0	0	53
18	0	0	0	0	0	0	0	0	1	17	0	0	0	0	26
19	0	0	0	0	0	0	2	10	23	47	0	0	15	0	59
20	0	0	0	0	0	0	5	14	31	64	0	0	23	0	86
21	10	0	0	0	0	10	36	66	73	88	0	10	70	0	112
22	21	0	0	0	5	20	33	40	54	100	0	20	48	0	109
23	32	0	0	10	21	32	46	53	78	101	6	32	70	8	156
24	37	0	0	4	22	35	44	58	86	117	0	35	76	3	138
25	17	0	0	0	4	13	31	40	66	89	0	13	46	0	111
26	0	0	0	0	0	0	4	19	24	38	0	0	22	0	49
27	0	0	0	0	0	0	0	0	6	12	0	0	0	0	35
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GOURE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
14	0	0	0	0	0	0	0	4	7	18	0	0	6	0	38
15	0	0	0	0	0	0	1	4	11	20	0	0	7	0	39
16	0	0	0	0	0	0	1	4	10	15	0	0	6	0	18
17	1	0	0	0	0	1	7	15	20	23	0	1	18	0	28
18	6	0	0	1	2	6	11	16	25	31	0	6	18	6	36
19	16	0	4	6	10	15	22	24	30	34	5	15	27	2	35
20	38	2	5	24	27	36	42	48	62	78	18	36	57	37	82
21	44	7	13	18	30	40	59	86	95	130	17	40	90	6	157
22	45	8	16	23	31	44	56	68	94	112	20	44	84	7	118
23	50	7	12	32	40	47	67	84	96	107	22	47	91	32	149
24	40	3	18	28	33	38	43	46	52	82	24	38	50	0	96
25	14	2	5	9	10	13	21	28	37	54	6	13	30	21	61
26	13	0	0	3	7	13	20	24	38	48	1	13	31	2	49
27	3	0	0	0	1	2	6	11	15	32	0	2	12	0	43
28	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
29	0	0	0	0	0	0	0	0	0	2	0	0	0	0	15
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	10
14	0	0	0	0	0	0	0	4	7	18	0	0	6	0	30
15	0	0	0	0	0	0	1	4	11	20	0	0	7	0	30
16	0	0	0	0	0	0	1	4	12	16	0	0	8	0	26
17	2	0	0	0	0	1	9	17	21	25	0	1	19	0	31
18	8	0	0	1	3	7	13	17	28	31	1	7	21	6	32
19	16	0	4	6	10	15	22	24	31	32	5	15	28	2	32
20	38	2	5	24	27	38	38	38	38	38	18	38	38	19	38
21	46	11	19	35	45	46	46	46	46	46	28	46	46	23	46
22	45	14	26	37	45	45	45	45	45	45	31	45	45	14	45
23	50	11	35	40	45	50	50	50	50	50	39	50	50	27	50
24	52	9	33	42	47	51	55	56	58	58	38	51	57	15	58
25	26	6	10	13	13	25	30	34	43	53	11	25	36	22	55
26	15	0	0	3	12	14	24	31	40	48	2	14	35	3	53
27	5	0	0	0	1	4	10	12	16	32	0	4	15	0	44
28	0	0	0	0	0	0	0	0	1	7	0	0	0	0	14
29	0	0	0	0	0	0	0	0	0	2	0	0	0	0	15
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
2	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
7	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
8	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
9	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
10	32	30	32	32	32	32	32	32	32	32	32	32	32	29	32
11	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
12	33	31	32	33	33	33	33	33	33	33	33	33	33	31	33
13	34	23	34	34	34	34	34	34	34	34	34	34	34	21	34
14	35	4	25	28	33	35	35	35	35	35	28	35	35	16	35
15	38	7	23	30	35	38	38	38	38	38	26	38	38	18	38
16	33	7	19	24	29	33	33	33	33	33	20	33	33	16	33
17	28	1	10	13	17	26	32	33	33	33	11	26	33	16	33
18	23	0	2	14	18	22	27	29	31	32	4	22	30	4	32
19	16	0	0	3	8	15	21	24	27	29	0	15	25	4	32
20	0	0	0	0	0	0	0	4	12	19	33	0	0	13	0	35
21	0	0	0	0	0	0	0	0	5	17	27	0	0	9	0	34
22	0	0	0	0	0	0	0	0	1	15	27	0	0	12	0	31
23	3	3	3	3	3	3	3	3	11	14	28	3	3	12	2	42
24	8	3	3	3	4	7	12	17	24	41	3	7	20	7	51
25	32	3	10	22	26	31	37	45	46	50	15	31	45	5	52
26	37	0	8	19	27	34	41	45	51	54	13	34	50	21	54
27	42	2	29	33	36	42	46	47	47	47	32	42	47	12	47
28	41	27	38	41	41	41	41	41	41	41	40	41	41	28	41
29	35	20	34	35	35	35	35	35	35	35	35	35	35	20	35
30	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
31	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
36	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
21	0	0	0	0	0	0	0	10	27	59	0	0	17	0	96
22	0	0	0	0	0	0	6	14	23	56	0	0	20	0	63
23	0	0	0	0	0	0	11	16	43	54	0	0	34	8	87
24	0	0	0	0	0	0	0	0	0	16	0	0	0	0	45
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MAINE SOROA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
13	0	0	0	0	0	0	0	1	5	9	0	0	2	0	14
14	0	0	0	0	0	0	0	2	7	25	0	0	5	0	29
15	0	0	0	0	0	0	0	4	11	16	0	0	6	2	19
16	3	0	0	0	1	3	5	10	14	24	0	3	12	0	28
17	4	0	0	0	0	3	12	17	25	33	0	3	22	3	48
18	6	0	1	1	5	6	9	11	16	27	1	6	15	10	36
19	17	0	6	8	11	16	26	33	40	48	8	16	37	10	52
20	25	2	12	14	20	24	28	43	60	66	13	24	50	27	75
21	39	3	18	27	31	37	43	57	73	83	23	37	61	12	95
22	49	8	15	20	39	47	61	77	99	120	18	47	88	54	134
23	53	10	29	37	48	52	57	76	87	101	33	52	80	2	138
24	45	18	28	31	40	44	52	61	75	93	28	44	67	0	159
25	25	0	3	15	20	24	32	39	43	50	6	24	41	4	57
26	14	0	1	9	10	13	17	20	33	42	5	13	29	14	60
27	4	0	0	0	2	4	6	10	21	35	0	4	16	9	40
28	1	0	0	0	1	1	3	6	10	17	0	1	7	0	31
29	0	0	0	0	0	0	0	0	1	9	0	0	0	0	13
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
13	0	0	0	0	0	0	0	1	5	9	0	0	2	0	14
14	0	0	0	0	0	0	0	2	7	25	0	0	5	0	29
15	0	0	0	0	0	0	0	4	11	16	0	0	6	2	19
16	3	0	0	0	1	3	5	10	14	24	0	3	12	0	28
17	4	0	0	0	0	3	12	17	28	33	0	3	22	3	35
18	7	0	1	1	5	6	10	15	18	34	1	6	16	12	34
19	17	0	8	9	12	16	28	32	32	32	8	16	32	10	32
20	26	2	14	19	22	25	37	37	37	37	15	25	37	19	37
21	45	11	27	38	42	45	45	45	45	45	32	45	45	21	45
22	43	14	22	41	43	43	43	43	43	43	27	43	43	28	43
23	48	14	30	39	47	48	48	48	48	48	33	48	48	22	48
24	55	28	41	49	53	55	55	55	55	55	46	55	55	10	56
25	41	2	24	27	35	39	42	44	49	51	24	39	46	7	52
26	18	0	4	9	11	17	24	33	38	48	7	17	35	14	53
27	6	0	0	0	3	6	8	13	23	35	0	6	19	9	45
28	1	0	0	0	1	1	4	6	12	24	0	1	9	0	32
29	0	0	0	0	0	0	0	0	1	9	0	0	0	0	13
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
5	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28
6	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
7	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
8	36	36	36	36	36	36	36	36	36	36	36	36	36	34	36
9	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
10	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
11	35	31	35	35	35	35	35	35	35	35	35	35	35	32	35
12	36	26	36	36	36	36	36	36	36	36	36	36	36	18	36
13	37	22	30	34	37	37	37	37	37	37	31	37	37	26	37
14	38	12	31	34	38	38	38	38	38	38	32	38	38	3	38
15	41	21	29	36	40	41	41	41	41	41	32	41	41	21	41
16	33	7	20	24	30	32	35	36	36	36	22	32	36	12	36
17	30	0	6	14	23	29	33	35	35	35	9	29	35	0	35
18	26	0	12	17	22	26	28	29	32	34	15	26	31	0	34
19	15	0	0	0	1	13	18	21	24	29	0	13	23	2	32
20	9	0	0	0	0	7	13	15	21	25	0	7	17	0	35
21	0	0	0	0	0	0	2	4	12	21	0	0	7	0	33
22	0	0	0	0	0	0	0	0	16	26	0	0	1	0	28
23	2	2	2	2	2	2	2	8	16	26	2	2	12	2	36
24	3	3	3	3	3	3	3	6	17	28	3	3	10	5	36
25	14	3	5	9	11	14	20	26	31	39	6	14	29	10	53
26	34	0	12	17	23	32	39	42	45	49	13	32	42	8	53
27	42	2	24	29	39	42	44	47	48	48	26	42	48	7	48
28	42	11	31	36	39	42	43	44	44	44	33	42	44	14	44
29	39	25	35	39	39	39	39	39	39	39	38	39	39	18	39
30	34	29	34	34	34	34	34	34	34	34	34	34	34	17	34
31	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
32	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
33	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
34	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	28	28	28	26	28	28	28	28	28	28	28	28	28	28	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
21	0	0	0	0	0	0	0	0	1	15	0	0	0	0	20
22	0	0	0	0	0	0	0	14	38	59	0	0	27	18	81
23	5	0	0	0	0	2	7	15	32	54	0	2	25	0	79
24	0	0	0	0	0	0	0	4	9	34	0	0	7	0	111
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MARADI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	2	4	0	0	0	0	21
13	0	0	0	0	0	0	0	1	6	14	0	0	4	0	25
14	1	0	0	0	0	0	3	6	10	29	0	0	8	0	43
15	6	0	0	0	2	5	8	13	18	34	0	5	14	0	50
16	11	0	1	3	6	11	14	18	24	28	3	11	21	0	45
17	13	0	2	5	10	12	18	25	32	42	4	12	30	0	45
18	15	0	3	10	13	14	22	32	44	58	8	14	43	0	65
19	29	4	6	12	21	28	35	42	49	63	10	28	45	2	80
20	54	6	18	34	43	54	60	66	68	79	29	54	67	3	98
21	70	17	42	51	54	68	74	78	93	105	47	68	86	5	113
22	79	31	44	50	69	78	83	92	100	106	47	78	98	9	122
23	70	30	44	56	65	69	72	88	98	127	50	69	93	12	144
24	67	14	27	39	50	64	86	97	116	135	31	64	109	4	155
25	39	13	25	30	36	38	48	59	71	84	28	38	64	6	91
26	28	7	11	16	20	27	33	37	51	63	14	27	39	0	79
27	8	0	0	2	4	7	11	14	26	33	1	7	22	0	38
28	0	0	0	0	0	0	2	4	8	17	0	0	5	0	34
29	0	0	0	0	0	0	0	0	0	6	0	0	0	0	10
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	2	4	0	0	1	0	21
13	0	0	0	0	0	0	0	2	7	14	0	0	5	0	25
14	1	0	0	0	0	0	3	6	10	29	0	0	8	0	36
15	8	0	0	0	4	7	10	14	24	39	0	7	18	0	39
16	11	0	1	4	6	11	15	23	28	35	3	11	26	0	35
17	18	0	3	7	11	17	24	30	33	33	4	17	32	0	33
18	17	1	7	10	13	16	25	32	32	32	9	16	32	0	32
19	36	4	6	17	31	36	36	36	36	36	10	36	36	2	36
20	40	19	29	40	40	40	40	40	40	40	36	40	40	4	40
21	49	38	49	49	49	49	49	49	49	49	49	49	49	26	49
22	50	45	49	50	50	50	50	50	50	50	50	50	50	24	50
23	49	42	49	49	49	49	49	49	49	49	49	49	49	23	49
24	53	40	44	52	53	53	53	53	53	53	50	53	53	34	53
25	47	19	36	43	45	46	47	49	49	49	38	46	49	9	49
26	41	9	23	30	34	40	43	47	48	49	27	40	48	0	49
27	20	2	5	9	16	19	29	32	35	37	7	19	34	0	48
28	0	0	0	0	0	0	3	8	15	29	0	0	13	0	38
29	0	0	0	0	0	0	0	0	3	10	0	0	0	0	11
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
5	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
8	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
9	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
10	36	35	36	36	36	36	36	36	36	36	36	36	36	34	36
11	33	29	32	33	33	33	33	33	33	33	33	33	33	20	33
12	33	33	33	33	33	33	33	33	33	33	33	33	33	29	33
13	34	12	30	33	34	34	34	34	34	34	31	34	34	0	34
14	35	10	26	29	34	35	35	35	35	35	27	35	35	4	35
15	35	1	23	28	33	35	36	36	36	36	26	35	36	0	36
16	31	0	12	23	26	30	33	37	39	39	16	30	39	0	39
17	23	0	6	9	17	22	27	30	31	34	6	22	31	0	35
18	15	0	0	1	5	14	20	23	29	32	0	14	27	0	32
19	12	0	0	0	1	10	17	19	22	29	0	10	21	0	30
20	0	0	0	0	0	0	0	11	25	31	0	0	17	0	31
21	0	0	0	0	0	0	0	0	3	16	0	0	0	0	20
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
23	3	3	3	3	3	3	3	3	3	5	3	3	3	2	11
24	2	2	2	2	2	2	2	2	2	4	2	2	2	2	9
25	3	3	3	3	3	3	3	3	6	12	3	3	4	3	16
26	4	2	2	2	3	4	5	8	12	18	2	4	8	2	32
27	9	2	2	3	6	9	13	18	25	37	2	9	22	2	41
28	26	0	11	14	16	25	31	36	41	43	12	25	39	0	46
29	41	5	24	30	37	41	43	43	43	43	28	41	43	0	43
30	39	27	35	39	39	39	39	39	39	39	37	39	39	13	39
31	35	34	35	35	35	35	35	35	35	35	35	35	35	21	35
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	4	0	0	0	0	22
20	0	0	0	0	0	0	0	0	9	22	0	0	4	0	38
21	1	0	0	0	0	0	14	28	41	52	0	0	36	0	63
22	25	0	0	0	8	22	33	37	46	56	0	22	40	0	62
23	17	0	0	0	7	15	20	37	46	75	0	15	41	0	92
24	17	0	0	0	0	15	29	44	64	76	0	15	54	0	98
25	0	0	0	0	0	0	0	5	13	31	0	0	8	0	37
26	0	0	0	0	0	0	0	0	0	12	0	0	0	0	15
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NGUIGMI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	4	0	0	0	-5	6
14	0	0	0	0	0	0	0	0	0	0	0	0	0	-5	2
15	0	0	0	0	0	0	0	0	2	6	0	0	0	-5	14
16	0	0	0	0	0	0	0	0	0	1	0	0	0	-5	6
17	0	0	0	0	0	0	0	0	0	1	0	0	0	-5	1
18	0	0	0	0	0	0	0	0	4	9	0	0	1	-5	14
19	0	0	0	0	0	0	2	5	12	26	0	0	6	-5	42
20	5	0	0	0	2	5	9	13	17	31	0	5	14	-5	50
21	30	2	5	11	20	30	36	48	62	86	7	30	52	-5	108
22	29	0	8	15	22	29	41	55	81	107	10	29	61	0	126
23	36	4	10	15	29	36	55	68	76	114	11	36	70	0	145
24	22	0	4	10	16	22	29	34	47	64	7	22	43	0	73
25	4	0	0	0	0	4	6	12	25	37	0	4	16	0	41
26	0	0	0	0	0	0	2	4	9	21	0	0	6	0	37
27	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	6
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
15	0	0	0	0	0	0	0	0	2	6	0	0	0	0	14
16	0	0	0	0	0	0	0	0	0	6	0	0	0	0	24
17	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
18	0	0	0	0	0	0	0	0	5	9	0	0	1	0	14
19	0	0	0	0	0	0	3	6	13	26	0	0	8	0	33
20	7	0	0	1	3	7	10	15	22	35	0	7	15	0	39
21	30	2	5	16	20	30	36	47	48	48	7	30	48	0	48
22	38	0	10	23	32	38	47	47	47	47	14	38	47	0	47
23	36	4	11	16	31	36	53	53	53	53	12	36	53	0	53
24	34	1	10	17	26	34	42	49	55	59	12	34	51	0	59
25	5	0	0	0	2	5	13	21	26	40	0	5	24	0	44
26	0	0	0	0	0	0	2	6	12	23	0	0	7	0	37
27	0	0	0	0	0	0	0	0	1	3	0	0	0	0	5
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 10 TCHAD - Analyse fréquentielle des principaux termes du bilan hydrique.

CHAD - Frequential analysis of waterbalance parameters.

Stations pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Abéché

Am-Timan

Ati

Baïbokoum

Bol

Bousso

Moissala

Moundou

N'Djamena

Pala

Sarh

ABECHE

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
13	0	0	0	0	0	0	0	0	1	3	0	0	1	0	5
14	0	0	0	0	0	0	2	7	19	27	0	0	10	0	35
15	0	0	0	0	0	0	2	5	16	25	0	0	11	0	41
16	3	0	0	0	0	3	6	8	11	16	0	3	10	0	26
17	8	0	0	1	3	8	10	13	17	24	1	8	14	0	25
18	8	0	1	4	7	8	13	22	26	28	3	8	25	0	45
19	16	0	5	8	11	16	19	25	33	43	6	16	32	8	46
20	18	3	7	10	13	18	24	41	59	84	9	18	44	1	101
21	48	9	14	34	41	48	64	82	88	128	21	48	84	7	153
22	63	13	22	38	45	63	75	85	107	147	31	63	99	27	179
23	67	24	41	51	61	67	81	92	114	143	44	67	96	22	195
24	55	12	27	32	51	55	62	68	79	90	28	55	72	45	100
25	20	0	4	10	16	20	25	40	58	74	8	20	47	0	101
26	17	0	1	3	4	17	22	24	31	44	2	17	29	7	57
27	3	0	0	0	0	3	6	9	15	18	0	3	9	0	23
28	0	0	0	0	0	0	0	2	5	21	0	0	3	0	40
29	0	0	0	0	0	0	0	0	2	7	0	0	0	0	18
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
13	0	0	0	0	0	0	0	0	1	3	0	0	1	0	5
14	0	0	0	0	0	0	2	7	19	27	0	0	10	0	35
15	0	0	0	0	0	0	2	5	16	26	0	0	11	0	41
16	3	0	0	0	0	3	7	8	13	16	0	3	10	0	26
17	8	0	0	1	3	8	10	13	17	24	1	8	14	0	25
18	8	0	1	4	7	8	13	22	26	28	3	8	25	0	35
19	16	0	5	8	12	16	22	32	33	33	6	16	33	8	33
20	19	4	9	11	14	19	28	31	31	31	10	19	31	1	31
21	39	11	18	37	39	39	39	39	39	39	28	39	39	18	39
22	39	18	38	39	39	39	39	39	39	39	39	39	39	26	39
23	41	36	41	41	41	41	41	41	41	41	41	41	41	35	41
24	56	26	52	55	56	56	56	56	56	56	54	56	56	28	56
25	38	9	18	26	32	38	41	50	53	54	24	38	52	14	54
26	20	0	2	4	6	20	27	36	49	53	3	20	45	7	54
27	5	0	0	0	2	5	9	11	18	23	0	5	15	0	27
28	0	0	0	0	0	0	0	2	5	21	0	0	3	0	40
29	0	0	0	0	0	0	0	1	4	7	0	0	2	0	20
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETP EN MM — EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
4	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
5	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
6	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
8	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
9	42	42	42	42	42	42	42	42	42	42	42	42	42	41	42
10	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
11	40	33	38	40	40	40	40	40	40	40	40	40	40	27	40
12	40	33	40	40	40	40	40	40	40	40	40	40	40	33	40
13	41	35	38	40	41	41	41	41	41	41	39	41	41	35	41
14	41	9	17	33	39	41	42	42	42	42	27	41	42	4	42
15	44	3	23	35	41	44	45	45	45	45	31	44	45	9	45
16	36	12	23	27	30	36	39	39	39	39	25	36	39	18	39
17	29	11	13	23	25	29	31	35	36	37	19	29	36	12	37
18	25	0	7	10	14	25	27	29	32	34	9	25	32	15	35
19	16	0	0	0	7	16	18	22	26	28	0	16	25	0	33
20	11	0	0	0	1	11	14	18	21	25	0	11	20	0	28
21	0	0	0	0	0	0	0	0	10	23	0	0	2	0	27
22	0	0	0	0	0	0	0	0	0	2	0	0	0	0	20
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
24	3	3	3	3	3	3	3	3	5	17	3	3	4	3	33
25	18	3	3	5	15	18	21	30	33	42	4	18	31	3	47
26	33	0	3	8	24	33	39	49	51	52	5	33	50	6	54
27	42	23	28	35	40	42	47	49	51	51	32	42	51	35	51
28	47	6	38	44	46	47	47	47	47	47	42	47	47	21	47
29	42	21	35	40	42	42	42	42	42	42	39	42	42	24	42
30	37	35	36	37	37	37	37	37	37	37	37	37	37	20	37
31	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
33	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
34	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
35	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	8	0	0	0	0	22
21	0	0	0	0	0	0	2	5	33	75	0	0	14	0	97
22	8	0	0	0	0	8	25	37	59	90	0	8	45	0	121
23	26	0	0	0	15	26	31	42	60	84	0	26	48	0	156
24	11	0	0	0	0	11	17	27	37	48	0	11	30	19	58
25	0	0	0	0	0	0	0	0	0	17	0	0	0	0	44
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AM-TIMAN

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
9	0	0	0	0	0	0	0	0	6	11	0	0	3	0	17
10	0	0	0	0	0	0	0	0	1	3	0	0	0	0	3
11	0	0	0	0	0	0	4	8	13	20	0	0	10	0	29
12	6	0	0	0	4	5	6	14	24	33	0	5	19	0	39
13	9	0	0	1	4	8	11	24	36	41	0	8	30	0	50
14	21	0	3	7	14	21	23	31	34	44	5	21	32	0	51
15	17	0	3	7	9	16	21	37	51	59	6	16	43	19	69
16	26	1	9	17	22	25	28	33	43	49	15	25	38	6	68
17	36	5	21	26	30	34	39	46	58	71	23	34	51	2	77
18	41	9	14	23	30	41	44	63	72	75	18	41	69	11	84
19	45	8	19	25	35	45	50	60	71	80	23	45	64	26	107
20	61	4	20	32	48	59	62	71	83	90	28	59	75	6	100
21	69	3	27	36	54	64	91	105	116	124	29	64	110	42	131
22	64	26	39	42	54	63	71	95	121	129	40	63	108	24	139
23	108	43	48	69	88	104	134	150	167	182	55	104	152	75	190
24	82	19	34	57	72	81	98	132	153	174	51	81	142	66	181
25	53	20	24	33	44	51	57	69	86	98	28	51	79	26	102
26	40	12	20	21	25	39	47	57	63	117	20	39	60	17	124
27	31	2	12	15	24	29	38	42	48	60	15	29	44	10	66
28	10	0	0	0	5	9	12	23	37	54	0	9	29	0	60
29	0	0	0	0	0	0	0	12	19	27	0	0	15	0	35
30	2	0	0	0	0	1	4	10	17	21	0	1	13	0	25
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
9	0	0	0	0	0	0	0	0	6	11	0	0	3	0	17
10	0	0	0	0	0	0	0	0	2	3	0	0	1	0	7
11	0	0	0	0	0	0	4	8	13	20	0	0	10	0	29
12	6	0	0	0	4	5	6	14	24	32	0	5	19	0	33
13	9	0	0	3	6	9	11	24	33	34	1	9	30	0	34
14	26	0	3	7	17	24	30	33	35	35	5	24	35	0	35
15	22	0	3	7	14	20	34	35	35	35	6	20	35	17	35
16	30	7	15	22	30	30	30	30	30	30	18	30	30	16	30
17	27	5	23	27	27	27	27	27	27	27	26	27	27	13	27
18	31	9	24	31	31	31	31	31	31	31	28	31	31	11	31
19	34	15	34	34	34	34	34	34	34	34	34	34	34	19	34
20	35	21	35	35	35	35	35	35	35	35	35	35	35	16	35
21	45	39	45	45	45	45	45	45	45	45	45	45	45	41	45
22	41	38	40	40	41	41	41	41	41	41	40	41	41	39	41
23	40	39	40	40	40	40	40	40	40	40	40	40	40	39	40
24	45	44	44	45	45	45	45	45	45	45	45	45	45	44	45
25	42	40	41	41	42	42	42	42	42	42	41	42	42	41	42
26	43	39	41	42	43	43	44	44	44	44	41	43	44	41	44
27	44	35	39	40	42	44	45	45	46	46	39	44	46	37	46
28	38	23	24	28	34	38	40	43	46	47	26	38	45	24	48
29	24	7	13	16	21	23	24	32	41	46	14	23	37	7	46
30	14	0	3	6	13	14	15	21	24	36	5	14	21	5	39
31	2	0	0	0	2	2	3	7	9	16	0	2	7	0	18
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	25	12	25	25	25	25	25	25	25	25	25	25	25	12	25
7	30	18	26	30	30	30	30	30	30	30	30	30	30	22	30
8	32	13	27	32	32	32	32	32	32	32	30	32	32	17	32
9	36	8	24	31	36	36	36	36	36	36	29	36	36	15	36
10	32	19	28	29	32	32	32	32	32	32	29	32	32	24	32
11	29	0	12	18	25	28	33	33	33	33	16	28	33	16	33
12	27	0	0	8	25	27	27	31	33	33	2	27	33	16	33
13	23	0	0	0	16	21	25	29	33	34	0	21	30	12	34
14	8	0	0	0	3	6	12	25	28	34	0	6	27	0	35
15	1	0	0	0	0	0	15	24	27	31	0	0	27	0	34
16	0	0	0	0	0	0	0	3	7	14	0	0	6	0	16
17	0	0	0	0	0	0	0	0	1	5	0	0	0	0	13
18	0	0	0	0	0	0	0	0	2	12	0	0	0	0	17
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
22	1	1	1	1	1	1	1	2	2	2	1	1	2	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
25	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
26	3	2	2	2	2	2	3	3	4	5	2	2	3	2	5
27	4	2	2	2	3	3	4	7	8	9	2	3	8	2	10
28	12	2	2	4	9	11	13	20	23	25	3	11	21	5	26
29	23	0	1	5	20	23	23	28	32	36	3	23	31	7	39
30	30	1	8	20	24	29	31	33	37	42	13	29	36	16	44
31	32	13	18	25	28	31	33	34	35	35	20	31	35	22	35
32	29	24	27	29	29	29	29	29	29	29	28	29	29	26	29
33	24	13	24	24	24	24	24	24	24	24	24	24	24	13	24
34	24	22	24	24	24	24	24	24	24	24	24	24	24	22	24
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	24
19	0	0	0	0	0	0	0	9	16	35	0	0	12	0	56
20	0	0	0	0	0	0	0	4	28	35	0	0	17	0	40
21	8	0	0	0	0	4	17	35	50	77	0	4	41	0	90
22	8	0	0	0	0	4	15	41	60	82	0	4	49	0	91
23	67	0	7	19	41	59	89	103	118	131	14	59	107	23	137
24	42	0	0	11	31	41	58	92	112	134	3	41	102	37	141
25	0	0	0	0	0	0	5	22	36	52	0	0	28	0	56
26	0	0	0	0	0	0	0	11	18	70	0	0	14	0	77
27	0	0	0	0	0	0	0	0	0	7	0	0	0	0	8
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ATI

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	24
14	0	0	0	0	0	0	0	2	9	19	0	0	7	0	26
15	0	0	0	0	0	0	0	0	2	13	0	0	0	0	44
16	0	0	0	0	0	0	1	2	3	7	0	0	2	0	13
17	8	0	0	0	2	7	11	13	18	27	0	7	17	0	30
18	6	0	0	0	0	5	7	10	20	32	0	5	16	0	55
19	14	0	2	3	8	13	19	25	30	42	2	13	28	9	65
20	26	4	9	15	18	25	39	46	55	82	11	25	50	17	93
21	46	11	24	32	40	45	50	65	77	87	26	45	72	20	118
22	63	12	25	34	47	61	65	75	90	117	31	61	77	46	133
23	66	21	32	38	44	58	71	79	87	97	34	58	85	17	117
24	52	8	22	35	43	50	56	72	88	116	29	50	84	13	135
25	21	2	6	8	18	20	26	35	51	68	6	20	46	0	84
26	17	0	3	6	10	16	20	23	38	46	5	16	32	12	49
27	2	0	0	0	0	1	5	14	17	27	0	1	15	0	39
28	0	0	0	0	0	0	0	0	5	14	0	0	1	0	18
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	4	0	0	0	0	25
14	0	0	0	0	0	0	0	5	9	20	0	0	7	0	26
15	0	0	0	0	0	0	0	0	2	13	0	0	0	0	31
16	1	0	0	0	0	0	1	2	3	13	0	0	3	0	31
17	8	0	0	0	2	7	11	13	22	28	0	7	18	0	33
18	6	0	0	0	2	6	9	13	26	33	0	6	20	0	33
19	14	0	2	4	8	13	19	27	31	31	3	13	31	10	31
20	30	4	13	17	27	30	30	30	30	30	15	30	30	15	30
21	37	24	34	37	37	37	37	37	37	37	36	37	37	27	37
22	37	13	35	37	37	37	37	37	37	37	36	37	37	25	37
23	39	35	38	39	39	39	39	39	39	39	39	39	39	31	39
24	52	12	48	52	52	52	52	52	52	52	52	52	52	27	52
25	41	10	21	28	35	40	42	47	50	50	25	40	49	9	50
26	30	1	8	16	20	30	36	41	44	45	10	30	44	12	48
27	8	0	0	2	6	7	12	17	20	35	0	7	19	0	41
28	0	0	0	0	0	0	0	1	8	14	0	0	4	0	18
29	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
7	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33
9	36	36	36	36	36	36	36	36	36	36	36	36	36	33	36
10	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
11	33	33	33	33	33	33	33	33	33	33	33	33	33	31	33
12	35	34	35	35	35	35	35	35	35	35	35	35	35	31	35
13	35	9	34	35	35	35	35	35	35	35	35	35	35	15	35
14	36	10	23	30	35	36	36	36	36	36	26	36	36	15	36
15	40	8	35	39	40	40	40	40	40	40	35	40	40	20	40
16	34	4	25	31	33	34	35	35	35	35	28	34	35	16	35
17	24	1	7	16	21	23	28	32	35	35	9	23	35	17	35
18	26	0	1	16	22	25	28	32	33	33	6	25	33	0	33
19	13	0	0	1	8	13	19	23	26	28	0	13	26	0	31
20	0	0	0	0	0	0	0	6	12	17	0	0	11	0	24
21	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
22	0	0	0	0	0	0	0	0	0	2	0	0	0	0	22
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
24	3	3	3	3	3	3	3	3	3	13	3	3	3	3	42
25	10	2	2	2	6	10	12	19	26	36	2	10	24	13	41
26	19	0	3	4	7	17	24	28	34	42	3	17	31	5	46
27	37	3	21	26	29	36	38	41	45	45	23	36	44	4	45
28	41	21	28	36	40	41	41	41	41	41	29	41	41	26	41
29	37	32	36	37	37	37	37	37	37	37	37	37	37	34	37
30	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
31	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
34	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

*FIN

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	13
21	0	0	0	0	0	0	0	6	27	42	0	0	17	0	56
22	7	0	0	0	0	4	18	26	33	80	0	4	27	7	95
23	5	0	0	0	0	4	12	33	44	59	0	4	40	0	80
24	8	0	0	0	0	7	12	22	38	68	0	7	32	0	83
25	0	0	0	0	0	0	0	0	1	13	0	0	0	0	29
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BAIBOKOUM

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	4	14	0	0	1	0	25
9	1	0	0	0	0	3	8	12	17	0	0	10	0	22
10	11	0	0	1	6	7	13	22	25	32	0	7	23	3	44	72
11	14	0	0	1	8	14	15	20	29	53	0	14	22	0	72
12	11	0	0	1	9	11	13	26	34	85	1	11	60	30	86
13	35	1	4	10	23	33	40	46	72	83	6	33	57	1	87
14	34	2	5	15	23	35	43	49	64	88	10	35	55	13	71
15	41	2	9	18	37	41	46	53	84	81	12	41	57	17	88
16	44	12	14	21	42	46	53	74	80	92	19	40	77	22	97
17	64	7	13	31	46	53	71	91	97	100	27	63	95	14	127
18	51	14	14	24	43	49	52	63	72	89	21	49	69	29	108
19	61	20	24	35	56	61	75	91	96	122	25	61	95	34	135
20	66	41	51	57	74	85	91	97	113	131	54	85	102	48	147
21	75	52	55	56	86	73	79	88	99	127	57	73	89	55	137
22	82	15	58	84	72	78	88	102	115	172	58	78	109	15	188
23	106	47	71	80	98	105	107	114	140	146	79	105	122	37	152
24	81	54	64	87	86	88	100	119	124	144	63	89	123	103	154
25	77	42	35	64	71	77	93	106	126	143	41	77	113	26	169
26	87	35	58	58	78	86	92	105	111	143	52	86	107	46	155
27	62	14	28	43	62	64	85	83	93	110	27	59	91	27	125
28	92	14	26	36	63	81	86	78	98	109	34	51	87	45	116
29	34	1	15	17	27	35	43	58	71	81	14	38	62	3	85
30	14	0	0	0	0	13	22	34	42	59	0	13	38	0	73
31	0	0	0	0	0	0	0	0	1	5	0	0	1	0	6
32	0	0	0	0	0	0	0	0	0	6	0	0	0	0	13
33	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : PLUVIOMETRIE DECADE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	4	14	0	0	1	0	25
9	1	0	0	0	0	3	8	12	17	0	0	10	0	26
10	13	0	0	3	5	11	14	22	24	29	1	11	26	3	29
11	15	0	0	5	12	14	16	24	28	28	1	14	28	0	28
12	24	0	0	5	13	24	28	28	28	28	2	23	28	14	28
13	28	0	22	28	28	28	28	28	28	28	26	28	28	15	28
14	35	11	28	33	35	35	35	35	35	35	29	35	35	19	35
15	41	25	41	41	41	41	41	41	41	41	41	41	41	31	41
16	39	29	38	39	39	39	39	39	39	39	39	39	39	28	39
17	42	32	34	41	42	42	42	42	42	42	40	42	42	30	42
18	41	29	33	39	40	40	41	41	41	41	39	40	41	31	41
19	40	28	37	39	40	40	40	40	40	40	38	40	40	29	40
20	38	38	38	38	38	38	38	38	38	38	38	38	38	37	38
21	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
22	37	36	37	37	37	37	37	37	37	37	37	37	37	35	37
23	37	37	37	37	37	37	37	37	37	37	37	37	37	36	37
24	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
25	38	37	38	38	38	38	38	38	38	38	38	38	38	37	38
26	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
27	40	38	38	39	40	40	40	40	40	40	39	40	40	39	40
28	41	39	40	40	41	41	41	41	41	41	40	41	41	40	41
29	42	36	38	41	42	42	43	43	43	43	40	42	43	37	43
30	43	25	37	38	42	42	43	46	46	46	37	42	46	24	46
31	28	6	20	23	25	25	29	33	38	39	22	25	35	9	39
32	14	0	4	6	9	13	18	21	23	25	5	13	22	0	25
33	1	0	0	0	0	0	1	6	7	8	0	0	7	0	9
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETP EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	26	28	28	28	28	28	28	28	28	28	28	28
4	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
6	25	13	25	25	25	25	25	25	25	25	25	25	25	13	25
7	30	26	30	30	30	30	30	30	30	30	30	30	30	24	30
8	31	0	16	27	31	31	31	31	31	31	22	31	31	15	31
9	31	0	15	20	25	29	32	33	33	33	18	29	33	16	33
10	15	0	0	0	6	14	18	24	25	29	0	14	24	9	29
11	11	0	0	0	7	9	13	19	27	28	0	9	22	7	28
12	0	0	0	0	0	0	4	17	23	26	0	0	20	0	27
13	0	0	0	0	0	0	0	0	0	6	0	0	0	0	14
14	0	0	0	0	0	0	0	0	2	11	0	0	0	0	15
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
17	2	2	2	2	2	2	2	2	2	4	2	2	2	2	11
18	1	1	1	1	1	1	1	2	3	3	1	1	3	1	4
19	1	1	1	1	1	1	1	1	2	4	1	1	1	1	5
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
28	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
29	3	2	2	2	2	2	3	3	4	5	2	2	4	2	6
30	3	0	0	0	0	3	3	5	8	12	0	3	7	0	16
31	13	0	0	3	7	12	13	14	16	21	1	12	15	0	25
32	20	7	9	11	17	19	22	26	28	32	10	19	27	7	34
33	28	18	21	22	26	28	29	29	29	29	21	28	29	19	29
34	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
35	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

*ETN

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 23 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
15	0	0	0	0	0	0	0	0	0	14	0	0	0	0	16
16	0	0	0	0	0	0	0	5	12	44	0	0	9	0	56
17	0	0	0	0	0	0	0	7	22	35	0	0	15	0	73
18	0	0	0	0	0	0	0	7	14	41	0	0	15	0	51
19	4	0	0	0	0	2	13	40	54	66	0	2	48	0	82
20	26	0	0	3	16	23	34	48	60	81	0	23	52	7	94
21	27	0	14	17	23	27	34	45	60	88	16	27	50	11	97
22	40	0	6	18	30	36	46	61	73	130	10	36	67	0	146
23	66	2	34	42	54	64	69	80	85	101	42	64	83	0	109
24	53	15	21	30	49	52	63	82	90	105	26	52	85	58	116
25	36	0	0	8	30	36	52	65	84	122	2	36	72	0	128
26	46	0	11	17	38	46	51	64	72	105	13	46	69	2	117
27	23	0	0	0	3	20	26	44	55	72	0	20	52	3	87
28	11	0	0	0	3	10	12	34	49	68	0	10	44	16	76
29	0	0	0	0	0	0	0	16	21	37	0	0	19	0	42
30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOL

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	14
15	0	0	0	0	0	0	0	0	4	13	0	0	0	0	25
16	0	0	0	0	0	0	0	0	1	3	0	0	1	0	12
17	0	0	0	0	0	0	0	0	4	10	0	0	2	0	15
18	0	0	0	0	0	0	1	2	7	17	0	0	2	0	24
19	2	0	0	0	1	2	4	6	13	21	0	2	8	0	39
20	9	0	0	3	5	9	17	24	32	43	2	9	31	9	55
21	24	0	1	11	14	24	31	51	76	95	5	24	67	16	116
22	43	3	13	27	30	43	52	55	74	81	21	43	59	4	119
23	49	6	13	17	24	44	53	62	88	124	15	49	72	24	182
24	46	1	15	24	30	46	53	57	64	84	17	46	62	7	125
25	15	0	2	4	10	15	22	28	32	37	4	15	29	4	54
26	0	0	0	1	5	4	13	17	30	48	1	9	20	0	62
27	1	0	0	0	0	1	2	5	11	20	0	1	6	0	27
28	0	0	0	0	0	0	0	0	3	7	0	0	0	0	16
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPI-ATION PELLE EN MM — EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	31	2	12	25	28	31	34	37	41	45	22	31	38	4	48
2	12	0	0	2	6	12	17	20	30	44	1	12	24	0	48
3	3	0	0	0	1	3	5	11	20	25	0	3	15	0	31
4	0	0	0	0	0	0	0	0	3	7	0	0	1	0	16
5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
26	0	0	0	0	0	0	0	0	0	3	0	0	0	0	14
27	0	0	0	0	0	0	0	0	4	13	0	0	0	0	25
28	0	0	0	1	0	0	0	1	1	5	0	0	1	0	19
29	0	0	0	0	0	0	0	1	4	10	0	0	2	0	15
30	0	0	0	0	0	0	1	2	7	17	0	0	3	0	24
31	2	0	0	0	1	2	6	8	16	27	0	2	10	0	31
32	12	0	1	4	5	12	20	27	30	30	3	12	30	9	30
33	31	1	7	15	22	31	36	36	38	38	12	31	38	16	38
34	38	4	13	25	34	34	38	38	38	38	27	38	38	19	38
35	41	11	16	41	41	41	41	41	41	41	39	41	41	22	41
36	53	14	33	45	47	53	54	54	54	54	39	53	54	22	54

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
4	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
5	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
6	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
8	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
9	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
10	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
11	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
12	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
13	37	28	36	37	37	37	37	37	37	37	37	37	37	29	37
14	38	24	36	38	38	38	38	38	38	38	38	38	38	25	38
15	40	15	33	40	40	40	40	40	40	40	37	40	40	15	40
16	35	15	31	34	35	35	35	35	35	35	34	35	35	22	35
17	34	14	26	31	33	34	34	34	34	34	29	34	34	21	34
18	33	9	18	26	31	33	33	33	33	33	25	33	33	15	33
19	28	0	9	21	26	28	30	30	31	31	13	28	31	12	31
20	16	0	0	1	8	16	24	25	27	30	0	16	26	0	30
21	5	0	0	0	0	5	11	17	26	33	0	5	23	0	37
22	0	0	0	0	0	0	0	4	10	30	0	0	8	0	34
23	0	0	0	0	0	0	0	0	1	27	0	0	0	0	29
24	3	3	3	3	3	3	7	11	24	35	3	3	13	7	43
25	20	4	4	14	15	20	23	26	34	44	11	20	27	11	50
26	32	0	10	23	28	32	39	42	46	48	17	32	45	24	48
27	40	12	29	28	34	40	42	43	44	44	24	40	44	20	44
28	41	24	34	39	41	41	41	41	41	41	36	41	41	20	41
29	36	32	35	36	36	36	36	36	36	36	36	36	36	28	36
30	32	32	32	32	32	32	32	32	32	32	32	32	32	29	32
31	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
32	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
33	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
34	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 34 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	4	15	0	0	0	0	36
22	0	0	0	0	0	0	0	0	10	22	0	0	2	0	63
23	0	0	0	0	0	0	0	1	13	78	0	0	3	0	144
24	0	0	0	0	0	0	0	0	17	38	0	0	5	0	83
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BOUSSO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
10	0	0	0	0	0	0	0	0	2	13	0	0	1	0	28
11	2	0	0	0	1	2	5	7	13	36	0	2	9	0	49
12	1	0	0	0	0	1	2	10	24	31	0	1	18	0	32
13	17	0	0	1	5	17	21	23	28	33	0	17	25	2	37
14	12	0	1	3	4	12	13	15	24	44	2	12	17	0	59
15	14	0	3	8	11	14	16	23	35	58	6	14	33	18	73
16	25	0	2	10	11	25	33	44	57	65	9	25	52	14	71
17	36	7	11	17	23	35	45	53	81	90	15	36	74	18	94
18	40	6	16	27	31	41	42	50	69	91	24	40	60	14	94
19	45	15	22	31	37	45	49	60	80	92	29	45	73	17	118
20	51	8	14	27	36	51	60	67	76	92	23	51	73	10	101
21	72	25	34	56	61	72	93	106	135	170	49	72	126	20	193
22	63	21	24	44	56	63	70	85	105	146	40	63	100	43	154
23	108	26	51	92	97	108	116	134	152	164	80	108	143	57	188
24	96	16	36	57	66	96	112	115	138	157	51	96	125	47	173
25	66	12	29	36	43	66	61	70	91	117	37	66	81	27	140
26	88	8	21	38	58	88	77	81	97	114	29	88	89	19	129
27	26	2	7	11	18	26	33	45	57	60	8	26	55	18	63
28	14	0	0	2	6	14	18	30	44	47	2	14	37	3	49
29	1	0	0	0	0	1	1	3	11	23	0	1	8	0	28
30	0	0	0	0	0	0	0	0	4	7	20	0	0	6	0	27
31	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION POTELLE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11
9	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
10	0	0	0	0	0	0	0	0	2	13	0	0	1	0	25
11	4	1	0	0	1	4	6	8	15	29	0	4	12	0	33
12	2	0	0	0	1	2	10	18	30	32	0	2	24	0	33
13	17	2	0	1	5	17	22	25	32	33	0	17	31	2	33
14	13	1	1	3	4	13	15	18	31	33	2	13	25	0	33
15	14	0	3	8	11	14	17	31	34	34	6	14	34	17	34
16	28	3	2	10	15	28	28	28	28	28	9	28	28	14	28
17	26	4	15	23	25	26	26	26	26	26	19	26	26	16	26
18	30	21	30	30	30	30	30	30	30	30	30	30	30	22	30
19	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
20	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
21	46	46	46	46	46	46	46	46	46	46	46	46	46	42	46
22	42	40	41	42	42	42	42	42	42	42	42	42	42	40	42
23	41	40	41	41	41	41	41	41	41	41	41	41	41	40	41
24	46	44	46	46	46	46	46	46	46	46	46	46	46	45	46
25	43	40	41	43	43	43	43	43	43	43	43	43	43	41	43
26	44	36	33	44	44	44	44	44	44	44	43	44	44	39	44
27	45	27	29	42	43	45	47	47	47	47	40	45	47	37	47
28	42	18	27	33	38	42	42	44	46	47	30	42	46	27	47
29	23	7	14	18	20	23	27	31	39	43	15	23	35	11	44
30	10	1	2	5	9	10	13	15	20	37	3	10	18	4	41
31	1	0	0	0	0	1	4	5	12	19	0	1	8	0	22
32	0	0	0	0	0	0	0	0	0	4	0	0	0	0	6
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
2	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
3	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
4	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
7	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
8	31	7	28	31	31	31	31	31	31	31	31	31	31	15	31
9	35	13	32	35	35	35	35	35	35	35	34	35	35	21	35
10	32	0	18	31	32	32	32	32	32	32	30	32	32	16	32
11	26	0	4	20	24	26	29	31	33	33	16	26	32	16	33
12	27	0	0	8	15	27	30	32	33	33	2	27	33	15	33
13	15	0	0	4	9	15	23	27	33	33	1	15	31	0	33
14	17	0	0	7	14	17	22	28	30	32	1	17	30	9	33
15	18	0	0	0	2	18	20	22	26	30	0	18	25	0	33
16	0	0	0	0	0	0	0	13	18	25	0	0	17	0	26
17	0	0	0	0	0	0	0	0	6	10	0	0	2	0	13
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
22	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
25	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
26	2	2	2	2	2	2	2	2	3	7	2	2	2	2	8
27	2	2	2	2	2	2	4	5	8	20	2	2	7	2	21
28	5	0	0	1	2	5	7	10	16	19	1	5	14	0	21
29	20	0	1	11	14	20	22	24	28	30	9	20	27	0	30
30	31	0	14	25	27	31	31	34	37	39	23	31	35	0	40
31	29	3	13	24	26	29	30	31	31	31	22	29	31	6	31
32	25	11	22	25	25	25	25	25	25	25	25	25	25	14	25
33	25	22	25	25	25	25	25	25	25	25	25	25	25	22	25
34	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
36	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
17	0	0	0	0	0	0	0	0	0	4	0	0	0	0	11
18	0	0	0	0	0	0	0	0	2	14	0	0	0	0	22
19	0	0	0	0	0	0	0	0	11	29	0	0	2	0	41
20	0	0	0	0	0	0	0	0	34	47	0	0	26	0	52
21	26	0	0	0	5	26	42	46	90	134	0	26	69	0	141
22	13	0	0	0	2	13	21	31	58	95	0	13	52	0	99
23	60	0	10	39	50	60	70	80	103	118	30	60	99	13	140
24	46	0	0	4	19	46	70	73	96	115	1	46	83	19	131
25	3	0	0	0	0	3	14	23	44	57	0	3	34	0	85
26	22	0	0	0	5	22	30	36	48	70	0	22	43	0	85
27	0	0	0	0	0	0	0	1	10	15	0	0	5	0	17
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MOISSALA

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	0	0	0	0	0	0	0	0	1	7	0	0	0	0	11
9	0	0	0	0	0	0	0	3	7	16	0	0	4	1	30
10	5	0	0	0	0	3	7	14	22	48	0	5	15	0	52
11	2	0	0	0	0	2	4	9	17	37	0	2	11	0	53
12	18	0	4	5	13	14	25	37	53	70	6	18	44	0	79
13	8	0	0	3	5	8	19	24	34	62	0	8	24	1	89
14	18	0	0	0	9	18	29	35	42	66	0	18	39	13	76
15	20	0	10	15	17	20	30	40	53	78	10	20	47	20	107
16	37	16	14	26	31	37	47	56	60	83	21	37	58	4	86
17	47	28	31	35	41	47	59	62	79	87	36	47	63	12	93
18	56	11	33	39	47	56	60	70	105	120	37	56	79	19	121
19	54	19	33	41	46	54	66	76	90	106	37	54	80	16	121
20	75	36	60	57	61	75	81	88	117	141	47	75	94	38	163
21	67	27	55	75	70	67	110	130	134	141	68	97	131	66	143
22	85	18	31	64	69	85	104	132	140	184	34	85	136	48	202
23	82	35	54	55	77	82	84	104	140	147	62	82	110	36	150
24	79	33	50	61	67	79	94	113	130	151	53	79	118	45	158
25	86	33	55	66	69	86	77	97	115	167	41	64	101	13	173
26	56	13	24	44	51	56	65	93	120	146	29	56	106	35	157
27	69	12	24	42	52	69	65	75	92	133	35	60	83	22	153
28	33	5	4	16	26	33	38	51	62	72	10	33	56	22	83
29	22	3	4	13	17	22	28	33	41	46	10	22	36	9	52
30	18	0	0	0	6	18	20	24	34	52	0	18	26	9	66
31	0	0	0	0	0	0	0	1	11	19	0	0	3	0	25
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION POTELLE EN MM EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	0	0	0	0	0	0	0	0	1	7	0	0	0	0	11
9	0	0	0	0	0	0	0	3	8	16	0	0	4	1	28
10	6	0	0	0	0	6	9	15	22	32	0	6	15	0	32
11	4	0	0	0	2	4	11	16	27	31	0	4	18	0	31
12	21	0	6	8	14	21	30	31	31	31	6	21	31	0	31
13	24	1	3	7	18	24	30	30	30	30	3	24	30	1	30
14	30	0	0	7	26	30	30	30	30	30	1	30	30	15	30
15	30	10	16	20	29	30	30	30	30	30	18	30	30	15	30
16	31	16	14	31	31	31	31	31	31	31	25	31	31	16	31
17	34	24	34	34	34	34	34	34	34	34	34	34	34	27	34
18	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
19	41	37	41	41	41	41	41	41	41	41	41	41	41	38	41
20	40	30	40	40	40	40	40	40	40	40	40	40	40	36	40
21	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43
22	39	37	38	39	39	39	39	39	39	39	38	39	39	38	39
23	39	36	39	39	39	39	39	39	39	39	39	39	39	38	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	39	36	38	39	39	39	39	39	39	39	39	39	39	37	39
26	39	37	38	39	39	39	39	39	39	39	38	39	39	37	39
27	41	36	41	41	41	41	41	41	41	41	41	41	41	36	41
28	44	36	40	41	42	44	44	44	44	44	41	44	44	35	44
29	44	25	35	39	43	44	44	44	44	44	36	44	44	31	44
30	37	14	23	29	32	37	40	43	43	43	26	37	43	22	43
31	19	2	3	12	17	19	23	29	34	34	9	19	31	16	34
32	4	0	0	0	2	4	8	15	25	27	0	4	18	8	28
33	0	0	0	0	0	0	0	3	11	12	0	0	5	0	13
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETP-ETR EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
4	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
6	25	21	25	25	25	25	25	25	25	25	25	25	25	15	25
7	30	30	30	30	30	30	30	30	30	30	30	30	30	7	30
8	32	21	30	32	32	32	32	32	32	32	30	32	32	15	32
9	35	6	25	31	33	35	35	35	35	35	26	35	35	15	35
10	25	0	9	17	22	25	32	32	32	32	15	25	32	0	32
11	27	0	0	13	19	27	28	30	31	31	4	27	31	7	31
12	9	0	0	0	0	9	13	21	24	31	0	9	23	12	31
13	5	0	0	0	0	5	12	22	26	27	0	5	24	0	29
14	0	0	0	0	0	0	1	13	28	30	0	0	21	0	30
15	0	0	0	0	0	0	0	7	12	19	0	0	9	0	19
16	0	0	0	0	0	0	0	0	5	16	0	0	0	0	20
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
26	1	1	1	1	1	1	1	1	2	2	1	1	1	1	3
27	2	2	2	2	2	2	2	2	2	4	2	2	2	2	6
28	3	2	3	3	3	3	3	4	5	6	2	2	4	2	12
29	0	0	0	0	0	0	0	4	7	12	0	0	4	0	19
30	4	0	0	0	1	4	8	13	17	23	0	4	14	0	28
31	13	0	0	3	8	13	15	20	24	29	0	13	21	0	32
32	24	0	3	16	19	24	26	29	29	29	4	24	29	6	29
33	25	10	13	18	25	25	25	25	25	25	13	25	25	15	25
34	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
35	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
36	27	27	27	27	27	27	27	27	27	27	27	27	27	21	27

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 30 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
16	0	0	0	0	0	0	0	0	0	14	0	0	0	0	28
17	0	0	0	0	0	0	0	2	7	11	0	0	4	0	15
18	0	0	0	0	0	0	5	13	33	63	0	0	19	0	72
19	6	0	0	0	0	6	17	25	38	52	0	6	27	0	62
20	22	0	0	1	15	22	30	44	59	88	0	22	46	11	99
21	50	0	29	32	34	50	60	68	86	95	24	50	75	38	99
22	41	0	0	0	20	41	60	68	96	133	0	41	92	19	151
23	40	0	5	26	32	40	44	58	99	102	13	40	64	4	105
24	38	0	7	20	25	38	55	70	90	112	10	38	79	13	119
25	20	0	0	1	6	20	34	48	72	124	0	20	54	0	130
26	16	0	0	1	10	16	26	45	74	106	0	16	54	5	118
27	17	0	0	0	9	17	26	29	52	94	0	17	37	0	113
28	0	0	0	0	0	0	0	6	20	28	0	0	14	0	41
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MOUNDOU

VARIABLE : PLUIE EN MM EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
8	0	0	0	0	0	0	0	0	2	9	0	0	1	0	18
9	1	0	0	0	0	1	3	5	8	10	0	1	7	0	13
10	3	0	0	0	0	2	5	13	17	26	0	2	15	0	56
11	8	0	0	1	1	6	7	17	20	30	42	0	7	28	0	66
12	13	0	1	6	9	13	19	26	44	53	3	13	36	0	59
13	27	2	5	13	20	26	34	45	57	63	7	26	51	2	75
14	17	0	6	9	12	16	28	31	42	62	7	16	39	3	82
15	28	7	11	17	19	28	34	44	65	93	12	28	49	34	112
16	39	3	17	21	32	38	52	55	61	78	19	38	58	23	89
17	43	8	14	24	34	42	49	57	71	77	20	42	64	16	118
18	61	11	23	34	47	55	65	76	95	108	29	55	86	56	112
19	56	7	26	37	43	56	65	78	105	129	30	56	93	63	149
20	62	18	34	44	57	61	76	92	114	124	37	61	105	18	159
21	86	34	48	59	67	84	95	102	120	171	53	84	112	36	193
22	96	23	44	56	78	90	108	121	146	161	46	90	131	91	198
23	87	30	57	73	85	87	97	108	144	181	68	87	115	61	186
24	89	31	57	68	81	84	119	125	149	167	61	88	128	67	179
25	78	24	48	55	65	68	90	94	100	124	52	68	98	47	135
26	82	34	53	65	72	81	91	102	111	125	59	81	108	37	155
27	54	19	32	37	42	52	72	79	102	109	34	52	84	12	151
28	30	2	10	15	22	28	41	49	59	77	11	28	62	14	92
29	18	0	1	5	10	18	22	25	36	48	2	18	34	3	79
30	8	0	0	0	4	8	11	15	22	35	0	8	17	0	39
31	0	0	0	0	0	0	0	0	1	5	0	0	0	1	7
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
8	0	0	0	0	0	0	0	0	2	9	0	0	1	0	18
9	1	0	0	0	0	1	3	5	8	10	0	1	7	0	13
10	3	0	0	0	0	2	5	13	17	26	0	2	15	0	30
11	10	0	0	1	5	9	18	26	30	30	0	9	30	0	30
12	19	0	3	8	11	17	28	30	30	30	5	17	30	0	30
13	30	6	17	26	28	30	30	30	30	30	18	30	30	3	30
14	29	7	11	15	20	24	29	29	29	29	12	29	29	5	29
15	36	13	32	36	36	36	36	36	36	36	33	36	36	22	36
16	36	13	24	36	36	36	36	36	36	36	28	36	36	18	36
17	39	35	39	39	39	39	39	39	39	39	39	39	39	35	39
18	44	26	39	43	44	44	44	44	44	44	40	44	44	25	44
19	42	22	33	41	42	42	42	42	42	42	40	42	42	26	42
20	41	35	40	40	41	41	41	41	41	41	40	41	41	31	41
21	43	42	43	43	43	43	43	43	43	43	43	43	43	38	43
22	40	34	40	40	40	40	40	40	40	40	40	40	40	38	40
23	39	34	39	39	39	39	39	39	39	39	39	39	39	38	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	38	37	38	38	38	38	38	38	38	38	38	38	38	37	38
26	38	38	38	38	38	38	38	38	38	38	38	38	38	37	38
27	41	40	40	40	41	41	41	41	41	41	40	41	41	39	41
28	43	40	42	42	42	43	44	44	44	44	42	43	44	41	44
29	41	32	36	38	40	41	44	44	44	44	35	41	44	33	44
30	33	14	22	25	28	33	37	39	43	44	22	33	41	17	44
31	18	1	7	10	14	17	18	20	23	24	8	17	20	5	29
32	3	0	0	0	0	2	3	5	7	9	0	2	6	0	21
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
4	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
5	27	27	27	27	27	27	27	27	27	27	27	27	27	23	27
6	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26
7	30	26	30	30	30	30	30	30	30	30	30	30	30	22	30
8	32	13	28	31	32	32	32	32	32	32	29	32	32	17	32
9	33	20	25	27	30	33	35	35	35	35	25	33	35	25	35
10	26	0	11	14	23	26	30	30	30	30	13	26	30	14	30
11	20	0	0	1	12	18	23	27	30	30	0	18	29	0	30
12	10	0	0	0	1	10	18	21	26	30	0	10	23	0	30
13	0	0	0	0	0	0	1	6	12	22	0	0	9	0	25
14	0	0	0	0	0	0	0	11	18	20	0	0	14	0	21
15	0	0	0	0	0	0	0	0	2	15	0	0	0	0	23
16	0	0	0	0	0	0	0	0	7	14	0	0	0	0	22
17	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
18	2	2	2	2	2	2	2	2	5	16	2	2	3	2	25
19	2	2	2	2	2	2	2	2	3	8	2	2	2	2	22
20	1	1	1	1	1	1	1	2	2	3	1	1	2	1	6
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
22	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	2	2	1	1	2	1	2
28	3	2	2	2	2	2	3	4	4	5	2	2	4	2	6
29	3	0	0	0	0	2	3	5	8	10	0	2	6	0	12
30	9	0	0	2	6	8	13	16	21	25	0	8	20	8	29
31	18	6	13	14	16	18	20	23	28	30	13	18	26	11	33
32	28	9	23	24	27	28	29	31	31	31	24	28	31	16	31
33	26	17	26	26	26	26	26	26	26	26	26	26	26	19	26
34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 35 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	30
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
18	0	0	0	0	0	0	0	10	20	46	0	0	15	29	70
19	0	0	0	0	0	0	0	6	37	69	0	0	10	41	100
20	9	0	0	0	0	4	20	44	57	73	0	4	48	0	80
21	23	0	0	0	4	20	41	57	75	129	0	20	65	0	151
22	35	0	0	2	12	35	59	77	95	117	0	35	84	60	154
23	45	0	8	29	43	45	53	68	107	140	13	45	74	28	145
24	50	0	13	27	42	49	72	85	109	120	22	49	89	33	140
25	27	0	5	12	19	25	44	51	56	81	9	25	53	20	92
26	41	0	15	25	29	39	46	61	71	86	19	39	67	8	116
27	16	0	0	0	1	13	31	40	63	70	0	13	46	0	112
28	0	0	0	0	0	0	0	4	28	30	0	0	18	0	45
29	0	0	0	0	0	0	0	0	0	5	0	0	0	0	20
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

N'DJAMENA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	1	5	0	0	0	0	10
12	0	0	0	0	0	0	1	2	6	12	0	0	3	0	27
13	0	0	0	0	0	0	1	3	9	14	0	0	5	0	22
14	2	0	0	0	0	2	4	5	15	24	0	2	11	0	30
15	4	0	1	3	5	9	16	19	29	41	2	9	24	0	45
16	10	0	3	3	6	10	19	25	29	40	3	10	27	0	48
17	14	0	2	6	9	14	18	24	36	41	3	14	29	0	53
18	16	6	7	9	12	16	25	32	35	41	8	16	33	0	57
19	29	8	14	14	20	29	33	37	51	67	16	29	42	5	90
20	41	11	17	23	28	41	52	59	71	88	21	41	65	6	95
21	62	21	32	46	56	62	68	83	89	103	40	62	87	10	138
22	75	23	41	46	58	75	79	93	116	130	44	75	105	16	149
23	89	23	34	46	56	89	80	97	127	140	40	69	105	12	152
24	84	10	26	43	56	88	75	97	114	124	29	68	108	5	142
25	35	8	20	23	29	35	44	57	67	80	22	35	65	1	96
26	31	6	12	19	24	31	36	46	54	66	15	31	51	2	85
27	15	0	3	5	7	15	21	26	36	45	4	15	33	0	48
28	2	0	0	0	0	2	3	19	27	31	0	2	25	0	36
29	0	0	0	0	0	0	2	6	8	11	0	0	8	0	17
30	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	1	5	0	0	0	0	10
12	0	0	0	0	0	0	1	2	6	12	0	0	3	0	27
13	0	0	0	0	0	0	1	4	11	14	0	0	7	0	22
14	2	0	0	0	0	2	4	5	15	24	0	2	11	0	31
15	9	0	0	3	5	9	16	19	29	41	2	9	24	0	42
16	10	1	2	3	5	10	21	27	31	36	3	10	28	0	36
17	18	0	3	7	12	18	23	29	35	35	6	18	34	0	35
18	21	5	8	12	15	21	32	32	32	32	10	21	32	0	32
19	30	6	17	20	28	30	30	30	30	30	18	30	30	6	30
20	35	12	22	30	35	35	35	35	35	35	25	35	35	4	35
21	42	36	42	42	42	42	42	42	42	42	42	42	42	15	42
22	40	39	40	40	40	40	40	40	40	40	40	40	40	30	40
23	44	42	44	44	44	44	44	44	44	44	44	44	44	39	44
24	50	38	47	50	50	50	50	50	50	50	49	50	50	29	50
25	44	29	34	39	42	44	46	47	47	47	36	44	47	15	47
26	43	14	21	30	35	43	46	47	49	49	26	43	48	9	49
27	28	7	11	14	23	28	33	37	42	49	14	28	40	3	50
28	6	6	0	0	2	6	19	27	30	36	0	6	28	0	39
29	0	0	0	0	0	0	2	6	9	11	0	0	8	0	21
30	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
5	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
6	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
8	39	39	39	39	39	39	39	39	39	39	39	39	39	36	39
9	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43
10	40	37	40	40	40	40	40	40	40	40	40	40	40	31	40
11	40	24	37	39	40	40	40	40	40	40	38	40	40	12	40
12	40	20	31	36	38	40	40	40	40	40	35	40	40	3	40
13	39	18	27	33	37	39	40	40	40	40	29	39	40	10	40
14	38	9	19	29	35	38	39	40	40	40	24	38	40	1	40
15	33	0	7	19	24	33	35	38	40	42	14	33	38	0	42
16	23	0	0	8	12	23	29	31	33	34	5	23	32	0	34
17	14	0	0	0	8	14	21	24	28	32	0	14	27	0	35
18	10	0	0	0	0	10	14	17	22	25	0	10	19	0	28
19	0	0	0	0	0	0	0	7	12	19	0	0	11	0	23
20	0	0	0	0	0	0	0	0	9	16	0	0	3	0	22
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
24	3	3	3	3	3	3	3	3	4	13	3	3	3	3	16
25	4	2	2	2	2	4	7	8	13	17	2	4	9	2	19
26	7	2	2	2	4	7	13	18	24	33	2	7	20	2	37
27	19	0	4	4	15	19	25	29	35	41	7	19	31	0	43
28	40	7	18	18	27	40	44	46	47	47	16	40	47	0	47
29	44	22	33	38	39	44	44	44	44	44	34	44	44	13	44
30	41	31	38	41	41	41	41	41	41	41	41	41	41	15	41
31	31	30	31	31	31	31	31	31	31	31	31	31	31	22	31
32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
34	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
35	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
20	0	0	0	0	0	0	0	2	14	29	0	0	9	0	37
21	3	0	0	0	0	3	17	32	50	62	0	3	42	0	84
22	16	0	0	0	5	16	32	45	60	88	0	16	53	0	107
23	20	0	0	0	10	20	29	53	80	99	0	20	61	0	109
24	15	0	0	0	3	15	31	52	69	80	0	15	63	0	94
25	0	0	0	0	0	0	0	0	16	28	0	0	11	0	45
26	0	0	0	0	0	0	0	0	3	16	0	0	0	0	18
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PALA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 28 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	8	0	0	0	0	11
9	0	0	0	0	0	0	0	1	3	9	0	0	2	0	13
10	4	0	0	0	1	4	7	10	21	27	0	4	19	0	32
11	5	0	0	1	3	6	10	15	27	33	0	6	22	3	37
12	17	0	0	4	10	17	19	21	30	39	2	17	26	0	40
13	31	1	12	17	23	31	32	38	47	64	16	31	39	0	66
14	21	1	5	11	15	21	22	27	37	45	8	21	33	7	49
15	34	1	7	21	27	34	45	57	66	78	15	34	63	9	88
16	38	4	16	19	28	38	40	44	68	80	17	38	63	14	99
17	49	10	20	32	42	49	50	58	70	81	28	49	67	39	90
18	60	20	25	26	35	60	61	79	87	103	27	60	83	28	111
19	52	8	22	39	46	52	62	71	87	116	31	52	84	8	146
20	66	11	17	32	52	66	68	85	92	127	23	66	91	31	133
21	91	17	56	75	84	91	103	108	132	156	70	91	115	54	173
22	67	18	37	54	60	67	70	81	98	129	51	67	91	5	151
23	74	24	36	58	63	74	81	92	112	134	42	74	105	24	138
24	96	47	64	72	87	96	104	124	136	170	69	96	128	54	178
25	79	8	38	60	65	79	82	96	114	133	51	79	106	45	136
26	54	21	34	40	47	54	56	66	80	97	37	54	69	26	103
27	36	3	14	26	31	36	46	54	77	89	25	36	75	16	100
28	20	0	4	11	19	20	26	39	45	73	6	20	42	16	81
29	19	0	0	1	5	19	24	29	44	57	0	19	35	1	70
30	1	0	0	0	0	1	3	8	13	18	0	1	12	0	20
31	0	0	0	0	0	0	0	0	1	8	0	0	0	0	15
32	0	0	0	0	0	0	0	0	0	6	0	0	0	0	11
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 28 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	8	0	0	0	0	12
9	0	0	0	0	0	0	0	1	3	9	0	0	2	0	13
10	6	0	0	0	1	6	7	12	21	27	0	6	19	0	29
11	8	0	0	2	3	8	12	17	27	31	1	8	27	3	31
12	18	0	0	5	12	18	20	23	30	30	3	18	30	2	30
13	30	2	12	14	28	30	30	30	30	30	16	30	30	1	30
14	30	2	4	16	21	30	30	30	30	30	12	30	30	7	30
15	30	6	15	23	30	30	30	30	30	30	21	30	30	10	30
16	31	15	23	30	31	31	31	31	31	31	28	31	31	22	31
17	33	23	33	33	33	33	33	33	33	33	33	33	33	26	33
18	36	29	36	36	36	36	36	36	36	36	36	36	36	29	36
19	42	38	42	42	42	42	42	42	42	42	42	42	42	38	42
20	41	35	38	39	41	41	41	41	41	41	39	41	41	37	41
21	43	41	43	43	43	43	43	43	43	43	43	43	43	42	43
22	39	37	39	39	39	39	39	39	39	39	39	39	39	36	39
23	38	36	37	38	38	38	38	38	38	38	38	38	38	35	38
24	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41
25	37	35	37	37	37	37	37	37	37	37	37	37	37	35	37
26	37	34	37	37	37	37	37	37	37	37	37	37	37	35	37
27	40	31	39	40	40	40	41	41	41	41	40	40	41	32	41
28	43	20	39	41	42	43	43	44	44	44	41	43	44	26	44
29	39	22	29	34	36	39	40	45	45	45	33	39	45	28	45
30	22	4	13	17	20	22	26	39	44	44	16	22	42	14	44
31	7	0	1	4	5	7	16	20	24	29	3	7	24	3	30
32	0	0	0	0	0	0	1	7	12	15	0	0	10	0	17
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 28 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
7	28	27	28	28	28	28	28	28	28	28	28	28	28	27	28
8	30	13	25	29	30	30	30	30	30	30	29	30	30	20	30
9	34	10	26	31	33	34	34	34	34	34	30	34	34	17	34
10	24	1	4	14	22	24	27	29	30	30	10	24	30	0	30
11	22	0	1	6	17	22	24	27	30	31	4	22	28	0	31
12	11	0	0	3	9	11	13	24	26	30	0	11	25	0	30
13	0	0	0	0	0	0	0	3	13	22	0	0	9	7	25
14	0	0	0	0	0	0	2	9	18	23	0	0	14	7	26
15	0	0	0	0	0	0	0	2	9	16	0	0	8	0	20
16	0	0	0	0	0	0	0	0	2	8	0	0	0	0	11
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3
20	1	1	1	1	1	1	1	1	3	4	1	1	2	1	4
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	2	1	1	1	1	3
23	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
27	1	1	1	1	1	1	2	2	2	3	1	1	2	1	3
28	3	2	2	2	2	3	3	4	5	9	2	3	5	2	13
29	5	0	0	0	2	5	6	10	12	16	0	5	11	0	16
30	21	0	0	3	11	21	22	25	28	32	1	21	26	0	32
31	27	2	8	12	18	27	28	30	32	35	11	27	31	5	36
32	31	8	17	19	28	31	31	31	31	31	18	31	31	13	31
33	25	19	25	25	25	25	25	25	25	25	25	25	25	20	25
34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 28 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
16	0	0	0	0	0	0	0	0	0	12	0	0	0	0	30
17	0	0	0	0	0	0	0	0	4	16	0	0	0	0	23
18	0	0	0	0	0	0	0	18	27	48	0	0	25	0	51
19	0	0	0	0	0	0	6	10	29	67	0	0	24	0	97
20	10	0	0	0	0	10	19	23	37	65	0	10	27	5	77
21	35	0	0	23	30	35	40	62	66	109	14	35	65	27	126
22	20	0	0	5	13	20	25	37	51	79	2	20	46	0	107
23	33	0	0	11	23	33	41	53	70	94	3	33	64	0	98
24	56	8	22	29	39	56	66	86	96	132	25	56	90	4	140
25	37	0	0	18	23	37	40	54	72	88	9	37	64	24	91
26	13	0	0	0	10	13	16	27	43	59	0	13	32	0	65
27	0	0	0	0	0	0	3	18	34	51	0	0	28	0	62
28	0	0	0	0	0	0	0	0	0	25	0	0	0	0	36
29	0	0	0	0	0	0	0	0	0	6	0	0	0	0	12
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SARH

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	0	0	0	0	0	0	0	0	2	10	0	0	2	0	31
9	0	0	0	0	0	0	0	1	6	20	0	0	3	0	27
10	1	0	0	0	0	1	3	8	14	32	0	1	11	0	35
11	4	0	0	0	0	2	10	15	36	43	0	2	34	0	57
12	16	0	0	2	10	15	17	23	43	58	0	15	37	3	63
13	15	0	0	2	6	13	18	33	37	55	0	13	36	3	108
14	19	3	7	12	14	19	23	25	29	58	10	19	28	24	95
15	37	1	3	12	24	35	41	47	55	68	4	35	49	7	92
16	41	16	23	26	32	40	43	59	72	76	24	40	70	17	97
17	41	4	17	27	32	40	46	60	72	85	22	40	69	1	94
18	40	11	20	32	37	40	44	53	66	80	23	40	61	23	108
19	61	16	29	38	51	58	68	72	81	115	32	58	77	21	160
20	75	17	35	44	57	68	81	99	115	132	36	68	108	15	174
21	89	28	41	58	67	87	95	105	114	116	50	87	113	21	147
22	91	34	55	60	71	85	108	109	119	137	56	85	113	55	151
23	105	38	54	68	91	103	109	113	127	142	57	103	120	53	159
24	89	42	61	70	81	86	96	103	123	129	64	86	114	49	152
25	66	22	34	47	53	66	77	86	91	101	37	66	90	31	104
26	82	18	27	43	65	81	90	99	113	125	31	81	108	18	132
27	63	18	36	42	47	63	69	75	87	94	37	63	82	28	118
28	31	3	11	22	27	30	35	46	55	70	17	30	50	18	93
29	15	0	3	5	7	13	17	19	24	49	4	13	21	6	59
30	8	0	0	1	2	7	11	14	20	34	0	7	18	0	53
31	0	0	0	0	0	0	0	0	0	6	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	0	0	0	0	0	0	0	0	2	10	0	0	2	0	30
9	0	0	0	0	0	0	0	1	6	23	0	0	3	0	34
10	1	0	0	0	0	1	4	9	16	32	0	1	14	0	32
11	5	0	0	0	0	4	10	15	32	32	0	4	32	0	32
12	18	0	2	10	14	17	22	29	31	31	4	17	31	3	31
13	30	1	3	9	22	30	30	30	30	30	4	30	30	3	30
14	23	4	11	13	19	23	26	30	30	30	12	23	30	15	30
15	31	2	9	22	30	31	31	31	31	31	13	31	31	16	31
16	31	20	26	31	31	31	31	31	31	31	26	31	31	20	31
17	34	20	34	34	34	34	34	34	34	34	34	34	34	23	34
18	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
19	41	40	41	41	41	41	41	41	41	41	41	41	41	40	41
20	40	38	39	40	40	40	40	40	40	40	39	40	40	38	40
21	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43
22	39	38	39	39	39	39	39	39	39	39	39	39	39	38	39
23	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	41	42
25	40	38	39	40	40	40	40	40	40	40	39	40	40	39	40
26	40	38	39	39	40	40	40	40	40	40	39	40	40	37	40
27	42	41	42	42	42	42	42	42	42	42	42	42	42	41	42
28	44	40	42	43	44	44	44	45	45	45	42	44	45	41	45
29	42	30	34	37	40	42	43	44	44	44	35	42	44	33	44
30	32	16	19	22	30	32	33	35	38	43	20	32	37	19	43
31	16	3	5	12	15	16	16	18	24	33	8	16	20	6	34
32	1	0	0	0	0	1	1	3	11	17	0	1	8	0	24
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETP EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
4	26	26	26	26	26	26	26	26	26	26	26	26	26	24	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26
6	26	20	26	26	26	26	26	26	26	26	26	26	26	17	26
7	30	23	30	30	30	30	30	30	30	30	30	30	30	15	30
8	32	2	26	30	32	32	32	32	32	32	29	32	32	15	32
9	36	1	14	32	35	36	36	36	36	36	21	36	36	18	36
10	30	0	7	19	24	29	31	32	32	32	14	29	32	8	32
11	27	0	0	7	19	25	29	32	32	32	0	25	32	0	32
12	13	0	0	0	5	11	14	19	26	30	0	11	23	6	31
13	0	0	0	0	0	0	3	18	24	28	0	0	23	0	29
14	5	0	0	0	0	4	7	12	16	20	0	4	15	0	26
15	0	0	0	0	0	0	0	3	12	23	0	0	8	0	28
16	0	0	0	0	0	0	0	0	2	5	0	0	0	0	10
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
20	1	1	1	1	1	1	1	1	2	3	1	1	1	1	3
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
26	1	1	1	1	1	1	1	1	2	2	1	1	2	1	3
27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
28	3	2	2	2	2	3	3	3	4	5	2	3	3	2	7
29	2	0	0	0	0	2	2	5	7	11	0	2	7	0	13
30	10	0	0	6	9	10	11	16	22	25	2	10	20	6	27
31	17	0	3	13	16	17	18	19	23	28	5	17	22	10	29
32	27	4	14	20	26	27	28	29	29	29	16	27	29	14	29
33	24	15	23	24	24	24	24	24	24	24	24	24	24	17	24
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
36	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 31 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	2	0	0	0	0	12
16	0	0	0	0	0	0	0	0	0	17	0	0	0	0	41
17	0	0	0	0	0	0	0	0	4	16	0	0	0	0	37
18	0	0	0	0	0	0	0	2	6	27	0	0	6	0	48
19	0	0	0	0	0	0	0	14	17	29	0	0	16	0	106
20	12	0	0	0	0	7	37	43	57	76	0	7	52	0	105
21	31	0	0	5	23	30	39	50	73	75	0	30	62	0	79
22	47	0	7	15	23	41	52	64	66	88	11	41	65	18	107
23	62	0	15	29	49	62	67	74	88	103	18	62	81	20	115
24	50	3	22	31	41	47	56	63	81	88	24	47	74	22	112
25	23	0	0	1	10	23	34	43	48	58	0	23	47	1	61
26	40	0	0	0	21	36	45	51	72	85	0	36	67	0	92
27	12	0	0	0	3	12	26	32	41	52	0	12	37	0	67
28	0	0	0	0	0	0	0	0	6	27	0	0	4	0	50
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 11 TOGO - Analyse fréquentielle des principaux termes du bilan hydrique.

TOGO - Frequential analysis of main waterbalance parameters.

Stations pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Anié Mano

Atakpamé

Sansanne-Mango

Sokodé

ANTE MANO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	5	20	26	0	0	18	0	28
4	0	0	0	0	0	0	0	0	1	8	0	0	0	0	16
5	0	0	0	0	0	0	0	3	17	26	0	0	9	0	30
6	4	0	0	0	2	4	5	9	17	28	0	4	11	0	39
7	18	0	1	4	5	18	24	28	44	68	3	18	32	12	102
8	17	0	2	8	10	17	20	24	32	44	4	17	29	0	57
9	26	0	0	4	9	26	32	40	53	71	1	26	49	3	84
10	35	0	1	8	13	35	36	41	54	66	4	35	49	7	73
11	34	0	8	18	21	34	41	54	74	95	15	34	59	0	104
12	29	2	7	17	23	29	38	45	58	70	16	29	51	11	73
13	28	0	5	12	24	28	33	37	46	55	8	28	41	24	62
14	28	10	13	16	18	28	33	39	61	75	15	28	55	14	89
15	58	4	10	35	40	58	66	73	86	98	31	58	78	20	105
16	47	4	19	38	41	47	52	64	94	107	37	47	82	5	120
17	67	17	25	41	50	67	75	79	90	96	38	67	87	32	102
18	58	5	31	39	48	58	65	73	79	87	36	58	76	12	95
19	36	4	14	18	23	36	52	59	85	96	17	36	81	21	100
20	55	6	14	25	37	55	77	97	120	129	22	55	110	28	135
21	58	0	12	26	54	58	64	66	79	109	15	58	74	8	113
22	38	0	7	16	27	38	47	55	82	113	14	38	70	31	127
23	39	1	13	22	31	39	50	53	62	70	20	39	59	8	83
24	35	5	12	19	27	35	44	51	66	75	16	35	62	35	84
25	47	14	19	33	37	47	59	81	99	111	30	47	97	40	128
26	44	16	25	36	39	44	55	62	78	97	32	44	73	15	127
27	49	6	22	32	38	49	53	75	103	111	30	49	91	14	112
28	48	5	14	21	29	48	50	56	66	80	16	48	64	15	101
29	31	1	6	18	24	31	44	51	52	71	10	31	51	12	76
30	12	0	0	2	4	12	19	40	53	76	1	12	51	1	107
31	1	0	0	0	0	1	3	3	22	45	0	1	6	0	49
32	0	0	0	0	0	0	2	5	17	32	0	0	14	0	44
33	0	0	0	0	0	0	0	0	7	13	0	0	6	0	16
34	0	0	0	0	0	0	0	4	22	32	0	0	14	0	49
35	0	0	0	0	0	0	0	0	1	2	0	0	1	0	4
36	0	0	0	0	0	0	0	0	7	17	0	0	1	0	18

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	5	20	26	0	0	18	0	28
4	0	0	0	0	0	0	0	0	3	12	0	0	1	0	17
5	0	0	0	0	0	0	1	6	18	26	0	0	11	0	29
6	4	0	0	1	2	4	8	11	17	24	0	4	11	0	26
7	22	0	1	4	10	22	26	30	30	30	3	22	30	12	30
8	23	3	8	12	17	23	29	30	30	30	11	23	30	1	30
9	32	0	2	13	26	32	32	32	32	32	7	32	32	3	32
10	28	0	2	17	28	28	28	28	28	28	12	28	28	14	28
11	27	15	23	27	27	27	27	27	27	27	27	27	27	8	27
12	26	12	26	26	26	26	26	26	26	26	26	26	26	11	26
13	31	22	31	31	31	31	31	31	31	31	31	31	31	26	31
14	35	11	23	35	35	35	35	35	35	35	35	35	35	22	35
15	42	30	40	42	42	42	42	42	42	42	42	42	42	33	42
16	41	35	37	41	41	41	41	41	41	41	40	41	41	36	41
17	39	30	33	39	39	39	39	39	39	39	38	39	39	34	39
18	37	30	35	37	37	37	37	37	37	37	37	37	37	33	37
19	34	31	33	33	34	34	35	35	35	35	33	34	35	32	35
20	33	27	31	32	32	33	33	33	33	33	31	33	33	29	33
21	35	18	33	34	35	35	35	35	35	35	34	35	35	24	35
22	31	16	29	30	30	31	31	31	31	31	30	31	31	20	31
23	30	13	29	29	29	30	30	30	30	30	29	30	30	15	30
24	33	19	32	32	33	33	34	34	34	34	32	33	34	20	34
25	33	28	30	32	32	33	33	33	33	33	32	33	33	30	33
26	35	32	33	34	34	35	35	35	35	35	33	35	35	33	35
27	37	35	36	37	37	37	37	37	37	37	36	37	37	35	37
28	39	35	37	38	39	39	40	40	40	40	38	39	40	36	40
29	42	33	35	39	41	42	42	42	42	42	38	42	42	35	42
30	43	18	23	34	40	43	45	46	46	46	28	43	46	26	46
31	29	3	7	18	25	29	35	39	39	39	13	29	39	10	39
32	20	0	0	7	12	20	24	29	36	36	5	20	35	4	36
33	8	0	0	0	1	8	9	17	25	29	0	8	21	0	31
34	4	0	0	0	0	4	11	16	24	26	0	4	21	0	26
35	0	0	0	0	0	0	1	4	14	26	0	0	7	0	27
36	0	0	0	0	0	0	2	9	12	14	0	0	11	0	16

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	27	19	26	27	27	27	27	27	27	27	27	27	22	27	
2	28	19	28	28	28	28	28	28	28	28	28	28	21	28	
3	31	1	5	12	26	31	31	31	31	31	10	31	31	15	31
4	28	4	15	26	28	28	28	28	28	28	25	28	28	14	28
5	29	0	2	18	25	29	29	29	29	29	11	29	29	8	29
6	21	0	1	14	15	21	22	25	25	26	9	21	25	8	26
7	5	0	0	0	0	5	11	19	25	28	0	5	25	0	30
8	3	0	0	0	0	3	9	12	19	22	0	3	18	13	25
9	0	0	0	0	0	0	4	10	25	30	0	0	24	0	31
10	0	0	0	0	0	0	0	0	15	25	0	0	10	0	26
11	0	0	0	0	0	0	0	0	0	6	0	0	0	0	12
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	12	0	0	0	0	20
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
16	2	2	2	2	2	2	2	2	4	5	2	2	3	2	6
17	1	1	1	1	1	1	1	1	2	6	1	1	1	1	8
18	1	1	1	1	1	1	1	1	1	3	1	1	1	1	5
19	1	0	0	0	0	1	1	1	2	2	0	1	1	0	2
20	0	0	0	0	0	0	0	1	1	2	0	0	1	0	3
21	0	0	0	0	0	0	0	1	1	2	0	0	1	0	8
22	0	0	0	0	0	0	0	1	1	2	0	0	1	0	5
23	0	0	0	0	0	0	0	1	1	1	0	0	1	0	2
24	0	0	0	0	0	0	1	1	2	2	0	0	2	0	2
25	0	0	0	0	0	0	0	1	1	3	0	0	1	0	3
26	0	0	0	0	0	0	1	1	1	2	0	0	1	0	2
27	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
28	1	1	1	1	1	1	2	2	3	4	1	1	3	1	4
29	2	2	2	2	2	2	2	4	6	9	2	2	5	2	10
30	0	0	0	0	0	0	3	5	16	22	0	0	13	3	23
31	8	0	0	0	0	8	12	15	26	32	0	8	22	7	33
32	11	0	0	1	5	11	23	25	30	36	0	11	28	10	36
33	22	0	1	10	13	22	23	30	31	31	6	22	31	14	31
34	17	0	0	5	9	17	24	26	26	26	2	17	26	13	26
35	26	0	0	19	22	26	27	27	27	27	12	26	27	13	27
36	30	11	15	18	20	30	30	30	30	30	17	30	30	19	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 24 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11	0	0	0	0	0	0	0	0	0	7	0	0	0	28	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
13	0	0	0	0	0	0	0	0	1	9	0	0	0	17	
14	0	0	0	0	0	0	0	0	3	19	0	0	1	0	33
15	0	0	0	0	0	0	0	5	32	43	0	0	19	0	61
16	0	0	0	0	0	0	0	0	31	51	0	0	16	0	59
17	4	0	0	0	0	4	9	22	34	54	0	4	27	0	59
18	7	0	0	0	0	7	15	18	28	38	0	7	22	0	50
19	0	0	0	0	0	0	0	10	32	51	0	0	21	0	60
20	2	0	0	0	0	2	36	53	72	88	0	2	67	5	94
21	16	0	0	0	0	16	22	24	42	75	0	16	33	0	80
22	0	0	0	0	0	0	6	19	38	78	0	0	26	14	84
23	0	0	0	0	0	0	6	14	21	34	0	0	19	0	48
24	0	0	0	0	0	0	4	11	21	35	0	0	14	10	44
25	6	0	0	0	0	6	25	31	62	75	0	6	53	16	85
26	3	0	0	0	0	3	11	19	31	60	0	3	29	0	94
27	11	0	0	0	0	11	16	24	42	64	0	11	38	0	76
28	1	0	0	0	0	1	11	15	24	42	0	1	22	0	62
29	0	0	0	0	0	0	0	0	8	18	0	0	5	0	31
30	0	0	0	0	0	0	0	0	2	7	0	0	1	0	45
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ATAKPAME

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	3	7	13	0	0	5	0	19
2	0	0	0	0	0	0	0	0	2	15	0	0	0	0	25
3	0	0	0	0	0	0	0	3	7	31	0	0	5	0	37
4	0	0	0	0	0	0	0	8	14	25	0	0	11	0	44
5	2	0	0	0	0	1	10	18	37	45	0	1	32	0	55
6	11	0	0	1	7	10	13	16	18	47	0	10	17	0	59
7	20	0	0	0	11	18	26	47	59	63	0	18	57	0	77
8	20	0	0	5	16	20	25	32	57	76	0	20	37	0	93
9	22	2	5	7	16	21	31	41	59	93	7	21	47	0	98
10	41	1	8	18	30	40	43	50	54	71	16	40	53	0	84
11	39	0	2	11	26	38	55	84	93	107	4	38	86	0	129
12	36	2	7	15	25	35	38	46	54	73	10	35	51	0	91
13	30	2	6	19	22	29	37	50	66	73	11	29	57	0	78
14	47	7	18	27	41	45	51	64	89	105	25	45	68	0	110
15	52	10	20	29	40	49	63	75	95	114	23	49	86	2	138
16	55	14	22	38	46	54	62	76	95	112	33	54	85	7	145
17	53	18	28	36	42	52	58	69	80	113	33	52	74	2	133
18	58	17	24	32	44	57	66	83	95	109	27	57	92	8	132
19	52	6	17	37	45	52	59	86	102	135	24	52	99	0	150
20	54	0	17	34	48	53	64	71	91	126	24	53	82	0	142
21	64	6	19	25	45	63	82	99	127	137	24	63	107	3	157
22	32	1	9	12	16	31	46	65	83	94	10	31	73	0	102
23	42	0	3	17	31	40	53	79	87	101	9	40	86	0	111
24	64	13	32	44	52	63	71	84	96	137	40	63	89	10	146
25	52	10	17	30	39	51	64	80	98	119	24	51	88	4	133
26	60	15	27	35	49	57	70	82	103	124	31	57	92	3	140
27	67	16	29	40	51	62	73	91	97	109	37	62	95	5	114
28	52	12	23	31	43	51	55	68	77	102	24	51	73	7	114
29	34	8	13	19	26	32	52	64	75	112	17	32	71	3	118
30	19	0	2	7	12	19	25	49	58	74	4	19	50	0	82
31	9	0	0	0	4	8	14	19	24	36	0	8	22	0	49
32	1	0	0	0	0	1	3	9	20	38	0	1	15	0	55
33	0	0	0	0	0	0	0	16	26	36	0	0	20	0	37
34	0	0	0	0	0	0	4	11	21	26	0	0	16	0	41
35	0	0	0	0	0	0	0	4	10	16	0	0	6	0	24
36	0	0	0	0	0	0	0	1	4	15	0	0	2	0	28

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	3	7	13	0	0	5	0	19
2	0	0	0	0	0	0	0	0	2	15	0	0	0	0	25
3	0	0	0	0	0	0	0	4	8	31	0	0	6	0	31
4	0	0	0	0	0	0	3	10	15	28	0	0	13	0	28
5	6	0	0	0	0	5	15	29	29	29	0	5	29	0	29
6	14	0	0	4	11	13	17	19	26	26	0	13	22	0	26
7	21	0	0	4	15	20	28	30	30	30	0	20	30	0	30
8	28	0	5	13	25	28	30	30	30	30	10	28	30	0	30
9	32	2	8	21	32	32	32	32	32	32	18	32	32	1	32
10	28	17	25	28	28	28	28	28	28	28	28	28	28	7	28
11	27	17	27	27	27	27	27	27	27	27	27	27	27	1	27
12	32	32	32	32	32	32	32	32	32	32	32	32	32	12	32
13	36	33	36	36	36	36	36	36	36	36	36	36	36	17	36
14	40	31	40	40	40	40	40	40	40	40	40	40	40	22	40
15	49	37	39	47	49	49	49	49	49	49	42	49	49	31	49
16	41	35	37	40	41	41	41	41	41	41	39	41	41	24	41
17	39	34	36	37	38	39	39	39	39	39	37	39	39	33	39
18	37	33	36	36	37	37	37	37	37	37	36	37	37	27	37
19	35	31	32	33	34	35	35	35	35	35	33	35	35	29	35
20	33	31	31	32	32	33	33	33	33	33	32	33	33	22	33
21	35	30	34	34	35	35	35	35	35	35	34	35	35	15	35
22	31	21	30	30	30	31	31	31	31	31	30	31	31	5	31
23	30	22	28	29	29	30	30	30	30	30	29	30	30	10	30
24	34	30	32	33	34	34	34	34	34	34	33	34	34	19	34
25	33	30	31	32	32	33	33	33	33	33	32	33	33	15	33
26	35	30	33	34	35	35	35	35	35	35	33	35	35	25	35
27	37	36	36	37	37	37	37	37	37	37	37	37	37	31	37
28	40	37	39	39	40	40	40	40	40	40	39	40	40	31	40
29	42	37	40	40	41	42	42	42	42	42	40	42	42	33	42
30	46	25	35	40	43	45	46	48	48	48	38	45	48	21	48
31	35	17	25	29	32	34	37	40	42	44	26	34	40	9	44
32	22	5	9	14	17	22	26	29	40	41	10	22	32	2	41
33	15	0	2	7	12	15	21	26	27	34	3	15	26	0	37
34	10	0	0	1	7	9	14	20	24	30	0	9	21	0	32
35	6	0	0	0	3	6	8	12	13	18	0	6	12	0	23
36	0	0	0	0	0	0	1	5	9	19	0	0	7	0	22

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	27	8	16	22	27	27	27	27	27	27	19	27	27	3	27
2	28	2	17	28	28	28	28	28	28	28	25	28	28	0	28
3	31	0	16	25	30	31	31	31	31	31	24	31	31	0	31
4	28	0	12	17	23	28	28	28	28	28	13	28	28	0	28
5	22	0	0	0	11	20	27	29	29	29	0	20	29	0	29
6	12	0	0	4	9	11	15	18	26	26	0	11	24	0	26
7	7	0	0	0	0	5	13	24	30	30	0	5	25	0	30
8	0	0	0	0	0	0	3	10	19	29	0	0	17	0	30
9	0	0	0	0	0	0	0	4	13	27	0	0	11	0	29
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	10
11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
15	2	2	2	2	2	2	2	4	9	13	2	2	5	2	14
16	2	2	2	2	2	2	2	3	4	6	2	2	3	2	7
17	1	1	1	1	1	1	1	2	3	4	1	1	2	1	5
18	1	1	1	1	1	1	1	2	2	2	1	1	2	1	4
19	0	0	0	0	0	0	0	1	2	3	0	0	1	0	4
20	0	0	0	0	0	0	0	1	1	2	0	0	1	0	2
21	0	0	0	0	0	0	0	1	1	2	0	0	1	0	5
22	0	0	0	0	0	0	0	1	1	3	0	0	1	0	10
23	0	0	0	0	0	0	0	1	1	2	0	0	1	0	8
24	0	0	0	0	0	0	0	1	2	2	0	0	1	0	4
25	0	0	0	0	0	0	0	1	1	2	0	0	1	0	2
26	0	0	0	0	0	0	0	1	1	2	0	0	1	0	4
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
28	1	1	1	1	1	1	1	2	2	3	1	1	2	1	4
29	2	2	2	2	2	2	3	3	4	6	2	2	3	2	6
30	5	2	2	2	4	5	7	11	13	19	2	5	11	2	25
31	9	0	1	4	5	8	11	13	17	21	1	8	14	0	27
32	18	0	0	9	14	17	21	24	31	33	5	17	25	0	35
33	21	0	8	10	13	20	23	27	33	37	9	20	29	0	37
34	21	0	5	11	16	21	24	28	32	32	9	21	31	0	32
35	20	3	11	15	17	20	23	27	27	27	13	20	27	0	27
36	30	8	17	23	27	29	30	30	30	30	20	29	30	0	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 43 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
8	0	0	0	0	0	0	0	0	0	17	0	0	0	0	27
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	26
11	0	0	0	0	0	0	0	0	17	37	0	0	2	0	51
12	0	0	0	0	0	0	0	0	1	20	0	0	0	0	36
13	0	0	0	0	0	0	0	0	0	15	0	0	0	0	41
14	0	0	0	0	0	0	0	0	5	21	47	0	0	13	0	67
15	0	0	0	0	0	0	0	0	8	16	57	0	0	11	0	85
16	0	0	0	0	0	0	0	0	10	38	52	0	0	14	0	84
17	0	0	0	0	0	0	0	0	18	32	62	0	0	26	0	78
18	7	0	0	0	0	7	16	40	52	70	0	7	43	0	81
19	2	0	0	0	0	2	9	40	62	97	0	2	52	0	112
20	9	0	0	0	0	8	18	32	50	91	0	8	41	0	107
21	18	0	0	0	1	17	32	63	86	100	0	17	66	0	112
22	0	0	0	0	0	0	4	23	48	54	0	0	37	0	63
23	0	0	0	0	0	0	6	29	55	69	0	0	54	0	79
24	13	0	0	0	0	13	31	45	63	95	0	13	51	0	108
25	7	0	0	0	0	5	22	41	53	84	0	5	49	0	99
26	19	0	0	0	12	18	24	41	52	91	0	18	49	0	107
27	9	0	0	0	5	9	24	40	56	70	0	9	41	0	76
28	5	0	0	0	0	5	9	25	38	64	0	5	34	0	76
29	0	0	0	0	0	0	7	20	31	60	0	0	25	0	78
30	0	0	0	0	0	0	0	0	13	23	0	0	3	0	34
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SANSANNE-MANGO

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	3	0	0	0	0	12
6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
7	0	0	0	0	0	0	0	0	0	14	0	0	0	0	18
8	0	0	0	0	0	0	2	4	8	10	0	0	6	0	15
9	3	0	0	0	0	3	9	15	23	31	0	3	21	0	43
10	7	0	0	2	5	7	8	11	17	28	0	7	16	0	37
11	15	0	0	3	6	14	19	26	33	43	0	14	28	0	45
12	18	1	8	11	16	18	20	24	32	46	9	18	29	0	52
13	18	0	0	6	14	17	21	27	45	60	2	17	31	0	79
14	33	3	8	16	22	31	36	45	55	63	13	31	49	1	75
15	46	13	21	25	37	45	49	56	66	77	22	45	58	3	88
16	43	5	18	26	32	41	47	55	62	74	20	41	59	0	90
17	43	14	31	35	38	43	50	54	68	74	33	43	62	9	78
18	39	8	17	22	28	39	51	56	66	79	21	39	61	0	100
19	42	8	15	25	37	42	49	55	65	84	22	42	62	3	113
20	42	13	23	32	38	41	56	69	90	118	26	41	73	5	159
21	63	7	23	36	45	63	71	82	87	111	32	63	83	1	136
22	54	10	23	32	43	53	66	73	78	89	25	53	75	9	108
23	72	28	36	50	57	71	80	105	113	152	46	71	107	15	200
24	96	27	37	54	84	94	108	119	128	142	39	94	122	14	159
25	97	40	60	71	84	95	116	122	127	135	62	95	124	21	143
26	73	24	34	54	61	72	87	109	113	148	48	72	112	11	152
27	73	25	39	45	59	72	76	85	98	115	41	72	91	15	119
28	30	13	17	21	24	29	38	43	52	66	18	29	49	5	78
29	19	0	1	7	11	19	29	33	36	57	3	19	35	0	75
30	9	0	0	2	3	8	13	19	22	32	0	8	20	0	48
31	0	0	0	0	0	0	0	1	6	11	0	0	4	0	20
32	0	0	0	0	0	0	0	0	0	3	0	0	0	0	13
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	3	0	0	0	0	12
6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7
7	0	0	0	0	0	0	0	0	0	14	0	0	0	0	18
8	0	0	0	0	0	0	2	6	9	14	0	0	7	0	16
9	4	0	0	0	0	3	9	15	23	31	0	3	21	0	40
10	8	0	0	3	5	7	9	14	20	35	0	7	17	0	36
11	15	0	0	4	6	14	22	27	35	35	1	14	29	0	35
12	20	5	9	11	16	19	25	31	34	34	11	19	34	1	34
13	22	0	2	14	15	20	29	33	33	33	7	20	33	0	33
14	32	6	15	23	30	32	32	32	32	32	19	32	32	2	32
15	32	21	32	32	32	32	32	32	32	32	32	32	32	13	32
16	33	27	33	33	33	33	33	33	33	33	33	33	33	12	33
17	35	35	35	35	35	35	35	35	35	35	35	35	35	28	35
18	38	34	38	38	38	38	38	38	38	38	38	38	38	15	38
19	43	25	39	41	43	43	43	43	43	43	41	43	43	18	43
20	40	33	37	38	39	40	41	41	41	41	38	40	41	9	41
21	42	35	40	41	42	42	42	42	42	42	40	42	42	25	42
22	37	31	35	36	37	37	37	37	37	37	36	37	37	16	37
23	35	31	35	35	35	35	35	35	35	35	35	35	35	29	35
24	40	39	40	40	40	40	40	40	40	40	40	40	40	27	40
25	37	37	37	37	37	37	37	37	37	37	37	37	37	36	37
26	38	37	38	38	38	38	38	38	38	38	38	38	38	36	38
27	42	41	42	42	42	42	42	42	42	42	42	42	42	40	42
28	46	43	45	45	46	46	47	47	47	47	45	46	47	40	47
29	46	34	37	40	43	45	47	49	51	51	38	45	50	30	51
30	31	15	22	24	28	31	33	39	43	49	22	31	41	13	53
31	14	6	9	12	12	14	17	18	21	31	10	14	20	4	39
32	3	0	0	0	1	3	4	6	9	17	0	3	9	0	19
33	0	0	0	0	0	0	0	0	0	4	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
2	33	33	33	33	33	33	33	33	33	33	33	33	33	14	33
3	36	35	36	36	36	36	36	36	36	36	36	36	36	27	36
4	33	31	33	33	33	33	33	33	33	33	33	33	33	22	33
5	32	20	32	32	32	32	32	32	32	32	32	32	32	13	32
6	31	23	31	31	31	31	31	31	31	31	31	31	31	10	31
7	37	20	30	37	37	37	37	37	37	37	37	37	37	9	37
8	39	23	29	31	35	37	39	39	39	39	30	37	39	11	39
9	35	1	16	20	28	34	39	41	41	41	17	34	41	0	41
10	28	0	8	19	26	28	30	31	35	36	15	28	32	0	36
11	20	0	0	6	10	19	26	29	34	35	2	19	32	0	35
12	13	0	0	0	6	12	17	20	23	25	0	12	22	0	28
13	11	0	0	0	0	9	16	18	25	32	0	9	18	0	33
14	0	0	0	0	0	0	0	3	13	20	0	0	8	0	25
15	0	0	0	0	0	0	0	0	0	4	0	0	0	0	10
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
19	2	2	2	2	2	2	2	3	4	10	2	2	4	2	19
20	2	1	1	1	1	2	2	3	4	6	1	2	4	1	8
21	2	2	2	2	2	2	2	2	4	5	2	2	3	2	9
22	1	1	1	1	1	1	1	1	2	3	1	1	2	1	7
23	1	1	1	1	1	1	1	1	1	2	1	1	1	1	4
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28	3	2	2	2	2	3	3	3	4	5	2	3	4	2	6
29	8	3	3	4	6	8	11	13	16	18	3	8	15	3	21
30	22	0	10	13	19	22	25	28	32	36	11	22	30	0	38
31	29	3	19	23	26	28	30	31	33	36	22	28	32	1	38
32	35	18	24	30	33	34	36	38	38	38	28	34	38	0	38
33	33	24	30	33	33	33	33	33	33	33	33	33	33	3	33
34	28	20	28	28	28	28	28	28	28	28	28	28	28	9	28
35	29	24	29	29	29	29	29	29	29	29	29	29	29	15	29
36	34	28	34	34	34	34	34	34	34	34	34	34	34	15	34

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 41 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
16	0	0	0	0	0	0	0	0	0	17	0	0	0	0	23
17	0	0	0	0	0	0	0	0	6	18	0	0	0	0	21
18	0	0	0	0	0	0	0	3	10	29	0	0	5	0	39
19	0	0	0	0	0	0	0	0	14	27	0	0	7	0	46
20	0	0	0	0	0	0	0	9	32	62	0	0	24	0	75
21	0	0	0	0	0	0	15	21	33	57	0	0	30	0	66
22	0	0	0	0	0	0	5	11	30	35	0	0	17	0	55
23	27	0	0	4	13	25	37	53	66	106	0	25	60	0	163
24	57	0	0	10	31	57	68	79	88	101	1	57	83	0	120
25	51	0	16	24	38	48	59	77	83	88	21	48	81	0	99
26	34	0	0	16	23	34	41	68	76	110	10	34	74	0	114
27	32	0	0	6	17	32	36	43	56	73	2	32	47	0	80
28	0	0	0	0	0	0	0	0	7	23	0	0	4	0	35
29	0	0	0	0	0	0	0	0	0	4	0	0	0	0	13
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SOKODE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	25
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
3	0	0	0	0	0	0	0	0	1	15	0	0	0	0	26
4	0	0	0	0	0	0	0	0	1	12	0	0	0	0	28
5	0	0	0	0	0	0	0	7	14	19	0	0	11	0	32
6	0	0	0	0	0	0	0	4	11	16	0	0	6	0	20
7	2	0	0	0	0	2	5	14	18	25	0	2	17	0	37
8	10	0	0	0	2	10	14	17	35	44	0	10	28	0	52
9	17	0	3	5	7	17	24	33	46	56	4	17	40	0	68
10	17	1	5	11	14	17	24	38	48	53	8	17	41	0	76
11	24	3	11	13	16	24	28	39	52	71	12	24	46	1	85
12	35	4	9	17	25	35	40	44	71	82	13	35	66	0	96
13	39	11	20	26	33	39	46	55	69	93	22	39	66	0	94
14	35	14	19	23	30	35	42	53	65	81	21	35	59	10	90
15	64	17	29	36	47	64	70	78	88	116	33	64	85	11	122
16	46	14	25	35	40	46	50	55	75	88	29	46	67	2	102
17	51	21	32	36	45	51	67	75	91	126	34	51	78	8	137
18	65	15	35	47	49	65	80	85	100	120	38	65	96	7	139
19	73	21	25	35	62	73	84	88	98	112	27	73	93	7	115
20	84	19	41	52	63	84	101	108	115	133	43	84	110	4	140
21	78	15	35	41	56	78	85	92	101	124	36	78	96	6	139
22	65	19	35	43	50	65	74	84	116	169	41	65	96	7	180
23	65	10	17	29	39	65	71	89	96	153	22	65	93	0	186
24	95	32	52	71	82	95	106	119	156	173	63	95	136	15	191
25	89	34	60	68	79	89	107	136	148	166	64	89	145	17	197
26	77	24	45	51	61	77	91	110	134	140	48	77	118	14	170
27	70	13	28	38	50	70	80	91	99	113	36	70	97	2	116
28	53	20	34	38	42	53	62	66	81	88	36	53	74	2	97
29	24	0	2	8	14	24	36	52	59	78	4	24	55	0	105
30	22	0	3	7	15	22	29	39	47	65	5	22	44	0	97
31	2	0	0	0	0	2	6	16	24	36	0	2	21	0	44
32	0	0	0	0	0	0	0	0	13	24	0	0	5	0	36
33	0	0	0	0	0	0	0	0	7	21	0	0	2	0	26
34	0	0	0	0	0	0	0	0	0	15	0	0	0	0	36
35	0	0	0	0	0	0	0	0	0	10	0	0	0	0	27
36	0	0	0	0	0	0	0	0	2	11	0	0	0	0	15

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	23
2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
3	0	0	0	0	0	0	0	0	1	18	0	0	1	0	26
4	0	0	0	0	0	0	0	0	4	22	0	0	1	0	26
5	0	0	0	0	0	0	5	14	20	25	0	0	17	0	26
6	0	0	0	0	0	0	0	7	12	20	0	0	9	0	22
7	3	0	0	0	0	3	7	16	19	26	0	3	18	0	27
8	12	0	0	0	7	12	15	28	28	28	0	12	28	0	28
9	24	0	4	6	14	24	30	30	30	30	5	24	30	0	30
10	26	1	9	15	20	26	26	26	26	26	13	26	26	0	26
11	25	12	19	25	25	25	25	25	25	25	25	25	25	2	25
12	29	19	29	29	29	29	29	29	29	29	29	29	29	7	29
13	34	32	34	34	34	34	34	34	34	34	34	34	34	21	34
14	38	36	38	38	38	38	38	38	38	38	38	38	38	26	38
15	46	35	45	46	46	46	46	46	46	46	46	46	46	20	46
16	39	36	38	38	39	39	40	40	40	40	38	39	40	33	40
17	37	34	36	37	37	37	37	37	37	37	36	37	37	31	37
18	35	33	34	35	35	35	35	35	35	35	35	35	35	30	35
19	34	32	33	33	34	34	34	34	34	34	33	34	34	25	34
20	32	31	32	32	32	32	32	32	32	32	32	32	32	19	32
21	34	33	34	34	34	34	34	34	34	34	34	34	34	27	34
22	31	30	31	31	31	31	31	31	31	31	31	31	31	28	31
23	30	29	30	30	30	30	30	30	30	30	30	30	30	28	30
24	34	33	34	34	34	34	34	34	34	34	34	34	34	32	34
25	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32
26	33	32	33	33	33	33	33	33	33	33	33	33	33	32	33
27	35	34	35	35	35	35	35	35	35	35	35	35	35	33	35
28	38	36	38	38	38	38	38	38	38	38	38	38	38	35	38
29	40	38	38	39	39	40	41	41	41	41	39	40	41	33	41
30	43	31	33	38	40	43	44	44	44	44	35	43	44	25	44
31	32	17	22	25	27	32	35	36	36	36	24	32	36	15	36
32	22	3	7	11	15	22	28	30	32	32	9	22	32	0	32
33	13	0	0	0	4	13	15	19	28	28	0	13	27	0	28
34	2	0	0	0	0	2	8	14	18	23	0	2	16	0	23
35	0	0	0	0	0	0	1	2	11	23	0	0	6	0	23
36	0	0	0	0	0	0	0	7	12	15	0	0	9	0	19

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	1	25	25	25	25	25	25	25	25	25	25	25	0	25
2	25	12	25	25	25	25	25	25	25	25	25	25	25	4	25
3	28	1	20	27	28	28	28	28	28	28	26	28	28	0	28
4	26	0	13	25	26	26	26	26	26	26	22	26	26	0	26
5	26	0	4	8	14	26	26	26	26	26	5	26	26	0	26
6	24	1	8	14	21	24	24	24	24	24	12	24	24	0	24
7	23	0	5	9	16	23	25	27	27	27	9	23	27	0	27
8	14	0	0	0	11	14	17	25	28	28	0	14	27	0	28
9	2	0	0	0	0	2	12	19	25	28	0	2	23	0	30
10	0	0	0	0	0	0	1	11	13	20	0	0	12	0	25
11	0	0	0	0	0	0	0	0	2	12	0	0	0	0	14
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
15	2	2	2	2	2	2	2	2	3	8	2	2	2	2	13
16	2	1	1	1	1	2	2	2	3	4	1	2	3	1	5
17	1	1	1	1	1	1	1	1	2	3	1	1	1	1	4
18	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
19	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
28	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
29	2	2	2	2	2	2	3	4	4	5	2	2	4	2	5
30	0	0	0	0	0	0	2	4	10	11	0	0	6	0	13
31	3	0	0	0	0	3	7	10	12	15	0	3	11	0	19
32	9	0	0	0	2	9	16	20	23	26	0	9	22	0	30
33	13	0	0	4	11	13	21	28	28	28	0	13	28	0	28
34	21	0	4	8	11	21	23	23	23	23	6	21	23	0	23
35	23	0	0	18	22	23	23	23	23	23	12	23	23	0	23
36	26	6	12	16	21	26	26	26	26	26	13	26	26	0	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 42 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	1	15	0	0	0	0	25
14	0	0	0	0	0	0	0	0	5	30	0	0	0	0	39
15	0	0	0	0	0	0	4	20	29	51	0	0	25	0	57
16	0	0	0	0	0	0	0	0	23	31	0	0	6	0	38
17	0	0	0	0	0	0	3	23	33	53	0	0	26	0	83
18	11	0	0	0	0	11	16	37	52	73	0	11	47	0	101
19	29	0	0	0	10	29	38	46	49	70	0	29	48	0	78
20	38	0	0	7	24	38	56	68	73	98	3	38	70	0	106
21	39	0	1	8	24	39	48	57	68	92	3	39	64	0	107
22	30	0	0	8	12	30	39	48	81	120	3	30	58	0	145
23	27	0	0	0	3	27	39	57	64	110	0	27	61	0	139
24	59	0	20	31	41	59	69	84	117	142	22	59	97	0	155
25	54	0	25	34	40	54	70	102	113	127	30	54	111	0	159
26	44	0	12	19	29	44	58	72	95	104	14	44	82	0	137
27	36	0	0	5	17	36	47	58	66	80	2	36	63	0	83
28	15	0	0	0	6	15	26	29	41	49	0	15	33	0	56
29	0	0	0	0	0	0	0	9	19	39	0	0	13	0	66
30	0	0	0	0	0	0	0	0	0	10	0	0	0	0	27
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
3	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
4	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
5	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
8	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
9	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
10	31	31	31	31	31	31	31	31	31	31	31	31	31	29	31
11	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
12	32	32	32	32	32	32	32	32	32	32	32	32	32	24	32
13	34	27	34	34	34	34	34	34	34	34	34	34	34	10	34
14	35	32	35	35	35	35	35	35	35	35	35	35	35	14	35
15	38	29	35	38	38	38	38	38	38	38	36	38	38	0	38
16	34	22	34	34	34	34	34	34	34	34	34	34	34	0	34
17	33	27	33	33	33	33	33	33	33	33	33	33	33	8	33
18	33	19	26	31	33	33	33	33	33	33	29	33	33	3	33
19	32	6	19	26	30	32	33	33	33	33	22	32	33	0	33
20	31	1	15	24	28	31	36	37	39	39	19	31	38	0	39
21	17	0	0	0	12	17	24	30	41	44	0	17	36	0	47
22	9	0	0	0	0	9	15	23	37	45	0	9	32	0	47
23	16	3	3	3	3	16	24	38	44	50	3	16	41	3	54
24	27	3	6	13	19	27	35	40	51	58	8	27	47	3	62
25	45	8	23	28	37	45	47	51	51	51	25	45	51	0	51
26	44	15	32	37	42	44	45	45	45	45	33	44	45	0	45
27	39	35	37	39	39	39	39	39	39	39	39	39	39	26	39
28	34	34	34	34	34	34	34	34	34	34	34	34	34	25	34
29	28	28	28	28	28	28	28	28	28	28	28	28	28	26	28
30	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
31	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
32	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
33	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
34	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22
35	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
36	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	15	0	0	0	0	37
22	0	0	0	0	0	0	0	0	6	38	0	0	0	0	50
23	0	0	0	0	0	0	0	0	19	59	0	0	8	0	68
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NIAMEY

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
11	0	0	0	0	0	0	0	0	0	7	0	0	0	0	13
12	0	0	0	0	0	0	0	0	3	12	0	0	1	0	17
13	0	0	0	0	0	0	1	6	7	9	0	0	7	0	12
14	3	0	0	0	1	3	5	8	11	25	0	3	9	0	44
15	11	0	1	4	9	11	15	21	28	38	2	11	21	0	67
16	18	0	4	8	12	18	23	29	37	48	5	18	32	0	88
17	21	1	3	7	15	21	26	33	47	53	4	21	35	0	58
18	23	4	8	15	20	23	29	35	45	62	11	23	37	1	70
19	27	5	12	17	22	27	37	39	54	63	13	27	44	0	69
20	44	15	22	31	37	44	55	65	83	93	26	44	73	5	100
21	62	16	32	38	55	62	70	78	90	110	35	62	81	3	123
22	67	21	28	39	55	67	76	87	98	121	32	67	90	14	150
23	59	23	34	44	52	59	69	83	97	113	37	59	87	11	125
24	56	25	34	39	47	56	74	83	104	119	35	56	89	5	125
25	43	10	18	23	35	43	46	54	70	82	21	43	64	6	85
26	22	1	7	15	18	22	35	46	54	75	10	22	49	0	81
27	9	0	1	3	6	9	13	19	29	47	1	9	22	0	60
28	2	0	0	0	0	2	6	8	11	20	0	2	10	0	22
29	0	0	0	0	0	0	0	2	6	25	0	0	3	0	41
30	0	0	0	0	0	0	0	0	1	5	0	0	0	0	13
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
10	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
11	0	0	0	0	0	0	0	0	0	7	0	0	0	0	13
12	0	0	0	0	0	0	0	0	1	3	12	0	0	1	0	17
13	0	0	0	0	0	0	0	1	6	7	10	0	0	7	0	13
14	2	0	0	0	0	0	2	5	8	11	25	0	2	10	0	42
15	13	0	0	4	9	13	16	21	34	41	2	13	24	0	45
16	20	0	4	11	16	20	26	32	37	38	5	20	34	0	38
17	24	1	4	10	16	24	28	35	35	35	5	24	35	0	35
18	33	4	9	22	28	33	33	33	33	33	15	33	33	1	33
19	37	8	14	23	30	37	37	37	37	37	17	37	37	3	37
20	41	22	32	41	41	41	41	41	41	41	33	41	41	9	41
21	49	36	49	49	49	49	49	49	49	49	49	49	49	12	49
22	49	33	45	48	49	49	49	49	49	49	48	49	49	18	49
23	46	38	44	46	46	46	46	46	46	46	45	46	46	31	46
24	51	43	49	51	51	51	51	51	51	51	50	51	51	23	51
25	46	34	41	43	45	46	48	48	48	48	42	46	48	19	48
26	44	22	30	36	40	44	45	46	49	49	32	44	48	16	49
27	32	12	18	23	29	32	38	42	44	49	20	32	42	1	49
28	16	4	10	12	14	16	20	22	26	37	11	16	24	0	44
29	7	0	1	3	5	7	8	10	15	27	3	7	12	0	33
30	1	0	0	0	0	1	2	4	7	12	0	1	5	0	18
31	0	0	0	0	0	0	0	0	2	8	0	0	1	0	10
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	26	30
5	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	32	35
8	36	36	36	36	36	36	36	36	36	36	36	36	36	16	36
9	41	34	40	41	41	41	41	41	41	41	41	41	41	25	41
10	37	33	37	37	37	37	37	37	37	37	37	37	37	25	37
11	37	28	36	37	37	37	37	37	37	37	37	37	37	8	37
12	40	26	35	38	40	40	40	40	40	40	37	40	40	4	40
13	42	28	34	35	39	42	42	42	42	42	34	42	42	15	42
14	41	11	31	35	38	41	44	45	45	45	34	41	45	0	45
15	31	1	9	24	28	31	36	40	43	45	13	31	41	0	45
16	15	0	0	4	11	15	19	25	32	36	2	15	27	0	38
17	9	0	0	0	5	9	15	21	29	31	0	9	25	0	33
18	0	0	0	0	0	0	2	8	20	25	0	0	12	0	30
19	0	0	0	0	0	0	6	13	20	27	0	0	16	0	30
20	0	0	0	0	0	0	0	0	8	15	0	0	3	0	21
21	0	0	0	0	0	0	0	0	0	10	0	0	0	0	16
22	2	2	2	2	2	2	2	2	4	15	2	2	3	2	21
23	2	2	2	2	2	2	2	2	4	8	2	2	3	2	12
24	3	3	3	3	3	3	3	3	4	11	3	3	3	3	19
25	3	2	2	2	2	3	5	6	9	15	2	3	7	2	23
26	7	2	2	4	6	7	9	15	21	27	2	7	17	2	30
27	14	6	4	6	8	14	18	25	30	34	5	14	28	0	38
28	28	3	18	23	25	28	32	34	36	41	20	28	35	0	43
29	35	16	27	33	35	35	38	40	41	44	30	35	40	0	44
30	38	26	32	35	37	38	40	40	40	40	33	38	40	10	40
31	30	20	27	29	30	30	30	30	30	30	27	30	30	16	30
32	28	28	28	28	28	28	28	28	28	28	28	28	28	17	28
33	28	28	28	28	28	28	28	28	28	28	28	28	28	26	28
34	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
35	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
36	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21	0	0	0	0	0	0	0	0	14	29	0	0	2	0	32
22	0	0	0	0	0	0	0	6	30	56	0	0	9	0	64
23	0	0	0	0	0	0	7	15	25	51	0	0	18	0	63
24	5	0	0	0	0	5	14	28	56	62	0	5	39	0	72
25	0	0	0	0	0	0	0	0	8	28	0	0	2	0	33
26	0	0	0	0	0	0	0	0	0	24	0	0	0	0	28
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABOUA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
12	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10
13	0	0	0	0	0	0	0	1	3	6	0	0	1	0	16
14	0	0	0	0	0	0	2	3	6	13	0	0	3	0	19
15	2	0	0	0	2	2	7	11	16	23	0	2	12	0	29
16	8	0	1	2	6	8	10	13	21	46	1	8	18	0	61
17	8	0	2	3	5	8	11	14	22	34	2	8	16	0	47
18	12	0	2	5	8	12	21	31	36	48	3	12	33	0	50
19	21	3	6	8	14	21	28	34	47	55	7	21	40	0	60
20	27	5	13	20	23	27	33	47	60	70	15	27	56	3	83
21	42	13	28	36	37	42	46	57	71	89	32	42	64	8	95
22	34	11	16	25	32	34	43	54	66	80	21	34	56	4	83
23	44	13	21	29	36	44	53	66	81	102	25	44	71	2	126
24	37	16	22	25	30	37	46	53	57	80	22	37	54	5	104
25	24	1	6	15	18	24	30	32	42	50	10	24	39	0	60
26	17	1	6	8	14	17	22	31	35	41	7	17	33	0	49
27	5	0	0	1	2	5	9	11	16	29	0	5	14	0	31
28	0	0	0	0	0	0	1	5	10	17	0	0	5	0	28
29	0	0	0	0	0	0	0	1	3	22	0	0	1	0	30
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8
12	0	0	0	0	0	0	0	0	1	3	0	0	0	0	10
13	0	0	0	0	0	0	0	1	3	6	0	0	2	0	16
14	0	0	0	0	0	0	1	3	6	13	0	0	4	0	19
15	3	0	0	0	2	3	7	11	17	24	0	3	12	0	29
16	8	0	1	2	6	8	10	14	21	40	1	8	18	0	40
17	11	0	2	4	6	11	14	20	26	38	3	11	23	0	38
18	15	1	4	7	9	15	25	32	37	37	5	15	33	0	37
19	23	3	7	12	15	23	31	36	36	36	8	23	36	0	36
20	35	10	19	24	28	35	41	41	41	41	22	35	41	4	41
21	50	22	36	40	45	50	50	50	50	50	36	50	50	8	50
22	43	14	28	32	37	43	49	49	49	49	31	43	49	8	49
23	50	13	23	36	42	50	53	54	54	54	28	50	54	5	54
24	49	19	26	36	42	49	52	58	61	61	27	49	60	5	61
25	26	2	14	17	22	26	36	44	47	50	16	26	45	0	53
26	18	2	7	9	14	18	25	34	39	43	8	18	35	0	49
27	7	0	0	1	2	7	10	13	17	29	1	7	14	0	31
28	0	0	0	0	0	0	2	5	10	17	0	0	6	0	28
29	0	0	0	0	0	0	0	1	3	22	0	0	1	0	30
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2	30	30	30	30	30	30	30	30	30	30	30	30	30	24	30
3	34	34	34	34	34	34	34	34	34	34	34	34	34	26	34
4	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
5	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
6	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
8	37	37	37	37	37	37	37	37	37	37	37	37	37	35	37
9	41	40	41	41	41	41	41	41	41	41	41	41	41	36	41
10	38	37	38	38	38	38	38	38	38	38	38	38	38	32	38
11	38	32	38	38	38	38	38	38	38	38	38	38	38	15	38
12	40	33	38	40	40	40	40	40	40	40	39	40	40	12	40
13	40	27	36	38	40	40	40	40	40	40	37	40	40	13	40
14	42	26	34	38	40	42	42	42	42	42	36	42	42	13	42
15	42	20	26	33	37	42	43	45	45	45	30	42	45	0	45
16	30	0	12	23	30	30	33	36	38	40	19	30	37	0	40
17	26	0	9	17	23	26	31	34	36	38	13	26	34	0	38
18	19	0	0	4	9	19	26	29	31	34	1	19	29	0	36
19	12	0	0	0	1	12	17	23	28	30	0	12	25	0	33
20	6	0	0	0	0	6	12	16	19	28	0	6	18	0	33
21	0	0	0	0	0	0	4	8	14	22	0	0	10	0	35
22	5	0	0	0	0	5	11	16	19	30	0	5	16	0	36
23	6	3	3	3	3	6	15	18	31	40	3	6	23	3	44
24	13	3	3	4	10	13	21	27	37	42	3	13	30	3	46
25	29	7	10	13	22	29	36	39	42	54	11	29	41	3	57
26	34	8	12	19	23	34	39	43	46	49	15	34	45	0	52
27	42	19	29	36	38	42	47	48	49	50	33	42	48	7	50
28	45	22	33	39	42	45	45	45	45	45	36	45	45	8	45
29	40	15	34	39	40	40	40	40	40	40	37	40	40	2	40
30	36	36	36	36	36	36	36	36	36	36	36	36	36	17	36
31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31
32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
33	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
34	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
35	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
36	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	11
21	0	0	0	0	0	0	0	0	2	21	0	0	0	0	30
22	0	0	0	0	0	0	0	0	0	5	0	0	0	0	18
23	0	0	0	0	0	0	0	0	18	49	0	0	3	0	62
24	0	0	0	0	0	0	0	0	0	13	0	0	0	0	36
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAMOUT

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	3	17	0	0	1	0	19
15	0	0	0	0	0	0	0	1	2	5	0	0	1	0	9
16	0	0	0	0	0	0	1	2	6	16	0	0	3	7	26
17	0	0	0	0	0	0	0	2	5	20	0	0	4	0	26
18	2	0	0	0	0	1	3	10	16	31	0	1	12	0	46
19	11	0	0	1	4	10	13	19	26	44	1	10	19	0	53
20	25	0	4	11	20	25	30	40	55	72	9	25	44	3	85
21	39	6	12	15	27	38	44	50	58	70	13	38	52	13	83
22	24	3	8	15	20	23	31	40	47	49	12	23	40	3	51
23	38	5	13	21	32	37	62	69	87	112	17	37	74	14	117
24	27	0	7	10	13	23	37	49	59	75	9	23	53	0	101
25	10	0	0	3	6	9	15	30	35	54	1	9	30	0	64
26	6	0	0	0	1	5	10	21	32	41	0	5	23	3	46
27	0	0	0	0	0	0	0	3	8	21	0	0	4	0	35
28	0	0	0	0	0	0	0	0	0	9	0	0	0	0	11
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC A	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	3	17	0	0	1	0	19
15	0	0	0	0	0	0	0	1	2	8	0	0	1	0	11
16	0	0	0	0	0	0	1	2	6	16	0	0	3	7	26
17	0	0	0	0	0	0	0	4	8	26	0	0	5	0	33
18	2	0	0	0	0	2	3	10	16	31	0	2	12	0	35
19	11	0	0	1	6	11	15	19	31	35	1	11	21	0	35
20	30	0	5	17	24	28	36	40	40	40	12	28	40	3	40
21	49	6	13	21	36	44	50	50	50	50	17	44	50	13	50
22	37	10	19	23	31	37	41	45	48	48	22	37	47	7	48
23	40	5	15	24	33	39	54	54	54	54	21	39	54	14	54
24	38	0	10	16	29	38	44	54	58	60	12	38	56	0	60
25	15	0	0	3	8	13	25	30	42	53	1	13	34	0	53
26	10	0	0	0	3	8	12	25	36	45	0	8	27	3	47
27	0	0	0	0	0	0	2	5	11	21	0	0	6	0	32
28	0	0	0	0	0	0	0	0	2	9	0	0	0	0	15
29	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
4	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
5	28	27	28	28	28	28	28	28	28	28	28	28	28	27	28
6	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
7	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
9	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
10	34	32	34	34	34	34	34	34	34	34	34	34	34	32	34
11	35	34	35	35	35	35	35	35	35	35	35	35	35	34	35
12	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
13	35	32	35	35	35	35	35	35	35	35	35	35	35	33	35
14	35	7	23	33	35	35	35	35	35	35	32	35	35	17	35
15	39	24	34	37	38	39	39	39	39	39	37	39	39	29	39
16	36	0	24	30	33	35	36	36	36	36	28	35	36	8	36
17	36	0	15	30	33	36	36	36	36	36	27	36	36	17	36
18	32	0	9	21	26	31	34	35	35	35	18	31	35	16	35
19	23	0	0	8	15	22	26	30	33	35	2	22	32	10	35
20	10	0	0	0	1	7	13	19	30	40	0	7	22	7	40
21	0	0	0	0	0	0	9	20	32	37	0	0	26	7	39
22	10	0	0	0	4	8	12	23	27	33	0	8	24	9	37
23	11	3	3	3	3	7	21	28	36	43	3	7	32	11	47
24	25	3	3	6	11	23	30	42	51	60	4	23	46	12	63
25	30	0	2	14	23	30	41	46	52	53	9	30	48	24	53
26	36	0	5	19	27	36	40	45	47	47	14	36	45	5	47
27	41	9	27	34	37	41	41	41	41	41	32	41	41	0	41
28	36	7	30	36	36	36	36	36	36	36	35	36	36	15	36
29	30	20	30	30	30	30	30	30	30	30	30	30	30	23	30
30	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
31	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
32	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
33	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 29 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	1	0	0	0	0	14
21	0	0	0	0	0	0	0	0	0	7	0	0	0	0	19
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	9	37	0	0	0	0	39
24	0	0	0	0	0	0	0	0	0	20	0	0	0	0	34
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TILLABERY

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
12	0	0	0	0	0	0	0	0	1	8	0	0	0	0	10
13	0	0	0	0	0	0	0	0	2	7	0	0	1	0	9
14	0	0	0	0	0	0	2	4	6	18	0	0	5	0	26
15	6	0	0	0	3	6	8	15	28	41	0	6	22	0	50
16	7	0	1	4	4	7	11	15	25	33	2	7	21	0	37
17	18	0	2	5	8	18	22	25	33	41	4	18	27	0	50
18	17	2	4	9	13	17	23	28	34	51	6	17	30	1	60
19	30	1	9	13	19	30	38	40	47	65	11	30	42	0	85
20	30	6	11	17	24	30	37	47	63	75	14	30	48	1	87
21	39	22	26	30	37	39	56	68	74	100	28	39	71	6	114
22	45	17	24	31	36	45	53	65	78	101	29	45	68	10	116
23	70	20	31	40	54	70	76	87	96	121	35	70	89	1	129
24	55	19	31	40	46	55	64	68	75	105	38	55	70	13	122
25	30	2	11	19	25	30	38	48	57	77	17	30	52	0	101
26	20	0	3	5	9	20	24	29	40	46	4	20	34	0	58
27	6	0	0	1	3	6	11	17	29	50	1	6	18	0	64
28	1	0	0	0	0	1	2	5	10	20	0	1	7	0	22
29	0	0	0	0	0	0	0	2	6	17	0	0	3	0	23
30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	2	0	0	0	0	5
12	0	0	0	0	0	0	0	0	2	8	0	0	0	0	10
13	0	0	0	0	0	0	0	0	2	7	0	0	1	0	9
14	0	0	0	0	0	0	2	5	6	18	0	0	5	0	26
15	6	0	0	0	2	6	8	15	28	41	0	6	22	0	42
16	11	0	1	4	5	11	13	21	26	35	2	11	24	0	37
17	18	0	3	6	16	18	23	26	34	35	4	18	28	0	35
18	19	2	5	10	15	19	24	28	34	34	8	19	30	1	34
19	31	4	12	15	23	31	33	33	33	33	13	31	33	0	33
20	38	9	17	24	32	38	38	38	38	38	18	38	38	6	38
21	47	25	29	37	47	47	47	47	47	47	32	47	47	6	47
22	47	29	34	44	47	47	47	47	47	47	36	47	47	12	47
23	53	30	41	52	53	53	53	53	53	53	44	53	53	10	53
24	59	38	44	50	57	59	59	59	59	59	47	59	59	23	59
25	43	4	21	27	38	43	47	51	54	54	24	43	53	1	54
26	25	4	8	17	20	25	28	35	44	51	9	25	41	2	52
27	10	0	1	3	7	10	15	18	30	48	2	10	25	0	48
28	1	0	0	0	0	1	3	7	17	22	0	1	11	0	25
29	0	0	0	0	0	0	0	2	6	17	0	0	3	0	23
30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DFFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28
2	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
3	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
4	30	30	30	30	30	30	30	30	30	30	30	30	30	15	30
5	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
6	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
7	35	35	35	35	35	35	35	35	35	35	35	35	35	24	35
8	37	37	37	37	37	37	37	37	37	37	37	37	37	34	37
9	41	38	41	41	41	41	41	41	41	41	41	41	41	9	41
10	36	36	36	36	36	36	36	36	36	36	36	36	36	33	36
11	36	32	36	36	36	36	36	36	36	36	36	36	36	29	36
12	37	27	34	37	37	37	37	37	37	37	36	37	37	11	37
13	38	29	35	37	38	38	38	38	38	38	36	38	38	12	38
14	40	17	32	34	37	40	40	40	40	40	33	40	40	6	40
15	35	0	12	23	32	35	39	41	42	42	14	35	42	0	42
16	26	0	9	13	22	26	31	32	35	36	11	26	33	0	37
17	16	0	0	8	10	16	19	28	31	34	4	16	29	0	35
18	14	0	0	5	9	14	18	23	27	30	2	14	24	0	31
19	1	0	0	0	0	1	9	15	20	26	0	1	17	0	31
20	0	0	0	0	0	0	5	13	20	26	0	0	17	0	29
21	0	0	0	0	0	0	0	8	15	20	0	0	10	0	23
22	0	0	0	0	0	0	0	0	11	17	0	0	5	0	20
23	3	3	3	3	3	3	3	3	14	24	3	3	6	3	31
24	3	3	3	3	3	3	5	10	15	23	3	3	12	3	24
25	14	3	3	4	9	14	18	26	34	50	3	14	33	3	54
26	25	0	5	13	22	25	29	33	42	47	8	25	36	0	48
27	38	0	18	29	32	38	40	44	46	48	19	38	45	0	48
28	42	20	23	34	40	42	43	44	44	44	30	42	44	10	44
29	40	19	33	37	40	40	40	40	40	40	34	40	40	3	40
30	35	30	35	35	35	35	35	35	35	35	35	35	35	17	35
31	30	30	30	30	30	30	30	30	30	30	30	30	30	24	30
32	29	29	29	29	29	29	29	29	29	29	29	29	29	26	29
33	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
34	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
35	27	27	27	27	27	27	27	27	27	27	27	27	27	25	27
36	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
20	0	0	0	0	0	0	0	0	0	14	0	0	0	0	24
21	0	0	0	0	0	0	0	0	26	38	0	0	5	0	53
22	0	0	0	0	0	0	0	0	20	54	0	0	9	0	64
23	4	0	0	0	0	4	13	26	42	58	0	4	32	0	70
24	0	0	0	0	0	0	0	10	16	51	0	0	12	0	68
25	0	0	0	0	0	0	0	0	0	11	0	0	0	0	32
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ZINDER

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
13	0	0	0	0	0	0	0	0	2	10	0	0	1	0	13
14	0	0	0	0	0	0	0	2	4	10	0	0	3	0	24
15	5	0	0	0	2	5	11	21	30	44	0	5	23	0	62
16	8	0	0	2	4	8	10	14	24	41	1	8	19	0	45
17	8	0	0	2	6	8	13	20	29	38	1	8	25	0	42
18	18	1	4	7	13	18	26	28	39	55	5	18	33	0	61
19	27	3	8	15	22	27	33	47	58	75	11	27	53	1	87
20	39	14	16	22	32	39	43	56	69	92	18	39	67	5	103
21	57	15	30	35	44	57	71	89	102	141	33	57	90	7	153
22	67	26	38	42	56	67	80	87	99	118	39	67	91	3	133
23	61	15	29	40	50	61	76	89	101	130	34	61	92	8	144
24	71	12	27	46	58	71	79	94	104	140	34	71	98	4	157
25	20	2	7	10	15	20	28	38	52	58	9	20	41	0	69
26	21	3	6	10	13	21	25	33	38	49	9	21	35	0	59
27	4	0	0	0	3	4	8	14	18	25	0	4	16	0	39
28	0	0	0	0	0	0	0	1	7	16	0	0	3	0	26
29	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
13	0	0	0	0	0	0	0	0	2	10	0	0	1	0	13
14	0	0	0	0	0	0	1	2	4	10	0	0	3	0	24
15	6	0	0	0	2	6	11	21	30	39	0	6	23	0	40
16	9	0	0	2	5	9	14	21	32	35	1	9	25	0	35
17	11	0	0	2	7	11	14	23	30	33	1	11	27	0	33
18	20	1	5	7	16	20	28	31	31	31	6	20	31	0	31
19	31	4	11	18	24	31	36	36	36	36	13	31	36	2	36
20	40	15	19	36	40	40	40	40	40	40	24	40	40	10	40
21	48	27	42	48	48	48	48	48	48	48	46	48	48	9	48
22	49	38	45	48	49	49	49	49	49	49	46	49	49	13	49
23	45	38	40	43	44	45	45	45	45	45	41	45	45	26	45
24	52	33	45	49	52	52	52	52	52	52	46	52	52	10	52
25	39	20	28	31	35	39	43	45	46	50	29	39	46	5	50
26	30	8	11	15	23	30	35	39	45	50	13	30	41	3	50
27	7	0	0	2	4	7	14	18	22	28	0	7	18	0	46
28	0	0	0	0	0	0	0	5	10	26	0	0	7	0	35
29	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	25	25	0	0	0	0	25
2	25	0	0	25	25	25	25	25	25	25	25	25	25	0	25
3	25	0	0	25	25	25	25	25	27	29	25	25	25	0	29
4	29	0	0	27	27	29	29	29	29	29	27	29	29	0	29
5	27	0	0	27	27	27	27	27	27	27	27	27	27	0	27
6	27	0	0	26	26	27	27	27	27	27	24	27	27	0	27
7	26	0	0	26	26	26	26	26	28	31	26	26	26	0	31
8	31	0	0	31	31	31	31	31	32	33	31	31	31	0	33
9	33	0	0	33	33	33	33	33	35	37	33	33	33	0	37
10	37	0	0	35	35	37	37	37	37	37	34	37	37	0	37
11	35	0	0	35	35	35	35	35	35	35	26	35	35	0	35
12	35	0	0	35	35	35	35	35	35	36	34	35	35	0	36
13	36	0	0	34	36	36	36	36	36	37	18	36	36	0	37
14	37	0	0	29	35	37	37	37	37	37	13	37	37	0	37
15	34	0	0	9	28	34	36	37	37	37	0	34	37	0	37
16	22	0	0	0	12	22	28	35	37	40	0	22	36	0	40
17	12	0	0	0	3	12	24	26	32	35	0	12	31	0	35
18	13	0	0	0	5	13	20	24	30	33	0	13	25	0	33
19	2	0	0	0	0	2	12	21	25	28	0	2	24	0	29
20	0	0	0	0	0	0	4	11	17	29	0	0	13	0	31
21	0	0	0	0	0	0	0	0	9	23	0	0	0	0	24
22	0	0	0	0	0	0	1	2	2	13	0	0	2	0	27
23	2	0	0	2	2	2	2	2	4	10	2	2	2	0	16
24	2	0	0	2	2	2	3	3	4	6	2	2	3	0	8
25	3	0	0	3	3	3	3	7	11	19	2	3	8	0	28
26	11	0	0	3	7	11	16	22	25	34	1	11	23	0	41
27	17	0	0	1	8	17	28	35	39	42	0	17	37	0	44
28	30	0	0	8	27	30	39	42	45	46	0	30	42	0	46
29	37	0	0	33	35	37	39	42	42	42	6	37	42	0	42
30	33	0	0	29	32	33	37	37	37	37	21	33	37	0	37
31	32	0	0	28	28	32	32	32	32	32	28	32	32	0	32
32	28	0	0	27	27	28	28	28	28	28	26	28	28	0	28
33	27	0	0	26	26	27	27	27	27	27	23	27	27	0	27
34	26	0	0	25	25	26	26	26	26	26	24	26	26	0	26
35	25	0	0	23	23	25	25	25	25	25	23	25	25	0	25
36	23	0	0	23	23	23	23	23	24	26	23	23	23	0	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	13	0	0	0	0	19
20	0	0	0	0	0	0	0	0	8	27	0	0	0	0	36
21	0	0	0	0	0	0	14	34	49	66	0	0	35	0	77
22	0	0	0	0	0	0	17	29	48	69	0	0	36	0	85
23	0	0	0	0	0	0	15	31	48	78	0	0	43	0	88
24	15	0	0	0	0	15	28	44	56	86	0	15	48	0	108
25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	17
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX 3 - 9 SENEGAL - Analyse fréquentielle des principaux termes du bilan hydrique.

SENEGAL - Frequential analysis of main waterbalance parameters.

Stations Pluviométriques faisant l'objet de traitement -

Rainfall stations for which data were processed -

Bakel

Dakar

Kaolack

Kedougou

Kolda

Koungheul

Linguère

Matam

Podor

St. Louis

Tambacounda

Zinguinchor

BAKEL

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	1	4	0	0	0	0	11
15	0	0	0	0	0	0	0	1	3	16	0	0	1	0	21
16	3	0	0	1	2	3	5	9	13	19	0	3	11	0	29
17	14	0	3	8	12	14	18	23	30	39	5	14	24	0	43
18	15	0	4	7	13	15	20	25	29	46	5	15	26	0	56
19	28	4	8	15	21	26	31	39	55	73	12	26	43	0	78
20	37	2	16	26	31	36	44	51	60	87	23	36	54	0	110
21	34	3	12	16	20	34	41	56	79	89	14	34	65	0	101
22	45	7	15	27	36	44	49	59	71	84	20	44	62	0	102
23	59	9	24	39	55	58	71	85	109	139	35	58	90	3	153
24	45	2	21	30	37	44	53	61	97	126	27	44	78	1	145
25	49	12	20	32	43	49	56	65	88	115	25	49	68	4	143
26	28	6	13	19	26	28	32	36	40	55	16	28	37	0	72
27	19	2	5	10	12	18	21	26	43	75	7	18	32	0	103
28	7	0	0	0	4	7	13	22	27	52	0	7	24	0	59
29	0	0	0	0	0	0	2	6	9	18	0	0	7	0	19
30	0	0	0	0	0	0	0	3	12	21	0	0	6	0	29
31	0	0	0	0	0	0	0	0	0	5	0	0	0	0	13
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	1	4	0	0	0	0	11
15	0	0	0	0	0	0	0	1	3	16	0	0	1	0	21
16	3	0	0	1	2	3	5	9	13	19	0	3	11	0	29
17	14	0	3	8	13	14	18	24	31	32	5	14	25	0	32
18	17	0	5	9	14	16	20	28	31	31	7	16	30	0	31
19	31	4	11	16	24	31	36	36	36	36	15	31	36	0	36
20	40	6	25	29	34	38	41	41	41	41	28	38	41	0	41
21	47	9	16	29	38	45	49	49	49	49	26	45	49	3	49
22	49	14	22	35	42	49	50	50	50	50	32	49	50	6	50
23	47	28	35	44	46	47	47	47	47	47	39	47	47	14	47
24	51	14	39	48	49	51	51	51	51	51	45	51	51	5	51
25	46	24	36	41	43	45	47	47	47	47	40	45	47	11	47
26	41	17	24	33	38	40	42	44	46	47	29	40	44	12	47
27	26	4	11	16	21	26	32	41	46	48	14	26	44	2	48
28	23	0	1	6	11	23	26	31	37	45	5	23	32	0	45
29	2	0	0	0	0	2	6	9	14	22	0	2	10	0	33
30	0	0	0	0	0	0	0	4	13	21	0	0	8	0	30
31	0	0	0	0	0	0	0	0	2	9	0	0	0	0	15
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	17	20	20	20	20	20	20	20	20	20	20	20	2	20
2	21	21	21	21	21	21	21	21	21	21	21	21	21	19	21
3	23	22	23	23	23	23	23	23	23	23	23	23	23	20	23
4	21	21	21	21	21	21	21	21	21	21	21	21	21	13	21
5	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
6	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
7	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
8	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
9	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30
12	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32
13	34	31	34	34	34	34	34	34	34	34	34	34	34	15	34
14	36	24	32	36	36	36	36	36	36	36	34	36	36	22	36
15	38	17	31	36	37	38	38	38	38	38	35	38	38	5	38
16	29	4	17	22	27	28	30	31	33	33	21	28	32	0	33
17	17	0	0	6	10	16	18	22	28	32	2	16	24	0	32
18	13	0	0	1	6	12	16	19	24	29	0	12	20	0	31
19	5	0	0	0	0	4	9	17	22	29	0	4	19	0	32
20	1	0	0	0	0	0	6	10	14	27	0	0	11	0	34
21	0	0	0	0	0	0	7	13	24	35	0	0	18	0	39
22	3	2	2	2	2	3	6	15	22	35	2	3	17	2	37
23	2	2	2	2	2	2	2	4	12	20	2	2	7	2	23
24	3	3	3	3	3	3	4	6	12	28	3	3	7	3	40
25	3	2	2	2	2	3	4	6	10	15	2	3	7	2	24
26	8	2	3	4	6	8	12	14	21	29	3	8	16	2	31
27	24	2	2	8	18	24	28	31	36	41	5	24	33	2	45
28	22	0	3	12	15	21	29	39	42	45	10	21	39	0	45
29	38	7	25	31	33	37	41	41	41	41	29	37	41	0	41
30	37	11	20	31	37	37	37	37	37	37	28	37	37	0	37
31	26	10	23	26	26	26	26	26	26	26	26	26	26	0	26
32	20	19	20	20	20	20	20	20	20	20	20	20	20	4	20
33	20	19	20	20	20	20	20	20	20	20	20	20	20	17	20
34	20	20	20	20	20	20	20	20	20	20	20	20	20	14	20
35	20	19	20	20	20	20	20	20	20	20	20	20	20	8	20
36	23	23	23	23	23	23	23	23	23	23	23	23	23	11	23

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	6	23	0	0	0	0	37
21	0	0	0	0	0	0	0	0	7	27	0	0	0	0	34
22	0	0	0	0	0	0	0	0	2	9	0	0	0	0	40
23	0	0	0	0	0	0	7	13	37	75	0	0	18	0	93
24	0	0	0	0	0	0	0	7	28	72	0	0	16	0	97
25	0	0	0	0	0	0	0	0	21	60	0	0	4	0	78
26	0	0	0	0	0	0	0	0	0	3	0	0	0	0	24
27	0	0	0	0	0	0	0	0	0	3	0	0	0	0	32
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DAKAR

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 27 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DFC 6	DEC 7	DEC R	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
16	0	0	0	0	0	0	0	0	1	3	0	0	0	0	4
17	0	0	0	0	0	0	0	1	4	9	0	0	3	0	17
18	2	0	0	0	1	1	3	4	5	12	0	1	4	0	15
19	2	0	0	0	0	1	2	5	40	50	0	1	29	0	57
20	22	0	0	6	13	22	35	39	54	79	1	22	46	0	89
21	27	0	3	13	21	26	31	36	73	84	5	26	59	2	89
22	39	2	9	16	24	33	42	44	69	118	11	33	64	23	150
23	62	1	11	22	35	55	69	82	103	121	12	55	95	38	145
24	82	6	24	43	59	74	89	113	162	192	29	74	151	4	217
25	53	3	22	31	40	50	58	73	96	128	23	50	90	12	160
26	43	4	11	20	33	42	55	57	62	138	15	42	59	15	165
27	25	2	7	13	18	23	30	51	69	93	9	23	63	0	107
28	13	0	0	2	8	12	22	37	64	127	0	12	52	4	141
29	0	0	0	0	0	0	3	7	25	39	0	0	21	0	70
30	0	0	0	0	0	0	0	0	2	5	0	0	0	0	13
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 27 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DFC 6	DEC 7	DEC R	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
16	0	0	0	0	0	0	0	0	1	3	0	0	0	0	4
17	0	0	0	0	0	0	0	1	4	9	0	0	3	0	17
18	2	0	0	0	1	2	3	4	5	12	0	2	4	0	15
19	2	0	0	0	0	2	2	5	31	31	0	2	25	0	31
20	26	0	6	11	16	24	31	31	31	31	9	24	31	0	31
21	34	0	5	19	22	33	40	40	40	40	6	33	40	2	40
22	40	3	12	30	39	40	40	40	40	40	18	40	40	21	40
23	44	2	19	41	44	44	44	44	44	44	31	44	44	22	44
24	58	14	39	57	58	58	58	58	58	58	52	58	58	22	58
25	51	6	32	41	47	50	51	51	51	51	33	50	51	21	51
26	50	13	26	33	39	47	51	51	51	51	29	47	51	21	51
27	35	9	19	24	28	34	41	51	52	52	21	34	52	3	52
28	36	0	1	14	20	34	44	46	49	52	4	34	46	6	52
29	6	0	0	0	0	6	14	26	31	47	0	6	27	0	49
30	0	0	0	0	0	0	0	2	5	23	0	0	4	0	27
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 27 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	20	26	26	26	26	26	26	26	26	26	26	26	22	26
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
4	25	8	25	25	25	25	25	25	25	25	25	25	25	14	25
5	24	24	24	24	24	24	24	24	24	24	24	24	24	23	24
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
8	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
9	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
12	31	30	31	31	31	31	31	31	31	31	31	31	31	30	31
13	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
14	31	30	31	31	31	31	31	31	31	31	31	31	31	30	31
15	34	22	34	34	34	34	34	34	34	34	34	34	34	26	34
16	31	24	27	31	31	31	31	31	31	31	29	31	31	26	31
17	30	3	26	28	29	30	30	30	30	30	26	30	30	10	30
18	28	6	21	25	26	28	29	29	30	30	24	28	30	9	30
19	28	0	0	5	25	28	29	30	31	31	0	28	31	15	31
20	0	0	0	0	0	0	8	16	21	31	0	0	20	6	31
21	4	0	0	0	0	2	11	18	32	36	0	2	26	5	38
22	0	0	0	0	0	0	0	0	16	29	0	0	10	0	33
23	0	0	0	0	0	0	0	0	5	29	0	0	2	0	34
24	3	3	3	3	3	3	3	3	8	34	3	3	5	3	37
25	3	3	3	3	3	3	5	9	17	27	3	3	13	3	37
26	4	3	3	3	3	3	11	19	23	31	3	3	20	3	33
27	20	3	3	3	3	14	24	29	34	41	3	19	32	8	46
28	17	3	3	8	9	15	25	34	46	55	3	15	40	23	55
29	41	0	10	23	24	40	46	51	51	51	16	40	51	25	51
30	50	19	36	44	47	50	50	50	50	50	43	50	50	33	50
31	39	18	39	39	39	39	39	39	39	39	39	39	39	27	39
32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
33	28	28	28	28	28	28	28	28	28	28	28	28	28	26	28
34	28	23	28	26	28	28	28	28	28	28	28	28	28	23	28
35	28	13	28	28	28	28	28	28	28	28	28	28	28	14	28
36	30	15	30	30	30	30	30	30	30	30	30	30	30	15	30

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 27 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	5	0	0	0	0	34
21	0	0	0	0	0	0	0	0	16	41	0	0	3	0	52
22	0	0	0	0	0	0	0	0	5	58	0	0	2	0	90
23	0	0	0	0	0	0	0	17	48	81	0	0	39	1	94
24	10	0	0	0	2	9	33	55	112	136	0	9	94	0	157
25	0	0	0	0	0	0	0	15	38	59	0	0	32	0	91
26	0	0	0	0	0	0	0	0	2	10	74	0	0	6	0	113
27	0	0	0	0	0	0	0	0	0	1	37	0	0	0	0	55
28	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	76
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KAOLACK

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	6	17	0	0	1	0	28
16	0	0	0	0	0	0	2	6	15	38	0	0	8	0	46
17	10	0	0	3	6	10	27	33	43	59	1	10	35	0	67
18	23	0	3	9	14	23	31	36	50	70	7	23	43	0	93
19	24	2	5	10	17	24	32	36	56	85	6	24	40	0	90
20	41	2	11	22	34	41	50	58	72	102	16	41	61	0	111
21	66	21	36	43	56	66	74	98	115	163	36	66	108	7	184
22	69	22	38	46	65	69	79	96	115	154	39	69	105	7	166
23	94	24	43	62	80	94	111	148	172	217	52	94	159	16	230
24	88	28	33	59	79	88	102	118	135	182	40	88	122	20	209
25	78	24	36	47	66	78	90	95	110	173	39	78	101	15	198
26	55	13	24	29	44	55	69	80	92	99	27	55	84	7	143
27	37	3	11	18	29	37	52	60	90	113	13	37	70	0	139
28	30	1	5	12	24	30	37	44	61	71	8	30	47	0	107
29	7	0	0	0	3	7	10	16	26	45	0	7	22	0	63
30	0	0	0	0	0	0	0	6	15	37	0	0	11	0	51
31	0	0	0	0	0	0	0	0	0	5	0	0	0	0	12
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	6	17	0	0	1	0	28
16	1	0	0	0	0	1	3	8	18	36	0	1	9	0	36
17	14	0	0	3	6	14	30	34	35	35	1	14	35	0	35
18	26	1	5	11	18	26	33	33	33	33	9	26	33	0	33
19	35	5	16	25	32	35	37	37	37	37	18	35	37	1	37
20	41	4	20	35	41	41	41	41	41	41	27	41	41	0	41
21	50	21	41	50	50	50	50	50	50	50	45	50	50	7	50
22	50	38	49	50	50	50	50	50	50	50	50	50	50	7	50
23	48	45	47	48	48	48	48	48	48	48	48	48	48	40	48
24	52	50	52	52	52	52	52	52	52	52	52	52	52	39	52
25	48	44	46	48	48	48	48	48	48	48	47	48	48	35	48
26	48	41	44	47	47	48	48	48	48	48	46	48	48	31	48
27	48	33	41	44	47	48	49	50	50	50	42	48	50	23	50
28	44	23	33	37	41	44	48	50	50	50	36	44	50	15	50
29	30	13	20	22	26	30	35	42	44	50	21	30	43	2	50
30	15	3	7	9	11	15	22	26	35	43	9	15	33	0	45
31	7	0	0	1	3	7	9	12	15	19	0	7	14	0	23
32	0	0	0	0	0	0	0	1	3	7	0	0	1	0	10
33	0	0	0	0	0	0	0	0	0	2	0	0	0	0	10
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
35	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	26	26	26	26	26	26	26	26	26	26	26	26	26	23	26
2	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
3	30	30	30	30	30	30	30	30	30	30	30	30	30	25	30
4	28	27	28	28	28	28	28	28	28	28	28	28	28	16	28
5	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28
6	28	28	28	28	28	28	28	28	28	28	28	28	28	26	28
7	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
8	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
9	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
10	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
11	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
12	38	38	38	38	38	38	38	38	38	38	38	38	38	36	38
13	39	39	39	39	39	39	39	39	39	39	39	39	39	37	39
14	40	40	40	40	40	40	40	40	40	40	40	40	40	32	40
15	42	21	33	41	42	42	42	42	42	42	37	42	42	1	42
16	35	0	14	27	32	35	36	36	36	36	21	35	36	0	36
17	20	0	0	0	4	20	26	30	33	35	0	20	31	0	35
18	2	0	0	0	0	2	11	20	25	30	0	2	22	0	32
19	1	0	0	0	0	1	5	10	20	31	0	1	12	0	33
20	0	0	0	0	0	0	0	3	19	34	0	0	8	0	38
21	0	0	0	0	0	0	0	0	5	19	0	0	0	0	30
22	3	3	3	3	3	3	3	3	3	13	3	3	3	2	25
23	2	2	2	2	2	2	2	2	2	4	2	2	2	2	5
24	3	3	3	3	3	3	3	3	3	4	3	3	3	3	5
25	2	2	2	2	2	2	2	2	3	5	2	2	2	2	8
26	2	2	2	2	2	2	2	3	5	9	2	2	3	2	12
27	4	2	2	2	3	4	5	7	10	17	2	4	8	2	23
28	9	3	3	3	4	9	11	15	18	27	3	9	16	2	32
29	18	0	4	7	13	18	23	26	29	35	6	18	28	0	39
30	31	3	11	18	25	31	35	38	40	43	12	31	38	0	44
31	29	16	21	22	27	29	33	35	37	37	22	29	37	4	37
32	31	23	28	30	31	31	31	31	31	31	29	31	31	0	31
33	26	19	26	26	26	26	26	26	26	26	26	26	26	0	26
34	25	24	25	25	25	25	25	25	25	25	25	25	25	8	25
35	25	22	25	25	25	25	25	25	25	25	25	25	25	5	25
36	29	28	29	29	29	29	29	29	29	29	29	29	29	16	29

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	3	0	0	0	0	19
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
21	0	0	0	0	0	0	0	14	33	66	0	0	21	0	100
22	0	0	0	0	0	0	6	19	47	79	0	0	34	0	108
23	17	0	0	0	1	17	29	73	117	161	0	17	92	0	168
24	31	0	0	0	17	31	42	64	78	132	0	31	69	0	148
25	21	0	0	0	9	21	36	40	55	107	0	21	43	0	130
26	3	0	0	0	0	3	18	31	39	47	0	3	33	0	50
27	0	0	0	0	0	0	0	9	33	62	0	0	12	0	79
28	0	0	0	0	0	0	0	0	0	18	0	0	0	0	32
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KEDOUGOU

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
12	0	0	0	0	0	0	0	0	3	10	0	0	1	0	23
13	0	0	0	0	0	0	0	5	12	28	0	0	9	0	37
14	4	0	0	0	2	4	8	11	25	45	0	4	18	0	50
15	16	0	2	9	11	15	22	26	40	51	6	15	35	0	63
16	43	0	24	31	36	42	51	60	71	87	28	42	67	0	146
17	62	25	29	39	46	60	70	74	88	98	34	60	82	2	118
18	65	18	36	45	51	63	76	80	103	121	40	63	90	10	124
19	72	20	34	52	64	71	76	81	91	111	45	71	86	11	120
20	74	27	48	57	61	73	84	98	130	167	51	73	119	23	176
21	93	36	61	78	84	92	105	118	144	159	72	92	129	31	172
22	88	24	39	57	67	88	102	112	133	223	44	88	117	16	241
23	110	35	64	83	94	109	124	133	147	162	74	109	144	23	173
24	98	45	62	81	85	97	127	136	157	181	71	97	143	33	207
25	112	56	78	89	100	109	121	136	149	181	80	109	141	43	202
26	109	35	65	80	97	108	116	123	149	201	69	108	144	28	217
27	65	27	44	48	57	64	78	86	122	151	45	64	106	18	170
28	55	15	22	29	35	52	65	76	104	152	25	52	89	4	177
29	30	0	9	17	23	29	39	53	68	85	12	29	63	0	111
30	10	0	0	0	3	9	15	26	36	57	0	9	32	0	87
31	0	0	0	0	0	0	4	11	17	59	0	0	15	0	64
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	5	0	0	0	0	8
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
12	0	0	0	0	0	0	0	0	3	10	0	0	1	0	23
13	0	0	0	0	0	0	0	5	12	28	0	0	9	0	31
14	6	0	0	1	3	5	8	16	30	32	0	5	25	0	32
15	16	0	4	9	11	15	28	32	33	33	6	15	33	0	33
16	34	6	28	32	34	34	34	34	34	34	30	34	34	0	34
17	37	30	37	37	37	37	37	37	37	37	37	37	37	6	37
18	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
19	43	42	43	43	43	43	43	43	43	43	43	43	43	40	43
20	40	39	39	40	40	40	40	40	40	40	40	40	40	38	40
21	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
22	35	35	35	35	35	35	35	35	35	35	35	35	35	34	35
23	34	33	34	34	34	34	34	34	34	34	34	34	34	32	34
24	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
25	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
26	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
27	42	42	42	42	42	42	42	42	42	42	42	42	42	41	42
28	43	41	42	42	43	43	43	43	43	43	42	43	43	40	43
29	43	34	39	40	41	43	44	44	44	44	39	43	44	32	44
30	40	22	29	37	38	40	41	43	46	47	32	40	44	16	47
31	28	9	19	23	25	28	31	33	37	40	20	28	35	2	40
32	13	0	3	6	8	12	16	19	25	30	4	12	22	0	34
33	0	0	0	0	0	0	3	5	9	19	0	0	8	0	23
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	20	23
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	28	28	28	28	28	28	28	28	28	28	28	28	28	28
4	25	24	25	25	25	25	25	25	25	25	25	25	21	25
5	25	25	25	25	25	25	25	25	25	25	25	25	21	25
6	24	24	24	24	24	24	24	24	24	24	24	24	24	24
7	30	30	30	30	30	30	30	30	30	30	30	30	24	30
8	31	31	31	31	31	31	31	31	31	31	31	31	31	31
9	35	35	35	35	35	35	35	35	35	35	35	35	33	35
10	32	29	32	32	32	32	32	32	32	32	32	32	22	32
11	33	28	33	33	33	33	33	33	33	33	33	33	13	33
12	32	8	27	31	32	32	32	32	32	32	29	32	32	0	32
13	32	1	17	24	28	32	32	32	32	32	19	32	32	0	32
14	25	0	0	10	19	24	28	30	32	32	1	24	31	0	32
15	11	0	0	0	2	10	19	22	28	33	0	10	25	0	33
16	0	0	0	0	0	0	0	0	4	17	0	0	3	0	27
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
20	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28	2	2	2	2	2	2	2	2	3	4	2	2	3	2	4
29	3	2	2	2	2	2	4	5	7	9	2	2	6	2	12
30	9	2	3	6	8	9	10	11	16	23	4	9	13	2	27
31	11	0	2	5	8	11	15	16	18	28	2	11	17	0	30
32	22	1	9	14	17	21	26	27	30	35	10	21	28	0	35
33	30	8	18	22	25	30	30	30	30	30	21	30	30	0	30
34	24	20	24	24	24	24	24	24	24	24	24	24	24	4	24
35	20	17	20	20	20	20	20	20	20	20	20	20	20	2	20
36	24	24	24	24	24	24	24	24	24	24	24	24	24	16	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 47 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
17	0	0	0	0	0	0	0	0	4	36	0	0	0	0	39
18	0	0	0	0	0	0	3	16	40	61	0	0	29	0	69
19	15	0	0	0	0	14	24	30	41	56	0	14	35	0	74
20	21	0	0	0	5	20	36	54	86	115	0	20	76	0	122
21	48	0	10	33	41	48	57	73	91	118	22	48	80	0	129
22	41	0	0	15	25	39	53	66	91	181	2	39	75	0	199
23	73	0	28	42	53	70	85	97	110	126	33	70	105	0	137
24	63	10	27	46	49	62	92	102	122	147	32	62	109	3	173
25	72	16	38	49	60	69	81	94	109	141	39	69	100	7	162
26	69	0	26	40	57	68	73	84	109	161	30	68	104	0	178
27	23	0	2	6	14	22	30	42	80	109	3	22	64	0	129
28	6	0	0	0	0	5	20	31	61	109	0	5	46	0	135
29	0	0	0	0	0	0	0	1	24	41	0	0	12	0	68
30	0	0	0	0	0	0	0	0	0	11	0	0	0	0	23
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KOLDA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	0	1	7	0	0	0	0	12
15	2	0	0	0	0	2	3	7	19	29	0	2	14	0	50
16	21	0	3	7	13	21	27	32	43	53	5	21	38	0	73
17	45	1	10	21	27	45	51	55	78	103	19	45	66	0	121
18	53	11	26	34	49	53	56	74	85	106	31	53	79	3	144
19	61	12	26	38	50	61	67	71	81	108	32	61	79	4	133
20	66	14	35	44	55	66	73	87	99	141	39	66	95	7	155
21	94	48	62	75	86	94	104	121	145	200	73	94	129	36	237
22	99	29	48	67	81	99	134	150	165	233	57	99	160	10	257
23	124	39	68	85	106	124	138	162	179	259	80	124	174	25	274
24	123	51	81	88	102	123	136	150	179	196	86	123	161	32	210
25	110	48	70	84	97	110	125	136	156	190	73	110	144	34	221
26	100	35	55	58	75	100	106	123	136	151	56	100	132	11	186
27	70	24	37	49	61	70	80	89	105	126	41	70	98	3	161
28	60	11	26	35	46	60	70	77	91	114	34	60	84	7	126
29	31	0	5	16	24	31	35	46	68	80	9	31	58	0	119
30	11	0	0	0	4	11	13	21	39	49	0	11	27	0	74
31	0	0	0	0	0	0	0	0	10	30	0	0	3	0	39
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	0	1	7	0	0	1	0	12
15	2	0	0	0	0	2	3	8	19	29	0	2	14	0	32
16	23	0	3	10	18	23	27	27	27	27	6	23	27	0	27
17	31	4	17	22	31	31	31	31	31	31	21	31	31	1	31
18	34	33	34	34	34	34	34	34	34	34	34	34	34	27	34
19	37	33	37	37	37	37	37	37	37	37	37	37	37	27	37
20	42	40	41	42	42	42	42	42	42	42	42	42	42	38	42
21	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
22	40	39	40	40	40	40	40	40	40	40	40	40	40	36	40
23	39	39	39	39	39	39	39	39	39	39	39	39	39	37	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
26	40	39	40	40	40	40	40	40	40	40	40	40	40	37	40
27	41	40	40	41	41	41	41	41	41	41	41	41	41	37	41
28	41	38	39	40	41	41	41	41	41	41	40	41	41	36	41
29	41	36	38	39	40	41	41	41	41	41	38	41	41	32	41
30	40	25	32	37	39	40	42	43	44	45	36	40	43	18	45
31	27	9	17	23	25	27	28	30	36	37	23	27	34	2	38
32	12	0	1	7	9	12	14	16	26	29	6	12	22	0	31
33	0	0	0	0	0	0	0	2	10	17	0	0	8	0	19
34	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	16	20
2	21	21	21	21	21	21	21	21	21	21	21	21	21	20	21
3	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
4	22	22	22	22	22	22	22	22	22	22	22	22	22	16	22
5	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
8	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
9	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
12	30	30	30	30	30	30	30	30	30	30	30	30	30	18	30
13	30	24	30	30	30	30	30	30	30	30	30	30	30	6	30
14	31	18	27	30	31	31	31	31	31	31	29	31	31	8	31
15	30	0	8	18	27	30	31	32	32	32	15	30	32	0	32
16	3	0	0	0	0	3	7	14	21	27	0	3	19	0	27
17	0	0	0	0	0	0	0	5	11	24	0	0	9	0	27
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
20	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
28	1	1	1	1	1	1	1	1	2	3	1	1	2	1	4
29	2	2	2	2	2	2	3	4	5	5	2	2	4	2	7
30	7	2	3	4	5	7	8	9	12	19	4	7	10	2	22
31	10	0	1	5	8	10	11	14	15	26	3	10	14	0	29
32	21	2	7	14	18	21	23	26	28	34	10	21	27	0	34
33	29	9	17	22	29	29	29	29	29	29	19	29	29	3	29
34	25	22	25	25	25	25	25	25	25	25	25	25	25	13	25
35	20	20	20	20	20	20	20	20	20	20	20	20	20	12	20
36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 48 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
18	0	0	0	0	0	0	0	0	17	27	0	0	8	0	37
19	0	0	0	0	0	0	0	6	21	44	0	0	15	0	67
20	11	0	0	0	0	11	16	33	45	73	0	11	37	0	89
21	43	0	2	18	32	43	55	70	102	157	11	43	81	0	193
22	51	0	1	16	33	51	84	98	119	187	8	51	110	0	211
23	77	0	27	45	61	77	91	122	138	203	40	77	133	0	231
24	84	4	42	49	63	84	97	111	135	156	46	84	121	0	171
25	67	6	27	41	55	67	82	93	113	147	30	67	101	1	175
26	60	0	14	18	35	60	64	83	96	111	16	60	92	0	146
27	29	0	0	8	19	29	35	48	64	78	2	29	57	0	121
28	18	0	0	0	4	18	25	35	50	73	0	18	43	0	85
29	0	0	0	0	0	0	0	0	21	39	0	0	5	0	69
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

KOUNGHEUL

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
15	0	0	0	0	0	0	0	1	6	16	0	0	3	0	41
16	14	0	0	0	2	10	24	31	45	67	0	10	37	20	99
17	27	0	1	7	14	24	47	59	68	86	4	24	64	17	105
18	27	1	9	15	20	26	34	38	55	78	11	26	42	18	126
19	44	8	18	26	37	43	49	52	69	90	22	43	62	10	106
20	37	0	17	24	33	36	49	61	73	92	19	36	63	25	118
21	65	29	38	45	53	63	71	83	116	175	40	63	95	16	234
22	64	24	34	38	47	61	76	96	111	141	36	61	100	24	178
23	73	28	39	61	64	72	81	92	130	184	51	72	111	42	229
24	110	16	50	67	83	107	124	128	139	168	55	107	130	57	197
25	79	23	42	52	69	78	86	96	120	160	46	78	102	26	191
26	60	12	29	40	43	54	70	74	84	112	34	54	80	21	139
27	35	7	13	20	27	35	40	54	64	95	18	35	58	5	175
28	37	0	6	13	23	31	40	47	65	73	10	31	63	0	98
29	15	0	0	2	7	13	20	26	52	78	1	13	38	0	91
30	2	0	0	0	0	2	9	16	30	36	0	2	25	0	72
31	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
15	0	0	0	0	0	0	0	1	6	16	0	0	3	0	31
16	20	0	0	0	3	18	26	31	32	32	0	18	32	16	32
17	30	0	6	15	23	30	30	30	30	30	11	30	30	15	30
18	34	9	21	28	34	34	34	34	34	34	25	34	34	17	34
19	38	18	37	38	38	38	38	38	38	38	38	38	38	20	38
20	42	18	32	42	42	42	42	42	42	42	41	42	42	23	42
21	52	41	49	52	52	52	52	52	52	52	52	52	52	41	52
22	47	41	44	46	46	47	47	47	47	47	45	47	47	29	47
23	45	42	44	45	45	45	45	45	45	45	45	45	45	38	45
24	49	44	49	49	49	49	49	49	49	49	49	49	49	37	49
25	44	42	44	44	44	44	44	44	44	44	44	44	44	38	44
26	44	40	43	44	44	44	44	44	44	44	43	44	44	39	44
27	45	38	41	43	44	45	45	45	45	45	41	45	45	34	45
28	44	27	33	39	42	44	45	46	46	46	37	44	46	22	46
29	39	13	19	29	35	38	41	44	46	47	25	38	46	11	47
30	29	3	10	16	22	29	36	40	42	47	12	29	42	6	48
31	12	0	0	2	8	12	17	21	25	33	1	12	24	0	37
32	0	0	0	0	0	0	1	5	8	19	0	0	7	0	26
33	0	0	0	0	0	0	0	0	0	5	0	0	0	0	9
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25
2	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25
3	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29
4	26	22	26	26	26	26	26	26	26	26	26	26	26	21	26
5	26	26	26	26	26	26	26	26	26	26	26	26	26	25	26
6	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
7	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31
8	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
9	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
10	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
11	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
12	35	33	35	35	35	35	35	35	35	35	35	35	35	30	35
13	36	35	36	36	36	36	36	36	36	36	36	36	36	34	36
14	37	22	36	37	37	37	37	37	37	37	37	37	37	18	37
15	39	7	31	36	38	39	39	39	39	39	35	39	39	12	39
16	11	0	0	0	2	10	21	30	32	32	0	10	32	0	32
17	0	0	0	0	0	0	0	10	18	28	0	0	14	0	30
18	0	0	0	0	0	0	0	0	9	21	0	0	5	0	24
19	0	0	0	0	0	0	0	0	0	12	0	0	0	0	18
20	0	0	0	0	0	0	0	0	0	15	0	0	0	0	23
21	3	3	3	3	3	3	3	3	3	10	3	3	3	3	13
22	2	2	2	2	2	2	2	3	4	6	2	2	3	2	14
23	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
24	2	2	2	2	2	2	2	2	2	3	2	2	2	2	7
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
26	2	2	2	2	2	2	2	2	3	5	2	2	2	2	5
27	2	2	2	2	2	2	3	3	6	6	2	2	4	2	8
28	4	2	2	2	3	3	5	7	12	20	2	3	9	2	21
29	9	2	2	3	6	8	12	17	27	32	2	8	21	6	37
30	16	0	1	5	9	15	21	31	35	41	5	15	33	13	44
31	22	0	8	13	17	21	27	33	37	37	11	21	35	14	37
32	32	5	19	24	28	32	32	32	32	32	22	32	32	16	32
33	27	17	26	27	27	27	27	27	27	27	26	27	27	19	27
34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
35	23	22	23	23	23	23	23	23	23	23	23	23	23	18	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 37 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
18	0	0	0	0	0	0	0	0	0	16	0	0	0	0	64
19	0	0	0	0	0	0	0	0	0	8	0	0	0	0	28
20	0	0	0	0	0	0	0	0	1	14	0	0	0	0	23
21	0	0	0	0	0	0	3	18	39	98	0	0	28	0	175
22	0	0	0	0	0	0	4	14	42	69	0	0	21	0	108
23	18	0	0	0	3	14	21	28	76	110	0	14	52	0	164
24	56	0	2	14	29	55	62	76	91	120	9	55	82	32	150
25	28	0	0	0	16	24	33	46	70	95	0	24	52	0	125
26	7	0	0	0	0	5	22	28	39	51	0	5	33	0	86
27	0	0	0	0	0	0	0	1	11	33	0	0	6	0	130
28	0	0	0	0	0	0	0	0	18	27	0	0	6	0	36
29	0	0	0	0	0	0	0	0	0	15	0	0	0	0	34
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LINGUERE

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 40 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
16	0	0	0	0	0	0	1	6	13	19	0	0	11	0	25
17	2	0	0	0	1	2	5	14	17	41	0	2	16	0	54
18	4	0	0	0	1	4	7	12	19	28	0	4	15	0	30
19	17	0	0	4	11	17	21	32	36	51	0	17	34	0	55
20	20	0	4	8	11	20	30	38	49	63	7	20	46	0	70
21	41	6	13	21	37	41	49	56	68	77	14	41	62	0	80
22	30	9	14	19	27	30	38	60	71	107	16	30	65	4	109
23	57	2	11	30	44	57	66	77	96	132	21	57	83	0	158
24	57	14	34	43	52	57	63	72	102	127	38	57	85	7	143
25	43	11	23	33	38	43	61	73	81	97	27	43	76	4	103
26	26	2	9	15	24	26	39	48	60	80	10	26	56	0	83
27	28	0	5	14	21	28	36	53	64	83	9	28	57	0	94
28	7	0	0	2	4	7	13	26	40	77	1	7	31	0	99
29	0	0	0	0	0	0	0	2	20	26	0	0	18	0	28
30	0	0	0	0	0	0	0	4	16	54	0	0	10	0	59
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 40 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
16	0	0	0	0	0	0	1	6	13	20	0	0	11	0	25
17	2	0	0	1	1	2	6	14	18	32	0	2	16	0	33
18	5	0	0	0	1	5	11	18	24	32	0	5	21	0	32
19	18	0	0	7	11	18	23	31	31	31	1	18	31	0	31
20	26	2	7	12	16	26	30	30	30	30	8	26	30	0	30
21	37	11	27	37	37	37	37	37	37	37	36	37	37	2	37
22	37	21	29	36	37	37	37	37	37	37	31	37	37	11	37
23	39	5	28	39	39	39	39	39	39	39	36	39	39	0	39
24	51	39	43	51	51	51	51	51	51	51	47	51	51	32	51
25	46	29	36	42	45	46	47	47	47	47	39	46	47	23	47
26	41	18	23	32	38	41	45	47	47	47	26	41	47	12	47
27	37	10	15	24	31	37	44	47	48	49	22	37	48	2	49
28	29	0	2	8	21	29	33	36	40	48	4	29	38	0	48
29	1	0	0	0	0	1	6	21	28	31	0	1	25	0	33
30	0	0	0	0	0	0	1	6	16	41	0	0	13	0	41
31	0	0	0	0	0	0	0	0	0	12	0	0	0	0	20
32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 40 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	24	24	24	24	24	24	24	24	24	24	24	24	24	22	24
2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3	29	29	29	29	29	29	29	29	29	29	29	29	29	24	29
4	27	27	27	27	27	27	27	27	27	27	27	27	27	5	27
5	28	27	28	28	28	28	28	28	28	28	28	28	28	22	28
6	27	27	27	27	27	27	27	27	27	27	27	27	27	26	27
7	31	31	31	31	31	31	31	31	31	31	31	31	31	15	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	27	33
9	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
11	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
12	34	34	34	34	34	34	34	34	34	34	34	34	34	31	34
13	35	31	35	35	35	35	35	35	35	35	35	35	35	26	35
14	35	35	35	35	35	35	35	35	35	35	35	35	35	29	35
15	39	35	38	39	39	39	39	39	39	39	39	39	39	12	39
16	34	8	19	24	33	34	34	34	34	34	21	34	34	1	34
17	30	0	12	17	26	30	31	32	33	33	16	30	32	0	33
18	25	0	4	12	21	25	30	32	32	32	9	25	32	0	32
19	10	0	0	0	6	10	18	22	30	31	0	10	26	0	31
20	0	0	0	0	0	0	11	15	21	26	0	0	19	0	27
21	0	0	0	0	0	0	0	0	9	24	0	0	0	0	26
22	0	0	0	0	0	0	0	0	6	10	0	0	4	0	14
23	0	0	0	0	0	0	0	0	3	32	0	0	1	0	33
24	3	3	3	3	3	3	3	3	9	13	3	3	4	3	14
25	3	2	2	2	2	3	3	6	10	18	2	3	8	2	22
26	7	2	2	2	3	7	10	17	25	31	2	7	23	2	34
27	10	2	2	3	7	10	19	23	32	39	3	10	28	2	40
28	18	0	7	12	14	18	26	38	45	48	8	18	43	0	48
29	43	11	14	21	32	43	44	44	44	44	16	43	44	0	44
30	41	0	13	32	40	41	41	41	41	41	25	41	41	0	41
31	31	10	26	31	31	31	31	31	31	31	31	31	31	0	31
32	25	21	25	25	25	25	25	25	25	25	25	25	25	8	25
33	24	20	24	24	24	24	24	24	24	24	24	24	24	4	24
34	24	24	24	24	24	24	24	24	24	24	24	24	24	20	24
35	23	14	23	23	23	23	23	23	23	23	23	23	23	3	23
36	26	26	26	26	26	26	26	26	26	26	26	26	26	22	26

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 40 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	3	20	0	0	0	0	28
22	0	0	0	0	0	0	0	0	19	42	0	0	8	0	44
23	0	0	0	0	0	0	7	19	43	95	0	0	33	0	99
24	12	0	0	0	0	12	20	31	62	80	0	12	45	0	87
25	0	0	0	0	0	0	0	6	24	45	0	0	15	0	81
26	0	0	0	0	0	0	0	0	0	22	0	0	0	0	38
27	0	0	0	0	0	0	0	0	0	12	0	0	0	0	34
28	0	0	0	0	0	0	0	0	0	6	0	0	0	0	19
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MATAM

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
16	0	0	0	0	0	0	2	3	4	25	0	0	3	0	37
17	5	0	0	1	3	5	10	15	26	46	1	5	20	0	71
18	7	0	0	2	4	7	14	28	32	42	1	7	30	0	51
19	28	0	7	16	21	28	35	46	57	75	12	28	47	0	101
20	27	0	5	6	15	27	31	39	77	91	5	27	63	0	111
21	27	0	1	14	23	27	37	56	66	94	13	27	62	0	121
22	39	4	16	20	31	39	48	61	79	130	19	39	69	0	152
23	53	0	17	27	42	53	60	76	107	139	20	53	91	0	153
24	52	4	19	33	45	52	62	73	109	138	26	52	79	0	154
25	34	4	11	21	29	34	41	55	64	90	13	34	59	1	96
26	31	4	13	17	23	31	36	48	54	63	16	31	50	1	67
27	20	0	2	8	13	20	27	36	44	60	6	20	39	0	95
28	5	0	0	0	0	5	9	14	21	42	0	5	16	0	49
29	0	0	0	0	0	0	0	5	12	25	0	0	8	0	37
30	0	0	0	0	0	0	0	0	0	19	0	0	0	0	35
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
16	1	0	0	0	0	1	2	3	4	25	0	1	4	0	35
17	6	0	0	1	3	6	10	15	26	35	1	6	20	0	35
18	13	0	1	3	5	13	21	33	35	35	2	13	35	0	35
19	33	1	8	19	22	33	33	33	33	33	13	33	33	0	33
20	39	6	15	29	37	39	39	39	39	39	22	39	39	1	39
21	47	4	20	30	40	47	48	48	48	48	25	47	48	0	48
22	47	8	23	30	46	47	47	47	47	47	26	47	47	3	47
23	52	8	29	41	49	52	52	52	52	52	39	52	52	0	52
24	56	18	35	45	54	56	56	56	56	56	41	56	56	8	57
25	44	11	25	31	39	44	46	50	50	50	29	44	50	9	50
26	39	9	20	29	36	39	41	45	48	49	26	39	47	6	49
27	32	0	6	16	23	32	39	41	46	50	8	32	44	0	50
28	11	0	0	2	6	11	15	27	37	43	0	11	32	0	47
29	0	0	0	0	0	0	3	12	18	33	0	0	15	0	37
30	0	0	0	0	0	0	0	0	0	25	0	0	0	0	34
31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	20	20	20	20	20	20	20	20	20	20	20	20	20	19	20
2	20	20	20	20	20	20	20	20	20	20	20	20	20	13	20
3	24	24	24	24	24	24	24	24	24	24	24	24	24	22	24
4	23	20	23	23	23	23	23	23	23	23	23	23	23	2	23
5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	27	27	27	27	27	27	27	27	27	27	27	27	27	24	27
8	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
9	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32
10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
11	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
12	33	33	33	33	33	33	33	33	33	33	33	33	33	15	33
13	36	33	36	36	36	36	36	36	36	36	36	36	36	15	36
14	40	39	40	40	40	40	40	40	40	40	40	40	40	29	40
15	42	35	41	42	42	42	42	42	42	42	41	42	42	29	42
16	35	1	26	33	34	35	37	37	37	37	32	35	37	0	37
17	28	0	2	14	23	28	30	33	34	35	11	28	34	0	35
18	20	0	0	0	5	20	27	31	32	35	0	20	31	0	35
19	0	0	0	0	0	0	10	13	23	29	0	0	15	0	31
20	0	0	0	0	0	0	0	7	17	27	0	0	10	0	32
21	0	0	0	0	0	0	6	16	24	41	0	0	19	0	44
22	0	0	0	0	0	0	0	14	22	35	0	0	16	0	39
23	3	3	3	3	3	3	4	12	15	36	3	3	13	3	46
24	3	3	3	3	3	3	4	10	18	33	3	3	14	3	41
25	7	2	2	2	5	7	11	19	22	39	2	7	20	2	41
26	11	2	2	4	8	11	13	18	25	38	3	11	22	2	42
27	18	2	4	8	13	18	22	34	43	50	6	18	36	2	52
28	35	0	9	17	27	35	40	43	48	48	12	35	45	0	48
29	43	6	18	28	38	43	43	43	43	43	24	43	43	0	43
30	39	5	37	39	39	39	39	39	39	39	39	39	39	0	39
31	28	24	28	28	28	28	28	28	28	28	28	28	28	9	28
32	21	19	21	21	21	21	21	21	21	21	21	21	21	13	21
33	20	17	20	20	20	20	20	20	20	20	20	20	20	11	20
34	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
35	18	14	18	18	18	18	18	18	18	18	18	18	18	0	18
36	21	21	21	21	21	21	21	21	21	21	21	21	21	9	21

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 46 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	11	0	0	0	0	24
20	0	0	0	0	0	0	0	0	1	17	0	0	0	0	31
21	0	0	0	0	0	0	0	0	10	35	0	0	1	0	53
22	0	0	0	0	0	0	0	0	13	65	0	0	5	0	88
23	0	0	0	0	0	0	1	20	41	64	0	0	30	0	84
24	0	0	0	0	0	0	0	7	39	69	0	0	14	0	83
25	0	0	0	0	0	0	0	0	2	12	0	0	0	0	38
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
27	0	0	0	0	0	0	0	0	0	2	0	0	0	0	15
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PODOR

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	0	4	0	0	0	0	6
16	0	0	0	0	0	0	0	0	3	6	0	0	0	0	10
17	0	0	0	0	0	0	0	0	6	16	0	0	1	0	22
18	1	0	0	0	0	1	4	9	13	26	0	1	10	0	40
19	4	0	0	0	0	4	6	12	17	40	0	4	14	0	53
20	9	0	0	1	3	9	14	23	25	47	0	9	24	0	56
21	18	0	1	6	10	17	23	28	41	62	4	17	33	0	83
22	15	0	3	8	11	14	22	34	48	76	6	14	41	0	99
23	27	0	6	11	21	27	34	49	70	98	9	27	54	0	106
24	42	3	14	19	30	41	45	52	69	103	16	41	59	0	128
25	24	0	4	9	14	22	29	37	60	108	7	22	43	0	125
26	20	0	3	5	10	20	25	37	44	58	4	20	39	0	65
27	6	0	0	0	2	5	13	18	28	52	0	5	21	0	60
28	3	0	0	0	0	2	8	12	25	45	0	2	19	-5	48
29	0	0	0	0	0	0	0	0	1	19	0	0	0	-5	27
30	0	0	0	0	0	0	0	0	0	7	0	0	0	-5	22
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	0	4	0	0	0	0	6
16	0	0	0	0	0	0	0	0	3	6	0	0	1	0	10
17	0	0	0	0	0	0	0	0	6	16	0	0	1	0	22
18	1	0	0	0	0	1	4	9	13	26	0	1	11	0	36
19	4	0	0	0	0	4	6	12	17	36	0	4	14	0	36
20	9	0	0	1	3	9	19	24	35	35	0	9	25	0	35
21	22	0	2	8	15	21	28	37	45	45	5	21	41	0	45
22	22	0	4	11	15	22	30	43	46	46	6	22	44	0	46
23	31	0	6	12	25	31	48	50	50	50	11	31	50	0	50
24	47	7	15	28	36	46	53	63	63	63	24	46	63	1	63
25	26	1	8	15	19	25	35	44	54	56	13	25	47	0	56
26	25	0	5	9	20	24	32	39	48	52	6	24	40	0	52
27	12	0	0	0	5	11	16	21	33	46	0	11	26	0	46
28	8	0	0	0	2	8	14	23	33	41	0	8	25	0	41
29	0	0	0	0	0	0	0	0	6	25	0	0	2	0	35
30	0	0	0	0	0	0	0	0	0	8	0	0	0	0	26
31	0	0	0	0	0	0	0	0	0	3	0	0	0	0	16
32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	10	22
2	22	19	22	22	22	22	22	22	22	22	22	22	22	7	22
3	26	22	26	26	26	26	26	26	26	26	26	26	26	11	26
4	25	10	25	25	25	25	25	25	25	25	25	25	25	0	25
5	26	22	26	26	26	26	26	26	26	26	26	26	26	7	26
6	26	25	26	26	26	26	26	26	26	26	26	26	26	10	26
7	31	30	31	31	31	31	31	31	31	31	31	31	31	2	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	16	33
9	37	37	37	37	37	37	37	37	37	37	37	37	37	18	37
10	33	33	33	33	33	33	33	33	33	33	33	33	33	16	33
11	33	33	33	33	33	33	33	33	33	33	33	33	33	15	33
12	35	35	35	35	35	35	35	35	35	35	35	35	35	17	35
13	38	38	38	38	38	38	38	38	38	38	38	38	38	12	38
14	40	36	40	40	40	40	40	40	40	40	40	40	40	17	40
15	43	29	43	43	43	43	43	43	43	43	43	43	43	8	43
16	40	29	35	38	40	40	40	40	40	40	37	40	40	16	40
17	39	16	31	37	39	39	39	39	39	39	33	39	39	8	39
18	36	1	21	28	33	36	38	38	38	38	25	36	38	0	38
19	32	0	14	22	28	31	34	36	36	36	20	31	36	0	36
20	26	0	0	9	15	25	31	33	35	35	0	25	34	0	35
21	20	0	0	3	12	20	27	35	41	45	0	20	37	0	45
22	22	0	0	0	4	21	26	33	39	43	0	21	36	0	45
23	8	0	0	0	0	6	23	36	43	48	0	6	37	0	49
24	19	3	3	3	6	18	24	36	49	56	3	18	38	1	62
25	30	3	3	11	21	28	35	42	47	55	7	28	44	1	58
26	25	0	0	9	13	24	29	37	46	49	3	24	43	0	51
27	34	0	0	19	28	34	39	44	46	46	12	34	46	0	46
28	32	0	2	13	22	31	37	40	41	41	8	31	41	0	41
29	35	0	23	31	35	35	35	35	35	35	29	35	35	0	35
30	30	4	25	30	30	30	30	30	30	30	30	30	30	0	30
31	25	9	25	25	25	25	25	25	25	25	25	25	25	0	25
32	23	16	23	23	23	23	23	23	23	23	23	23	23	2	23
33	23	22	23	23	23	23	23	23	23	23	23	23	23	19	23
34	22	22	22	22	22	22	22	22	22	22	22	22	22	19	22
35	21	19	21	21	21	21	21	21	21	21	21	21	21	4	21
36	24	24	24	24	24	24	24	24	24	24	24	24	24	14	24

VARIABLE : DRAINAGE EN MM — EFFECTIF DE L ECHANTILLON 49 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
22	0	0	0	0	0	0	0	0	0	16	0	0	0	0	31
23	0	0	0	0	0	0	0	0	4	24	0	0	0	0	27
24	0	0	0	0	0	0	0	0	3	39	0	0	0	0	49
25	0	0	0	0	0	0	0	0	0	28	0	0	0	0	47
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ST.LOUIS

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
16	0	0	0	0	0	0	0	1	1	8	0	0	1	0	15
17	0	0	0	0	0	0	0	0	1	15	0	0	0	0	32
18	0	0	0	0	0	0	0	3	16	29	0	0	6	0	36
19	2	0	0	0	0	2	5	11	22	39	0	2	14	0	47
20	9	0	0	1	3	9	14	22	28	38	0	9	25	0	58
21	18	0	4	7	10	18	25	31	46	58	5	18	34	0	60
22	32	0	4	13	24	32	42	62	68	107	8	32	67	0	124
23	43	2	5	15	34	43	53	58	81	126	9	43	73	0	166
24	51	4	27	34	42	51	76	101	125	159	30	51	112	1	172
25	28	2	13	19	25	28	43	56	71	112	16	28	59	0	144
26	19	0	4	10	14	19	27	35	45	81	7	19	39	0	92
27	20	0	3	9	13	20	34	43	51	78	4	20	48	0	99
28	5	0	0	1	3	5	10	18	24	38	0	5	21	0	47
29	0	0	0	0	0	0	0	3	6	21	0	0	4	0	58
30	0	0	0	0	0	0	0	0	0	4	0	0	0	0	12
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
16	0	0	0	0	0	0	0	1	1	9	0	0	1	0	15
17	0	0	0	0	0	0	0	0	2	21	0	0	0	0	28
18	0	0	0	0	0	0	0	6	17	28	0	0	11	0	29
19	4	0	0	0	1	4	8	16	29	30	0	4	18	0	30
20	14	0	0	2	7	14	18	27	30	30	0	14	28	0	30
21	22	0	5	9	14	22	28	38	39	39	7	22	39	0	39
22	37	2	11	19	26	37	41	41	41	41	14	37	41	0	41
23	45	3	12	40	45	45	45	45	45	45	30	45	45	0	45
24	58	24	38	46	55	58	58	58	58	58	40	58	58	2	58
25	44	10	21	25	40	44	47	52	52	52	22	44	52	0	52
26	34	3	12	17	28	34	37	41	48	51	14	34	42	0	51
27	30	1	5	13	16	30	36	44	47	49	7	30	45	0	49
28	13	0	1	4	6	13	21	28	34	42	3	13	30	0	44
29	0	0	0	0	0	0	1	5	16	29	0	0	7	0	39
30	0	0	0	0	0	0	0	0	2	19	0	0	0	0	28
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	4	0	0	0	0	9
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
36	0	0	0	0	0	0	0	0	0	3	0	0	0	0	13

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	24	24	24	24	24	24	24	24	24	24	24	24	24	9	24
2	25	17	25	25	25	25	25	25	25	25	25	25	25	8	25
3	27	27	27	27	27	27	27	27	27	27	27	27	27	25	27
4	25	23	25	25	25	25	25	25	25	25	25	25	25	20	25
5	25	24	25	25	25	25	25	25	25	25	25	25	25	12	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	12	25
7	30	30	30	30	30	30	30	30	30	30	30	30	30	24	30
8	32	32	32	32	32	32	32	32	32	32	32	32	32	21	32
9	35	34	35	35	35	35	35	35	35	35	35	35	35	32	35
10	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
11	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
12	30	30	30	30	30	30	30	30	30	30	30	30	30	27	30
13	30	30	30	30	30	30	30	30	30	30	30	30	30	26	30
14	30	30	30	30	30	30	30	30	30	30	30	30	30	24	30
15	32	28	32	32	32	32	32	32	32	32	32	32	32	13	32
16	29	16	26	28	29	29	29	29	29	29	27	29	29	3	29
17	28	1	25	28	28	28	28	28	28	28	26	28	28	0	28
18	29	0	11	22	29	29	29	29	29	29	14	29	29	0	29
19	25	0	0	13	22	25	28	30	30	30	7	25	30	0	30
20	15	0	0	3	12	15	23	28	30	30	1	15	29	0	30
21	16	0	0	0	10	16	24	29	32	39	0	16	29	0	39
22	0	0	0	0	0	0	15	21	28	36	0	0	24	0	41
23	0	0	0	0	0	0	0	4	26	40	0	0	9	0	42
24	3	3	3	3	3	3	5	12	22	37	3	3	16	3	52
25	11	3	3	3	7	11	14	29	33	40	3	11	31	3	50
26	20	3	5	12	17	20	25	36	41	51	7	20	39	3	53
27	15	0	0	4	11	15	31	36	43	45	2	15	38	0	49
28	28	0	6	14	21	28	36	39	41	44	12	28	40	0	44
29	39	2	21	31	36	39	39	39	39	39	26	39	39	0	39
30	35	14	31	35	35	35	35	35	35	35	33	35	35	0	35
31	26	20	26	26	26	26	26	26	26	26	26	26	26	1	26
32	25	25	25	25	25	25	25	25	25	25	25	25	25	13	25
33	25	23	25	25	25	25	25	25	25	25	25	25	25	17	25
34	24	17	24	24	24	24	24	24	24	24	24	24	24	3	24
35	23	22	23	23	23	23	23	23	23	23	23	23	23	0	23
36	26	19	26	26	26	26	26	26	26	26	26	26	26	6	26

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	3	36	0	0	0	0	50
23	0	0	0	0	0	0	0	6	19	53	0	0	7	0	95
24	0	0	0	0	0	0	6	42	61	91	0	0	50	0	113
25	0	0	0	0	0	0	0	0	10	48	0	0	0	0	79
26	0	0	0	0	0	0	0	0	0	7	0	0	0	0	26
27	0	0	0	0	0	0	0	0	0	10	0	0	0	0	39
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAMBACOUNDA

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	11
13	0	0	0	0	0	0	0	0	1	8	0	0	0	0	10
14	0	0	0	0	0	0	0	0	3	11	0	0	1	0	20
15	3	0	0	0	0	3	5	12	22	35	0	3	15	0	49
16	16	0	1	4	9	16	25	39	51	62	2	16	42	0	91
17	33	3	10	18	26	33	45	56	72	91	13	33	61	0	100
18	40	10	19	26	35	40	50	61	74	90	24	40	64	0	102
19	46	4	18	27	39	46	56	62	80	100	23	46	72	0	114
20	46	8	18	33	40	46	58	77	97	120	24	46	86	0	124
21	66	13	38	44	57	66	79	89	108	135	40	66	93	0	156
22	67	21	38	47	58	67	82	100	121	173	41	67	114	0	204
23	79	23	43	54	66	79	95	105	128	156	50	79	115	0	177
24	83	19	38	54	66	83	91	107	134	178	45	83	116	0	196
25	80	17	42	55	70	80	103	121	134	168	51	80	126	0	184
26	52	8	23	39	45	52	66	79	88	128	29	52	81	0	143
27	50	7	22	36	42	50	58	66	92	110	24	50	74	0	118
28	31	0	4	14	22	31	38	50	62	99	8	31	53	0	125
29	12	0	0	0	6	12	15	24	38	55	0	12	30	0	61
30	1	0	0	0	0	1	3	6	15	27	0	1	6	0	37
31	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	1	0	0	0	0	11
13	0	0	0	0	0	0	0	0	2	8	0	0	0	0	10
14	0	0	0	0	0	0	0	0	4	15	0	0	1	0	30
15	4	0	0	0	0	4	6	13	22	33	0	4	17	0	35
16	18	0	1	5	11	18	25	29	29	29	2	18	29	0	29
17	32	3	18	22	29	32	32	32	32	32	18	32	32	0	32
18	35	15	25	35	35	35	35	35	35	35	30	35	35	0	35
19	39	23	39	39	39	39	39	39	39	39	39	39	39	0	39
20	43	28	40	42	43	43	43	43	43	43	41	43	43	0	43
21	45	40	44	45	45	45	45	45	45	45	45	45	45	0	45
22	41	37	39	41	41	41	41	41	41	41	40	41	41	0	41
23	39	36	38	39	39	39	39	39	39	39	39	39	39	0	39
24	43	38	43	43	43	43	43	43	43	43	43	43	43	0	43
25	40	37	39	40	40	40	40	40	40	40	40	40	40	0	40
26	41	38	39	40	41	41	41	41	41	41	40	41	41	0	41
27	42	36	40	42	42	42	42	42	42	42	40	42	42	0	42
28	42	26	39	40	41	42	42	43	43	43	39	42	43	0	43
29	39	14	28	32	35	39	41	43	44	45	29	39	43	0	45
30	29	3	12	18	26	29	33	35	39	44	15	29	37	0	46
31	15	0	0	4	11	15	16	18	22	26	2	15	20	0	31
32	0	0	0	0	0	0	2	3	6	10	0	0	4	0	15
33	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DEFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	23	23	23	23	23	23	23	23	23	23	23	23	23	0	23
2	24	24	24	24	24	24	24	24	24	24	24	24	24	0	24
3	27	27	27	27	27	27	27	27	27	27	27	27	27	0	27
4	25	18	25	25	25	25	25	25	25	25	25	25	25	0	25
5	25	25	25	25	25	25	25	25	25	25	25	25	25	0	25
6	25	25	25	25	25	25	25	25	25	25	25	25	25	0	25
7	31	30	31	31	31	31	31	31	31	31	31	31	31	0	31
8	33	33	33	33	33	33	33	33	33	33	33	33	33	0	33
9	37	37	37	37	37	37	37	37	37	37	37	37	37	0	37
10	33	33	33	33	33	33	33	33	33	33	33	33	33	0	33
11	33	30	33	33	33	33	33	33	33	33	33	33	33	0	33
12	33	13	33	33	33	33	33	33	33	33	33	33	33	0	33
13	34	19	30	33	34	34	34	34	34	34	31	34	34	0	34
14	35	0	27	31	35	35	35	35	35	35	29	35	35	0	35
15	30	0	6	15	24	30	32	35	35	35	9	30	35	0	35
16	5	0	0	0	0	5	14	19	26	29	0	5	22	0	29
17	0	0	0	0	0	0	0	5	13	21	0	0	8	0	25
18	0	0	0	0	0	0	0	0	2	14	0	0	0	0	19
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
20	2	2	2	2	2	2	2	2	3	5	2	2	2	0	10
21	2	2	2	2	2	2	2	2	2	5	2	2	2	0	6
22	1	1	1	1	1	1	1	1	2	3	1	1	1	0	4
23	1	1	1	1	1	1	1	1	1	2	1	1	1	0	2
24	2	2	2	2	2	2	2	2	2	3	2	2	2	0	5
25	1	1	1	1	1	1	1	1	1	2	1	1	1	0	3
26	1	1	1	1	1	1	1	1	2	3	1	1	2	0	3
27	2	2	2	2	2	2	2	2	2	6	2	2	2	0	8
28	3	2	2	2	2	3	4	5	6	7	2	3	5	0	12
29	7	2	3	3	5	7	9	13	17	21	3	7	14	0	24
30	15	0	3	9	12	15	18	25	29	37	5	15	27	0	41
31	22	2	12	17	20	22	25	28	34	38	14	22	31	0	38
32	32	13	23	28	30	32	33	33	33	33	25	32	33	0	33
33	28	24	28	28	28	28	28	28	28	28	28	28	28	0	28
34	22	22	22	22	22	22	22	22	22	22	22	22	22	0	22
35	22	22	22	22	22	22	22	22	22	22	22	22	22	0	22
36	25	25	25	25	25	25	25	25	25	25	25	25	25	0	25

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DFC 6	DFC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
18	0	0	0	0	0	0	0	0	1	15	0	0	0	0	32
19	0	0	0	0	0	0	0	0	0	13	0	0	0	0	22
20	0	0	0	0	0	0	0	10	40	53	0	0	20	0	59
21	1	0	0	0	0	1	14	27	46	64	0	1	36	0	74
22	14	0	0	0	5	14	24	51	75	115	0	14	56	0	150
23	28	0	0	5	14	28	36	63	87	114	2	28	67	0	116
24	42	0	0	15	27	42	52	68	95	139	6	42	73	0	157
25	34	0	0	10	22	34	55	77	87	108	2	34	82	0	140
26	9	0	0	0	1	9	19	33	43	87	0	9	39	0	103
27	3	0	0	0	0	3	13	24	51	65	0	3	28	0	75
28	0	0	0	0	0	0	0	2	19	50	0	0	8	0	74
29	0	0	0	0	0	0	0	0	0	4	0	0	0	0	15
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ZIGUINCHOR

VARIABLE : PLUIE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
15	0	0	0	0	0	0	1	4	8	19	0	0	5	0	28
16	11	0	0	2	6	11	16	28	33	46	0	11	31	0	63
17	33	3	13	19	25	33	38	47	59	83	15	33	49	1	107
18	45	7	17	33	40	45	60	80	87	115	26	45	82	1	133
19	71	20	31	51	65	71	80	90	108	138	36	71	100	15	142
20	99	49	62	72	89	99	117	123	153	161	69	99	138	26	196
21	149	67	84	109	127	149	174	210	225	276	92	149	215	44	309
22	164	67	89	106	143	164	180	202	225	290	94	164	210	55	342
23	189	68	108	143	171	189	200	244	286	319	117	189	255	30	344
24	149	65	74	104	134	149	181	206	252	291	79	149	227	42	301
25	119	50	81	94	106	119	138	152	175	256	90	119	160	31	292
26	103	48	81	90	96	103	111	122	162	192	85	103	149	36	218
27	88	35	45	58	74	88	102	117	134	170	49	88	122	15	184
28	60	6	33	40	50	60	77	96	132	156	35	60	107	4	181
29	33	2	14	20	27	33	44	50	68	94	16	33	51	0	114
30	14	0	3	6	10	14	19	26	33	45	4	14	29	0	58
31	0	0	0	0	0	0	0	2	10	18	0	0	4	0	23
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : EVAPOTRANSPIRATION REELLE EN MM — EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
15	0	0	0	0	0	0	1	4	8	19	0	0	5	0	28
16	11	0	0	2	7	11	16	28	29	29	1	11	29	0	29
17	32	7	15	22	32	32	32	32	32	32	19	32	32	2	32
18	35	16	31	35	35	35	35	35	35	35	34	35	35	9	35
19	38	31	38	38	38	38	38	38	38	38	38	38	38	15	38
20	42	42	42	42	42	42	42	42	42	42	42	42	42	36	42
21	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
22	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
23	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39
24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
25	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
26	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40
27	41	40	41	41	41	41	41	41	41	41	41	41	41	38	41
28	42	39	42	42	42	42	42	42	42	42	42	42	42	38	42
29	43	38	39	41	42	43	43	43	43	43	39	43	43	33	43
30	42	28	36	37	39	42	44	45	47	47	36	42	45	27	47
31	28	11	19	21	25	28	31	32	36	38	19	28	34	10	40
32	12	0	3	6	8	12	16	18	21	25	3	12	20	0	26
33	0	0	0	0	0	0	1	4	6	13	0	0	4	0	17
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VARIABLE : DFFICIT ETM-ETR EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	22	22	22	22	22	22	22	22	22	22	22	22	22	10	22
2	23	23	23	23	23	23	23	23	23	23	23	23	23	16	23
3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4	23	22	23	23	23	23	23	23	23	23	23	23	23	11	23
5	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
6	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
7	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
8	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
9	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
10	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
11	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
12	34	34	34	34	34	34	34	34	34	34	34	34	34	33	34
13	35	32	35	35	35	35	35	35	35	35	35	35	35	18	35
14	35	32	35	35	35	35	35	35	35	35	35	35	35	19	35
15	35	16	26	30	34	35	35	35	35	35	28	35	35	1	35
16	16	0	0	0	11	16	21	25	28	29	0	16	26	0	29
17	0	0	0	0	0	0	0	9	15	24	0	0	11	0	28
18	0	0	0	0	0	0	0	0	1	15	0	0	0	0	20
19	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
28	2	2	2	2	2	2	2	2	2	3	2	2	2	2	5
29	2	2	2	2	2	2	3	3	6	6	2	2	4	2	7
30	7	2	3	4	6	7	10	12	14	21	4	7	13	2	22
31	13	2	6	8	10	13	15	20	22	28	6	13	21	0	30
32	24	11	15	18	20	24	27	31	34	37	16	24	32	2	37
33	32	17	25	27	30	32	32	32	32	32	26	32	32	8	32
34	27	26	27	27	27	27	27	27	27	27	27	27	27	20	27
35	22	22	22	22	22	22	22	22	22	22	22	22	22	10	22
36	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25

VARIABLE : DRAINAGE EN MM EFFECTIF DE L ECHANTILLON 50 ANNEES

PERIODE	MEDIANE	DEC 1	DEC 2	DEC 3	DEC 4	DEC 5	DEC 6	DEC 7	DEC 8	DEC 9	QUA 1	QUA 2	QUA 3	VIN 1	VIN 19
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	5	31	0	0	0	0	44
19	0	0	0	0	0	0	12	21	44	70	0	0	27	0	92
20	37	0	0	0	26	37	57	81	115	120	0	37	88	0	132
21	93	2	37	61	80	93	126	151	170	231	41	93	163	0	266
22	113	22	39	57	97	113	134	156	174	244	47	113	164	9	297
23	149	28	68	103	130	149	160	204	246	279	77	149	215	0	304
24	109	26	35	65	94	109	142	167	213	252	40	109	188	0	262
25	76	7	38	51	63	76	94	109	132	213	47	76	117	1	249
26	63	8	41	50	56	63	71	81	113	151	44	63	108	0	178
27	48	0	3	18	34	48	62	77	94	130	8	48	82	0	144
28	17	0	0	0	8	17	32	55	87	114	0	17	66	0	140
29	0	0	0	0	0	0	0	7	24	48	0	0	9	0	71
30	0	0	0	0	0	0	0	0	0	1	0	0	0	0	11
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANNEXE DU CHAPITRE 4

APPENDIX TO CHAPTER 4

STATIONS HYDROMETRIQUES ET DONNEES HYDROLOGIQUES

GAUGING STATIONS AND HYDROLOGIC DATA

Bassin - Basin

Chari

Logone

Niger

Volta

Sénégal - Senegal

Gambie - Gambia

GAUGING STATION/STATION DE JAUGEAGE.... AM TIMAN
RIVER/COURS D EAU..... BAHR AZOUM
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 80000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	0.0	0.0	8.8	266.0	214.0	25.2	0.2	0.0	0.0	0.0	0.0	0.0	42.8
1954-55	0.0	0.0	38.2	298.0	216.0	57.3	4.6	0.0	0.0	0.0	0.0	0.0	51.1
1955-56	0.0	0.0	0.0	134.0	181.0	59.6	0.3	0.0	0.0	0.0	0.0	0.0	31.2
1956-57	0.0	0.0	28.8	264.0	258.0	40.9	1.6	0.0	0.0	0.0	0.0	0.0	49.4
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	0.0	0.0	0.0	148.0	282.0	58.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6
1960-61	0.0	0.0	22.2	86.2	69.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	15.0
1961-62	0.0	0.0	51.3	256.0	199.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	42.9
1962-63	0.0	0.0	0.0	128.0	205.0	40.7	0.3	0.0	0.0	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	143.0	119.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	22.2
1964-65	0.0	0.0	7.9	228.0	182.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	35.5
1965-66	-1.0	-1.0	-1.0	49.1	74.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	0.0	0.0	0.0	45.0	240.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	0.0	0.0	10.1	131.0	66.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	17.3
1969-70	0.0	0.0	0.0	142.0	189.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	28.6
1970-71	-1.0	-1.0	-1.0	305.0	340.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
1971-72	-1.0	-1.0	-1.0	195.0	160.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
1972-73	0.0	0.0	1.3	57.0	23.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	6.8
1973-74	-1.0	-1.0	-1.0	142.0	27.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1974-75	0.0	0.0	20.0	261.0	168.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8
1975-76	0.0	0.0	1.4	199.0	243.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
AVG/MOYEN	0.0	0.0	11.9	173.8	172.8	21.0	0.3	0.0	0.0	0.0	0.0	0.0	31.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... AM TIMAN
RIVER/COURS D EAU..... BAHR AZOUM
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 80000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	42.8	1351.3	17.	0.54	324.0	4.1	0.0
1954-55	51.1	1613.8	20.	0.64	321.0	4.0	0.0
1955-56	31.2	985.2	12.	0.39	251.0	3.1	0.0
1956-57	49.4	1559.1	19.	0.62	289.0	3.6	0.0
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	----	----	----	----	-1.0	-1.0	
1959-60	40.6	1282.4	16.	0.51	291.0	3.6	0.0
1960-61	15.0	475.9	6.	0.19	169.0	2.1	0.0
1961-62	42.9	1355.2	17.	0.54	274.0	3.4	0.0
1962-63	31.1	982.8	12.	0.39	239.0	3.0	0.0
1963-64	22.2	702.9	9.	0.28	251.0	3.1	0.0
1964-65	35.5	1122.1	14.	0.44	252.0	3.2	0.0
1965-66	----	----	----	----	171.0	2.1	0.0
1966-67	----	----	----	----	175.0	2.2	0.0
1967-68	----	----	----	----	265.0	3.3	
1968-69	17.3	545.8	7.	0.22	183.0	2.3	0.0
1969-70	28.6	902.7	11.	0.36	314.0	3.9	0.0
1970-71	----	----	----	----	410.0	5.1	0.0
1971-72	----	----	----	----	346.0	4.3	0.0
1972-73	6.8	217.3	3.	0.09	199.0	2.5	0.0
1973-74	----	----	----	----	229.0	2.9	0.0
1974-75	38.8	1224.6	15.	0.49	267.0	3.3	0.0
1975-76	38.3	1209.9	15.	0.48	269.0	3.4	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BAMINGUI
RIVER/COURS D EAU..... BAMINGUI
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4380.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	0.5	1.0	5.2	22.0	40.2	77.2	24.7	7.2	3.3	1.5	0.6	0.3	15.3
1953-54	0.6	2.3	11.0	16.0	76.7	80.0	40.5	12.0	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	1.4	6.0	6.1	29.1	52.5	99.7	37.4	10.8	4.8	3.1	2.0	1.3	21.1
1955-56	1.7	3.8	13.8	34.1	121.0	125.0	63.8	14.3	7.4	4.6	5.2	3.2	33.1
1956-57	1.6	3.2	11.1	42.5	69.3	97.6	28.1	9.8	3.1	1.7	1.0	1.4	22.5
1957-58	1.8	4.8	18.2	38.6	46.4	50.6	-1.0	-1.0	7.7	5.0	3.1	2.7	-1.0
1958-59	4.0	17.2	40.2	34.6	64.3	60.8	33.5	17.5	11.5	8.4	6.9	6.6	25.4
1959-60	10.1	11.4	8.2	17.2	31.7	41.6	28.7	11.9	6.6	5.0	4.0	3.5	14.9
1960-61	6.5	6.3	19.6	37.6	137.0	140.0	82.7	26.3	13.0	7.4	6.0	4.4	40.5
1961-62	4.2	6.1	17.1	32.4	85.0	147.0	68.4	24.4	14.5	10.8	9.2	7.7	35.5
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	-1.0	-1.0	-1.0	25.0	38.9	105.0	51.7	17.9	10.0	5.0	2.0	1.8	-1.0
1966-67	4.3	9.4	18.7	59.0	99.3	91.4	44.6	11.7	7.8	5.3	4.1	3.4	29.9
1967-68	-1.0	2.8	9.6	20.0	48.5	49.9	31.0	10.4	4.9	2.5	1.3	1.2	-1.0
1968-69	2.2	4.9	9.0	17.0	25.1	18.0	11.3	4.5	1.8	1.0	0.8	0.6	8.0
1969-70	0.9	2.6	4.8	17.2	27.3	24.5	11.6	3.2	1.5	0.7	0.5	2.6	8.1
1970-71	2.2	2.0	11.1	37.0	82.4	42.6	11.4	3.6	1.4	0.6	0.5	0.5	16.2
1971-72	0.5	1.1	4.5	17.5	48.4	76.9	26.7	5.9	2.2	0.9	0.5	0.6	15.4
1972-73	0.8	2.8	7.1	26.1	27.0	28.2	24.5	5.9	2.3	0.9	0.4	-1.0	-1.0
AVG/MOYEN	2.7	5.1	12.6	29.0	62.2	75.3	36.5	11.6	6.1	3.7	2.8	2.6	20.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BAMINGUI
RIVER/COURS D EAU..... BAMINGUI
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4380.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	15.3	482.9	110.	3.50	102.0	23.3	0.2
1953-54	----	----	----	----	102.0	23.3	
1954-55	21.1	668.0	153.	4.84	120.0	27.4	1.1
1955-56	33.1	1045.8	239.	7.57	149.0	34.0	1.0
1956-57	22.5	710.7	162.	5.15	123.0	28.1	0.7
1957-58	----	----	----	----	57.2	13.1	2.4
1958-59	25.4	802.8	183.	5.81	82.6	18.9	5.9
1959-60	14.9	472.7	108.	3.42	45.9	10.5	2.4
1960-61	40.5	1279.5	292.	9.26	185.0	42.2	
1961-62	35.5	1121.6	256.	8.12	182.0	41.6	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	----	----	----	----	128.0	29.2	0.9
1966-67	29.9	943.4	215.	6.83	107.0	24.4	
1967-68	----	----	----	----	76.5	17.5	0.6
1968-69	8.0	252.8	58.	1.83	31.1	7.1	0.6
1969-70	8.1	256.1	58.	1.85	43.2	9.9	
1970-71	16.2	513.3	117.	3.72	96.1	21.9	
1971-72	15.4	488.0	111.	3.53	81.3	18.6	
1972-73	----	----	----	----	37.2	8.5	

GAUGING STATION/STATION DE JAUGEAGE.... BATANGAFO
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 44700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	80.0	90.3	131.0	664.0	809.0	926.0	467.0	194.0	120.0	89.9	64.9	63.9	308.3
1952-53	82.5	94.5	207.0	662.0	1010.0	818.0	480.0	216.0	132.0	97.1	94.1	75.6	330.7
1953-54	77.3	82.3	278.0	356.0	644.0	635.0	273.0	126.0	61.6	47.2	46.2	43.0	222.4
1954-55	54.2	163.0	333.0	487.0	1010.0	1210.0	687.0	286.0	158.0	84.6	75.0	104.0	387.6
1955-56	126.0	218.0	566.0	875.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	100.0	168.0	396.0	759.0	1100.0	1220.0	524.0	283.0	186.0	143.0	112.0	142.0	427.7
1957-58	172.0	211.0	292.0	638.0	906.0	663.0	514.0	256.0	150.0	109.0	88.1	94.6	341.1
1958-59	79.0	106.0	263.0	-1.0	-1.0	-1.0	-1.0	200.0	125.0	73.3	44.2	54.0	-1.0
1959-60	106.0	87.4	306.0	745.0	1400.0	1160.0	578.0	302.0	198.0	128.0	84.9	82.2	431.4
1960-61	99.7	98.8	310.0	624.0	982.0	1270.0	742.0	330.0	220.0	142.0	89.4	46.0	412.8
1961-62	40.5	109.0	395.0	986.0	-1.0	1370.0	763.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	77.1	54.3	-1.0
1965-66	58.0	80.2	189.0	631.0	780.0	659.0	365.0	125.0	80.0	50.0	38.3	36.8	257.6
1966-67	73.7	128.0	264.0	605.0	940.0	638.0	432.0	181.0	116.0	78.8	49.8	34.6	295.0
AVG/MOYEN	88.3	125.8	302.3	669.3	958.1	960.8	529.5	227.1	140.6	94.8	71.9	69.2	353.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BATANGAFO
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 44700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	308.3	9723.5	218.	6.90	-1.0	-1.0	51.1
1952-53	330.7	10430.0	233.	7.40	-1.0	-1.0	52.8
1953-54	222.4	7015.7	157.	4.98	840.0	18.8	35.1
1954-55	387.6	12224.9	273.	8.67	-1.0	-1.0	
1955-56	----	----	----	----	-1.0	-1.0	
1956-57	427.7	13489.5	302.	9.57	1690.0	37.8	94.0
1957-58	341.1	10758.2	241.	7.63	1020.0	22.8	60.6
1958-59	----	----	----	----	-1.0	-1.0	34.6
1959-60	431.4	13606.4	304.	9.65	-1.0	-1.0	70.8
1960-61	412.8	13018.8	291.	9.24	1570.0	35.1	25.0
1961-62	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	257.6	8126.5	182.	5.76	876.0	19.6	30.3
1966-67	295.0	9305.4	208.	6.60	1100.0	24.6	26.3

GAUGING STATION/STATION DE JAUGEAGE.... BOSSANGOA
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 22800.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	79.3	71.8	120.0	535.0	520.0	578.0	250.0	124.0	86.5	66.6	40.3	52.4	210.3
1952-53	61.2	61.6	158.0	625.0	834.0	546.0	279.0	149.0	91.8	69.0	45.6	36.3	246.3
1953-54	46.3	73.1	185.0	515.0	616.0	460.0	211.0	119.0	75.5	63.5	52.1	38.1	204.5
1954-55	54.8	122.0	246.0	383.0	776.0	839.0	368.0	167.0	106.0	80.9	56.6	57.9	271.4
1955-56	85.0	106.0	317.0	688.0	1110.0	1100.0	367.0	208.0	150.0	116.0	117.0	85.0	370.7
1956-57	73.9	145.0	241.0	479.0	683.0	940.0	314.0	188.0	142.0	96.1	68.4	64.9	286.2
1957-58	117.0	190.0	257.0	378.0	541.0	450.0	251.0	151.0	100.0	66.4	51.6	48.7	216.8
1958-59	56.7	70.4	-1.0	342.0	427.0	367.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	284.0	-1.0	1110.0	966.0	361.0	184.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	-1.0	539.0	662.0	860.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	118.0	-1.0
1962-63	143.0	145.0	263.0	381.0	1110.0	1090.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	778.0	519.0	542.0	215.0	115.0	113.0	124.0	133.0	145.0	-1.0
1964-65	104.0	143.0	274.0	445.0	683.0	518.0	258.0	159.0	94.4	56.7	39.3	29.8	233.6
1965-66	37.2	72.2	182.0	504.0	579.0	458.0	247.0	83.6	54.4	38.9	24.8	45.7	193.8
1966-67	61.0	87.2	215.0	461.0	589.0	342.0	213.0	102.0	65.2	41.4	29.8	22.0	185.7
1967-68	66.0	85.0	232.0	458.0	760.0	581.0	237.0	111.0	68.1	41.4	30.1	26.6	224.6
1968-69	33.5	70.1	262.0	773.0	555.0	642.0	298.0	128.0	89.6	58.3	88.8	55.6	254.4
1969-70	79.3	69.8	270.0	837.0	682.0	539.0	302.0	140.0	97.6	61.6	45.8	37.6	263.4
1970-71	64.9	48.1	280.0	620.0	758.0	559.0	252.0	116.0	78.8	49.3	33.2	33.0	241.0
1971-72	27.0	36.0	141.0	393.0	983.0	494.0	164.0	98.0	56.0	32.0	23.0	27.0	206.1
1972-73	34.0	115.0	120.0	-1.0	346.0	350.0	128.0	60.0	37.0	22.0	19.0	-1.0	-1.0
AVG/MOYEN	68.0	95.0	224.8	533.3	706.8	629.5	261.9	133.4	88.5	63.7	52.8	54.3	242.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOSSANGOA
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 22800.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	210.3	6632.8	291.	9.22	797.0	35.0	
1952-53	246.3	7769.6	341.	10.81	1050.0	46.1	
1953-54	204.5	6450.6	283.	8.97	943.0	41.4	
1954-55	271.4	8559.9	375.	11.90	1300.0	57.0	
1955-56	370.7	11691.9	513.	16.26	2450.0	107.5	
1956-57	286.2	9027.9	396.	12.56	1170.0	51.3	
1957-58	216.8	6837.2	300.	9.51	559.0	24.5	
1958-59	----	----	----	----	481.0	21.1	
1959-60	----	----	----	----	1410.0	61.8	
1960-61	----	----	----	----	1120.0	49.1	
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	----	----	----	----	1670.0	73.2	
1963-64	----	----	----	----	1160.0	50.9	
1964-65	233.6	7369.4	323.	10.25	876.0	38.4	
1965-66	193.8	6114.8	268.	8.50	768.0	33.7	
1966-67	185.7	5856.7	257.	8.15	721.0	31.6	
1967-68	224.6	7085.6	311.	9.85	995.0	43.6	
1968-69	254.4	8025.6	352.	11.16	957.0	42.0	
1969-70	263.4	8308.9	364.	11.56	-1.0	-1.0	
1970-71	241.0	7600.9	333.	10.57	1070.0	46.9	
1971-72	206.1	6501.6	285.	9.04	1417.0	62.1	
1972-73	----	----	----	----	487.0	21.4	

GAUGING STATION/STATION DE JAUGEAGE.... BOUCA
RIVER/COURS D EAU..... FAFA
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6750.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1958-59	-1.0	15.4	25.2	39.7	72.4	67.6	35.1	21.0	13.6	9.8	7.7	8.3	-1.0
1959-60	18.4	17.6	16.7	48.7	90.2	109.0	60.9	33.0	20.6	13.0	8.2	10.1	37.2
1960-61	15.0	15.7	55.5	78.9	121.0	156.0	131.0	76.7	44.7	24.3	10.4	12.5	61.8
1961-62	12.3	12.7	79.3	106.0	-1.0	-1.0	105.0	65.5	48.8	29.9	31.6	38.5	-1.0
1962-63	25.2	41.8	49.2	99.3	134.0	150.0	99.8	62.5	40.5	27.0	27.8	17.1	64.5
1963-64	23.0	30.8	62.0	110.0	135.0	128.0	66.8	42.2	23.5	14.1	12.6	17.0	55.5
1964-65	25.1	37.0	59.7	92.8	96.3	122.0	105.0	74.5	40.7	24.3	18.0	16.1	59.2
1965-66	11.3	17.1	24.8	75.5	81.1	91.7	46.4	29.7	21.1	13.1	9.4	12.7	36.1
1966-67	20.2	34.4	50.6	70.3	131.0	108.0	77.3	45.4	32.7	22.9	15.5	10.9	51.5
1967-68	11.4	14.3	28.2	69.9	111.0	160.0	78.5	42.1	30.1	20.5	17.9	15.1	49.9
1968-69	15.1	26.9	41.0	70.6	95.1	79.2	76.2	45.6	31.4	23.4	26.4	17.6	45.8
1969-70	15.1	13.8	26.4	48.6	65.5	66.1	46.0	27.5	19.4	12.6	10.2	8.4	29.9
1970-71	9.4	11.9	25.5	53.9	65.0	87.8	73.2	33.4	22.4	14.7	10.4	10.9	34.8
1971-72	7.5	9.7	29.0	54.0	89.6	64.4	31.2	22.2	13.5	9.5	7.7	7.7	28.8
1972-73	7.3	9.4	11.5	19.7	41.7	42.1	27.0	12.7	10.6	7.9	6.5	7.0	16.9
AVG/MOYEN	15.4	20.7	38.9	69.1	94.9	102.2	70.7	42.2	27.5	17.8	14.6	13.9	44.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOUCA
RIVER/COURS D EAU..... FAFA
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6750.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1958-59	----	----	----	----	95.6	14.2	
1959-60	37.2	1173.2	174.	5.51	145.0	21.5	
1960-61	61.8	1949.1	289.	9.16	169.0	25.0	
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	64.5	2034.5	301.	9.56	173.0	25.6	
1963-64	55.5	1752.8	260.	8.23	174.0	25.8	
1964-65	59.2	1869.8	277.	8.78	133.0	19.7	
1965-66	36.1	1140.3	169.	5.36	123.0	18.2	
1966-67	51.5	1627.2	241.	7.64	149.0	22.1	
1967-68	49.9	1574.1	233.	7.40	217.0	32.1	
1968-69	45.8	1446.7	214.	6.80	116.0	17.2	
1969-70	29.9	945.0	140.	4.44	83.6	12.4	
1970-71	34.8	1099.8	163.	5.17	147.0	21.8	
1971-72	28.8	909.5	135.	4.27	117.0	17.3	
1972-73	16.9	534.6	79.	2.51	57.6	8.5	

GAUGING STATION/STATION DE JAUGEAGE.... BOUSSO
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 450000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1936-37	-1.0	-1.0	-1.0	779.0	2220.0	3220.0	2380.0	1200.0	-1.0	-1.0	-1.0	-1.0	-1.0
1938-39	70.3	-1.0	179.0	784.0	2390.0	3370.0	2390.0	1080.0	450.0	260.0	169.0	157.0	-1.0
1939-40	-1.0	-1.0	204.0	615.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1940-41	58.7	-1.0	-1.0	-1.0	1250.0	1400.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	-1.0	-1.0	819.0	1870.0	2410.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1953-54	140.0	160.0	300.0	907.0	1820.0	2630.0	2130.0	1130.0	480.0	245.0	155.0	110.0	850.5
1954-55	116.0	144.0	454.0	968.0	2030.0	3120.0	2910.0	1530.0	757.0	432.0	251.0	189.0	1075.0
1955-56	203.0	237.0	545.0	1280.0	2400.0	3460.0	2910.0	1660.0	819.0	466.0	352.0	266.0	1216.5
1956-57	186.0	223.0	458.0	1170.0	2130.0	2940.0	2610.0	1310.0	698.0	386.0	250.0	227.0	1049.0
1957-58	191.0	336.0	422.0	947.0	1660.0	1790.0	1590.0	999.0	496.0	282.0	199.0	161.0	756.0
1958-59	169.0	170.0	393.0	834.0	1720.0	1910.0	1640.0	907.0	485.0	264.0	188.0	146.0	735.5
1959-60	182.0	191.0	272.0	972.0	1850.0	2760.0	2300.0	1130.0	602.0	338.0	240.0	203.0	920.0
1960-61	203.0	202.0	383.0	902.0	1760.0	2410.0	2750.0	1650.0	634.0	457.0	273.0	219.0	986.9
1961-62	205.0	176.0	440.0	1260.0	2360.0	3700.0	2990.0	1510.0	796.0	482.0	307.0	272.0	1208.1
1962-63	279.0	271.0	498.0	877.0	2070.0	3350.0	2960.0	1660.0	910.0	543.0	302.0	208.0	1160.6
1963-64	245.0	265.0	328.0	1380.0	2380.0	2270.0	1600.0	870.0	485.0	263.0	175.0	140.0	866.7
1964-65	150.0	145.0	292.0	848.0	1190.0	2780.0	2410.0	1400.0	685.0	341.0	217.0	162.0	885.0
1965-66	140.0	137.0	230.0	753.0	1570.0	1690.0	1360.0	557.0	261.0	185.0	126.0	92.4	591.7
1966-67	124.0	198.0	327.0	848.0	1800.0	2150.0	1590.0	916.0	414.0	242.0	170.0	123.0	741.8
1967-68	103.0	101.0	240.0	729.0	1840.0	2560.0	2250.0	-1.0	407.0	271.0	186.0	138.0	-1.0
1968-69	157.0	170.0	363.0	1220.0	1730.0	1850.0	1380.0	718.0	342.0	225.0	187.0	165.0	708.9
1969-70	124.0	150.0	259.0	990.0	1600.0	1800.0	1430.0	733.0	337.0	195.0	133.0	103.0	654.5
1970-71	94.6	111.0	142.0	851.0	1801.0	2540.0	1820.0	767.0	350.0	199.0	111.0	96.5	740.2
1971-72	69.5	62.3	150.0	634.0	1860.0	2330.0	1550.0	601.0	270.0	160.0	85.9	53.6	652.1
1972-73	56.1	97.1	189.0	413.0	-1.0	-1.0	519.0	289.0	-1.0	-1.0	-1.0	30.0	-1.0
1973-74	34.8	46.4	95.8	460.0	1160.0	1310.0	678.0	322.0	162.0	67.9	36.9	30.5	367.0
1974-75	33.0	43.5	150.0	700.0	1910.0	2310.0	1730.0	753.0	327.0	179.0	108.0	90.0	694.4
AVG/MOYEN	138.9	165.2	304.7	882.3	1854.8	2482.4	1994.8	1030.0	507.5	294.6	191.9	147.0	832.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOUSSO
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 450000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1936-37	----	----	----	----	3330.0	7.4	
1938-39	----	----	----	----	3490.0	7.8	
1939-40	----	----	----	----	1480.0	3.3	
1940-41	----	----	----	----	-1.0	-1.0	
1952-53	----	----	----	----	2520.0	5.6	
1953-54	850.5	26823.9	60.	1.89	2810.0	6.2	
1954-55	1075.0	33903.8	75.	2.39	3370.0	7.5	171.0
1955-56	1216.5	38363.5	85.	2.70	3770.0	8.4	155.0
1956-57	1049.0	33081.2	74.	2.33	3260.0	7.2	171.0
1957-58	756.0	23843.8	53.	1.68	1870.0	4.2	143.0
1958-59	735.5	23194.7	52.	1.63	1940.0	4.3	139.0
1959-60	920.0	29013.1	64.	2.04	2880.0	6.4	192.0
1960-61	986.9	31123.4	69.	2.19	2870.0	6.4	163.0
1961-62	1208.1	38100.7	85.	2.68	3980.0	8.8	240.0
1962-63	1160.6	36602.7	81.	2.58	3530.0	7.8	169.0
1963-64	866.7	27333.8	61.	1.93	2610.0	5.8	135.0
1964-65	885.0	27909.3	62.	1.97	2940.0	6.5	125.0
1965-66	591.7	18662.4	41.	1.32	1740.0	3.9	88.0
1966-67	741.8	23394.4	52.	1.65	2300.0	5.1	103.0
1967-68	----	----	----	----	2750.0	6.1	120.0
1968-69	708.9	22356.3	50.	1.58	1918.0	4.3	110.0
1969-70	654.5	20640.3	46.	1.45	1840.0	4.1	80.0
1970-71	740.2	23344.7	52.	1.65	2710.0	6.0	53.4
1971-72	652.1	20567.5	46.	1.45	2487.0	5.5	45.4
1972-73	----	----	----	----	-1.0	-1.0	30.0
1973-74	367.0	11574.5	26.	0.82	1590.0	3.5	28.0
1974-75	694.4	21900.4	49.	1.54	2450.0	5.4	

GAUGING STATION/STATION DE JAUGEAGE.... BOZOUM
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 8100.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	20.1	-1.0
1952-53	25.5	27.9	91.6	281.0	373.0	279.0	130.0	71.8	49.1	40.4	38.6	27.0	119.5
1953-54	31.6	41.6	105.0	121.0	236.0	212.0	93.1	52.4	38.1	30.2	29.9	30.3	85.0
1954-55	37.3	73.8	133.0	143.0	326.0	363.0	158.0	80.4	51.9	44.3	41.6	42.6	124.5
1955-56	44.5	54.2	91.3	264.0	426.0	368.0	167.0	78.6	57.2	47.2	45.6	42.7	140.5
1956-57	43.7	46.3	82.2	140.0	235.0	244.0	124.0	71.4	49.3	31.0	19.7	21.3	92.3
1957-58	30.2	45.1	64.5	97.8	190.0	138.0	81.7	47.3	27.4	25.9	32.5	35.6	67.9
1958-59	35.2	47.4	82.8	120.0	151.0	184.0	106.0	55.3	36.2	25.7	18.9	26.4	74.0
1959-60	31.0	29.2	81.4	203.0	462.0	320.0	145.0	78.4	55.0	38.2	28.1	26.9	124.8
1960-61	25.2	27.7	43.1	130.0	253.0	349.0	179.0	55.4	50.3	31.4	24.6	27.3	99.6
1961-62	27.5	30.9	103.0	131.0	413.0	300.0	103.0	61.0	46.5	34.5	36.4	35.5	110.1
1962-63	43.6	44.5	76.0	139.0	294.0	337.0	162.0	74.7	43.9	36.6	33.6	34.7	109.9
1963-64	65.8	47.3	77.9	261.0	201.0	260.0	139.0	52.7	51.3	49.9	45.2	44.8	107.9
1964-65	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	19.9	-1.0
1965-66	24.8	30.4	81.4	175.0	233.0	125.0	58.3	35.2	27.3	16.9	11.3	18.2	69.7
1966-67	30.3	36.6	93.4	261.0	273.0	176.0	92.9	44.3	28.6	20.0	11.9	12.0	89.9
1967-68	16.7	30.9	98.1	165.0	283.0	234.0	89.1	46.1	31.2	21.6	16.4	18.0	87.5
1968-69	23.4	45.4	134.0	217.0	203.0	214.0	94.4	47.4	32.6	22.2	33.1	17.9	90.3
1969-70	32.3	27.5	158.0	338.0	277.0	182.0	120.0	54.1	38.1	27.0	16.3	29.4	108.3
1970-71	40.8	28.1	134.0	240.0	240.0	230.0	265.0	126.0	42.4	18.2	16.8	16.6	116.4
1971-72	11.3	17.3	78.6	187.0	374.0	149.0	87.1	41.0	23.2	13.7	9.6	12.2	83.6
1972-73	25.6	58.7	55.2	188.0	160.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	32.3	39.5	93.2	190.0	280.1	245.4	126.0	61.7	41.0	30.2	26.8	26.6	99.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOZOUM
RIVER/COURS D EAU..... OUHAM
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 8100.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	----	----	----	----	-1.0	-1.0	15.6
1952-53	119.5	3770.9	466.	14.76	438.0	54.1	
1953-54	85.0	2683.7	331.	10.51	369.0	45.6	
1954-55	124.5	3928.5	485.	15.38	315.0	38.9	
1955-56	140.5	4431.5	547.	17.35	610.0	75.3	
1956-57	92.3	2911.5	359.	11.40	303.0	37.4	
1957-58	67.9	2144.4	265.	8.40	223.0	27.5	
1958-59	74.0	2336.0	288.	9.15	315.0	38.9	
1959-60	124.8	3937.2	486.	15.41	610.0	75.3	
1960-61	99.6	3143.0	388.	12.30	389.0	48.0	
1961-62	110.1	3475.0	429.	13.60	610.0	75.3	
1962-63	109.9	3467.9	428.	13.58	463.0	57.2	
1963-64	107.9	3405.6	420.	13.33	423.0	52.2	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	69.7	2199.1	271.	8.61	301.0	37.2	
1966-67	89.9	2838.2	350.	11.11	394.0	48.6	
1967-68	87.5	2759.6	341.	10.80	354.0	43.7	
1968-69	90.3	2849.8	352.	11.16	350.0	43.2	
1969-70	108.3	3415.6	422.	13.37	517.0	63.8	
1970-71	116.4	3673.6	454.	14.38	389.0	48.0	
1971-72	83.6	2638.7	326.	10.33	534.0	65.9	
1972-73	----	----	----	----	275.0	34.0	

GAUGING STATION/STATION DE JAUGEAGE.... CRAMPEL
RIVER/COURS D EAU..... GRIBINGUI
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5680.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	5.9	11.0	20.0	28.0	47.5	102.0	67.0	22.3	14.5	10.0	6.9	10.9	28.8
1953-54	8.9	14.9	21.0	27.0	77.9	61.2	27.9	14.4	9.1	6.3	5.7	3.8	23.1
1954-55	5.0	13.8	17.4	25.8	39.7	74.0	51.4	23.1	14.1	9.4	7.9	6.6	24.0
1955-56	11.3	16.6	48.3	55.8	-1.0	-1.0	82.5	32.7	23.5	17.2	17.0	12.6	-1.0
1956-57	9.7	13.6	17.0	53.9	96.5	94.1	47.4	25.2	17.6	12.9	12.0	13.6	34.4
1957-58	17.2	25.4	31.8	64.6	51.4	42.8	29.2	18.5	14.4	11.0	7.9	7.4	26.8
1958-59	9.4	9.1	19.0	29.7	41.6	52.2	32.0	15.9	13.1	10.6	8.3	7.2	20.6
1959-60	15.6	-1.0	17.0	23.3	35.0	72.0	38.2	17.9	12.5	8.3	6.7	-1.0	-1.0
1960-61	12.3	12.2	31.0	60.7	79.2	112.0	77.0	30.6	23.0	15.3	12.9	13.0	39.9
1961-62	-1.0	13.3	28.9	59.1	114.0	115.0	61.3	31.2	22.6	16.4	-1.0	-1.0	-1.0
1962-63	16.6	18.0	20.6	45.3	87.5	90.0	49.9	27.7	21.1	14.9	9.9	12.7	34.5
1963-64	11.6	13.7	46.5	62.8	59.2	46.2	25.6	17.8	14.6	11.9	8.8	9.7	27.3
1964-65	8.9	10.1	21.5	25.4	54.4	77.1	57.9	20.7	13.2	8.9	7.0	5.8	25.9
1965-66	5.4	5.7	12.2	23.8	34.5	59.7	24.0	10.1	6.9	5.0	4.2	4.6	16.3
1966-67	8.9	20.1	29.1	65.0	108.0	101.0	50.4	21.7	14.3	9.9	6.8	4.8	36.6
AVG/MOYEN	10.5	14.1	25.4	43.3	66.1	78.5	48.1	21.9	15.6	11.2	8.7	8.6	29.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... CRAMPEL
RIVER/COURS D EAU..... GRIBINGUI
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5680.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	28.8	909.4	160.	5.08	-1.0	-1.0	4.3
1953-54	23.1	731.2	129.	4.08	130.0	22.9	
1954-55	24.0	757.7	133.	4.23	94.6	16.7	4.7
1955-56	----	----	----	----	130.0	22.9	7.2
1956-57	34.4	1086.8	191.	6.07	-1.0	-1.0	6.9
1957-58	26.8	845.4	149.	4.72	85.0	15.0	6.0
1958-59	20.6	652.6	115.	3.64	66.5	11.7	6.2
1959-60	----	----	----	----	105.0	18.5	6.0
1960-61	39.9	1259.3	222.	7.03	-1.0	-1.0	10.2
1961-62	----	----	----	----	137.0	24.1	
1962-63	34.5	1088.7	192.	6.08	101.0	17.8	7.6
1963-64	27.3	863.2	152.	4.82	79.6	14.0	7.8
1964-65	25.9	817.5	144.	4.56	87.4	15.4	4.1
1965-66	16.3	515.6	91.	2.88	72.5	12.8	3.9
1966-67	36.6	1156.6	204.	6.46	121.0	21.3	

GAUGING STATION/STATION DE JAUGEAGE.... GOLONGOSSO
RIVER/COURS D EAU..... BAHR AOUK
COUNTRY/PAYS..... ECA/TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 96000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	4.7	5.9	8.8	41.9	125.0	259.0	276.0	192.0	69.7	31.3	20.0	14.0	87.3
1954-55	6.2	14.0	16.4	40.0	109.0	177.0	269.0	190.0	96.0	41.0	23.0	15.0	83.0
1955-56	13.8	15.0	26.0	104.0	182.0	286.0	295.0	241.0	139.0	57.2	39.0	18.4	118.0
1956-57	10.7	10.3	16.7	53.8	140.0	278.0	289.0	155.0	60.9	33.4	23.1	17.0	90.6
1957-58	12.7	52.0	26.0	52.1	97.2	137.0	175.0	133.0	66.6	31.7	21.0	12.7	68.0
1958-59	6.8	7.6	21.8	57.2	145.0	212.0	171.0	89.0	51.0	32.8	22.8	16.0	69.4
1959-60	11.7	12.0	34.3	63.3	126.0	243.0	261.0	162.0	74.0	31.2	21.5	15.0	87.9
1960-61	9.1	7.5	12.0	23.8	55.8	146.0	248.0	210.0	103.0	33.3	16.8	12.5	73.1
1961-62	9.7	9.7	22.9	48.0	116.0	147.0	101.0	45.4	37.5	30.6	25.3	15.0	50.6
1962-63	-1.0	-1.0	-1.0	49.9	153.0	312.0	340.0	249.0	158.0	64.6	32.6	20.0	-1.0
1963-64	17.8	18.0	23.5	87.2	226.0	315.0	264.0	200.0	107.0	50.5	32.7	16.9	113.2
1964-65	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	25.2	17.4	-1.0
1965-66	15.0	15.1	16.7	30.8	60.3	114.0	155.0	96.4	46.1	16.5	11.3	10.0	48.9
1966-67	11.0	12.8	20.4	40.5	71.0	115.0	169.0	151.0	83.8	36.2	12.9	10.0	61.1
1967-68	10.0	10.5	13.8	-1.0	191.0	-1.0	-1.0	-1.0	-1.0	-1.0	13.5	-1.0	-1.0
1968-69	12.3	15.2	23.0	47.0	98.0	122.0	128.0	96.0	31.0	15.2	11.0	10.9	50.7
1969-70	9.0	10.5	15.0	3.2	70.0	128.0	229.0	164.0	62.0	18.3	11.5	9.5	60.8
1970-71	8.1	42.3	11.4	-1.0	-1.0	-1.0	21.7	19.2	13.8	11.9	11.0	-1.0	-1.0
1971-72	7.3	8.2	14.2	59.0	172.0	277.0	227.0	-1.0	34.0	16.5	11.5	8.9	-1.0
1972-73	9.0	9.0	10.0	18.5	54.0	-1.0	88.0	99.0	28.0	12.7	8.4	8.0	-1.0
1973-74	-1.0	7.0	11.0	-1.0	-1.0	69.0	116.0	152.0	115.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	10.2	14.8	18.1	48.2	121.7	196.2	201.1	146.8	72.4	31.3	19.7	13.7	74.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GOLONGOSSO
RIVER/COURS D EAU..... BAHR AOUK
COUNTRY/PAYS..... ECA/TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 96000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	87.3	2755.0	29.	0.91	303.0	3.2	
1954-55	83.0	2619.2	27.	0.87	-1.0	-1.0	
1955-56	118.0	3722.2	39.	1.23	-1.0	-1.0	
1956-57	90.6	2859.0	30.	0.94	322.0	3.4	14.3
1957-58	68.0	2147.0	22.	0.71	196.0	2.0	6.1
1958-59	69.4	2189.4	23.	0.72	223.0	2.3	14.3
1959-60	87.9	2772.5	29.	0.92	322.0	3.4	
1960-61	73.1	2307.2	24.	0.76	263.0	2.7	9.1
1961-62	50.6	1598.4	17.	0.53	175.0	1.8	9.1
1962-63	----	----	----	----	362.0	3.8	
1963-64	113.2	3570.4	37.	1.18	339.0	3.5	14.3
1964-65	----	----	----	----	-1.0	-1.0	11.7
1965-66	48.9	1543.1	16.	0.51	169.0	1.8	9.1
1966-67	61.1	1927.9	20.	0.64	186.0	1.9	8.6
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	50.7	1602.0	17.	0.53	134.0	1.4	12.0
1969-70	60.8	1918.4	20.	0.63	252.0	2.6	9.0
1970-71	----	----	----	----	-1.0	-1.0	7.0
1971-72	----	----	----	----	290.0	3.0	6.0
1972-73	----	----	----	----	121.0	1.3	8.0
1973-74	----	----	----	----	159.0	1.7	6.0

GAUGING STATION/STATION DE JAUGEAGE.... GUELENDENG
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 470000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	-1.0	-1.0	-1.0	687.0	1900.0	2480.0	-1.0	-1.0	607.0	300.0	160.0	-1.0	-1.0
1953-54	119.0	139.0	282.0	943.0	1760.0	2610.0	2250.0	1160.0	504.0	255.0	143.0	109.0	856.1
1954-55	92.8	122.0	340.0	933.0	1990.0	3020.0	2910.0	1610.0	807.0	477.0	245.0	160.0	1058.9
1955-56	162.0	205.0	510.0	1200.0	2220.0	3250.0	2960.0	1790.0	927.0	519.0	373.0	268.0	1198.6
1956-57	162.0	196.0	437.0	1090.0	2090.0	2820.0	2640.0	1390.0	741.0	454.0	243.0	180.0	1036.9
1957-58	149.0	330.0	445.0	902.0	1630.0	1810.0	1640.0	1070.0	545.0	294.0	170.0	134.0	759.9
1958-59	134.0	125.0	353.0	840.0	1720.0	1860.0	1650.0	942.0	536.0	282.0	174.0	140.0	729.6
1959-60	157.0	170.0	235.0	923.0	1840.0	2680.0	2290.0	1130.0	656.0	378.0	202.0	161.0	901.8
1960-61	157.0	164.0	318.0	840.0	1670.0	2250.0	2660.0	1660.0	818.0	452.0	265.0	177.0	952.5
1961-62	165.0	158.0	411.0	1240.0	2260.0	3510.0	3010.0	1620.0	892.0	594.0	389.0	327.0	1214.6
1962-63	292.0	295.0	431.0	888.0	1990.0	3260.0	2960.0	1750.0	905.0	588.0	320.0	182.0	1155.0
1963-64	193.0	225.0	280.0	1380.0	2370.0	2320.0	1740.0	933.0	500.0	280.0	180.0	130.0	877.5
1964-65	120.0	130.0	270.0	815.0	1150.0	2690.0	2390.0	1450.0	708.0	368.0	183.0	136.0	867.5
1965-66	111.0	103.0	192.0	744.0	1490.0	1630.0	1370.0	639.0	298.0	160.0	108.0	80.9	577.1
1966-67	97.9	111.0	310.0	810.0	1750.0	2150.0	1615.0	935.0	361.0	240.0	170.0	120.0	722.4
AVG/MOYEN	150.8	176.6	343.8	949.0	1855.3	2556.0	2291.7	1291.3	653.6	376.0	221.6	164.6	919.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GUELENDENG
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 470000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	----	----	----	----	2560.0	5.4	118.0
1953-54	856.1	27000.0	57.	1.82	-1.0	-1.0	87.8
1954-55	1058.9	33393.4	71.	2.25	3240.0	6.9	143.0
1955-56	1198.6	37801.1	80.	2.55	3610.0	7.7	142.0
1956-57	1036.9	32700.2	70.	2.21	-1.0	-1.0	142.0
1957-58	759.9	23964.7	51.	1.62	1860.0	4.0	113.0
1958-59	729.6	23010.7	49.	1.55	1900.0	4.0	128.0
1959-60	901.8	28440.2	61.	1.92	2860.0	6.1	154.0
1960-61	952.5	30040.6	64.	2.03	2740.0	5.8	
1961-62	1214.6	38305.7	82.	2.58	-1.0	-1.0	
1962-63	1155.0	36426.7	78.	2.46	3420.0	7.3	143.0
1963-64	877.5	27675.4	59.	1.87	2650.0	5.6	
1964-65	867.5	27357.4	58.	1.85	-1.0	-1.0	96.1
1965-66	577.1	18201.2	39.	1.23	-1.0	-1.0	74.5
1966-67	722.4	22784.4	48.	1.54	-1.0	-1.0	73.3

GAUGING STATION/STATION DE JAUGEAGE.... MAILAO
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 500000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	-1.0	172.0	298.0	892.0	1540.0	2480.0	2380.0	1100.0	535.0	302.0	177.0	124.0	-1.0
1954-55	-1.0	141.0	360.0	844.0	1810.0	3200.0	3450.0	1750.0	778.0	450.0	258.0	171.0	-1.0
1955-56	174.0	212.0	433.0	1030.0	2030.0	3460.0	3640.0	1960.0	956.0	574.0	377.0	278.0	1260.3
1956-57	179.0	185.0	377.0	954.0	1920.0	3010.0	3280.0	1470.0	739.0	446.0	270.0	215.0	1087.0
1957-58	172.0	338.0	439.0	810.0	1440.0	1600.0	1380.0	1040.0	581.0	343.0	218.0	157.0	709.8
1958-59	156.0	170.0	372.0	776.0	1640.0	2040.0	1570.0	901.0	520.0	285.0	163.0	99.5	724.3
1959-60	142.0	167.0	246.0	797.0	1690.0	2820.0	2610.0	1200.0	594.0	357.0	220.0	155.0	916.5
1960-61	154.0	171.0	313.0	750.0	1480.0	2180.0	2890.0	1840.0	832.0	473.0	291.0	183.0	963.0
1961-62	173.0	151.0	377.0	1100.0	2260.0	3830.0	3750.0	1770.0	848.0	532.0	362.0	252.0	1283.7
1962-63	226.0	232.0	402.0	702.0	1800.0	3510.0	3620.0	1970.0	932.0	552.0	331.0	222.0	1208.2
1963-64	239.0	266.0	296.0	1140.0	2370.0	2530.0	1820.0	899.0	502.0	272.0	167.0	130.0	885.9
1964-65	125.0	123.0	245.0	799.0	1770.0	2810.0	2870.0	1580.0	699.0	351.0	197.0	148.0	976.4
1965-66	121.0	110.0	184.0	600.0	1400.0	1610.0	1350.0	576.0	258.0	163.0	112.0	88.5	547.7
1966-67	97.7	164.0	287.0	711.0	1510.0	2180.0	1580.0	918.0	397.0	217.0	141.0	97.6	691.6
1967-68	68.0	57.6	177.0	619.0	1570.0	2470.0	2360.0	1190.0	525.0	302.0	180.0	123.0	803.4
1968-69	117.0	135.0	383.0	975.0	1590.0	1740.0	1270.0	765.0	391.0	245.0	179.0	168.0	663.1
1969-70	111.0	137.0	236.0	771.0	1600.0	1700.0	1360.0	729.0	382.0	233.0	151.0	108.0	626.5
1970-71	96.4	108.0	123.0	673.0	1570.0	2430.0	2010.0	790.0	421.0	252.0	161.0	141.0	731.2
1971-72	128.0	91.4	141.0	495.0	1410.0	2300.0	1590.0	642.0	340.0	219.0	143.0	104.0	633.6
1972-73	97.8	123.0	188.0	375.0	730.0	743.0	636.0	339.0	184.0	113.0	66.4	34.4	302.4
1973-74	34.6	42.5	88.3	359.0	895.0	1130.0	634.0	353.0	191.0	110.0	58.1	34.3	327.4
1974-75	31.2	42.7	129.0	502.0	1530.0	2120.0	1600.0	708.0	363.0	205.0	120.0	80.0	619.2
AVG/MOYEN	132.1	151.7	277.0	757.9	1616.1	2358.7	2165.9	1113.1	544.0	318.0	197.3	141.5	814.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MAILAO
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 500000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	----	----	----	----	2870.0	5.7	68.2
1954-55	----	----	----	----	3680.0	7.4	152.0
1955-56	1260.3	39745.8	79.	2.52	4160.0	8.3	134.0
1956-57	1087.0	34282.2	69.	2.17	3680.0	7.4	156.0
1957-58	709.8	22385.3	45.	1.42	1680.0	3.4	134.0
1958-59	724.3	22843.8	46.	1.45	2150.0	4.3	80.7
1959-60	916.5	28902.7	58.	1.83	3040.0	6.1	139.0
1960-61	963.0	30371.7	61.	1.93	3050.0	6.1	134.0
1961-62	1283.7	40484.3	81.	2.57	4220.0	8.4	198.0
1962-63	1208.2	38103.3	76.	2.42	3930.0	7.9	206.0
1963-64	885.9	27936.2	56.	1.77	2760.0	5.5	112.0
1964-65	976.4	30792.2	62.	1.95	3200.0	6.4	99.9
1965-66	547.7	17272.5	35.	1.10	1640.0	3.3	82.8
1966-67	691.6	21813.1	44.	1.38	2320.0	4.6	51.9
1967-68	803.4	25338.1	51.	1.61	2720.0	5.4	97.6
1968-69	663.1	20913.6	42.	1.33	1810.0	3.6	97.6
1969-70	626.5	19757.3	40.	1.25	1756.0	3.5	85.9
1970-71	731.2	23061.7	46.	1.46	2605.0	5.2	41.3
1971-72	633.6	19981.7	40.	1.27	2490.0	5.0	91.7
1972-73	302.4	9538.5	19.	0.60	816.0	1.6	28.0
1973-74	327.4	10327.5	21.	0.65	1310.0	2.6	25.0
1974-75	619.2	19528.4	39.	1.24	2290.0	4.6	

GAUGING STATION/STATION DE JAUGEAGE.... MANDA
RIVER/COURS D EAU..... BAHR SARA
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 79600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	52.0	133.0	174.0	753.0	1471.0	1519.0	895.0	297.0	166.0	100.0	55.0	60.0	472.9
1952-53	80.0	125.0	275.0	713.0	1711.0	1583.0	903.0	297.0	157.0	116.0	115.0	108.0	515.2
1953-54	100.0	89.0	280.0	806.0	1031.0	1286.0	608.0	194.0	108.0	74.0	61.0	58.0	391.2
1954-55	89.0	134.0	381.0	675.0	1689.0	2106.0	1579.0	483.0	238.0	147.0	131.0	122.0	647.8
1955-56	148.0	169.0	463.0	1142.0	2196.0	3419.0	1260.0	720.0	350.0	190.0	170.0	-1.0	-1.0
1956-57	205.0	286.0	667.0	1114.0	1958.0	2240.0	1285.0	557.0	405.0	240.0	120.0	70.0	762.4
1957-58	300.0	325.0	321.0	569.0	1075.0	1141.0	998.0	480.0	415.0	320.0	140.0	60.0	512.0
1958-59	100.0	144.0	365.0	758.0	1386.0	868.0	593.0	313.0	141.0	86.0	40.0	60.0	406.1
1959-60	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	40.0	70.0	335.0	270.0	1532.0	1844.0	1725.0	818.0	350.0	210.0	140.0	100.0	619.5
1961-62	70.0	104.0	245.0	757.0	1997.0	2898.0	1252.0	460.0	249.0	205.0	140.0	125.0	708.5
1962-63	227.0	287.0	412.0	821.0	1842.0	2461.0	1270.0	567.0	318.0	234.0	163.0	156.0	729.8
1963-64	275.0	213.0	482.0	1178.0	1610.0	1137.0	585.0	253.0	175.0	120.0	80.0	55.0	513.5
1964-65	-1.0	106.0	304.0	543.0	1265.0	1527.0	805.0	301.0	163.0	119.0	97.0	81.0	-1.0
1965-66	72.0	92.0	206.0	726.0	1250.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	89.0	140.0	256.0	673.0	-1.0	-1.0	-1.0	-1.0	135.0	80.0	51.0	40.0	-1.0
1967-68	52.0	59.0	228.0	626.0	-1.0	1857.0	-1.0	-1.0	172.0	111.0	72.0	49.0	-1.0
1968-69	82.0	114.0	290.0	1000.0	1127.0	1042.0	645.0	297.0	168.0	113.0	124.0	88.0	424.1
1969-70	82.0	84.0	256.0	927.0	1325.0	1133.0	727.0	302.0	172.0	114.0	75.0	60.0	438.0
1970-71	63.0	85.0	175.0	667.0	1518.0	1675.0	795.0	308.0	176.0	118.0	79.0	81.0	478.3
1971-72	44.0	44.0	157.0	585.0	1690.0	1390.0	438.0	175.0	109.0	70.0	36.0	28.0	397.1
1972-73	35.0	107.0	170.0	452.0	622.0	573.0	245.0	73.0	45.0	28.0	19.0	32.2	200.1
1973-74	26.2	50.4	94.0	520.0	783.0	495.0	165.0	56.4	31.4	21.0	16.0	14.9	189.4
1974-75	29.0	45.4	116.0	640.0	1410.0	1280.0	478.0	151.0	77.0	48.0	32.7	24.0	360.9
AVG/MOYEN	102.7	130.7	289.2	735.4	1451.8	1594.9	862.5	355.1	196.3	130.1	88.9	70.0	500.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MANDA
RIVER/COURS D EAU..... BAHR SARA
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 79600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	472.9	14913.9	187.	5.94	1640.0	20.6	
1952-53	515.2	16248.9	204.	6.47	1950.0	24.5	
1953-54	391.2	12338.4	155.	4.92	1410.0	17.7	48.0
1954-55	647.8	20430.0	257.	8.14	2660.0	33.4	104.0
1955-56	----	----	----	----	3670.0	46.1	
1956-57	762.4	24043.5	302.	9.58	2640.0	33.2	
1957-58	512.0	16146.4	203.	6.43	1260.0	15.8	
1958-59	406.1	12808.8	161.	5.10	1490.0	18.7	
1959-60	----	----	----	----	-1.0	-1.0	
1960-61	619.5	19536.5	245.	7.78	2350.0	29.5	
1961-62	708.5	22343.2	281.	8.90	3170.0	39.8	
1962-63	729.8	23016.0	289.	9.17	2840.0	35.7	136.0
1963-64	513.5	16196.3	203.	6.45	1830.0	23.0	
1964-65	----	----	----	----	1960.0	24.6	49.0
1965-66	----	----	----	----	1320.0	16.6	39.0
1966-67	----	----	----	----	1700.0	21.4	32.0
1967-68	----	----	----	----	2145.0	26.9	31.9
1968-69	424.1	13376.5	168.	5.33	1241.0	15.6	
1969-70	438.0	13815.3	174.	5.50	1415.0	17.8	48.0
1970-71	478.3	15084.7	190.	6.01	2206.0	27.7	33.0
1971-72	397.1	12525.0	157.	4.99	2360.0	29.6	22.0
1972-73	200.1	6310.3	79.	2.51	851.0	10.7	17.4
1973-74	189.4	5974.2	75.	2.38	870.0	10.9	14.0
1974-75	360.9	11382.1	143.	4.53	1580.0	19.8	

GAUGING STATION/STATION DE JAUGEAGE.... MOISSALA
RIVER/COURS D EAU..... BAHRSARA
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 67000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	57.0	97.0	151.0	925.0	1290.0	1248.0	869.0	375.0	162.0	103.0	59.0	64.0	450.0
1952-53	84.0	126.0	273.0	688.0	1633.0	1303.0	806.0	301.0	160.0	113.0	91.0	74.0	471.0
1953-54	70.0	79.0	226.0	733.0	1144.0	912.0	399.0	209.0	142.0	98.0	60.0	49.0	343.4
1954-55	48.0	160.0	482.0	1005.0	1760.0	2350.0	1532.0	612.0	265.0	192.0	138.0	-1.0	-1.0
1955-56	178.0	162.0	477.0	1534.0	3032.0	2568.0	1221.0	701.0	341.0	186.0	172.0	-1.0	-1.0
1956-57	203.0	353.0	678.0	1142.0	1742.0	1973.0	1190.0	741.0	396.0	239.0	122.0	72.0	737.5
1957-58	189.0	388.0	770.0	1045.0	1372.0	1053.0	793.0	638.0	383.0	228.0	140.0	66.0	588.7
1958-59	104.0	100.0	345.0	875.0	1382.0	950.0	520.0	256.0	170.0	115.0	46.0	62.0	410.4
1959-60	125.0	106.0	403.0	1108.0	2050.0	1630.0	835.0	392.0	227.0	150.0	95.0	75.0	599.6
1960-61	45.0	75.0	330.0	553.0	772.0	1182.0	1616.0	524.0	322.0	230.0	155.0	100.0	492.0
1961-62	70.0	105.0	331.0	951.0	2120.0	2641.0	1459.0	583.0	277.0	203.0	140.0	125.0	750.4
1962-63	191.0	285.0	405.0	833.0	1261.0	1742.0	1445.0	824.0	442.0	254.0	149.0	213.0	670.3
1963-64	303.0	417.0	555.0	905.0	912.0	605.0	398.0	262.0	175.0	120.0	85.0	65.0	400.1
1964-65	75.0	66.0	298.0	579.0	1436.0	1339.0	623.0	270.0	171.0	114.0	87.0	61.0	426.5
1965-66	60.0	76.0	207.0	877.0	1275.0	978.0	405.0	193.0	121.0	78.0	47.0	43.0	363.3
1966-67	79.0	142.0	281.0	741.0	1503.0	993.0	501.0	233.0	146.0	102.0	67.0	45.0	402.7
1967-68	55.0	61.3	275.0	735.0	1789.0	1557.0	616.0	268.0	166.0	102.0	64.0	55.0	478.6
1968-69	74.0	112.0	307.0	1180.0	1065.0	1014.0	563.0	280.0	175.0	-1.0	-1.0	-1.0	-1.0
1969-70	92.0	80.0	-1.0	-1.0	-1.0	1103.0	647.0	268.0	169.0	107.0	65.0	51.0	-1.0
1970-71	63.0	-1.0	-1.0	1055.0	1655.0	1365.0	-1.0	-1.0	-1.0	100.0	59.0	62.2	-1.0
1971-72	40.1	39.5	131.0	-1.0	-1.0	1150.0	382.0	194.0	103.0	56.3	36.3	30.6	-1.0
1972-73	34.7	106.0	152.0	469.0	558.0	534.0	247.0	84.2	48.4	28.4	19.3	27.0	192.3
1973-74	22.3	38.7	105.0	615.0	759.0	430.0	184.0	57.7	33.2	20.1	16.5	15.7	191.4
1974-75	26.6	46.5	132.0	880.0	1530.0	1190.0	446.0	180.0	87.1	48.6	32.3	26.0	385.4
AVG/MOYEN	95.3	140.0	332.4	883.0	1456.3	1325.4	769.4	367.2	203.5	129.8	84.5	65.7	487.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MOISSALA
RIVER/COURS D EAU..... BAHRSARA
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 67000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	450.0	14191.2	212.	6.72	1840.0	27.5	39.0
1952-53	471.0	14853.4	222.	7.03	1840.0	27.5	59.0
1953-54	343.4	10829.9	162.	5.13	1210.0	18.1	36.0
1954-55	----	----	----	----	2800.0	41.8	
1955-56	----	----	----	----	3680.0	54.9	154.0
1956-57	737.5	23260.4	347.	11.01	2440.0	36.4	48.0
1957-58	588.7	18566.8	277.	8.79	1460.0	21.8	51.0
1958-59	410.4	12942.9	193.	6.13	1620.0	24.2	31.0
1959-60	599.6	18911.0	282.	8.95	2530.0	37.8	
1960-61	492.0	15515.7	232.	7.34	1950.0	29.1	
1961-62	750.4	23665.1	353.	11.20	2960.0	44.2	
1962-63	670.3	21139.6	316.	10.00	1920.0	28.7	129.0
1963-64	400.1	12619.6	188.	5.97	1120.0	16.7	
1964-65	426.5	13452.7	201.	6.37	1950.0	29.1	42.0
1965-66	363.3	11458.0	171.	5.42	1400.0	20.9	34.0
1966-67	402.7	12701.1	190.	6.01	1730.0	25.8	36.0
1967-68	478.6	15093.3	225.	7.14	2080.0	31.0	30.2
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	----	----	----	----	1356.0	20.2	47.1
1970-71	----	----	----	----	2169.0	32.4	33.0
1971-72	----	----	----	----	-1.0	-1.0	26.1
1972-73	192.3	6065.4	91.	2.87	897.0	13.4	15.6
1973-74	191.4	6037.0	90.	2.86	885.0	13.2	14.0
1974-75	385.4	12154.7	181.	5.75	1790.0	26.7	

GAUGING STATION/STATION DE JAUGEAGE.... NDJAMENA
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 600000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1932-33	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1933-34	170.0	235.0	470.0	913.0	2446.0	3827.0	3751.0	2441.0	1047.0	683.0	402.0	278.0	1388.5
1934-35	242.0	450.0	967.0	1989.0	3165.0	3951.0	3495.0	1710.0	905.0	588.0	358.0	282.0	1508.5
1935-36	258.0	308.0	738.0	1350.0	2236.0	3057.0	2980.0	1765.0	1024.0	657.0	407.0	284.0	1255.3
1936-37	270.0	210.0	520.0	1350.0	2806.0	4134.0	4058.0	2277.0	960.0	550.0	330.0	210.0	1472.9
1937-38	220.0	300.0	600.0	1116.0	2000.0	2290.0	2413.0	1200.0	635.0	388.0	238.0	153.0	962.7
1938-39	144.0	218.0	478.0	1228.0	2742.0	4242.0	4165.0	1857.0	750.0	420.0	250.0	150.0	1387.0
1939-40	160.0	250.0	483.0	1016.0	1860.0	3026.0	3378.0	1959.0	940.0	544.0	322.0	209.0	1178.9
1940-41	183.0	262.0	479.0	1148.0	1804.0	2141.0	1835.0	869.0	440.0	246.0	136.0	90.0	802.7
1941-42	120.0	408.0	530.0	984.0	1881.0	1976.0	1454.0	728.0	357.0	200.0	124.0	84.0	737.1
1942-43	103.0	183.0	329.0	1217.0	2280.0	3193.0	2720.0	1155.0	562.0	301.0	168.0	122.0	1027.7
1943-44	107.0	186.0	401.0	1036.0	2386.0	3237.0	3312.0	1870.0	847.0	450.0	264.0	236.0	1194.3
1944-45	211.0	189.0	349.0	733.0	1926.0	2804.0	2865.0	1432.0	662.0	348.0	199.0	127.0	987.0
1945-46	150.0	190.0	359.0	1189.0	2180.0	3244.0	3209.0	1566.0	714.0	360.0	190.0	116.0	1122.2
1946-47	160.0	250.0	539.0	1554.0	2545.0	3792.0	4437.0	3122.0	1178.0	590.0	350.0	210.0	1560.5
1947-48	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	-1.0	-1.0	-1.0	-1.0	2837.0	3850.0	-1.0	-1.0	930.0	560.0	360.0	220.0	-1.0
1949-50	-1.0	-1.0	-1.0	-1.0	-1.0	3207.0	3244.0	1740.0	730.0	440.0	280.0	160.0	-1.0
1950-51	-1.0	-1.0	-1.0	-1.0	3040.0	4032.0	-1.0	-1.0	1070.0	660.0	410.0	260.0	-1.0
1951-52	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	-1.0	-1.0	-1.0	-1.0	3382.0	3360.0	1630.0	750.0	420.0	240.0	140.0	-1.0
1953-54	-1.0	255.0	514.0	1389.0	2259.0	3319.0	3515.0	1528.0	738.0	402.0	240.0	140.0	-1.0
1954-55	108.0	323.0	745.0	1435.0	2657.0	3909.0	4356.0	2837.0	1099.0	634.0	334.0	212.0	1554.0
1955-56	270.0	358.0	779.0	1570.0	2816.0	4098.0	4551.0	3132.0	1363.0	765.0	514.0	364.0	1715.0
1956-57	229.0	278.0	715.0	1515.0	2718.0	3808.0	4275.0	2558.0	1000.0	603.0	338.0	223.0	1521.6
1957-58	208.0	553.0	812.0	1269.0	2204.0	2639.0	2475.0	1571.0	747.0	420.0	240.0	144.0	1106.8
1958-59	171.0	313.0	754.0	1428.0	2443.0	2746.0	2594.0	1294.0	646.0	342.0	174.0	111.0	1084.6
1959-60	160.0	230.0	483.0	1260.0	2433.0	3612.0	3725.0	1805.0	772.0	446.0	219.0	132.0	1273.0
1960-61	204.0	240.0	576.0	1270.0	2299.0	3154.0	3875.0	2962.0	1144.0	603.0	334.0	174.0	1402.9
1961-62	182.0	190.0	703.0	1743.0	3043.0	4462.0	4846.0	2653.0	1066.0	638.0	399.0	353.0	1689.8
1962-63	355.0	392.0	796.0	1199.0	2458.0	4057.0	4518.0	2949.0	1283.0	785.0	490.0	320.0	1633.5
1963-64	424.0	460.0	615.0	1702.0	3126.0	3613.0	2984.0	1509.0	777.0	458.0	261.0	176.0	1342.0
1964-65	230.0	288.0	589.0	1393.0	2520.0	3576.0	3873.0	2280.0	994.0	566.0	323.0	213.0	1403.7
1965-66	186.0	237.0	590.0	1190.0	2191.0	2541.0	2173.0	904.0	442.0	266.0	148.0	96.0	913.6
1966-67	160.0	327.0	623.0	1186.0	2147.0	3071.0	2562.0	1474.0	645.0	365.0	220.0	130.0	1075.8
1967-68	115.0	145.0	464.0	1155.0	2292.0	3370.0	3569.0	1700.0	732.0	408.0	240.0	159.0	1195.7
1968-69	200.0	297.0	703.0	1502.0	2376.0	2686.0	2235.0	1047.0	532.0	305.0	217.0	213.0	1026.0
1969-70	156.0	273.0	592.0	1341.0	2256.0	2770.0	2549.0	1415.0	635.0	357.0	199.0	131.0	1056.1
1970-71	162.0	214.0	419.0	1264.0	2483.0	3628.0	3323.0	1320.0	634.0	344.0	183.0	131.0	1175.4
1971-72	115.0	126.0	403.0	1080.0	2200.0	3250.0	2490.0	956.0	491.0	265.0	143.0	99.9	968.2
1972-73	123.0	227.0	450.0	787.0	1330.0	1370.0	1120.0	527.0	254.0	132.0	76.2	51.6	537.3
1973-74	69.7	114.0	224.0	766.0	1550.0	1960.0	1190.0	521.0	247.0	116.0	65.4	43.3	572.2
1974-75	73.4	129.0	358.0	1020.0	2290.0	3090.0	2580.0	1060.0	506.0	258.0	135.0	90.0	965.7
AVG/MOYEN	182.8	266.8	559.6	1257.9	2374.3	3252.8	3159.3	1719.0	781.2	447.0	263.0	175.9	1203.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NDJAMENA
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 600000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1932-33	----	----	----	----	3970.0	6.6	
1933-34	1388.5	43790.3	73.	2.31	4141.0	6.9	
1934-35	1508.5	47572.0	79.	2.51	4018.0	6.7	
1935-36	1255.3	39588.1	66.	2.09	3165.0	5.3	
1936-37	1472.9	46449.9	77.	2.45	4410.0	7.3	
1937-38	962.7	30361.2	51.	1.60	2592.0	4.3	131.0
1938-39	1387.0	43740.4	73.	2.31	4500.0	7.5	
1939-40	1178.9	37178.3	62.	1.96	3524.0	5.9	169.0
1940-41	802.7	25315.5	42.	1.34	2262.0	3.8	80.0
1941-42	737.1	23247.2	39.	1.23	2190.0	3.7	79.0
1942-43	1027.7	32411.1	54.	1.71	3403.0	5.7	102.0
1943-44	1194.3	37664.4	63.	1.99	3608.0	6.0	160.0
1944-45	987.0	31128.6	52.	1.65	3123.0	5.2	87.0
1945-46	1122.2	35391.2	59.	1.87	3524.0	5.9	96.0
1946-47	1560.5	49214.5	82.	2.60	4510.0	7.5	
1947-48	----	----	----	----	3714.0	6.2	
1948-49	----	----	----	----	4046.0	6.7	
1949-50	----	----	----	----	3448.0	5.7	
1950-51	----	----	----	----	4400.0	7.3	
1951-52	----	----	----	----	3170.0	5.3	
1952-53	----	----	----	----	3524.0	5.9	
1953-54	----	----	----	----	3775.0	6.3	96.0
1954-55	1554.0	49009.5	82.	2.59	4450.0	7.4	171.0
1955-56	1715.0	54084.2	90.	2.86	4702.0	7.8	160.0
1956-57	1521.6	47987.2	80.	2.54	4440.0	7.4	176.0
1957-58	1106.8	34905.0	58.	1.84	2688.0	4.5	136.0
1958-59	1084.6	34206.0	57.	1.81	2802.0	4.7	106.0
1959-60	1273.0	40147.9	67.	2.12	3907.0	6.5	124.0
1960-61	1402.9	44242.3	74.	2.34	4008.0	6.7	151.0
1961-62	1689.8	53290.5	89.	2.82	5160.0	8.6	308.0
1962-63	1633.5	51514.0	86.	2.72	4607.0	7.7	288.0
1963-64	1342.0	42323.9	71.	2.24	3668.0	6.1	157.0
1964-65	1403.7	44268.6	74.	2.34	4065.0	6.8	153.0
1965-66	913.6	28813.3	48.	1.52	2566.0	4.3	90.0
1966-67	1075.8	33927.4	57.	1.79	3228.0	5.4	109.0
1967-68	1195.7	37709.1	63.	1.99	3826.0	6.4	129.0
1968-69	1026.0	32358.5	54.	1.71	2774.0	4.6	
1969-70	1056.1	33307.2	56.	1.76	2853.0	4.8	128.0
1970-71	1175.4	37067.9	62.	1.96	3944.0	6.6	149.0
1971-72	968.2	30534.4	51.	1.61	3410.0	5.7	90.0
1972-73	537.3	16944.8	28.	0.90	1430.0	2.4	47.7
1973-74	572.2	18044.8	30.	0.95	2130.0	3.5	38.6
1974-75	965.7	30456.9	51.	1.61	3270.0	5.5	

GAUGING STATION/STATION DE JAUGEAGE.... SARH
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 193000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1937-38	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	157.0	85.0	53.0	38.0	-1.0
1938-39	35.0	35.0	56.0	232.0	981.0	1398.0	790.0	363.0	167.0	85.0	54.0	40.0	353.0
1939-40	40.0	50.0	74.0	208.0	494.0	936.0	763.0	424.0	225.0	107.0	66.0	53.0	286.6
1940-41	43.0	50.0	76.0	225.0	335.0	444.0	423.0	219.0	144.0	110.0	67.0	56.0	182.6
1941-42	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	133.0	107.0	73.0	57.0	-1.0
1942-43	67.0	98.0	107.0	216.0	519.0	773.0	538.0	299.0	137.0	82.0	70.0	56.0	246.8
1943-44	47.0	65.0	101.0	183.0	478.0	705.0	570.0	374.0	207.0	115.0	94.0	99.0	253.1
1944-45	99.0	101.0	143.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946-47	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	-1.0	-1.0	-1.0	-1.0	697.0	1455.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	58.0	76.0	184.0	416.0	540.0	626.0	377.0	198.0	106.0	55.0	35.0	-1.0
1952-53	30.0	40.0	60.0	239.0	525.0	876.0	946.0	465.0	226.0	106.0	72.0	48.0	302.7
1953-54	-1.0	109.0	181.0	323.0	790.0	1367.0	924.0	405.0	209.0	111.0	72.0	50.0	-1.0
1954-55	-1.0	68.0	110.0	309.0	732.0	1401.0	1060.0	490.0	246.0	128.0	81.0	59.0	-1.0
1955-56	63.0	72.0	163.0	349.0	748.0	1392.0	1163.0	619.0	335.0	193.0	123.0	88.0	442.3
1956-57	57.0	60.0	104.0	263.0	645.0	1311.0	1014.0	454.0	232.0	126.0	82.0	76.0	368.6
1957-58	59.0	110.0	163.0	359.0	519.0	593.0	574.0	387.0	209.0	114.0	72.0	50.0	267.4
1958-59	49.0	46.0	118.0	270.0	471.0	603.0	514.0	339.0	184.0	78.0	48.0	35.0	229.5
1959-60	47.0	49.0	73.0	206.0	505.0	885.0	726.0	349.0	146.0	70.0	46.0	34.0	261.3
1960-61	39.0	43.0	96.0	271.0	473.0	880.0	1035.0	564.0	293.0	150.0	81.0	55.0	331.6
1961-62	47.0	51.0	170.0	395.0	935.0	1912.0	1160.0	492.0	255.0	150.0	97.0	76.0	478.3
1962-63	73.0	78.0	139.0	283.0	687.0	1517.0	1171.0	580.0	320.0	180.0	120.0	74.0	435.1
1963-64	78.0	80.0	149.0	434.0	790.0	795.0	528.0	338.0	199.0	103.0	57.0	44.0	299.5
1964-65	47.0	44.0	140.0	297.0	558.0	1168.0	977.5	47.0	304.0	164.0	85.0	54.0	323.7
1965-66	48.0	39.0	89.0	202.0	405.0	536.0	525.0	258.0	109.0	63.0	41.0	32.0	195.5
1966-67	41.0	79.0	172.0	331.0	582.0	750.0	647.0	408.0	205.0	99.0	56.0	35.0	283.7
1967-68	31.0	31.0	77.0	190.0	496.0	980.0	826.0	425.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	43.0	63.0	166.0	346.0	495.0	550.0	416.0	256.0	113.0	66.0	48.0	38.0	216.6
1969-70	33.0	42.0	76.0	227.0	379.0	475.0	492.0	298.0	124.0	57.0	35.0	28.0	188.8
1970-71	26.0	28.0	36.0	155.0	469.0	863.0	518.0	268.0	96.0	40.0	24.0	17.0	211.6
1971-72	14.9	16.8	55.9	243.0	529.0	758.0	552.0	243.0	82.0	41.8	26.2	17.3	214.9
1972-73	17.5	22.0	41.4	124.0	246.0	280.0	289.0	158.0	54.5	28.7	17.4	13.6	107.6
1973-74	12.7	14.3	24.6	91.7	354.0	428.0	320.0	172.0	57.7	27.3	17.5	13.9	127.8
1974-75	14.0	17.1	78.7	-1.0	-1.0	-1.0	586.0	314.0	131.0	61.5	29.8	-1.0	-1.0
AVG/MOYEN	44.4	55.3	103.8	255.5	560.4	916.2	712.8	358.1	183.2	98.4	62.0	47.3	283.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SARH
RIVER/COURS D EAU..... CHARI
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... CHARI
KM2 AREA OF WATER SHED/BASSIN VERSANT. 193000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1937-38	----	----	----	----	-1.0	-1.0	34.0
1938-39	353.0	11132.2	58.	1.83	1505.0	7.8	
1939-40	286.6	9040.3	47.	1.49	1031.0	5.3	38.0
1940-41	182.6	5760.5	30.	0.95	479.0	2.5	
1941-42	----	----	----	----	-1.0	-1.0	53.0
1942-43	246.8	7784.1	40.	1.28	790.0	4.1	45.0
1943-44	253.1	7983.8	41.	1.31	760.0	3.9	89.0
1944-45	----	----	----	----	-1.0	-1.0	
1946-47	----	----	----	----	1876.0	9.7	
1950-51	----	----	----	----	1580.0	8.2	
1951-52	----	----	----	----	667.0	3.5	
1952-53	302.7	9547.5	49.	1.57	1109.0	5.7	
1953-54	----	----	----	----	1440.0	7.5	
1954-55	----	----	----	----	1466.0	7.6	51.0
1955-56	442.3	13949.4	72.	2.29	1591.0	8.2	48.0
1956-57	368.6	11626.2	60.	1.91	1460.0	7.6	52.0
1957-58	267.4	8433.2	44.	1.39	626.0	3.2	44.0
1958-59	229.5	7240.1	38.	1.19	623.0	3.2	
1959-60	261.3	8241.4	43.	1.35	987.0	5.1	
1960-61	331.6	10459.4	54.	1.72	1132.0	5.9	41.0
1961-62	478.3	15084.7	78.	2.48	2088.0	10.8	64.0
1962-63	435.1	13723.4	71.	2.25	1640.0	8.5	70.0
1963-64	299.5	9447.6	49.	1.55	960.0	5.0	42.0
1964-65	323.7	10211.0	53.	1.68	1273.0	6.6	36.0
1965-66	195.5	6167.9	32.	1.01	590.0	3.1	30.0
1966-67	283.7	8948.3	46.	1.47	786.0	4.1	31.0
1967-68	----	----	----	----	1080.0	5.6	30.0
1968-69	216.6	6832.8	35.	1.12	588.0	3.0	29.7
1969-70	188.8	5955.0	31.	0.98	524.0	2.7	25.2
1970-71	211.6	6675.1	35.	1.10	937.0	4.9	13.8
1971-72	214.9	6779.9	35.	1.11	802.0	4.2	15.8
1972-73	107.6	3395.6	18.	0.56	319.0	1.7	11.7
1973-74	127.8	4030.5	21.	0.66	511.0	2.6	
1974-75	----	----	----	----	910.0	4.7	

GAUGING STATION/STATION DE JAUGEAGE.... BEGOULADJE
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5640.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	-1.0	-1.0	-1.0	153.0	165.0	164.0	56.0	-1.0	-1.0	10.0	6.0	7.0	-1.0
1952-53	8.0	9.0	56.0	248.0	241.0	121.0	40.0	19.0	13.0	9.0	6.0	7.0	64.7
1953-54	7.0	9.0	132.0	167.0	250.0	184.0	51.0	22.0	11.0	7.0	5.0	5.0	70.8
1954-55	9.0	-1.0	-1.0	196.0	292.0	274.0	79.0	29.0	16.0	10.0	5.0	8.0	-1.0
1955-56	8.0	22.0	61.0	216.0	322.0	290.0	74.0	38.0	19.0	12.0	10.0	7.0	89.9
1956-57	-1.0	15.0	72.0	345.0	332.0	300.0	56.0	26.0	16.0	10.0	7.0	9.0	-1.0
1957-58	19.0	31.0	122.0	-1.0	224.0	137.0	-1.0	-1.0	10.0	6.0	-1.0	-1.0	-1.0
1958-59	-1.0	41.0	155.0	263.0	328.0	144.0	49.0	16.0	9.0	6.0	-1.0	-1.0	-1.0
1959-60	-1.0	9.0	30.0	147.0	404.0	167.0	49.0	24.0	14.0	9.0	5.0	6.0	-1.0
1960-61	9.0	9.0	70.0	140.0	279.0	356.0	101.0	43.0	23.0	13.0	7.0	10.0	88.3
1961-62	7.0	21.0	137.0	239.0	282.0	246.0	51.0	23.0	15.0	10.0	9.0	14.0	87.8
1962-63	10.0	15.0	47.0	70.0	372.0	243.0	44.0	23.0	13.0	8.0	5.0	11.0	71.7
1963-64	21.0	13.0	126.0	415.0	241.0	167.0	45.0	22.0	15.0	10.0	7.0	8.0	90.8
1964-65	11.0	19.0	77.0	131.0	259.0	96.0	40.0	14.0	8.0	5.0	8.0	8.0	56.3
1965-66	9.0	13.0	61.0	217.0	171.0	81.0	19.0	7.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	10.7	17.3	88.1	210.5	277.4	198.0	53.8	23.5	14.0	8.9	6.6	8.3	76.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BEGOULADJE
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... ECA
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5640.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	----	----	----	----	287.0	50.9	4.0
1952-53	64.7	2041.9	362.	11.48	438.0	77.7	4.0
1953-54	70.8	2233.8	396.	12.56	406.0	72.0	4.0
1954-55	----	----	----	----	530.0	94.0	4.0
1955-56	89.9	2835.6	503.	15.94	586.0	103.9	5.0
1956-57	----	----	----	----	600.0	106.4	6.0
1957-58	----	----	----	----	-1.0	-1.0	5.0
1958-59	----	----	----	----	485.0	86.0	
1959-60	----	----	----	----	636.0	112.8	5.0
1960-61	88.3	2785.6	494.	15.66	498.0	88.3	5.0
1961-62	87.8	2769.9	491.	15.57	448.0	79.4	7.0
1962-63	71.7	2262.7	401.	12.72	590.0	104.6	4.0
1963-64	90.8	2864.5	508.	16.11	736.0	130.5	6.0
1964-65	56.3	1776.5	315.	9.99	421.0	74.6	
1965-66	----	----	----	----	375.0	66.5	

GAUGING STATION/STATION DE JAUGEAGE.... BAIBOKOUM
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 21360.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	60.0	97.0	222.0	652.0	570.0	566.0	263.0	122.0	74.0	51.0	25.0	24.0	227.1
1952-53	92.0	98.0	270.0	-1.0	-1.0	-1.0	277.0	137.0	-1.0	-1.0	-1.0	20.0	-1.0
1953-54	57.0	73.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	20.0	-1.0
1954-55	20.0	154.0	550.0	912.0	1388.0	-1.0	-1.0	-1.0	-1.0	-1.0	33.0	36.0	-1.0
1955-56	-1.0	-1.0	444.0	-1.0	1536.0	1234.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	60.0	127.0	310.0	666.0	1094.0	-1.0	-1.0	-1.0	-1.0	47.0	30.0	33.0	-1.0
1957-58	99.0	201.0	470.0	-1.0	1517.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	74.0	265.0	487.0	619.0	995.0	566.0	274.0	-1.0	74.0	52.0	33.0	-1.0	-1.0
1959-60	-1.0	172.0	351.0	925.0	1663.0	779.0	319.0	-1.0	-1.0	-1.0	-1.0	45.0	-1.0
1960-61	104.0	107.0	316.0	953.0	1736.0	1400.0	520.0	317.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	15.0	87.0	328.0	482.0	906.0	586.0	423.0	302.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	382.0	791.0	2557.0	696.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	-1.0	182.0	559.0	777.0	866.0	622.0	162.0	94.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	101.0	165.0	372.0	1148.0	1293.0	616.0	262.0	101.0	66.0	42.0	29.0	19.0	351.1
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	65.0	188.0	362.0	1233.0	1281.0	429.0	134.0	51.0	23.0	14.0	46.0	39.0	322.0
1969-70	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970-71	91.0	151.0	461.0	1571.0	1672.0	444.0	164.0	97.0	63.0	42.0	40.0	57.0	404.4
1971-72	59.7	131.0	473.0	598.0	899.0	363.0	161.0	111.0	78.3	45.5	23.8	20.0	246.9
1972-73	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	31.1	-1.0
1973-74	111.0	138.0	266.0	477.0	818.0	404.0	117.0	62.5	31.0	14.0	8.3	33.3	206.6
1974-75	118.0	151.0	299.0	1510.0	811.0	650.0	156.0	700.0	45.0	24.2	8.9	20.0	374.4
AVG/MOYEN	75.1	146.2	384.5	887.6	1270.7	668.2	248.6	190.4	56.7	36.8	27.7	30.5	335.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BAIBOKOUM
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 21360.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	227.1	7163.9	335.	10.64	1251.0	58.6	
1952-53	----	----	----	----	-1.0	-1.0	17.0
1953-54	----	----	----	----	-1.0	-1.0	15.0
1954-55	----	----	----	----	1539.0	72.1	
1955-56	----	----	----	----	-1.0	-1.0	
1956-57	----	----	----	----	-1.0	-1.0	22.0
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	----	----	----	----	1879.0	88.0	17.0
1959-60	----	----	----	----	3345.0	156.6	
1960-61	----	----	----	----	3368.0	157.7	13.0
1961-62	----	----	----	----	1279.0	59.9	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	4438.0	207.8	
1965-66	----	----	----	----	-1.0	-1.0	
1966-67	351.1	11074.3	518.	16.44	-1.0	-1.0	
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	322.0	10157.2	476.	15.08	3215.0	150.5	16.0
1969-70	----	----	----	----	-1.0	-1.0	
1970-71	404.4	12753.6	597.	18.93	3150.0	147.5	27.0
1971-72	246.9	7787.5	365.	11.56	1850.0	86.6	16.3
1972-73	----	----	----	----	-1.0	-1.0	
1973-74	206.6	6517.7	305.	9.68	3240.0	151.7	5.5
1974-75	374.4	11807.8	553.	17.53	4040.0	189.1	

GAUGING STATION/STATION DE JAUGEAGE.... BONGOR
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 73700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1948-49	-1.0	-1.0	600.0	1227.0	1836.0	1678.0	528.0	210.0	-1.0	-1.0	-1.0	-1.0	-1.0
1949-50	-1.0	-1.0	-1.0	1180.0	1692.0	1763.0	681.0	226.0	134.0	-1.0	-1.0	-1.0	-1.0
1950-51	-1.0	-1.0	303.0	1097.0	1830.0	1802.0	529.0	213.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	90.0	210.0	875.0	1490.0	1517.0	779.0	212.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	107.0	249.0	1014.0	1799.0	-1.0	-1.0	-1.0	147.0	83.0	60.0	-1.0	-1.0
1953-54	61.0	96.0	314.0	932.0	-1.0	1490.0	469.0	192.0	116.0	79.0	55.0	50.0	-1.0
1954-55	61.0	223.0	638.0	1006.0	1785.0	1880.0	1068.0	333.0	190.0	124.0	92.0	-1.0	-1.0
1955-56	130.0	149.0	509.0	1216.0	1752.0	2314.0	1326.0	350.0	190.0	-1.0	-1.0	-1.0	-1.0
1956-57	-1.0	136.0	459.0	1152.0	1768.0	1961.0	687.0	215.0	127.0	92.0	58.0	58.0	-1.0
1957-58	97.0	248.0	513.0	1101.0	1632.0	1426.0	568.0	218.0	107.0	71.0	52.0	46.0	506.5
1958-59	58.0	211.0	746.0	913.0	1619.0	1595.0	619.0	204.0	129.0	92.0	64.0	65.0	526.2
1959-60	89.0	117.0	323.0	1033.0	1835.0	1759.0	504.0	183.0	123.0	92.0	68.0	62.0	515.6
1960-61	117.0	115.0	526.0	1285.0	1816.0	1967.0	1210.0	312.0	160.0	106.0	72.0	70.0	646.3
1961-62	74.0	129.0	789.0	1269.0	-1.0	1962.0	-1.0	242.0	138.0	100.0	-1.0	99.0	-1.0
1962-63	107.0	132.0	404.0	751.0	1605.0	2118.0	771.0	294.0	133.0	91.0	69.0	70.0	545.4
1963-64	131.0	111.0	492.0	1493.0	2015.0	1677.0	669.0	211.0	129.0	81.0	62.0	60.0	594.2
1964-65	-1.0	125.0	407.0	1038.0	1699.0	1571.0	613.0	203.0	128.0	90.0	-1.0	-1.0	-1.0
1965-66	-1.0	131.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	38.0	79.0	337.0	848.0	1817.0	1475.0	778.0	224.0	123.0	57.0	21.0	17.0	484.5
1967-68	21.0	46.0	431.0	1227.0	1691.0	1761.0	459.0	107.0	51.0	26.0	19.0	17.0	488.0
1968-69	-1.0	130.0	670.0	1278.0	1857.0	1232.0	340.0	87.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	51.0	102.0	603.0	1473.0	2159.0	1917.0	681.0	194.0	97.0	61.0	36.0	30.0	617.0
1970-71	54.0	77.0	485.0	1309.0	2424.0	1876.0	558.0	194.0	99.0	66.0	44.0	39.8	602.1
1971-72	38.2	67.1	541.0	1300.0	1810.0	1300.0	359.0	120.0	80.0	55.3	32.2	33.6	478.0
1972-73	54.8	131.0	178.0	718.0	879.0	802.0	287.0	102.0	74.9	57.7	37.0	27.4	279.0
1973-74	58.6	84.9	177.0	746.0	1190.0	986.0	257.0	94.7	59.8	38.1	26.4	23.8	311.8
1974-75	68.1	109.0	328.0	1080.0	1580.0	1210.0	435.0	156.0	84.9	54.5	37.3	28.0	430.8
AVG/MOYEN	72.7	122.7	449.2	1098.5	1732.5	1641.5	632.2	203.8	119.1	75.8	50.2	46.8	520.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BONGOR
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 73700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1948-49	----	----	----	----	2135.0	29.0	
1949-50	----	----	----	----	1895.0	25.7	
1950-51	----	----	----	----	2015.0	27.3	
1951-52	----	----	----	----	1606.0	21.8	49.0
1952-53	----	----	----	----	-1.0	-1.0	
1953-54	----	----	----	----	-1.0	-1.0	
1954-55	----	----	----	----	2039.0	27.7	
1955-56	----	----	----	----	2633.0	35.7	
1956-57	----	----	----	----	2111.0	28.6	49.0
1957-58	506.5	15975.6	217.	6.87	1740.0	23.6	45.0
1958-59	526.2	16595.8	225.	7.14	1855.0	25.2	51.0
1959-60	515.6	16262.0	221.	7.00	2234.0	30.3	51.0
1960-61	646.3	20382.7	277.	8.77	2015.0	27.3	57.0
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	545.4	17200.2	233.	7.40	2366.0	32.1	
1963-64	594.2	18740.2	254.	8.06	2135.0	29.0	
1964-65	----	----	----	----	1943.0	26.4	
1965-66	----	----	----	----	-1.0	-1.0	
1966-67	484.5	15279.1	207.	6.57	2127.0	28.9	14.0
1967-68	488.0	15389.5	209.	6.62	2040.0	27.7	15.0
1968-69	----	----	----	----	2015.0	27.3	12.0
1969-70	617.0	19457.7	264.	8.37	2400.0	32.6	22.0
1970-71	602.1	18989.4	258.	8.17	2741.0	37.2	34.0
1971-72	478.0	15075.2	205.	6.49	2140.0	29.0	21.9
1972-73	279.0	8800.6	119.	3.79	1210.0	16.4	25.5
1973-74	311.8	9834.7	133.	4.23	1500.0	20.4	20.5
1974-75	430.8	13588.8	184.	5.85	1680.0	22.8	

GAUGING STATION/STATION DE JAUGEAGE.... DOBA COTONTC
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 14300.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1947-48	-1.0	-1.0	32.0	364.0	518.0	312.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1949-50	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	-1.0	-1.0	-1.0	373.0	614.0	366.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	10.0	21.0	228.0	415.0	338.0	137.0	39.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	-1.0	52.0	350.0	555.0	378.0	88.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1953-54	-1.0	13.0	119.0	365.0	545.0	431.0	98.0	35.0	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	10.0	26.0	-1.0	250.0	642.0	593.0	201.0	55.0	26.0	17.0	10.0	10.0	-1.0
1955-56	13.0	18.0	87.0	271.0	555.0	647.0	174.0	50.0	25.0	16.0	10.0	10.0	156.3
1956-57	10.0	14.0	121.0	387.0	620.0	508.0	121.0	42.0	20.0	10.0	6.0	5.0	155.3
1957-58	19.0	50.0	112.0	307.0	-1.0	-1.0	-1.0	42.0	16.0	9.0	5.0	6.0	-1.0
1958-59	9.0	41.0	211.0	301.0	587.0	372.0	-1.0	-1.0	22.0	12.0	7.0	5.0	-1.0
1959-60	9.0	11.0	40.0	248.0	640.0	426.0	136.0	35.0	19.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	147.0	242.0	560.0	661.0	308.0	82.0	40.0	24.0	11.0	9.0	-1.0
1961-62	8.0	21.0	160.0	334.0	678.0	492.0	160.0	69.0	-1.0	-1.0	16.0	18.0	-1.0
1962-63	14.0	15.0	75.0	14.5	518.0	592.0	145.0	78.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	28.0	14.0	147.0	577.0	567.0	349.0	117.0	54.0	24.0	-1.0	-1.0	-1.0	-1.0
1964-65	16.0	17.0	112.0	255.0	-1.0	-1.0	-1.0	-1.0	-1.0	20.0	10.0	7.0	-1.0
1965-66	10.0	-1.0	-1.0	299.0	399.0	163.0	52.0	14.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	2.7	8.8	50.0	184.0	704.0	272.0	100.0	25.0	10.2	4.8	2.5	1.9	113.8
1967-68	6.1	17.0	92.0	400.0	660.0	353.0	74.0	27.0	11.6	5.5	3.0	2.1	137.6
1968-69	5.0	38.0	146.0	403.0	451.0	207.0	49.0	15.0	6.0	3.0	3.8	2.6	110.7
1969-70	14.0	6.0	73.0	411.0	793.0	407.0	98.0	32.0	15.0	7.0	3.1	11.0	155.8
1970-71	10.0	7.0	55.0	405.0	928.0	442.0	81.0	29.0	14.0	6.0	2.9	5.1	165.4
1971-72	6.7	8.1	92.5	261.0	602.0	215.0	54.6	19.6	8.6	4.4	2.3	1.8	106.3
1972-73	3.1	25.0	27.9	127.0	116.0	104.0	31.8	9.6	5.1	3.0	1.9	2.9	38.1
1973-74	4.3	7.7	26.5	152.0	233.0	159.0	30.5	8.0	3.3	2.0	1.8	0.9	52.4
1974-75	5.1	30.9	83.5	282.0	411.0	229.0	55.1	16.0	6.2	3.4	2.2	2.0	93.8
AVG/MOYEN	10.1	18.9	90.5	299.6	554.6	375.6	110.0	36.9	15.9	9.1	5.7	5.8	127.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DOBA COTONTC
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 14300.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1947-48	----	----	----	----	610.0	42.7	
1948-49	----	----	----	----	-1.0	-1.0	
1949-50	----	----	----	----	-1.0	-1.0	
1950-51	----	----	----	----	708.0	49.5	
1951-52	----	----	----	----	473.0	33.1	
1952-53	----	----	----	----	720.0	50.3	
1953-54	----	----	----	----	633.0	44.3	
1954-55	----	----	----	----	744.0	52.0	
1955-56	156.3	4930.1	345.	10.93	900.0	62.9	
1956-57	155.3	4898.5	343.	10.86	768.0	53.7	5.0
1957-58	----	----	----	----	-1.0	-1.0	5.0
1958-59	----	----	----	----	708.0	49.5	5.0
1959-60	----	----	----	----	780.0	54.5	
1960-61	----	----	----	----	820.0	57.3	7.0
1961-62	----	----	----	----	812.0	56.8	11.0
1962-63	----	----	----	----	720.0	50.3	7.0
1963-64	----	----	----	----	928.0	64.9	6.0
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	----	----	----	----	466.0	32.6	
1966-67	113.8	3589.5	251.	7.96	880.0	61.5	0.7
1967-68	137.6	4339.6	303.	9.62	756.0	52.9	1.6
1968-69	110.7	3493.6	244.	7.75	730.0	51.0	2.0
1969-70	155.8	4914.6	344.	10.90	1072.0	75.0	1.9
1970-71	165.4	5216.5	365.	11.57	1090.0	76.2	1.9
1971-72	106.3	3354.9	235.	7.44	898.0	62.8	1.4
1972-73	38.1	1201.7	84.	2.66	179.0	12.5	1.2
1973-74	52.4	1653.0	116.	3.67	320.0	22.4	0.7
1974-75	93.8	2960.1	207.	6.56	496.0	34.7	

GAUGING STATION/STATION DE JAUGEAGE.... GORE
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 12020.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	3.0	7.0	130.0	439.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1957-58	20.0	53.0	116.0	392.0	387.0	232.0	96.0	22.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	5.0	33.0	228.0	480.0	532.0	295.0	-1.0	25.0	14.0	7.0	5.0	5.0	-1.0
1959-60	6.0	7.0	52.0	305.0	660.0	340.0	91.0	35.0	18.0	11.0	7.0	8.0	128.3
1960-61	8.0	18.0	179.0	361.0	585.0	620.0	213.0	64.0	31.0	8.0	7.0	8.0	175.1
1961-62	7.0	33.0	262.0	476.0	529.0	433.0	108.0	26.0	31.0	7.0	5.0	4.0	160.0
1962-63	5.0	33.0	311.0	484.0	627.0	340.0	177.0	107.0	55.0	16.0	5.0	5.0	180.4
1963-64	5.0	35.0	224.0	472.0	502.0	279.0	175.0	106.0	30.0	7.0	3.0	4.0	153.5
1964-65	7.0	15.0	126.0	305.0	523.0	220.0	63.0	10.0	4.0	3.0	2.0	3.0	106.7
1971-72	13.8	17.7	118.0	299.0	499.0	177.0	49.7	14.4	10.1	7.7	5.8	5.9	101.5
1972-73	7.0	29.4	22.9	130.0	93.8	90.7	14.8	4.9	2.1	0.8	0.3	5.5	33.5
1973-74	7.5	8.8	34.1	169.0	257.0	139.0	23.9	7.0	2.2	0.5	0.2	0.8	54.1
1974-75	8.8	35.5	100.0	424.0	400.0	199.0	45.7	13.5	6.3	2.9	0.6	1.0	103.1
AVG/MOYEN	7.9	25.0	146.3	364.3	466.2	280.3	96.0	36.2	18.5	6.4	3.7	4.5	121.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GORE
RIVER/COURS D EAU..... PENDE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 12020.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	----	----	----	----	-1.0	-1.0	
1957-58	----	----	----	----	519.0	43.2	3.0
1958-59	----	----	----	----	633.0	52.7	
1959-60	128.3	4047.1	337.	10.68	875.0	72.8	6.0
1960-61	175.1	5524.0	460.	14.57	773.0	64.3	5.0
1961-62	160.0	5048.3	420.	13.32	712.0	59.2	4.0
1962-63	180.4	5689.6	473.	15.01	656.0	54.6	
1963-64	153.5	4840.7	403.	12.77	649.0	54.0	3.0
1964-65	106.7	3366.4	280.	8.88	638.0	53.1	
1971-72	101.5	3201.1	266.	8.44	762.0	63.4	4.4
1972-73	33.5	1056.9	88.	2.79	195.0	16.2	0.3
1973-74	54.1	1708.1	142.	4.51	373.0	31.0	0.1
1974-75	103.1	3251.6	271.	8.58	732.0	60.9	

GAUGING STATION/STATION DE JAUGEAGE.... LAI
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 56700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1948-49	-1.0	156.0	589.0	1310.0	2405.0	1324.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1949-50	-1.0	-1.0	-1.0	1140.0	1764.0	1406.0	477.0	157.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	104.0	131.0	375.0	1260.0	2380.0	1446.0	381.0	161.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	-1.0	273.0	972.0	1360.0	1279.0	-1.0	204.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	90.0	340.0	1001.0	1962.0	1673.0	449.0	183.0	-1.0	-1.0	-1.0	-1.0	-1.0
1953-54	-1.0	-1.0	380.0	921.0	1565.0	1188.0	377.0	157.0	97.0	72.0	54.0	52.0	-1.0
1954-55	65.0	274.0	678.0	969.0	2379.0	2051.0	757.0	276.0	155.0	100.0	62.0	55.0	651.7
1955-56	123.0	152.0	547.0	1234.0	1938.0	2792.0	933.0	303.0	176.0	119.0	95.0	89.0	708.4
1956-57	79.0	149.0	468.0	1089.0	2000.0	1962.0	482.0	197.0	117.0	83.0	60.0	58.0	562.0
1957-58	801.0	276.0	532.0	1056.0	1549.0	1110.0	493.0	198.0	108.0	76.0	53.0	53.0	525.4
1958-59	76.0	268.0	777.0	913.0	1818.0	1376.0	496.0	189.0	122.0	90.0	59.0	56.0	520.0
1959-60	94.0	132.0	350.0	1038.0	2375.0	1486.0	389.0	170.0	115.0	83.0	60.0	62.0	529.5
1960-61	124.0	117.0	535.0	1262.0	2104.0	2090.0	878.0	260.0	158.0	103.0	71.0	64.0	647.1
1961-62	78.0	153.0	776.0	1080.0	2049.0	1639.0	473.0	219.0	145.0	101.0	74.0	106.0	574.4
1962-63	102.0	163.0	404.0	706.0	1847.0	1973.0	524.0	245.0	159.0	113.0	84.0	72.0	532.6
1963-64	155.0	127.0	508.0	1765.0	-1.0	-1.0	502.0	218.0	141.0	100.0	70.0	74.0	-1.0
1964-65	118.0	157.0	462.0	1038.0	2135.0	-1.0	429.0	194.0	120.0	84.0	59.0	48.0	-1.0
1965-66	85.0	156.0	522.0	1212.0	1404.0	928.0	292.0	133.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971-72	55.1	89.6	532.0	1050.0	1740.0	798.0	268.0	123.0	77.5	55.4	40.9	49.4	406.5
1972-73	70.5	181.0	240.0	659.0	638.0	604.0	213.0	88.7	60.7	43.7	30.6	29.1	238.1
1973-74	58.7	75.5	196.0	657.0	1060.0	739.0	183.0	73.4	40.4	28.0	22.1	24.9	263.1
1974-75	71.0	128.0	315.0	1010.0	1450.0	956.0	319.0	141.0	83.6	53.6	36.2	35.0	383.1
AVG/MOYEN	132.8	156.5	466.6	1061.0	1805.8	1441.0	465.7	185.2	117.1	81.5	58.1	57.9	502.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... LAI
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 56700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1948-49	----	----	----	----	2855.0	50.4	
1949-50	----	----	----	----	2111.0	37.2	
1950-51	----	----	----	----	2581.0	45.5	
1951-52	----	----	----	----	1518.0	26.8	
1952-53	----	----	----	----	2474.0	43.6	
1953-54	----	----	----	----	1750.0	30.9	
1954-55	651.7	20553.5	362.	11.49	2855.0	50.4	47.0
1955-56	708.4	22340.6	394.	12.49	3730.0	65.8	72.0
1956-57	562.0	17723.2	313.	9.91	3256.0	57.4	49.0
1957-58	525.4	16569.5	292.	9.27	1788.0	31.5	44.0
1958-59	520.0	16398.7	289.	9.17	2131.0	37.6	
1959-60	529.5	16698.3	295.	9.34	3119.0	55.0	51.0
1960-61	647.1	20409.0	360.	11.41	2423.0	42.7	56.0
1961-62	574.4	18114.8	319.	10.13	2372.0	41.8	66.0
1962-63	532.6	16798.1	296.	9.39	3256.0	57.4	55.0
1963-64	----	----	----	----	3185.0	56.2	57.0
1964-65	----	----	----	----	2611.0	46.0	42.0
1965-66	----	----	----	----	1640.0	28.9	
1971-72	406.5	12821.7	226.	7.17	2320.0	40.9	35.0
1972-73	238.1	7511.6	132.	4.20	964.0	17.0	25.3
1973-74	263.1	8299.2	146.	4.64	1420.0	25.0	21.2
1974-75	383.1	12084.5	213.	6.76	1610.0	28.4	

GAUGING STATION/STATION DE JAUGEAGE.... LOGONE GANA
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 75000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	-1.0	128.0	263.0	566.0	767.0	889.0	798.0	309.0	-1.0	-1.0	55.0	-1.0	-1.0
1954-55	-1.0	-1.0	-1.0	-1.0	822.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1955-56	-1.0	-1.0	401.0	563.0	775.0	943.0	1030.0	714.0	305.0	190.0	105.0	-1.0	-1.0
1956-57	74.0	130.0	-1.0	601.0	821.0	917.0	924.0	484.0	195.0	116.0	-1.0	-1.0	-1.0
1957-58	78.0	244.0	418.0	552.0	762.0	881.0	807.0	-1.0	154.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	476.0	677.0	786.0	897.0	896.0	407.0	141.0	84.0	50.0	-1.0	-1.0
1959-60	68.0	104.0	292.0	539.0	799.0	-1.0	901.0	384.0	150.0	85.0	50.0	38.0	-1.0
1960-61	101.0	114.0	357.0	624.0	870.0	1009.0	1030.0	727.0	244.0	123.0	69.0	47.0	442.9
1961-62	59.0	91.0	409.0	714.0	928.0	1095.0	1028.0	557.0	227.0	82.0	67.0	82.0	444.9
1962-63	88.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	66.0	41.0	-1.0
1963-64	116.0	119.0	293.0	631.0	895.0	1001.0	895.0	426.0	170.0	93.0	53.0	45.0	394.7
1964-65	85.0	151.0	355.0	-1.0	940.0	1017.0	866.0	398.0	164.0	88.0	52.0	36.0	-1.0
1965-66	62.0	116.0	384.0	613.0	840.0	860.0	672.0	199.0	99.0	52.0	29.0	23.0	329.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	580.0	-1.0	-1.0	789.0	316.0	128.0	73.0	49.0	37.0	-1.0
1968-69	57.0	142.0	369.0	607.0	761.0	875.0	746.0	234.0	100.0	57.0	48.0	58.0	337.8
1969-70	62.0	127.0	251.0	388.0	783.0	948.0	908.0	587.0	175.0	102.0	58.0	46.0	369.5
1970-71	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	52.6	-1.0
1971-72	46.1	75.3	290.0	627.0	795.0	886.0	625.0	179.0	99.8	56.3	34.9	33.2	312.2
1972-73	57.6	139.0	253.0	430.0	586.0	575.0	388.0	125.0	61.5	38.6	25.8	21.3	225.0
1973-74	33.4	70.2	147.0	378.0	609.0	711.0	444.0	108.0	55.4	33.2	22.9	19.2	219.2
1974-75	53.8	107.0	258.0	510.0	777.0	917.0	694.0	195.0	91.4	56.8	34.6	27.0	310.1
AVG/MOYEN	69.3	123.8	326.0	564.7	795.3	901.3	802.2	373.4	150.5	83.1	51.1	40.4	356.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... LOGONE GANA
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 75000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	----	----	----	----	896.0	11.9	
1954-55	----	----	----	----	947.0	12.6	
1955-56	----	----	----	----	-1.0	-1.0	
1956-57	----	----	----	----	971.0	12.9	
1957-58	----	----	----	----	892.0	11.9	
1958-59	----	----	----	----	930.0	12.4	
1959-60	----	----	----	----	-1.0	-1.0	33.0
1960-61	442.9	13967.8	186.	5.91	1045.0	13.9	
1961-62	444.9	14030.8	187.	5.93	1140.0	15.2	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	394.7	12448.8	166.	5.26	-1.0	-1.0	39.0
1964-65	----	----	----	----	-1.0	-1.0	30.0
1965-66	329.0	10377.9	138.	4.39	896.0	11.9	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	337.8	10653.9	142.	4.50	891.0	11.9	27.0
1969-70	369.5	11655.1	155.	4.93	969.0	12.9	38.0
1970-71	----	----	----	----	-1.0	-1.0	
1971-72	312.2	9848.6	131.	4.16	918.0	12.2	25.4
1972-73	225.0	7097.7	95.	3.00	619.0	8.3	19.4
1973-74	219.2	6915.0	92.	2.92	736.0	9.8	17.3
1974-75	310.1	9780.3	130.	4.14	934.0	12.5	25.0

GAUGING STATION/STATION DE JAUGEAGE.... MBERE
RIVER/COURS D EAU..... MBERE
COUNTRY/PAYS..... CAM-ECA
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7430.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	-1.0	-1.0	-1.0	227.0	178.0	218.0	104.0	52.0	34.0	27.0	17.0	15.0	-1.0
1952-53	46.0	45.0	94.0	357.0	353.0	266.0	88.0	44.0	27.0	20.0	19.0	14.0	114.4
1953-54	23.0	25.0	85.0	108.0	254.0	135.0	40.0	18.0	11.0	9.0	9.0	14.0	60.9
1954-55	40.0	120.0	149.0	172.0	291.0	290.0	116.0	66.0	46.0	30.0	24.0	23.0	113.9
1955-56	55.0	86.0	174.0	328.0	422.0	543.0	143.0	83.0	57.0	40.0	38.0	38.0	167.2
1956-57	44.0	91.0	146.0	181.0	272.0	364.0	94.0	59.0	39.0	24.0	16.0	27.0	113.0
1957-58	55.0	89.0	124.0	152.0	285.0	174.0	100.0	52.0	32.0	21.0	15.0	24.0	93.5
1958-59	47.0	171.0	187.0	146.0	230.0	180.0	92.0	49.0	32.0	-1.0	-1.0	-1.0	-1.0
1959-60	40.0	69.0	149.0	281.0	418.0	189.0	82.0	50.0	34.0	-1.0	-1.0	27.0	-1.0
1960-61	54.0	-1.0	118.0	211.0	313.0	-1.0	114.0	62.0	37.0	22.0	13.0	10.0	-1.0
1961-62	21.0	79.0	158.0	172.0	321.0	255.0	76.0	46.0	30.0	19.0	20.0	38.0	102.9
1962-63	45.0	86.0	115.0	168.0	493.0	220.0	79.0	52.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	51.0	38.0	123.0	865.0	413.0	389.0	99.0	55.0	35.0	20.0	15.0	31.0	177.8
1964-65	69.0	92.0	167.0	208.0	574.0	167.0	80.0	43.0	26.0	13.0	9.0	22.0	122.5
1965-66	35.0	104.0	246.0	233.0	181.0	179.0	53.0	29.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	44.6	84.2	145.3	253.9	333.2	254.9	90.6	50.6	33.8	22.2	17.7	23.5	112.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MBERE
RIVER/COURS D EAU..... MBERE
COUNTRY/PAYS..... CAM-ECA
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7430.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	----	----	----	----	479.0	64.5	14.0
1952-53	114.4	3608.2	486.	15.40	947.0	127.5	11.0
1953-54	60.9	1921.0	259.	8.20	609.0	82.0	7.0
1954-55	113.9	3592.4	484.	15.33	835.0	112.4	17.0
1955-56	167.2	5274.3	710.	22.51	1114.0	149.9	24.0
1956-57	113.0	3566.1	480.	15.22	1083.0	145.8	13.0
1957-58	93.5	2951.2	397.	12.60	663.0	89.2	13.0
1958-59	----	----	----	----	479.0	64.5	
1959-60	----	----	----	----	1021.0	137.4	
1960-61	----	----	----	----	-1.0	-1.0	9.0
1961-62	102.9	3245.5	437.	13.85	609.0	82.0	
1962-63	----	----	----	----	1052.0	141.6	
1963-64	177.8	5608.1	755.	23.93	1870.0	251.7	12.0
1964-65	122.5	3863.1	520.	16.49	1925.0	259.1	6.0
1965-66	----	----	----	----	445.0	59.9	

GAUGING STATION/STATION DE JAUGEAGE.... MOUNDOU
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33970.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1935-36	-1.0	-1.0	596.0	1425.0	1902.0	1233.0	329.0	171.0	94.0	-1.0	-1.0	-1.0	-1.0
1936-37	-1.0	-1.0	321.0	1209.0	1680.0	829.0	882.0	151.0	105.0	-1.0	-1.0	-1.0	-1.0
1937-38	-1.0	-1.0	220.0	736.0	1062.0	1447.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1940-41	-1.0	-1.0	-1.0	1123.0	1363.0	551.0	144.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1941-42	-1.0	-1.0	325.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942-43	-1.0	-1.0	323.0	1310.0	1696.0	732.0	167.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943-44	-1.0	-1.0	355.0	1175.0	1645.0	1491.0	742.0	141.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944-45	-1.0	-1.0	-1.0	377.0	945.0	662.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945-46	-1.0	-1.0	232.0	2036.0	1164.0	1313.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946-47	-1.0	-1.0	-1.0	651.0	1500.0	1499.0	361.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947-48	-1.0	-1.0	201.0	1750.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	-1.0	-1.0	336.0	1175.0	1389.0	742.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1949-50	-1.0	-1.0	600.0	907.0	1438.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	-1.0	-1.0	303.0	1047.0	1539.0	868.0	263.0	173.0	116.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	95.0	209.0	858.0	908.0	877.0	-1.0	-1.0	-1.0	-1.0	55.0	46.0	-1.0
1952-53	94.0	95.0	263.0	853.0	1273.0	987.0	278.0	135.0	87.0	54.0	35.0	26.0	348.3
1953-54	58.0	-1.0	300.0	604.0	1159.0	643.0	233.0	154.0	89.0	-1.0	-1.0	-1.0	-1.0
1954-55	81.0	222.0	495.0	767.0	1616.0	1312.0	442.0	198.0	100.0	76.0	34.0	43.0	448.8
1955-56	112.0	130.0	385.0	1009.0	1497.0	1804.0	587.0	233.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	77.0	151.0	365.0	807.0	1316.0	1473.0	327.0	151.0	99.0	70.0	43.0	62.0	411.7
1957-58	135.0	251.0	440.0	866.0	1183.0	790.0	297.0	133.0	74.0	42.0	31.0	56.0	358.1
1958-59	80.0	268.0	581.0	667.0	1414.0	999.0	269.0	125.0	84.0	69.0	47.0	59.0	388.5
1959-60	101.0	129.0	380.0	973.0	1808.0	874.0	271.0	-1.0	-1.0	-1.0	-1.0	44.0	-1.0
1960-61	50.0	68.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	80.0	54.0	38.0	42.0	-1.0
1961-62	50.0	112.0	738.0	1200.0	1339.0	-1.0	192.0	80.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	105.0	105.0	434.0	1465.0	1207.0	1082.0	328.0	-1.0	-1.0	59.0	43.0	-1.0	-1.0
1964-65	113.0	163.0	-1.0	947.0	1693.0	837.0	329.0	-1.0	71.0	45.0	30.0	30.0	-1.0
1965-66	49.0	159.0	615.0	1171.0	1085.0	763.0	219.0	105.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	45.0	102.0	577.0	899.0	1265.0	923.0	234.0	109.0	69.0	51.0	47.0	52.0	364.4
1968-69	83.0	199.0	555.0	1405.0	1285.0	649.0	137.0	59.0	41.0	31.0	52.0	34.0	377.5
1969-70	81.0	151.0	560.0	1517.0	1794.0	855.0	274.0	163.0	61.0	44.0	33.0	41.0	464.5
1970-71	51.0	80.0	456.0	1424.0	1887.0	657.0	117.0	49.0	32.0	20.0	13.0	18.0	400.3
1971-72	40.3	73.1	548.0	707.0	1280.0	520.0	133.0	66.8	39.1	29.3	22.9	61.2	293.3
1972-73	61.2	199.0	258.0	658.0	544.0	561.0	130.0	44.5	29.1	20.1	13.7	16.9	211.2
1973-74	75.5	92.1	264.0	664.0	1020.0	547.0	93.8	44.2	26.0	14.2	9.5	19.8	239.1
1974-75	56.1	101.0	281.0	986.0	1120.0	703.0	185.0	77.5	42.7	31.1	22.5	25.0	302.5
AVG/MOYEN	76.0	140.2	403.7	1040.2	1364.1	942.6	294.9	122.0	70.4	44.3	33.5	39.7	381.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MOUNDOU
RIVER/COURS D EAU..... LOGONE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33970.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1935-36	----	----	----	----	2970.0	87.4	
1936-37	----	----	----	----	2370.0	69.8	
1937-38	----	----	----	----	1820.0	53.6	
1940-41	----	----	----	----	1524.0	44.9	
1941-42	----	----	----	----	-1.0	-1.0	
1942-43	----	----	----	----	2595.0	76.4	
1943-44	----	----	----	----	2895.0	85.2	
1944-45	----	----	----	----	1445.0	42.5	
1945-46	----	----	----	----	2670.0	78.6	
1946-47	----	----	----	----	2295.0	67.6	
1947-48	----	----	----	----	-1.0	-1.0	
1948-49	----	----	----	----	3288.0	96.8	
1949-50	----	----	----	----	-1.0	-1.0	
1950-51	----	----	----	----	1916.0	56.4	
1951-52	----	----	----	----	1337.0	39.4	42.0
1952-53	348.3	10985.0	323.	10.25	1754.0	51.6	20.0
1953-54	----	----	----	----	1385.0	40.8	
1954-55	448.8	14154.4	417.	13.21	2220.0	65.4	26.0
1955-56	----	----	----	----	2805.0	82.6	
1956-57	411.7	12984.9	382.	12.12	3640.0	107.2	35.0
1957-58	358.1	11295.1	333.	10.54	1540.0	45.3	29.0
1958-59	388.5	12251.7	361.	11.44	1763.0	51.9	34.0
1959-60	----	----	----	----	2670.0	78.6	
1960-61	----	----	----	----	-1.0	-1.0	
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	2360.0	69.5	
1964-65	----	----	----	----	2251.0	66.3	
1965-66	----	----	----	----	1534.0	45.2	21.0
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	364.4	11492.2	338.	10.73	1610.0	47.4	
1968-69	377.5	11904.8	350.	11.11	2600.0	76.5	
1969-70	464.5	14648.4	431.	13.67	2410.0	70.9	26.0
1970-71	400.3	12624.9	372.	11.78	2444.0	71.9	
1971-72	293.3	9252.3	272.	8.64	1760.0	51.8	19.1
1972-73	211.2	6663.2	196.	6.22	996.0	29.3	11.9
1973-74	239.1	7542.6	222.	7.04	1660.0	48.9	7.7
1974-75	302.5	9542.0	281.	8.91	1400.0	41.2	

GAUGING STATION/STATION DE JAUGEAGE.... TCHOA
RIVER/COURS D EAU..... TANDIILE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5870.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	0.0	0.4	2.9	11.9	71.9	65.3	19.1	6.2	3.6	2.4	1.6	1.0	15.5
1955-56	0.6	1.0	1.7	15.6	55.7	55.4	16.7	5.3	2.8	1.9	1.4	0.8	13.2
1956-57	0.2	0.1	1.2	4.9	81.0	71.5	15.9	5.7	2.9	1.8	1.3	0.9	15.6
1957-58	0.5	0.2	2.9	10.6	75.7	53.6	20.1	6.8	4.2	2.1	1.4	1.0	14.9
1958-59	1.0	1.9	3.7	15.3	33.7	46.7	12.5	6.2	3.1	1.9	1.3	0.6	10.6
1959-60	1.1	1.3	1.4	7.1	56.6	40.1	13.3	6.5	4.1	2.3	1.4	0.8	11.3
1960-61	0.2	1.1	5.2	31.5	96.5	108.0	28.2	9.6	6.0	4.5	3.4	2.1	24.6
1961-62	1.7	2.0	7.0	34.6	134.0	52.4	17.7	8.0	5.7	4.7	3.3	2.7	22.8
1962-63	1.9	1.8	2.6	6.6	67.7	77.3	27.3	10.9	6.7	4.9	3.6	2.1	17.7
1963-64	3.6	3.5	5.0	22.5	34.0	25.0	18.3	6.1	3.9	2.4	1.8	1.4	10.6
1964-65	1.2	1.8	4.4	21.2	81.9	64.6	31.4	10.2	6.1	4.2	2.7	1.8	19.2
1965-66	1.5	2.0	3.8	20.0	49.6	26.5	9.4	5.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970-71	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.4	-1.0
1971-72	2.0	2.2	4.5	13.3	58.0	34.1	15.4	7.6	5.2	3.3	2.1	1.7	12.4
1972-73	1.8	2.4	5.0	14.2	40.0	39.2	16.3	9.5	5.7	4.3	2.1	1.5	11.8
1973-74	1.4	1.4	2.9	10.4	18.8	19.6	7.2	3.7	2.2	1.5	1.1	0.8	5.9
1974-75	1.0	1.1	3.8	8.3	27.5	31.2	9.6	3.9	2.1	1.4	0.9	0.8	7.6
AVG/MOYEN	1.2	1.5	3.6	15.4	61.4	50.6	17.3	6.9	4.2	2.9	1.9	1.3	14.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TCHOA
RIVER/COURS D EAU..... TANDIILE
COUNTRY/PAYS..... TCHAD
BASIN/BASSIN..... LOGONE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5870.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	15.5	489.5	83.	2.64	101.0	17.2	0.0
1955-56	13.2	417.5	71.	2.26	77.0	13.1	0.3
1956-57	15.6	492.4	84.	2.66	113.0	19.3	0.0
1957-58	14.9	470.6	80.	2.54	97.0	16.5	0.0
1958-59	10.6	336.1	57.	1.82	54.0	9.2	0.7
1959-60	11.3	357.4	61.	1.93	73.0	12.4	0.4
1960-61	24.6	778.6	133.	4.21	186.0	31.7	0.0
1961-62	22.8	719.5	123.	3.89	200.0	34.1	1.5
1962-63	17.7	560.8	96.	3.03	120.0	20.4	1.6
1963-64	10.6	335.0	57.	1.81	37.0	6.3	1.8
1964-65	19.2	608.3	104.	3.29	121.0	20.6	1.1
1965-66	----	----	----	----	64.0	10.9	1.4
1970-71	----	----	----	----	-1.0	-1.0	
1971-72	12.4	392.6	67.	2.12	74.1	12.6	1.3
1972-73	11.8	373.1	64.	2.02	55.0	9.4	1.5
1973-74	5.9	186.5	32.	1.01	25.0	4.3	0.7
1974-75	7.6	240.7	41.	1.30	55.9	9.5	

GAUGING STATION/STATION DE JAUGEAGE.... KIRANGO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 137000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1925-26	-1.0	-1.0	1400.0	3547.0	5735.0	7109.0	4271.0	-1.0	-1.0	-1.0	112.0	55.0	-1.0
1926-27	45.0	308.0	1959.0	3368.0	5164.0	4233.0	1711.0	830.0	315.0	162.0	80.0	46.0	1518.4
1927-28	66.0	155.0	1373.0	2896.0	5034.0	5894.0	3940.0	1351.0	551.0	233.0	112.0	74.0	1806.5
1928-29	91.0	266.0	1021.0	4099.0	6698.0	6007.0	2962.0	1114.0	525.0	238.0	124.0	86.0	1935.9
1929-30	85.0	533.0	2130.0	3790.0	5599.0	6110.0	2705.0	1022.0	458.0	243.0	133.0	76.0	1907.0
1930-31	61.0	729.0	1540.0	4151.0	5647.0	5777.0	2753.0	987.0	470.0	206.0	99.0	75.0	1874.5
1931-32	158.0	675.0	1551.0	3570.0	4972.0	4825.0	1738.0	764.0	307.0	120.0	86.0	82.0	1570.6
1932-33	108.0	350.0	1505.0	2994.0	5748.0	4864.0	2326.0	990.0	416.0	187.0	113.0	67.0	1639.0
1933-34	59.0	278.0	1834.0	3394.0	5737.0	3580.0	1544.0	878.0	363.0	154.0	75.0	5.0	1491.7
1934-35	34.0	68.0	698.0	3034.0	4765.0	3892.0	2163.0	782.0	305.0	147.0	62.0	36.0	1332.1
1935-36	27.0	38.0	854.0	3362.0	4838.0	4070.0	1593.0	568.0	221.0	97.0	51.0	24.0	1311.9
1936-37	192.0	531.0	1243.0	2773.0	4634.0	5451.0	2139.0	1052.0	373.0	162.0	70.0	53.0	1556.0
1937-38	57.0	128.0	627.0	2064.0	4223.0	3806.0	1875.0	-1.0	-1.0	-1.0	-1.0	46.0	-1.0
1938-39	31.0	97.0	615.0	2568.0	4767.0	4628.0	2162.0	845.0	293.0	116.0	59.0	35.0	1351.3
1939-40	-1.0	150.0	500.0	1848.0	4126.0	4718.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1940-41	20.0	60.0	570.0	2199.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	30.0	75.0	650.0	2229.0	4583.0	5334.0	2438.0	753.0	341.0	140.0	65.0	37.0	1389.5
1951-52	91.0	431.0	1346.0	3270.0	4690.0	5060.0	5140.0	1979.0	807.0	363.0	154.0	77.0	1950.6
1952-53	50.0	105.0	967.0	2829.0	4642.0	5340.0	2404.0	977.0	471.0	210.0	118.0	52.0	1513.7
1953-54	29.0	423.0	1994.0	3712.0	5973.0	5019.0	2398.0	1068.0	557.0	239.0	125.0	105.0	1803.5
1954-55	102.0	537.0	1698.0	3693.0	5590.0	4948.0	3149.0	1750.0	766.0	415.0	195.0	164.0	1917.2
1955-56	130.0	459.0	1828.0	3473.0	5379.0	5748.0	2768.0	1299.0	667.0	381.0	182.0	104.0	1868.1
1956-57	59.0	112.0	908.0	1955.0	4002.0	4466.0	1739.0	799.0	517.0	247.0	59.0	22.0	1240.4
1957-58	19.0	186.0	1123.0	3218.0	5504.0	6382.0	3760.0	1375.0	629.0	340.0	97.0	87.0	1893.3
AVG/MOYEN	70.1	291.0	1247.2	3084.8	5132.6	5098.3	2621.7	1059.1	467.6	220.0	103.3	64.0	1621.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KIRANGO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 137000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1925-26	----	----	----	----	7416.0	54.1	41.0
1926-27	1518.4	47884.7	350.	11.08	6253.0	45.6	39.0
1927-28	1806.5	56972.4	416.	13.19	6284.0	45.9	67.0
1928-29	1935.9	61051.0	446.	14.13	7105.0	51.9	74.0
1929-30	1907.0	60139.1	439.	13.92	6652.0	48.6	50.0
1930-31	1874.5	59116.8	432.	13.68	6268.0	45.8	59.0
1931-32	1570.6	49532.5	362.	11.46	5958.0	43.5	74.0
1932-33	1639.0	51687.5	377.	11.96	6700.0	48.9	47.0
1933-34	1491.7	47043.8	343.	10.89	6392.0	46.7	26.0
1934-35	1332.1	42011.2	307.	9.72	5420.0	39.6	22.0
1935-36	1311.9	41372.6	302.	9.58	5225.0	38.1	13.0
1936-37	1556.0	49072.6	358.	11.36	6346.0	46.3	49.0
1937-38	----	----	----	----	4610.0	33.6	22.0
1938-39	1351.3	42615.6	311.	9.86	5741.0	41.9	
1939-40	----	----	----	----	5180.0	37.8	
1940-41	----	----	----	----	-1.0	-1.0	
1950-51	1389.5	43821.9	320.	10.14	5695.0	41.6	16.0
1951-52	1950.6	61516.2	449.	14.24	5695.0	41.6	13.0
1952-53	1513.7	47737.6	348.	11.05	5788.0	42.2	11.0
1953-54	1803.5	56875.1	415.	13.16	6299.0	46.0	44.0
1954-55	1917.2	60462.3	441.	13.99	5958.0	43.5	71.0
1955-56	1868.1	58914.5	430.	13.64	6486.0	47.3	40.0
1956-57	1240.4	39117.7	286.	9.05	5571.0	40.7	19.0
1957-58	1893.3	59708.1	436.	13.82	6500.0	47.4	29.0

GAUGING STATION/STATION DE JAUGEAGE.... KOULIKORO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 120000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 7- 8	52.0	274.0	823.0	1900.0	3808.0	3126.0	1983.0	920.0	352.0	160.0	73.0	36.0	1125.5
19 8- 9	34.0	205.0	668.0	2315.0	4300.0	4000.0	1664.0	793.0	314.0	163.0	93.0	60.0	1217.4
19 9-10	184.0	897.0	1921.0	4902.0	6294.0	4569.0	2712.0	1128.0	515.0	191.0	87.0	52.0	1954.3
1910-11	47.0	192.0	848.0	3058.0	4542.0	3713.0	1432.0	573.0	248.0	90.0	48.0	32.0	1235.2
1911-12	53.0	306.0	1194.0	4133.0	6257.0	4147.0	1754.0	783.0	364.0	163.0	84.0	38.0	1606.3
1912-13	28.0	84.0	936.0	2315.0	4599.0	4704.0	1679.0	677.0	366.0	154.0	50.0	24.0	1301.3
1913-14	28.0	131.0	656.0	1284.0	3120.0	2335.0	1383.0	515.0	203.0	59.0	42.0	53.0	817.4
1914-15	89.0	286.0	602.0	1206.0	3689.0	3196.0	1162.0	587.0	199.0	67.0	31.0	29.0	928.5
1915-16	105.0	614.0	1586.0	2908.0	4878.0	3788.0	1481.0	656.0	345.0	165.0	67.0	38.0	1385.9
1916-17	45.0	147.0	1428.0	3382.0	5106.0	4182.0	1244.0	486.0	235.0	118.0	75.0	24.0	1372.6
1917-18	43.0	250.0	784.0	3621.0	5936.0	3756.0	1496.0	957.0	464.0	232.0	121.0	124.0	1482.0
1918-19	173.0	898.0	1685.0	4030.0	4632.0	4186.0	1832.0	857.0	398.0	192.0	120.0	48.0	1587.5
1919-20	58.0	597.0	1605.0	3268.0	4757.0	3790.0	1430.0	637.0	292.0	124.0	65.0	46.0	1389.0
1920-21	71.0	381.0	1518.0	2657.0	4434.0	3185.0	1454.0	629.0	264.0	118.0	74.0	43.0	1235.6
1921-22	42.0	104.0	709.0	2393.0	4058.0	2867.0	1227.0	586.0	220.0	106.0	46.0	32.0	1032.5
1922-23	95.0	219.0	622.0	2293.0	4535.0	5695.0	2406.0	1113.0	470.0	187.0	88.0	138.0	1488.4
1923-24	99.0	328.0	1388.0	3032.0	5051.0	4283.0	2451.0	1009.0	472.0	259.0	115.0	44.0	1544.2
1924-25	36.0	235.0	1883.0	5093.0	7344.0	7088.0	2616.0	1069.0	546.0	272.0	134.0	72.0	2199.0
1925-26	88.0	477.0	1595.0	4134.0	6859.0	8558.0	3918.0	1358.0	675.0	358.0	152.0	78.0	2354.1
1926-27	61.0	559.0	2192.0	3820.0	5929.0	4054.0	1795.0	937.0	457.0	195.0	83.0	43.0	1677.0
1927-28	96.0	291.0	1564.0	3230.0	5651.0	6234.0	4107.0	1332.0	617.0	286.0	120.0	61.0	1965.7
1928-29	131.0	411.0	1289.0	5107.0	7709.0	6054.0	2964.0	1126.0	608.0	260.0	163.0	107.0	2160.7
1929-30	120.0	784.0	2353.0	4261.0	6228.0	6385.0	2542.0	1022.0	519.0	293.0	153.0	93.0	2062.7
1930-31	88.0	925.0	1825.0	4674.0	6118.0	5884.0	2657.0	1013.0	558.0	271.0	127.0	166.0	2025.5
1931-32	327.0	947.0	1702.0	3877.0	5584.0	4731.0	1676.0	889.0	553.0	271.0	136.0	118.0	1734.2
1932-33	166.0	570.0	1769.0	3250.0	6599.0	4782.0	2187.0	971.0	485.0	229.0	142.0	88.0	1769.8
1933-34	94.0	500.0	2020.0	3978.0	6214.0	3523.0	1476.0	893.0	430.0	201.0	102.0	62.0	1624.4
1934-35	52.0	145.0	957.0	3642.0	5056.0	4194.0	2057.0	809.0	362.0	187.0	77.0	54.0	1466.0
1935-36	39.0	97.0	1124.0	4037.0	5224.0	4160.0	1478.0	612.0	266.0	127.0	76.0	44.0	1440.3
1936-37	357.0	694.0	1381.0	3023.0	5514.0	5836.0	2104.0	998.0	424.0	197.0	112.0	93.0	1727.7
1937-38	98.0	206.0	864.0	2310.0	4786.0	4033.0	1828.0	655.0	290.0	130.0	83.0	58.0	1278.4
1938-39	55.0	183.0	751.0	3107.0	5322.0	4780.0	2171.0	720.0	312.0	138.0	67.0	39.0	1470.4
1939-40	73.0	260.0	669.0	2262.0	4613.0	4925.0	2023.0	838.0	370.0	158.0	84.0	45.0	1360.0
1940-41	47.0	180.0	909.0	2671.0	3516.0	3657.0	1867.0	657.0	297.0	142.0	59.0	32.0	1169.5
1941-42	42.0	218.0	942.0	2420.0	5368.0	3093.0	1487.0	709.0	324.0	150.0	65.0	46.0	1238.6
1942-43	121.0	290.0	753.0	2251.0	4104.0	2155.0	1213.0	596.0	233.0	108.0	47.0	44.0	992.9
1943-44	72.0	165.0	667.0	2159.0	4762.0	3988.0	1479.0	539.0	245.0	106.0	43.0	28.0	1187.7
1944-45	49.0	111.0	472.0	1798.0	4445.0	2828.0	1333.0	528.0	199.0	93.0	39.0	23.0	993.1
1945-46	34.0	117.0	434.0	2772.0	4592.0	4266.0	1631.0	592.0	217.0	101.0	41.0	41.0	1236.5
1946-47	79.0	287.0	957.0	3034.0	4825.0	5275.0	2460.0	854.0	371.0	154.0	62.0	25.0	1531.9
1947-48	30.0	165.0	911.0	2599.0	5002.0	4333.0	1231.0	482.0	183.0	85.0	47.0	31.0	1258.2
1948-49	51.0	322.0	1643.0	3882.0	6086.0	4516.0	2088.0	757.0	365.0	190.0	108.0	98.0	1675.5

1949-50	82.0	122.0	619.0	3332.0	6281.0	3478.0	1433.0	656.0	286.0	145.0	74.0	42.0	1379.1
1950-51	65.0	128.0	730.0	2518.0	5198.0	5547.0	2391.0	768.0	374.0	207.0	142.0	87.0	1512.9
1951-52	221.0	544.0	1583.0	3753.0	5349.0	5431.0	5433.0	1814.0	751.0	419.0	208.0	116.0	2135.1
1952-53	100.0	186.0	1208.0	3221.0	5134.0	5513.0	2316.0	906.0	508.0	238.0	143.0	81.0	1629.5
1953-54	97.0	560.0	2174.0	4436.0	6575.0	5152.0	2373.0	1069.0	608.0	325.0	195.0	188.0	1979.3
1954-55	208.0	642.0	1947.0	4284.0	6127.0	5148.0	3280.0	1674.0	760.0	432.0	289.0	207.0	2083.1
1955-56	222.0	677.0	2037.0	4076.0	6095.0	5985.0	2763.0	1286.0	659.0	377.0	238.0	174.0	2049.0
1956-57	127.0	198.0	980.0	2272.0	4807.0	4561.0	1733.0	769.0	394.0	186.0	108.0	56.0	1349.2
1957-58	71.0	323.0	1333.0	3850.0	6495.0	6915.0	3851.0	1253.0	627.0	376.0	163.0	140.0	2116.4
1958-59	267.0	824.0	1489.0	2221.0	4521.0	4440.0	2241.0	1387.0	610.0	332.0	171.0	85.0	1549.0
1959-60	101.0	320.0	1402.0	3044.0	5759.0	4500.0	1858.0	767.0	368.0	170.0	81.0	55.0	1535.4
1960-61	78.0	295.0	1422.0	3816.0	5958.0	4941.0	2246.0	851.0	371.0	162.0	75.0	30.0	1687.0
1961-62	67.0	90.0	967.0	3028.0	5432.0	3374.0	1299.0	493.0	199.0	87.0	35.0	30.0	1258.4
1962-63	120.0	204.0	1117.0	3366.0	7257.0	6094.0	2839.0	1189.0	500.0	261.0	163.0	63.0	1931.0
1963-64	123.0	129.0	658.0	2482.0	4895.0	6010.0	2830.0	877.0	351.0	163.0	68.0	37.0	1551.9
1964-65	37.0	397.0	1150.0	3570.0	5270.0	4950.0	1750.0	901.0	493.0	243.0	138.0	87.0	1582.1
1965-66	83.0	326.0	1740.0	2650.0	4640.0	4450.0	1850.0	664.0	284.0	168.0	94.0	75.0	1418.6
1966-67	71.0	185.0	584.0	2690.0	4460.0	4920.0	2360.0	840.0	461.0	290.0	127.0	51.0	1419.9
1967-68	102.0	137.0	895.0	3210.0	5850.0	7910.0	2930.0	1030.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	114.0	702.0	1096.0	3020.0	4384.0	3740.0	1737.0	865.0	402.0	190.0	112.0	80.0	1370.1
1969-70	56.0	284.0	1770.0	3610.0	6690.0	5640.0	4250.0	1190.0	576.0	265.0	138.0	90.0	2046.5
1970-71	76.0	176.0	502.0	2391.0	5108.0	2822.0	1131.0	595.0	228.0	101.0	51.0	35.0	1101.3
1971-72	46.4	99.6	692.0	3291.0	5359.0	3473.0	1092.0	631.0	251.0	108.0	46.7	39.5	1260.7
1972-73	161.0	642.0	1240.0	2330.0	3570.0	2645.0	1313.0	615.0	254.0	108.0	41.0	21.0	1078.3
1973-74	22.0	136.0	341.0	2641.0	3539.0	2137.0	1172.0	397.0	170.0	59.0	32.0	27.0	889.4
AVG/MOYEN	95.0	348.9	1198.1	3152.0	5256.7	4546.7	2084.3	855.9	395.6	191.8	98.9	65.8	1524.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE..... KOULIKORO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 120000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 7- 8	1125.5	35496.3	296.	9.38	4290.0	35.8	23.0
19 8- 9	1217.4	38392.4	320.	10.15	4980.0	41.5	37.0
19 9-10	1954.3	61631.8	514.	16.29	6960.0	58.0	34.0
1910-11	1235.2	38954.8	325.	10.29	4830.0	40.3	23.0
1911-12	1606.3	50657.3	422.	13.39	6740.0	56.2	26.0
1912-13	1301.3	41038.8	342.	10.84	5610.0	46.8	19.5
1913-14	817.4	25778.0	215.	6.81	3646.0	30.4	36.0
1914-15	928.5	29283.8	244.	7.74	4467.0	37.2	21.0
1915-16	1385.9	43706.2	364.	11.55	5285.0	44.0	36.0
1916-17	1372.6	43288.4	361.	11.44	6002.0	50.0	18.0
1917-18	1482.0	46736.3	389.	12.35	6900.0	57.5	85.0
1918-19	1587.5	50066.0	417.	13.23	4980.0	41.5	35.0
1919-20	1389.0	43806.1	365.	11.58	5375.0	44.8	37.0
1920-21	1235.6	38967.9	325.	10.30	4980.0	41.5	36.0
1921-22	1032.5	32560.9	271.	8.60	5375.0	44.8	19.0
1922-23	1488.4	46938.7	391.	12.40	6360.0	53.0	48.0
1923-24	1544.2	48699.4	406.	12.87	5505.0	45.9	27.0
1924-25	2199.0	69347.6	578.	18.33	9500.0	79.2	48.0
1925-26	2354.1	74241.0	619.	19.62	9700.0	80.8	51.0
1926-27	1677.0	52888.5	441.	13.98	7020.0	58.5	26.0
1927-28	1965.7	61991.8	517.	16.38	6980.0	58.2	39.0
1928-29	2160.7	68141.4	568.	18.01	7640.0	63.7	89.0
1929-30	2062.7	65050.8	542.	17.19	7560.0	63.0	66.0
1930-31	2025.5	63876.1	532.	16.88	6840.0	57.0	66.0
1931-32	1734.2	54691.3	456.	14.45	6440.0	53.7	105.0
1932-33	1769.8	55813.4	465.	14.75	7740.0	64.5	64.0
1933-34	1624.4	51227.6	427.	13.54	7400.0	61.7	39.0
1934-35	1466.0	46231.7	385.	12.22	5910.0	49.3	36.0
1935-36	1440.3	45422.3	379.	12.00	5790.0	48.3	38.0
1936-37	1727.7	54486.3	454.	14.40	7610.0	63.4	73.0
1937-38	1278.4	40316.1	336.	10.65	5140.0	42.8	31.0
1938-39	1470.4	46371.0	386.	12.25	6380.0	53.2	27.0
1939-40	1360.0	42888.9	357.	11.33	5670.0	47.3	34.0
1940-41	1169.5	36881.3	307.	9.75	4010.0	33.4	23.0
1941-42	1238.6	39062.5	326.	10.32	6170.0	51.4	32.0
1942-43	992.9	31312.6	261.	8.27	4880.0	40.7	30.0
1943-44	1187.7	37456.8	312.	9.90	5220.0	43.5	25.0
1944-45	993.1	31320.5	261.	8.28	4920.0	41.0	19.0
1945-46	1236.5	38994.2	325.	10.30	5240.0	43.7	28.0
1946-47	1531.9	48310.5	403.	12.77	5580.0	46.5	21.0
1947-48	1258.2	39680.1	331.	10.49	6220.0	51.8	26.0
1948-49	1675.5	52838.5	440.	13.96	6540.0	54.5	61.0
1949-50	1379.1	43493.4	362.	11.49	6940.0	57.8	34.0

1950-51	1512.9	47711.3	398.	12.61	6440.0	53.7	69.0
1951-52	2135.1	67334.6	561.	17.79	5910.0	49.3	78.0
1952-53	1629.5	51387.9	428.	13.58	6280.0	52.3	60.0
1953-54	1979.3	62420.2	520.	16.49	6960.0	58.0	130.0
1954-55	2083.1	65694.7	547.	17.36	6480.0	54.0	137.0
1955-56	2049.0	64619.8	538.	17.08	7456.0	62.1	107.0
1956-57	1349.2	42549.9	355.	11.24	6210.0	51.8	36.0
1957-58	2116.4	66743.3	556.	17.64	7590.0	63.3	114.0
1958-59	1549.0	48849.2	407.	12.91	5437.0	45.3	67.0
1959-60	1535.4	48420.9	404.	12.80	6945.0	57.9	36.0
1960-61	1687.0	53203.8	443.	14.06	6550.0	54.6	
1961-62	1258.4	39685.4	331.	10.49	6172.0	51.4	
1962-63	1931.0	60898.6	507.	16.09	7817.0	65.1	51.0
1963-64	1551.9	48941.2	408.	12.93	7228.0	60.2	
1964-65	1582.1	49895.2	416.	13.18	6640.0	55.3	
1965-66	1418.6	44739.0	373.	11.82	5750.0	47.9	
1966-67	1419.9	44778.4	373.	11.83	5620.0	46.8	
1967-68	----	----	----	----	9310.0	77.6	
1968-69	1370.1	43209.5	360.	11.42	5186.0	43.2	69.0
1969-70	2046.5	64541.0	538.	17.05	7722.0	64.4	
1970-71	1101.3	34731.6	289.	9.18	-1.0	-1.0	
1971-72	1260.7	39759.5	331.	10.51	5488.0	45.7	24.8
1972-73	1078.3	34006.3	283.	8.99	-1.0	-1.0	
1973-74	889.4	28048.6	234.	7.41	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... KOUROUSSA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 18000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1923-24	-1.0	-1.0	-1.0	383.0	899.0	669.0	540.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1925-26	-1.0	-1.0	-1.0	652.0	1220.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1926-27	-1.0	-1.0	345.0	644.0	1775.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945-46	-1.0	-1.0	-1.0	366.0	459.0	753.0	225.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946-47	-1.0	-1.0	-1.0	395.0	620.0	675.0	274.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947-48	-1.0	-1.0	160.0	287.0	629.0	452.0	110.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	-1.0	-1.0	260.0	427.0	972.0	791.0	315.0	115.0	-1.0	-1.0	-1.0	-1.0	-1.0
1949-50	-1.0	-1.0	130.0	495.0	930.0	462.0	235.0	65.0	-1.0	-1.0	-1.0	-1.0	-1.0
1950-51	-1.0	-1.0	94.0	160.0	549.0	673.0	242.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	-1.0	334.0	539.0	781.0	728.0	947.0	207.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	-1.0	180.0	354.0	-1.0	773.0	263.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1953-54	-1.0	-1.0	400.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	34.0	111.0	231.0	356.0	724.0	690.0	553.0	300.0	133.0	71.0	37.0	27.0	272.2
1955-56	36.0	180.0	363.0	492.0	1151.0	1018.0	497.0	272.0	132.0	87.0	45.0	27.0	358.3
1956-57	23.0	76.0	214.0	312.0	577.0	444.0	218.0	106.0	46.0	21.0	12.0	7.0	171.3
1957-58	8.0	47.0	221.0	497.0	1074.0	1096.0	509.0	199.0	111.0	58.0	27.0	22.0	322.4
1958-59	40.0	123.0	140.0	196.0	644.0	802.0	411.0	274.0	125.0	48.0	25.0	9.0	236.4
1959-60	12.0	99.0	229.0	323.0	698.0	441.0	284.0	115.0	55.0	21.0	10.0	-1.0	-1.0
1960-61	9.0	57.0	-1.0	-1.0	-1.0	-1.0	283.0	117.0	51.0	24.0	13.0	7.0	-1.0
1961-62	6.0	7.0	242.0	525.0	784.0	384.0	195.0	88.0	39.0	22.0	11.0	7.0	192.5
1962-63	13.0	-1.0	123.0	-1.0	-1.0	-1.0	365.0	180.0	93.0	51.0	23.0	11.0	-1.0
1963-64	16.0	117.0	172.0	443.0	703.0	940.0	354.0	-1.0	68.0	27.0	12.0	7.0	-1.0
1964-65	-1.0	-1.0	-1.0	419.0	799.0	812.0	298.0	147.0	78.0	32.0	13.0	8.0	-1.0
1965-66	10.0	54.0	331.0	688.0	1182.0	1208.0	452.0	129.0	36.0	24.0	17.0	12.0	345.2
1966-67	9.0	53.0	148.0	316.0	607.0	810.0	380.0	226.0	150.0	45.0	14.0	8.0	230.5
1967-68	12.0	81.0	162.0	434.0	945.0	1107.0	369.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	17.5	83.7	223.9	421.8	851.0	748.9	361.6	169.3	85.9	40.8	19.9	12.6	253.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KOUROUSSA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 18000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1923-24	----	----	----	----	1057.0	58.7	
1925-26	----	----	----	----	1415.0	78.6	
1926-27	----	----	----	----	1415.0	78.6	
1945-46	----	----	----	----	1126.0	62.6	
1946-47	----	----	----	----	991.0	55.1	
1947-48	----	----	----	----	816.0	45.3	
1948-49	----	----	----	----	1510.0	83.9	
1949-50	----	----	----	----	1057.0	58.7	
1950-51	----	----	----	----	844.0	46.9	
1951-52	----	----	----	----	1643.0	91.3	
1952-53	----	----	----	----	1073.0	59.6	
1953-54	----	----	----	----	-1.0	-1.0	
1954-55	272.2	8585.6	477.	15.13	887.0	49.3	19.0
1955-56	358.3	11300.4	628.	19.91	1710.0	95.0	15.0
1956-57	171.3	5403.1	300.	9.52	867.0	48.2	6.0
1957-58	322.4	10167.7	565.	17.91	1339.0	74.4	
1958-59	236.4	7455.6	414.	13.13	-1.0	-1.0	
1959-60	----	----	----	----	-1.0	-1.0	
1960-61	----	----	----	----	-1.0	-1.0	
1961-62	192.5	6070.6	337.	10.69	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	345.2	10887.8	605.	19.18	-1.0	-1.0	
1966-67	230.5	7269.0	404.	12.81	-1.0	-1.0	
1967-68	----	----	----	----	1545.0	85.8	

GAUGING STATION/STATION DE JAUGEAGE.... KOUTO
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4740.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1960-61	-1.0	-1.0	42.0	54.8	223.5	167.0	34.3	11.3	4.7	1.9	0.8	0.3	-1.0
1961-62	0.2	0.2	8.1	60.8	191.1	82.8	20.9	6.3	2.2	0.9	0.3	0.1	31.1
1962-63	0.2	0.3	5.4	43.0	251.0	157.0	53.4	26.6	8.9	4.4	2.1	0.5	46.0
1963-64	0.4	0.6	29.1	106.0	223.0	194.0	69.0	20.3	8.0	3.5	1.2	0.3	54.6
1964-65	0.2	0.4	25.1	163.0	322.0	158.0	47.3	22.1	15.6	7.6	3.7	1.6	63.8
1965-66	1.2	5.4	66.8	206.2	257.2	161.3	50.6	16.7	8.0	4.2	1.9	1.3	65.0
1966-67	1.3	0.7	2.8	68.0	191.0	231.0	73.8	23.7	9.5	5.2	2.4	1.3	50.8
1967-68	2.9	3.1	18.9	131.0	274.0	150.0	42.3	15.0	6.6	3.7	2.1	1.4	54.2
1968-69	0.9	10.2	23.9	63.9	118.0	86.4	28.5	15.5	6.5	3.4	1.5	0.5	29.9
1969-70	0.3	0.5	26.1	154.0	193.0	165.0	62.9	17.4	6.3	27.7	1.1	0.4	54.5
1970-71	0.2	0.8	2.6	130.0	207.0	85.8	17.1	5.9	2.6	1.3	0.6	0.3	37.8
1971-72	1.0	1.7	2.0	59.5	151.0	87.4	16.6	8.2	3.3	1.5	0.6	1.1	27.8
1972-73	2.2	18.0	16.5	81.3	106.0	67.7	39.1	6.1	1.9	0.7	0.3	-1.0	-1.0
1973-74	-1.0	-1.0	0.7	81.5	119.0	35.8	11.8	2.9	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.9	3.4	19.2	100.2	201.9	130.6	40.5	14.1	6.4	5.0	1.4	0.7	43.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KOUTO
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4740.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1960-61	----	----	----	----	396.0	83.5	
1961-62	31.1	982.6	207.	6.57	240.0	50.6	0.2
1962-63	46.0	1452.7	306.	9.72	392.0	82.7	0.1
1963-64	54.6	1722.3	363.	11.52	353.0	74.5	0.2
1964-65	63.8	2014.6	425.	13.48	506.0	106.8	0.1
1965-66	65.0	2051.9	433.	13.73	433.0	91.4	0.8
1966-67	50.8	1604.9	339.	10.74	310.0	65.4	0.5
1967-68	54.2	1710.8	361.	11.45	396.0	83.5	0.9
1968-69	29.9	943.9	199.	6.32	466.0	98.3	0.6
1969-70	54.5	1720.5	363.	11.51	232.0	48.9	0.3
1970-71	37.8	1193.6	252.	7.99	258.0	54.4	0.3
1971-72	27.8	877.4	185.	5.87	148.0	31.2	0.3
1972-73	----	----	----	----	117.0	24.7	0.0
1973-74	----	----	----	----	186.0	39.2	

GAUGING STATION/STATION DE JAUGEAGE.... MADAROUNFA
RIVER/COURS D EAU..... 6.MARADI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5400.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	-1.0	-1.0	17.4	45.0	24.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
1957-58	0.6	0.0	3.5	21.8	12.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	3.3
1958-59	0.0	0.0	6.6	57.5	8.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.0
1960-61	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	0.0	2.5	10.8	87.0	61.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0	13.5
1962-63	0.0	0.8	11.1	11.6	15.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2
1963-64	0.0	2.0	11.1	38.3	3.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	4.6
1964-65	0.0	1.3	20.0	55.6	42.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	10.0
1965-66	0.0	0.0	7.7	29.1	13.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.2
1966-67	0.0	0.1	7.2	12.9	28.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	4.1
1967-68	0.0	9.1	19.1	43.3	29.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
1968-69	0.0	1.9	14.7	10.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
1969-70	0.0	6.7	11.9	17.8	8.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.8
1970-71	0.0	0.0	34.2	60.8	33.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7
1971-72	0.0	0.1	12.2	33.3	13.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.9
1972-73	2.1	4.2	8.1	14.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
AVG/MOYEN	0.1	2.0	13.0	35.9	20.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	5.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MOPTI
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 281600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1922-23	----	----	----	----	3030.0	10.8	
1923-24	----	----	----	----	2775.0	9.9	
1924-25	1457.2	45955.8	163.	5.17	3100.0	11.0	
1925-26	----	----	----	----	3065.0	10.9	
1926-27	----	----	----	----	2730.0	9.7	
1927-28	1379.5	43506.5	154.	4.90	2975.0	10.6	
1928-29	1391.5	43882.3	156.	4.94	3065.0	10.9	
1929-30	----	----	----	----	2830.0	10.0	
1933-34	----	----	----	----	-1.0	-1.0	
1934-35	----	----	----	----	2735.0	9.7	
1935-36	----	----	----	----	2830.0	10.0	
1936-37	----	----	----	----	2950.0	10.5	
1943-44	----	----	----	----	2650.0	9.4	
1944-45	756.0	23843.8	85.	2.68	2380.0	8.5	46.0
1945-46	1063.7	33546.4	119.	3.78	2810.0	10.0	40.0
1946-47	1158.0	36518.6	130.	4.11	2800.0	9.9	61.0
1947-48	860.7	27144.6	96.	3.06	2610.0	9.3	47.0
1948-49	985.9	31091.8	110.	3.50	2610.0	9.3	43.0
1949-50	----	----	----	----	2860.0	10.2	53.0
1950-51	1141.6	36003.6	128.	4.05	2910.0	10.3	47.0
1951-52	1430.2	45104.3	160.	5.08	2955.0	10.5	65.0
1952-53	1328.6	41900.8	149.	4.72	3070.0	10.9	72.0
1953-54	1404.2	44284.4	157.	4.99	3070.0	10.9	74.0
1954-55	1516.1	47813.8	170.	5.38	3070.0	10.9	136.0
1955-56	1448.8	45690.4	162.	5.15	3070.0	10.9	136.0
1956-57	1071.0	33777.6	120.	3.80	2780.0	9.9	102.0
1957-58	1393.8	43955.9	156.	4.95	3220.0	11.4	54.0
1958-59	1328.0	41882.4	149.	4.72	2985.0	10.6	114.0
1959-60	1114.0	35133.7	125.	3.96	2830.0	10.0	48.0
1960-61	1182.4	37288.6	132.	4.20	2832.0	10.1	42.0
1961-62	1053.4	33220.5	118.	3.74	2850.0	10.1	30.0
1962-63	1220.8	38500.2	137.	4.34	2925.0	10.4	35.0
1963-64	1094.1	34505.6	123.	3.89	2815.0	10.0	57.0
1964-65	1303.7	41115.0	146.	4.63	3010.0	10.7	39.0
1965-66	1166.4	36784.1	131.	4.14	2820.0	10.0	66.0
1966-67	1061.3	33470.2	119.	3.77	2820.0	10.0	30.0
1967-68	1271.0	40084.8	142.	4.51	3070.0	10.9	41.0
1968-69	----	----	----	----	2750.0	9.8	39.0
1969-70	----	----	----	----	3314.0	11.8	
1970-71	----	----	----	----	-1.0	-1.0	35.0

GAUGING STATION/STATION DE JAUGEAGE.... NIAMEY
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 700000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1928-29	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1754.0	1979.0	1942.0	1632.0	-1.0
1929-30	864.0	334.0	297.0	860.0	1190.0	1365.0	1523.0	1671.0	1835.0	2003.0	1927.0	1539.0	1284.0
1930-31	809.0	360.0	410.0	777.0	1192.0	1329.0	1501.0	1677.0	1861.0	1927.0	1750.0	1302.0	1241.2
1931-32	558.0	272.0	347.0	681.0	1057.0	1290.0	1492.0	1647.0	1719.0	1737.0	1490.0	795.0	1090.4
1932-33	316.0	120.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1933-34	-1.0	-1.0	100.0	600.0	1029.0	1220.0	1410.0	1636.0	1763.0	1802.0	1599.0	1026.0	-1.0
1934-35	416.0	145.0	99.0	279.0	879.0	1205.0	1363.0	1579.0	1725.0	1719.0	1308.0	584.0	941.7
1935-36	210.0	71.0	50.0	330.0	921.0	1266.0	1423.0	1600.0	1742.0	1788.0	1496.0	784.0	973.4
1936-37	280.0	108.0	300.0	751.0	1444.0	1336.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1937-38	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1938-39	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1939-40	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1940-41	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1440.0	1305.0	885.0	437.0	-1.0
1941-42	99.0	33.0	31.0	340.0	726.0	980.0	1202.0	1403.0	1487.0	1353.0	814.0	278.0	728.8
1942-43	77.0	30.0	77.0	400.0	851.0	1039.0	1216.0	1387.0	1406.0	1225.0	626.0	156.0	707.5
1943-44	45.0	28.0	32.0	381.0	1128.0	1221.0	1272.0	1481.0	1610.0	1452.0	859.0	266.0	814.5
1944-45	66.0	29.0	18.0	128.0	586.0	947.0	1178.0	1383.0	1457.0	1158.0	520.0	146.0	634.6
1945-46	42.0	28.0	24.0	50.0	910.0	1276.0	1440.0	1625.0	1775.0	1657.0	1299.0	505.0	885.9
1946-47	111.0	34.0	48.0	459.0	1025.0	1208.0	1355.0	1540.0	1680.0	1788.0	1544.0	834.0	968.8
1947-48	210.0	70.0	29.0	249.0	803.0	1045.0	1201.0	1397.0	1491.0	1278.0	615.0	202.0	715.8
1948-49	51.0	23.0	18.0	491.0	957.0	1170.0	1359.0	1520.0	1657.0	1552.0	1000.0	361.0	846.5
1949-50	97.0	51.0	38.0	143.0	818.0	1105.0	1294.0	1471.0	1579.0	1399.0	819.0	272.0	757.1
1950-51	74.0	31.0	22.0	491.0	1303.0	1360.0	1504.0	1666.0	1835.0	1895.0	1699.0	961.0	1070.0
1951-52	274.0	75.0	185.0	582.0	966.0	1203.0	1393.0	1557.0	1756.0	1885.0	1885.0	1598.0	1113.2
1952-53	863.0	264.0	108.0	449.0	1395.0	1548.0	1571.0	1684.0	1863.0	1953.0	1830.0	1303.0	1235.9
1953-54	541.0	204.0	186.0	822.0	1345.0	1449.0	1574.0	1718.0	1941.0	2016.0	1855.0	1346.0	1249.7
1954-55	577.0	220.0	300.0	794.0	1162.0	1370.0	1555.0	1727.0	1944.0	2065.0	1977.0	1618.0	1275.7
1955-56	898.0	304.0	275.0	792.0	1235.0	1443.0	1624.0	1791.0	2003.0	2133.0	1930.0	1465.0	1324.4
1956-57	667.0	223.0	123.0	456.0	1063.0	1262.0	1396.0	1559.0	1692.0	1692.0	1399.0	650.0	1015.1
1957-58	197.0	78.0	72.0	525.0	1005.0	1263.0	1485.0	1662.0	1879.0	2033.0	1466.0	1614.0	1106.5
1958-59	764.0	281.0	349.0	889.0	1511.0	1348.0	1463.0	1639.0	1797.0	1871.0	1722.0	1159.0	1232.7
1959-60	421.0	106.0	78.0	544.0	1247.0	1290.0	1452.0	1654.0	1796.0	1815.0	1435.0	636.0	1039.5
1960-61	161.0	48.0	53.0	514.0	1029.0	1279.0	1470.0	1665.0	1826.0	1829.0	1528.0	827.0	1019.0
1961-62	250.0	76.2	70.6	458.0	1304.0	1294.0	1422.0	1612.0	1744.0	1647.0	1130.0	374.0	948.4
1962-63	119.0	40.7	52.6	512.0	1234.0	1319.0	1481.0	1667.0	1805.0	2039.0	1745.0	1128.0	1095.1
1963-64	404.0	135.0	106.0	300.0	838.0	1135.0	1325.0	1558.0	1761.0	1828.0	1532.0	686.0	967.3
1964-65	201.0	96.4	97.0	696.0	1394.0	1405.0	1528.0	1738.0	1980.0	2059.0	1787.0	1125.0	1175.5
1965-66	383.0	126.0	84.3	677.0	1516.0	1494.0	1585.0	1739.0	1899.0	1882.0	1402.0	570.0	1113.1
1966-67	166.0	67.0	48.4	168.0	732.0	1170.0	1433.0	1704.0	1914.0	1935.0	1437.0	556.0	944.2
1967-68	163.0	58.0	55.0	427.0	1392.0	1413.0	1609.0	1879.0	2166.0	2306.0	1975.0	1139.0	1215.1
1968-69	357.0	114.0	184.0	648.0	1009.0	1294.0	1549.0	1763.0	1896.0	1702.0	1017.0	321.0	987.8
1969-70	-1.0	-1.0	53.0	581.0	1222.0	1467.0	1648.0	1904.0	2236.0	2285.0	1844.0	847.0	-1.0

GAUGING STATION/STATION DE JAUGEAGE.... MADAROUNFA
RIVER/COURS D EAU..... G.MARADI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5400.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	----	----	----	----	110.0	20.4	0.0
1957-58	3.3	104.6	19.	0.61	95.0	17.6	0.0
1958-59	6.0	191.0	35.	1.12	220.0	40.7	0.0
1960-61	----	----	----	----	80.0	14.8	0.0
1961-62	13.5	427.8	79.	2.51	450.0	83.3	0.0
1962-63	3.2	102.2	19.	0.60	195.0	36.1	0.0
1963-64	4.6	146.1	27.	0.86	350.0	64.8	0.0
1964-65	10.0	315.8	58.	1.85	254.0	47.0	0.0
1965-66	4.2	133.7	25.	0.79	104.0	19.3	0.0
1966-67	4.1	132.4	25.	0.78	105.0	19.4	0.0
1967-68	8.4	267.0	49.	1.57	200.0	37.0	0.0
1968-69	2.4	76.2	14.	0.45	117.0	21.7	0.0
1969-70	3.8	122.4	23.	0.72	158.0	29.3	0.0
1970-71	10.7	338.4	63.	1.99	413.0	76.5	0.0
1971-72	4.9	155.3	29.	0.91	270.0	50.0	0.0
1972-73	2.7	85.1	16.	0.50	115.0	21.3	0.0

GAUGING STATION/STATION DE JAUGEAGE.... MOPTI
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 281600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1922-23	-1.0	162.0	416.0	1247.0	2581.0	2948.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1923-24	-1.0	-1.0	622.0	1810.0	2550.0	2742.0	2571.0	1952.0	779.0	320.0	150.0	70.0	-1.0
1924-25	50.0	350.0	918.0	2300.0	2881.0	3064.0	2935.0	2546.0	1484.0	529.0	270.0	160.0	1457.2
1925-26	100.0	-1.0	792.0	1876.0	2754.0	3009.0	3041.0	2677.0	1813.0	722.0	285.0	120.0	-1.0
1926-27	80.0	-1.0	1151.0	2035.0	2566.0	2680.0	2241.0	1274.0	510.0	230.0	100.0	70.0	-1.0
1927-28	65.0	100.0	878.0	1820.0	2659.0	2939.0	2916.0	2557.0	1690.0	571.0	230.0	130.0	1379.5
1928-29	90.0	270.0	715.0	1775.0	2752.0	3031.0	2976.0	2542.0	1505.0	607.0	285.0	150.0	1391.5
1929-30	105.0	-1.0	1430.0	2372.0	2792.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1933-34	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1200.0	-1.0	-1.0	-1.0	-1.0
1934-35	-1.0	-1.0	-1.0	1631.0	2529.0	2696.0	2457.0	1580.0	-1.0	-1.0	-1.0	-1.0	-1.0
1935-36	-1.0	50.0	478.0	1726.0	2624.0	2809.0	2680.0	2122.0	998.0	263.0	154.0	95.0	-1.0
1936-37	70.0	279.0	941.0	2069.0	2776.0	2923.0	2834.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943-44	-1.0	80.0	386.0	1306.0	2293.0	2609.0	2619.0	1237.0	389.0	181.0	103.0	66.0	-1.0
1944-45	52.0	51.0	228.0	899.0	2094.0	2262.0	1998.0	900.0	293.0	151.0	87.0	58.0	756.0
1945-46	43.0	54.0	193.0	1441.0	2550.0	2796.0	2675.0	1932.0	622.0	262.0	125.0	72.0	1063.7
1946-47	77.0	150.0	499.0	1618.0	2556.0	2810.0	2727.0	2053.0	839.0	320.0	159.0	88.0	1158.0
1947-48	60.0	55.0	358.0	1372.0	2186.0	2556.0	2178.0	990.0	279.0	143.0	94.0	58.0	860.7
1948-49	46.0	88.0	758.0	1727.0	2453.0	2578.0	2202.0	1194.0	391.0	195.0	111.0	88.0	985.9
1949-50	67.0	67.0	98.0	-1.0	-1.0	-1.0	-1.0	-1.0	362.0	187.0	107.0	61.0	-1.0
1950-51	49.0	38.0	306.0	1482.0	2527.0	2818.0	2763.0	2167.0	933.0	343.0	171.0	103.0	1141.6
1951-52	73.0	317.0	678.0	1738.0	2535.0	2821.0	2900.0	2718.0	1997.0	888.0	336.0	162.0	1430.2
1952-53	95.0	105.0	514.0	1929.0	2657.0	2906.0	2895.0	2483.0	1467.0	526.0	234.0	133.0	1328.6
1953-54	87.0	236.0	1228.0	2167.0	2803.0	3030.0	2849.0	2289.0	1242.0	506.0	238.0	176.0	1404.2
1954-55	155.0	359.0	1043.0	2208.0	2809.0	3030.0	2951.0	2586.0	1767.0	750.0	328.0	208.0	1516.1
1955-56	161.0	290.0	1198.0	2146.0	2812.0	2993.0	2929.0	2418.0	1435.0	552.0	284.0	168.0	1448.8
1956-57	129.0	128.0	467.0	1386.0	2419.0	2748.0	2545.0	1796.0	707.0	278.0	155.0	95.0	1071.0
1957-58	81.0	118.0	723.0	1944.0	2680.0	2958.0	2991.0	2554.0	1587.0	685.0	270.0	135.0	1393.8
1958-59	145.0	384.0	1070.0	1686.0	2525.0	2950.0	2777.0	2285.0	1264.0	503.0	231.0	117.0	1328.0
1959-60	59.0	160.0	579.0	1627.0	2531.0	2808.0	2593.0	1869.0	671.0	275.0	127.0	70.0	1114.0
1960-61	51.0	110.0	777.0	1858.0	2596.0	2827.0	2627.0	1988.0	802.0	317.0	158.0	78.0	1182.4
1961-62	40.0	52.0	433.0	1853.0	2590.0	2831.0	2484.0	1536.0	451.0	205.0	106.0	60.0	1053.4
1962-63	41.0	109.0	583.0	1672.0	2461.0	2899.0	2782.0	2234.0	1108.0	433.0	225.0	103.0	1220.8
1963-64	91.0	94.0	335.0	1344.0	2374.0	2749.0	2713.0	2052.0	851.0	306.0	140.0	81.0	1094.1
1964-65	41.0	118.0	640.0	1962.0	2732.0	2988.0	2802.0	2258.0	1272.0	482.0	225.0	125.0	1303.7
1965-66	73.0	128.0	975.0	1966.0	2572.0	2795.0	2541.0	1781.0	673.0	291.0	134.0	68.0	1166.4
1966-67	43.0	33.0	340.0	1052.0	2388.0	2774.0	2588.0	2253.0	772.0	293.0	122.0	78.0	1061.3
1967-68	46.0	87.0	460.0	1633.0	2652.0	3030.0	2905.0	2381.0	1240.0	443.0	274.0	102.0	1271.0
1968-69	60.0	320.0	850.0	1736.0	2489.0	2757.0	2243.0	1385.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	90.0	781.0	1971.0	2673.0	3173.0	3216.0	2353.0	889.0	352.0	167.0	102.0	-1.0
1970-71	73.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	75.6	152.4	671.3	1740.1	2578.9	2842.6	2689.8	2027.7	1008.2	397.2	187.4	104.5	1206.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

1970-71	225.0	79.0	51.0	252.0	838.0	1197.0	1434.0	1680.0	1795.0	1435.0	617.0	179.0	815.1
1971-72	53.0	18.0	47.0	258.0	921.0	1216.0	1478.0	1749.0	1790.0	1302.0	493.0	140.0	788.7
1972-73	43.0	20.0	121.0	690.0	1044.0	1245.0	1399.0	1613.0	1407.0	841.0	296.0	55.0	731.1
1973-74	17.0	8.0	42.0	332.0	892.0	1154.0	1400.0	1463.0	1146.0	556.0	158.0	36.0	600.3
1974-75	12.0	4.5	138.0	366.0	1154.0	1342.0	1593.0	1816.0	1874.0	1329.0	448.0	112.0	849.0
1975-76	40.0	10.0	72.2	542.0	1227.0	1391.0	1586.0	1872.0	2011.0	1686.0	755.0	192.0	948.6
1976-77	62.7	30.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	290.0	106.0	116.4	492.4	1083.1	1270.3	1443.5	1636.4	1761.3	1700.9	1298.9	738.5	994.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NIAMEY
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 700000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1928-29	----	----	----	----	2040.0	2.9	204.0
1929-30	1284.0	40492.2	58.	1.83	2056.0	2.9	305.0
1930-31	1241.2	39144.0	56.	1.77	1945.0	2.8	242.0
1931-32	1090.4	34387.3	49.	1.56	1765.0	2.5	
1932-33	----	----	----	----	-1.0	-1.0	
1933-34	----	----	----	----	1833.0	2.6	69.0
1934-35	941.7	29699.0	42.	1.35	1758.0	2.5	49.0
1935-36	973.4	30697.6	44.	1.39	1810.0	2.6	
1936-37	----	----	----	----	-1.0	-1.0	
1937-38	----	----	----	----	-1.0	-1.0	
1938-39	----	----	----	----	-1.0	-1.0	
1939-40	----	----	----	----	-1.0	-1.0	
1940-41	----	----	----	----	1460.0	2.1	22.0
1941-42	728.8	22984.4	33.	1.04	1510.0	2.2	24.0
1942-43	707.5	22311.7	32.	1.01	1428.0	2.0	18.0
1943-44	814.5	25688.7	37.	1.16	1630.0	2.3	13.0
1944-45	634.6	20014.8	29.	0.91	1488.0	2.1	16.0
1945-46	885.9	27938.2	40.	1.27	1818.0	2.6	
1946-47	968.8	30553.1	44.	1.38	1818.0	2.6	20.0
1947-48	715.8	22574.5	32.	1.02	1510.0	2.2	14.0
1948-49	846.5	26697.8	38.	1.21	1683.0	2.4	
1949-50	757.1	23878.0	34.	1.08	1615.0	2.3	14.0
1950-51	1070.0	33746.1	48.	1.53	1915.0	2.7	
1951-52	1113.2	35107.4	50.	1.59	1923.0	2.7	78.0
1952-53	1235.9	38975.8	56.	1.77	1968.0	2.8	103.0
1953-54	1249.7	39412.1	56.	1.79	2040.0	2.9	146.0
1954-55	1275.7	40232.0	57.	1.82	2088.0	3.0	207.0
1955-56	1324.4	41766.8	60.	1.89	2152.0	3.1	88.0
1956-57	1015.1	32014.2	46.	1.45	1735.0	2.5	44.0
1957-58	1106.5	34897.2	50.	1.58	2056.0	2.9	197.0
1958-59	1232.7	38876.0	56.	1.76	1893.0	2.7	45.0
1959-60	1039.5	32781.6	47.	1.49	1855.0	2.7	32.0
1960-61	1019.0	32137.8	46.	1.46	1880.0	2.7	
1961-62	948.4	29911.3	43.	1.35	1775.0	2.5	23.0
1962-63	1095.1	34537.9	49.	1.56	2056.0	2.9	
1963-64	967.3	30505.8	44.	1.38	1855.0	2.7	54.0
1964-65	1175.5	37071.6	53.	1.68	2072.0	3.0	63.0
1965-66	1113.1	35102.9	50.	1.59	1945.0	2.8	31.0
1966-67	944.2	29776.2	43.	1.35	1968.0	2.8	31.0
1967-68	1215.1	38321.4	55.	1.74	2330.0	3.3	32.0
1968-69	987.8	31152.3	45.	1.41	1923.0	2.7	28.0
1969-70	----	----	----	----	2365.0	3.4	22.0
1970-71	815.1	25707.0	37.	1.16	1825.0	2.6	14.0

1971-72	788.7	24874.0	36.	1.13	1824.0	2.6	14.0
1972-73	731.1	23058.0	33.	1.04	1700.0	2.4	3.0
1973-74	600.3	18932.1	27.	0.86	1512.0	2.2	1.8
1974-75	849.0	26775.3	38.	1.21	1918.0	2.7	0.5
1975-76	948.6	29917.6	43.	1.36	2042.0	2.9	5.7
1976-77	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... PANKOUROU
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 31800.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	4.0	10.4	32.5	404.0	907.0	686.0	225.0	88.0	38.7	21.7	9.3	3.7	202.5
1957-58	3.8	16.4	138.0	768.0	1270.0	1300.0	541.0	185.0	92.0	59.4	19.1	6.7	366.6
1958-59	4.0	17.0	181.0	937.0	1320.0	834.0	296.0	158.0	72.7	36.6	22.6	5.1	323.6
1959-60	5.4	7.4	10.4	562.0	1260.0	986.0	278.0	96.9	42.2	19.0	7.4	5.9	273.3
1960-61	5.6	9.3	165.0	668.0	1190.0	1160.0	310.0	95.8	47.1	21.7	8.4	4.1	307.0
1961-62	5.0	8.1	115.0	670.0	1330.0	582.0	171.0	74.1	24.3	10.0	4.9	3.1	249.7
1962-63	4.9	8.3	53.1	354.0	1080.0	786.0	270.0	142.0	54.3	18.8	9.4	5.9	232.2
1963-64	5.7	9.1	61.5	345.0	886.0	824.0	413.0	117.0	45.2	22.7	10.4	5.4	228.7
1964-65	5.7	7.3	59.7	745.0	-1.0	1150.0	236.0	-1.0	80.0	50.0	26.8	7.6	-1.0
1965-66	4.1	57.4	237.0	579.0	969.0	973.0	393.0	114.0	49.5	17.0	3.1	6.7	283.5
1966-67	8.2	7.6	12.1	177.0	47.0	1010.0	410.0	115.0	50.0	25.0	9.0	0.0	155.9
1967-68	3.5	4.5	61.9	863.0	1590.0	1110.0	310.0	106.0	49.5	30.7	10.6	7.3	345.5
1968-69	10.6	26.2	158.0	568.0	942.0	587.0	248.0	130.0	58.0	24.1	9.0	4.0	230.4
1969-70	-1.0	-1.0	127.0	549.0	-1.0	724.0	426.0	134.0	53.8	19.0	6.1	1.8	-1.0
1970-71	2.1	5.4	46.5	622.0	1410.0	-1.0	-1.0	-1.0	20.0	10.0	5.2	3.0	-1.0
1971-72	2.0	5.5	40.7	374.0	855.0	447.0	114.0	45.7	17.7	7.2	3.6	2.4	159.5
1972-73	7.6	47.9	53.8	208.0	442.0	228.0	96.1	30.4	15.0	9.9	2.0	1.8	95.2
1973-74	1.7	3.4	13.0	306.0	383.0	151.0	57.0	12.7	4.8	1.8	1.9	0.2	78.0
1974-75	3.1	9.8	77.1	371.0	581.0	327.0	94.9	26.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	4.8	14.4	86.4	530.0	968.3	770.2	271.6	98.2	45.2	22.4	9.3	4.1	235.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... PANKOUROU
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 31800.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	202.5	6386.8	201.	6.37	975.0	30.7	2.0
1957-58	366.6	11561.6	364.	11.53	1453.0	45.7	3.4
1958-59	323.6	10207.1	321.	10.18	1463.0	46.0	3.4
1959-60	273.3	8621.4	271.	8.60	1321.0	41.5	4.0
1960-61	307.0	9684.1	305.	9.66	1444.0	45.4	2.5
1961-62	249.7	7877.4	248.	7.86	1502.0	47.2	1.2
1962-63	232.2	7323.4	230.	7.30	1203.0	37.8	3.4
1963-64	228.7	7213.8	227.	7.19	1019.0	32.0	2.1
1964-65	----	----	----	----	2030.0	63.8	3.4
1965-66	283.5	8942.5	281.	8.92	1181.0	37.1	3.4
1966-67	155.9	4916.7	155.	4.90	1263.0	39.7	0.8
1967-68	345.5	10898.3	343.	10.87	1674.0	52.6	4.4
1968-69	230.4	7266.1	228.	7.25	1000.0	31.4	
1969-70	----	----	----	----	-1.0	-1.0	0.9
1970-71	----	----	----	----	1515.0	47.6	0.9
1971-72	159.5	5032.0	158.	5.02	905.0	28.5	1.8
1972-73	95.2	3002.4	94.	2.99	520.0	16.4	1.0
1973-74	78.0	2461.1	77.	2.45	517.0	16.3	
1974-75	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... PONONDOUGOU
RIVER/COURS D EAU..... NIANGBOUE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 706.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.7	0.2	0.1	0.0	-1.0
1961-62	0.0	0.0	0.4	4.3	19.1	8.6	3.1	1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.8	2.0	0.3	0.0	-1.0
1963-64	0.0	0.0	2.5	14.1	23.4	19.0	7.2	3.0	1.1	0.7	0.1	0.0	5.9
1964-65	0.0	0.0	0.0	12.5	23.6	19.0	7.0	2.6	1.6	0.2	0.0	0.0	5.5
1965-66	0.0	0.0	6.9	9.6	11.1	14.0	12.5	3.5	0.2	0.0	0.0	0.1	4.8
1966-67	0.9	2.3	3.7	7.9	10.5	15.5	13.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	0.0	5.6	6.0	10.8	16.0	10.2	5.7	2.8	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.6	0.3	0.1	0.0	-1.0
1970-71	0.0	0.0	0.1	5.2	15.3	10.6	4.5	1.7	-1.0	-1.0	0.0	0.0	-1.0
1971-72	0.0	0.0	0.0	9.1	19.2	-1.0	-1.0	-1.0	0.4	0.2	0.0	-1.0	-1.0
1972-73	0.1	0.2	0.8	5.0	3.5	3.9	2.1	0.6	0.4	0.2	0.1	0.0	1.4
1973-74	0.0	0.0	-1.0	-1.0	-1.0	5.6	3.2	0.7	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.1	0.8	2.2	8.7	15.7	11.8	6.5	1.9	0.9	0.4	0.0	0.0	4.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... PONONDOUGOU
RIVER/COURS D EAU..... NIANGBOUE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 706.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	----	----	----	----	20.5	29.0	0.1
1957-58	----	----	----	----	35.4	50.1	0.2
1958-59	----	----	----	----	10.1	14.3	0.1
1959-60	----	----	----	----	30.3	42.9	0.0
1960-61	----	----	----	----	37.7	53.4	0.0
1961-62	----	----	----	----	32.8	46.5	0.0
1962-63	----	----	----	----	37.7	53.4	0.0
1963-64	5.9	186.8	265.	8.39	36.1	51.1	0.0
1964-65	5.5	174.7	248.	7.85	35.0	49.6	0.0
1965-66	4.8	152.1	216.	6.83	21.5	30.5	0.0
1966-67	----	----	----	----	16.6	23.5	0.0
1967-68	----	----	----	----	22.3	31.6	0.0
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	----	----	----	----	-1.0	-1.0	0.0
1970-71	----	----	----	----	-1.0	-1.0	0.0
1971-72	----	----	----	----	23.8	33.7	
1972-73	1.4	44.4	63.	1.99	9.9	14.0	0.0
1973-74	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... SELINGUE
RIVER/COURS D EAU..... SANKARANI
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 34200.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1964-65	35.0	95.0	232.0	1047.0	1292.0	980.0	372.0	234.0	149.0	83.0	46.0	28.0	382.7
1965-66	32.0	118.0	539.0	641.0	1064.0	859.0	325.0	141.0	74.0	40.0	25.0	27.0	323.7
1966-67	28.0	46.0	99.0	676.0	1126.0	1129.0	469.0	179.0	89.0	44.0	25.0	15.0	327.0
1967-68	51.0	54.0	251.0	976.0	1414.0	1676.0	537.0	220.0	120.0	75.0	49.0	38.0	455.0
1968-69	42.0	131.0	212.0	888.0	1196.0	935.0	448.0	199.0	101.0	53.0	37.0	32.0	356.1
1969-70	22.0	72.0	484.0	1169.0	1732.0	1173.0	779.0	272.0	140.0	78.0	47.0	36.0	500.3
1970-71	31.0	72.0	132.0	568.0	1347.0	659.0	249.0	115.0	56.0	41.0	27.0	31.0	277.3
1971-72	35.0	40.0	116.0	566.0	1288.0	941.0	245.0	128.0	63.0	37.0	26.0	39.0	293.6
1972-73	69.0	183.0	258.0	683.0	911.0	-1.0	212.0	226.0	49.0	24.0	18.0	15.0	-1.0
1973-74	10.0	30.0	43.0	955.0	1053.0	493.0	267.0	79.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	35.5	84.1	236.6	816.9	1242.3	982.7	390.3	179.3	93.4	52.7	33.3	29.0	348.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SELINGUE
RIVER/COURS D EAU..... SANKARANI
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 34200.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1964-65	382.7	12070.4	353.	11.19	-1.0	-1.0	
1965-66	323.7	10209.7	299.	9.47	-1.0	-1.0	
1966-67	327.0	10314.9	302.	9.56	-1.0	-1.0	
1967-68	455.0	14351.5	420.	13.31	2050.0	59.9	
1968-69	356.1	11232.0	328.	10.41	1395.0	40.8	22.0
1969-70	500.3	15778.5	461.	14.63	-1.0	-1.0	
1970-71	277.3	8745.9	256.	8.11	-1.0	-1.0	
1971-72	293.6	9261.0	271.	8.59	-1.0	-1.0	
1972-73	----	----	----	----	-1.0	-1.0	
1973-74	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... SIGUIRI
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 70000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	55.0	145.0	845.0	1882.0	2905.0	3213.0	1172.0	489.0	286.0	135.0	89.0	52.0	939.0
1953-54	65.5	499.0	1306.0	2811.0	3873.0	3225.0	1209.0	593.0	343.0	187.0	105.0	113.0	1194.1
1954-55	146.0	466.0	1209.0	2401.0	4054.0	2979.0	1747.0	917.0	435.0	228.0	157.0	107.0	1237.1
1955-56	159.0	588.0	1342.0	2630.0	4274.0	3824.0	1577.0	733.0	400.0	216.0	124.0	87.0	1329.5
1956-57	50.0	163.0	717.0	1342.0	3144.0	2608.0	942.0	472.0	223.0	91.0	46.0	58.0	821.3
1957-58	40.0	251.0	957.0	2190.0	4004.0	4211.0	1942.0	674.0	364.0	180.0	62.5	73.5	1245.7
1958-59	221.0	654.0	798.0	890.0	2848.0	3000.0	1300.0	758.0	366.0	171.0	66.0	32.0	925.3
1959-60	65.0	310.0	1013.0	1702.0	4002.0	2286.0	1054.0	461.0	211.0	80.0	37.0	26.0	937.2
1960-61	48.0	258.0	862.0	2564.0	3991.0	-1.0	1208.0	495.0	223.0	90.0	34.5	21.0	-1.0
1961-62	38.0	68.0	621.0	1775.0	2976.0	1340.0	657.0	274.0	102.0	38.0	20.0	19.0	660.6
1962-63	49.0	185.0	782.0	2257.0	4836.0	3590.0	1477.0	626.0	-1.0	-1.0	-1.0	49.0	-1.0
1963-64	-1.0	-1.0	569.0	1546.0	2902.0	3607.0	1348.0	464.0	-1.0	-1.0	-1.0	49.0	-1.0
1964-65	-1.0	392.0	867.0	1855.0	3275.0	3101.0	896.0	563.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	1902.0	4032.0	5225.0	1593.0	1266.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	85.1	331.5	914.4	1981.9	3651.1	3246.8	1294.4	627.5	295.3	141.6	74.1	57.2	1058.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SIGUIRI
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 70000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	939.0	29612.3	423.	13.41	3942.0	56.3	
1953-54	1194.1	37657.9	538.	17.06	4265.0	60.9	
1954-55	1237.1	39015.2	557.	17.67	4420.0	63.1	
1955-56	1329.5	41927.1	599.	18.99	5460.0	78.0	
1956-57	821.3	25901.5	370.	11.73	4404.0	62.9	
1957-58	1245.7	39285.9	561.	17.80	4692.0	67.0	
1958-59	925.3	29181.3	417.	13.22	-1.0	-1.0	
1959-60	937.2	29557.1	422.	13.39	-1.0	-1.0	
1960-61	----	----	----	----	-1.0	-1.0	
1961-62	660.6	20834.7	298.	9.44	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	----	----	----	----	-1.0	-1.0	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	6700.0	95.7	

GAUGING STATION/STATION DE JAUGEAGE.... TAMOU
RIVER/COURS D EAU..... DIAMANGOU
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4030.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	-1.0	-1.0	-1.0	-1.0	47.0	3.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	0.0	0.0	1.5	9.9	10.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8
1964-65	0.0	0.0	4.1	30.6	44.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	6.9
1965-66	0.0	0.6	1.8	2.4	7.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0
1966-67	0.0	2.8	1.3	10.1	13.8	6.6	0.3	0.0	0.0	0.0	0.0	0.0	2.9
1967-68	0.0	0.2	1.6	5.0	22.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6
1968-69	0.0	3.1	1.6	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1969-70	0.0	0.2	5.4	12.0	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	2.3
1970-71	-1.0	-1.0	4.0	41.5	7.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971-72	-1.0	-1.0	41.1	27.1	14.4	0.7	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972-73	0.0	0.0	3.0	1.3	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1973-74	0.0	3.0	20.7	22.4	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.1
1974-75	0.0	0.0	4.7	25.9	7.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	3.1
1975-76	1.2	0.2	3.7	5.4	12.4	2.6	0.1	0.0	0.0	0.0	0.0	0.0	2.1
AVG/MOYEN	0.1	0.9	7.2	14.9	14.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	3.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TAMOU
RIVER/COURS D EAU..... DIAMANGOU
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4030.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	----	----	----	----	79.6	19.8	
1963-64	1.8	57.5	14.	0.45	17.9	4.4	0.0
1964-65	6.9	219.4	54.	1.73	81.1	20.1	0.0
1965-66	1.0	31.7	8.	0.25	15.4	3.8	0.0
1966-67	2.9	91.7	23.	0.72	36.6	9.1	0.0
1967-68	2.6	84.3	21.	0.66	35.3	8.8	0.0
1968-69	0.4	14.1	4.	0.11	9.7	2.4	0.0
1969-70	2.3	73.5	18.	0.58	27.7	6.9	0.0
1970-71	----	----	----	----	85.9	21.3	0.0
1971-72	----	----	----	----	101.0	25.1	0.0
1972-73	0.5	16.0	4.	0.13	8.9	2.2	0.0
1973-74	4.1	132.1	33.	1.04	48.4	12.0	0.0
1974-75	3.1	100.9	25.	0.79	61.4	15.2	0.0
1975-76	2.1	67.2	17.	0.53	27.7	6.9	0.0

GAUGING STATION/STATION DE JAUGEAGE.... TERA
RIVER/COURS D EAU..... DARGOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2750.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	0.0	0.0	4.4	51.7	27.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	7.0
1962-63	0.0	1.1	1.3	10.6	12.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.3
1963-64	0.0	11.5	12.6	13.9	5.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6
1964-65	0.0	5.0	16.0	42.5	32.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1965-66	0.0	0.0	1.5	8.6	13.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	2.0
1966-67	0.0	0.0	1.1	2.8	12.1	2.6	0.2	0.0	0.0	0.0	0.0	0.0	1.5
1967-68	0.0	0.1	1.0	23.4	23.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	4.1
1968-69	0.0	0.6	4.3	5.2	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9
1969-70	0.0	0.0	3.0	36.8	9.8	2.7	0.3	0.0	0.0	0.0	0.0	0.0	4.3
1970-71	0.0	0.4	1.3	19.9	9.4	2.9	0.1	0.0	0.0	0.0	0.0	0.0	2.8
1971-72	0.0	0.9	12.0	5.6	7.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.2
1972-73	0.0	3.3	7.9	5.2	5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8
1973-74	0.0	0.5	6.2	24.4	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.7
1974-75	0.0	0.0	23.0	10.8	4.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.2
1975-76	0.0	0.0	6.1	4.5	12.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0
AVG/MOYEN	0.0	1.5	6.7	17.7	11.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TERA
RIVER/COURS D EAU..... DARGOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2750.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	7.0	222.8	81.	2.57	126.0	45.8	0.0
1962-63	2.3	73.3	27.	0.85	46.6	16.9	0.0
1963-64	3.6	114.8	42.	1.32	70.5	25.6	0.0
1964-65	8.0	254.6	93.	2.94	136.0	49.5	0.0
1965-66	2.0	64.9	24.	0.75	43.8	15.9	0.0
1966-67	1.5	49.4	18.	0.57	43.0	15.6	0.0
1967-68	4.1	129.5	47.	1.49	96.0	34.9	0.0
1968-69	0.9	29.6	11.	0.34	16.0	5.8	0.0
1969-70	4.3	138.2	50.	1.59	160.0	58.2	0.0
1970-71	2.8	89.3	32.	1.03	77.1	28.0	0.0
1971-72	2.2	69.9	25.	0.81	21.5	7.8	0.0
1972-73	1.8	58.3	21.	0.67	37.5	13.6	0.0
1973-74	2.7	88.0	32.	1.02	74.2	27.0	0.0
1974-75	3.2	101.7	37.	1.17	65.1	23.7	0.0
1975-76	2.0	64.9	24.	0.75	34.3	12.5	0.0

GAUGING STATION/STATION DE JAUGEAGE.... TILEMBEYA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 144000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1922-23	-1.0	120.0	390.0	1136.0	2670.0	3272.0	2051.0	881.0	430.0	224.0	120.0	107.0	-1.0
1923-24	129.0	154.0	591.0	1694.0	2955.0	2942.0	1814.0	910.0	345.0	185.0	73.0	38.0	985.8
1924-25	37.0	62.0	857.0	2631.0	3406.0	3403.0	2171.0	982.0	422.0	247.0	198.0	154.0	1214.1
1925-26	130.0	200.0	1039.0	2264.0	3343.0	3443.0	2896.0	1142.0	569.0	356.0	209.0	144.0	1311.2
1926-27	118.0	285.0	1212.0	2220.0	3141.0	2870.0	1354.0	717.0	401.0	241.0	137.0	79.0	1064.5
1927-28	96.0	181.0	865.0	1860.0	3093.0	3380.0	3031.0	1152.0	533.0	324.0	186.0	107.0	1234.0
1928-29	170.0	304.0	679.0	2369.0	3406.0	3420.0	2306.0	946.0	513.0	341.0	230.0	178.0	1238.5
1939-40	150.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	382.0	239.0	142.0	98.0	-1.0
1940-41	83.0	121.0	499.0	1450.0	2129.0	2274.0	1454.0	583.0	319.0	211.0	135.0	93.0	779.2
1941-42	81.0	169.0	545.0	1208.0	2800.0	2516.0	1260.0	565.0	311.0	201.0	123.0	96.0	822.9
1942-43	124.0	223.0	428.0	1246.0	2504.0	1493.0	981.0	498.0	261.0	160.0	99.0	64.0	673.4
1943-44	61.0	149.0	424.0	1065.0	2817.0	2841.0	1610.0	570.0	270.0	158.0	92.0	61.0	843.1
1944-45	58.0	86.0	287.0	962.0	2518.0	2132.0	1008.0	446.0	266.0	137.0	82.0	52.0	669.6
1945-46	35.0	101.0	247.0	1455.0	2773.0	2877.0	1407.0	501.0	247.0	148.0	82.0	58.0	827.5
1946-47	89.0	191.0	527.0	1536.0	2957.0	3251.0	2039.0	715.0	347.0	213.0	127.0	66.0	1004.8
1947-48	55.0	57.0	459.0	1479.0	2720.0	2905.0	973.0	411.0	189.0	122.0	71.0	46.0	790.5
1948-49	34.0	154.0	899.0	2030.0	3319.0	3042.0	1530.0	592.0	300.0	195.0	108.0	98.0	1025.0
1949-50	81.0	134.0	264.0	1634.0	3288.0	2634.0	1056.0	512.0	290.0	150.0	80.0	55.0	848.1
1950-51	45.0	60.0	381.0	1400.0	2997.0	3396.0	1933.0	603.0	301.0	172.0	60.0	50.0	949.8
1952-53	90.0	116.0	563.0	1783.0	2933.0	3233.0	1855.0	755.0	378.0	213.0	133.0	88.0	1011.6
1953-54	69.0	248.0	1225.0	2333.0	3335.0	3270.0	1802.0	812.0	426.0	241.0	154.0	129.0	1170.3
1954-55	115.0	343.0	1008.0	2424.0	3309.0	3254.0	2371.0	1317.0	558.0	312.0	177.0	154.0	1278.5
1955-56	128.0	265.0	1164.0	2246.0	3273.0	3389.0	2106.0	949.0	474.0	260.0	167.0	119.0	1211.6
1956-57	84.0	107.0	501.0	1235.0	2685.0	3031.0	1371.0	582.0	309.0	149.0	86.0	57.0	849.7
1957-58	48.0	112.0	692.0	2094.0	3246.0	3411.0	2694.0	1062.0	454.0	269.0	113.0	91.0	1190.5
1958-59	115.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	89.0	164.3	656.0	1739.7	2984.0	2986.6	1794.7	758.4	371.8	218.7	127.3	91.2	998.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TILEMBEYA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 144000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1922-23	----	----	----	----	3316.0	23.0	87.0
1923-24	985.8	31089.2	216.	6.85	3401.0	23.6	35.0
1924-25	1214.1	38289.9	266.	8.43	3435.0	23.9	
1925-26	1311.2	41351.5	287.	9.11	3469.0	24.1	113.0
1926-27	1064.5	33572.7	233.	7.39	3350.0	23.3	72.0
1927-28	1234.0	38915.4	270.	8.57	3401.0	23.6	
1928-29	1238.5	39057.3	271.	8.60	3435.0	23.9	
1939-40	----	----	----	----	-1.0	-1.0	80.0
1940-41	779.2	24574.4	171.	5.41	2396.0	16.6	73.0
1941-42	822.9	25951.5	180.	5.71	3197.0	22.2	80.0
1942-43	673.4	21236.6	147.	4.68	2933.0	20.4	52.0
1943-44	843.1	26590.1	185.	5.86	3180.0	22.1	50.0
1944-45	669.6	21118.6	147.	4.65	3032.0	21.1	32.0
1945-46	827.5	26098.6	181.	5.75	3197.0	22.2	47.0
1946-47	1004.8	31688.4	220.	6.98	3282.0	22.8	44.0
1947-48	790.5	24931.8	173.	5.49	3316.0	23.0	30.0
1948-49	1025.0	32327.0	224.	7.12	3418.0	23.7	68.0
1949-50	848.1	26747.7	186.	5.89	3367.0	23.4	
1950-51	949.8	29953.9	208.	6.60	3418.0	23.7	
1952-53	1011.6	31903.9	222.	7.03	3350.0	23.3	51.0
1953-54	1170.3	36907.6	256.	8.13	3384.0	23.5	85.0
1954-55	1278.5	40318.7	280.	8.88	3401.0	23.6	91.0
1955-56	1211.6	38211.1	265.	8.41	3435.0	23.9	63.0
1956-57	849.7	26797.7	186.	5.90	3333.0	23.1	41.0
1957-58	1190.5	37543.6	261.	8.27	3418.0	23.7	79.0
1958-59	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... TOMBOUGOU
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... *NIGER*
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2580.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	2.7	24.0	111.5	192.0	-1.0	-1.0	-1.0	10.5	4.0	2.0	2.0	3.2	-1.0
1956-57	2.6	2.5	2.9	35.6	141.5	77.6	15.6	4.2	3.2	2.7	2.1	2.0	24.3
1957-58	2.1	3.4	19.6	123.0	197.0	117.0	42.3	14.6	8.1	5.1	2.5	2.1	44.7
1958-59	2.4	4.3	13.8	45.1	76.0	54.8	15.7	7.3	2.6	1.7	0.5	0.3	18.7
1959-60	2.4	10.3	64.4	159.5	58.6	11.7	3.5	3.5	0.9	0.2	0.1	0.5	26.2
1960-61	0.4	0.7	39.3	41.0	181.5	77.5	15.7	4.2	1.6	0.4	0.1	0.0	30.1
1961-62	0.0	0.0	8.7	58.5	138.0	39.5	9.6	2.6	8.0	6.3	5.7	4.5	23.4
1962-63	7.3	7.1	10.0	37.3	194.4	74.0	30.0	12.9	4.4	3.7	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	16.9	74.5	125.0	124.0	36.3	9.3	4.1	6.1	8.4	7.4	-1.0
1964-65	6.9	7.9	12.7	126.4	146.6	70.8	21.6	10.1	8.2	3.4	7.6	6.3	35.7
1965-66	5.8	7.3	16.0	125.4	132.8	107.3	47.4	7.9	3.2	2.3	6.4	9.1	39.2
1966-67	14.7	20.7	29.5	91.4	168.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	26.7	19.6	17.7	16.2	-1.0
1970-71	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	4.3	3.9	4.4	-1.0
1971-72	5.9	6.9	6.3	90.5	215.0	55.0	15.4	10.1	0.9	0.3	0.1	0.4	33.8
1972-73	0.6	7.6	8.8	36.5	58.5	20.5	6.3	2.3	0.6	0.2	0.0	0.0	11.8
1973-74	0.0	-1.0	0.5	59.3	-1.0	7.4	3.8	1.7	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	3.8	7.8	24.0	86.3	141.0	64.3	20.2	7.2	5.4	3.8	4.0	4.0	31.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TOMBOUGOU
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2580.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	----	----	----	----	-1.0	-1.0	
1956-57	24.3	768.6	298.	9.45	230.0	89.1	1.9
1957-58	44.7	1410.7	547.	17.34	365.0	141.5	
1958-59	18.7	589.9	229.	7.25	148.0	57.4	
1959-60	26.2	829.3	321.	10.19	192.0	74.4	
1960-61	30.1	952.3	369.	11.71	395.0	153.1	
1961-62	23.4	739.5	287.	9.09	185.0	71.7	
1962-63	----	----	----	----	355.0	137.6	
1963-64	----	----	----	----	270.0	104.7	
1964-65	35.7	1126.0	436.	13.84	196.0	76.0	2.4
1965-66	39.2	1237.5	480.	15.21	141.0	54.7	2.1
1966-67	----	----	----	----	321.0	124.4	
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	----	----	----	----	240.0	93.0	
1970-71	----	----	----	----	-1.0	-1.0	3.8
1971-72	33.8	1069.0	414.	13.14	324.0	125.6	0.0
1972-73	11.8	372.9	145.	4.58	98.8	38.3	0.0
1973-74	----	----	----	----	121.0	46.9	

GAUGING STATION/STATION DE JAUGEAGE.... TOSSAYE
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 355000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1948-49	-1.0	-1.0	100.0	631.0	1185.0	1517.0	1744.0	1893.0	1915.0	1490.0	792.0	237.0	-1.0
1949-50	80.0	50.0	50.0	265.0	945.0	1710.0	1640.0	1795.0	1756.0	1251.0	540.0	146.0	852.3
1950-51	55.0	45.0	45.0	380.0	1185.0	1577.0	1824.0	1984.0	2142.0	2044.0	1489.0	666.0	1119.6
1951-52	161.0	85.0	257.0	700.0	1232.0	1662.0	1780.0	1937.0	2095.0	2180.0	1975.0	1443.0	1292.2
1952-53	630.0	178.0	126.0	597.0	1332.0	1670.0	1856.0	2013.0	2187.0	2143.0	1733.0	1064.0	1294.0
1953-54	354.0	129.0	303.0	1020.0	1467.0	1716.0	1897.0	2072.0	2224.0	2160.0	1742.0	1085.0	1347.4
1954-55	406.0	201.0	358.0	908.0	1410.0	1693.0	1904.0	2093.0	2290.0	2289.0	1944.0	1358.0	1404.5
1955-56	697.0	267.0	361.0	988.0	1445.0	1715.0	1922.0	2119.0	2283.0	2232.0	1757.0	1169.0	1412.9
1956-57	476.0	170.0	143.0	487.0	1067.0	1483.0	1720.0	1879.0	1945.0	1705.0	1148.0	457.0	1056.6
1957-58	148.0	77.0	170.0	651.0	1253.0	1567.0	1765.0	1955.0	2142.0	2169.0	1897.0	1308.0	1258.5
1958-59	546.0	236.0	412.0	919.0	1315.0	1581.0	1777.0	1941.0	2057.0	1993.0	1501.0	890.0	1264.0
1959-60	279.0	90.0	157.0	593.0	1214.0	1562.0	1779.0	1837.0	2020.0	1753.0	1150.0	425.0	1071.5
1960-61	124.0	60.0	173.0	682.0	1263.0	1565.0	1774.0	1979.0	2066.0	1866.0	1309.0	571.0	1119.3
1961-62	199.0	100.0	97.8	495.0	1184.0	1536.0	1781.0	1933.0	1923.0	1504.0	818.0	773.0	1028.6
1962-63	157.0	130.0	150.0	558.0	1242.0	1565.0	1815.0	2023.0	2183.0	2042.0	1577.0	839.0	1190.0
1963-64	279.0	144.0	116.0	369.0	1015.0	1436.0	1687.0	1903.0	2033.0	1830.0	1242.0	449.0	1041.9
1964-65	175.0	106.0	185.0	665.0	1292.0	1632.0	1870.0	2120.0	2203.0	2074.0	1607.0	818.0	1228.9
1965-66	267.0	141.0	198.0	806.0	1444.0	1698.0	1916.0	2082.0	2118.0	1761.0	1090.0	385.0	1158.8
1966-67	167.0	107.0	124.0	308.0	860.0	1802.0	1815.0	2043.0	2100.0	1828.0	1101.0	375.0	1052.5
1967-68	166.0	60.0	98.6	468.0	1237.0	1689.0	1939.0	2227.0	2375.0	2211.0	1632.0	790.0	1241.0
1968-69	265.0	112.0	345.0	763.0	1320.0	1675.0	1878.0	2030.0	1958.0	1460.0	716.0	266.0	1065.6
1969-70	188.0	119.0	153.0	778.0	1495.0	1712.0	1922.0	2197.0	2349.0	2063.0	1453.0	604.0	1252.7
1970-71	212.0	127.0	69.0	376.0	1139.0	1616.0	1887.0	2034.0	1837.0	1157.0	465.0	190.0	925.7
1971-72	75.0	23.0	53.6	438.0	1146.0	1577.0	1805.0	1932.0	1682.0	1063.0	380.0	142.0	859.7
1972-73	61.2	40.3	382.0	838.0	1348.0	1673.0	1853.0	1751.0	1307.0	679.0	291.0	112.0	861.2
1973-74	36.0	11.0	10.0	183.0	850.0	1359.0	1504.0	1328.0	894.0	395.0	138.0	43.0	562.5
1974-75	13.0	4.0	3.5	363.0	1184.0	1588.0	1803.0	1917.0	1641.0	922.0	287.0	85.2	817.5
1975-76	27.5	7.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	231.2	104.4	171.8	601.0	1224.7	1613.9	1809.5	1963.5	1989.8	1713.4	1176.8	618.1	1101.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TOSSAYE
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 355000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1948-49	----	----	----	----	1964.0	5.5	
1949-50	852.3	26879.1	76.	2.40	1845.0	5.2	
1950-51	1119.6	35309.8	99.	3.15	2156.0	6.1	50.0
1951-52	1292.2	40752.3	115.	3.64	2196.0	6.2	105.0
1952-53	1294.0	40810.2	115.	3.65	2220.0	6.3	110.0
1953-54	1347.4	42492.1	120.	3.80	2252.0	6.3	183.0
1954-55	1404.5	44292.3	125.	3.96	2332.0	6.6	213.0
1955-56	1412.9	44557.7	126.	3.98	2305.0	6.5	103.0
1956-57	1056.6	33323.0	94.	2.98	1971.0	5.6	74.0
1957-58	1258.5	39688.0	112.	3.55	2204.0	6.2	
1958-59	1264.0	39861.5	112.	3.56	2092.0	5.9	68.0
1959-60	1071.5	33793.4	95.	3.02	2052.0	5.8	60.0
1960-61	1119.3	35299.2	99.	3.15	-1.0	-1.0	
1961-62	1028.6	32439.5	91.	2.90	-1.0	-1.0	
1962-63	1190.0	37530.4	106.	3.35	-1.0	-1.0	
1963-64	1041.9	32857.8	93.	2.93	-1.0	-1.0	
1964-65	1228.9	38755.1	109.	3.46	-1.0	-1.0	
1965-66	1158.8	36544.9	103.	3.26	-1.0	-1.0	
1966-67	1052.5	33191.6	93.	2.96	-1.0	-1.0	
1967-68	1241.0	39137.7	110.	3.50	2370.0	6.7	
1968-69	1065.6	33606.8	95.	3.00	-1.0	-1.0	
1969-70	1252.7	39506.7	111.	3.53	2340.0	6.6	
1970-71	925.7	29194.4	82.	2.61	-1.0	-1.0	
1971-72	859.7	27112.0	76.	2.42	-1.0	-1.0	
1972-73	861.2	27161.6	77.	2.43	-1.0	-1.0	
1973-74	562.5	17741.6	50.	1.58	-1.0	-1.0	
1974-75	817.5	25782.5	73.	2.30	-1.0	-1.0	
1975-76	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... TSERNAOUA
RIVER/COURS D EAU..... MAGGIA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2525.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1960-61	0.0	0.3	1.7	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1964-65	0.0	3.3	17.0	9.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
1966-67	0.0	0.3	0.3	4.6	4.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8
1967-68	0.0	2.0	5.4	5.8	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4
1968-69	0.0	0.1	1.4	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1969-70	-1.0	-1.0	6.5	10.6	3.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
1970-71	0.0	2.4	14.2	8.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
1971-72	0.0	0.0	1.3	6.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1972-73	0.0	6.2	0.6	3.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
1973-74	0.0	0.2	7.0	11.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
1974-75	0.0	0.0	25.4	32.2	9.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	5.6
AVG/MOYEN	0.0	1.4	7.3	8.8	3.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TSERNAOUA
RIVER/COURS D EAU..... MAGGIA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2525.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1960-61	0.2	7.3	3.	0.09	-1.0	-1.0	
1964-65	3.2	103.5	41.	1.30	77.4	30.7	
1966-67	0.8	26.8	11.	0.34	11.3	4.5	
1967-68	1.4	46.2	18.	0.58	33.1	13.1	
1968-69	0.4	14.4	6.	0.18	12.5	5.0	
1969-70	----	----	----	----	29.5	11.7	
1970-71	2.2	72.0	29.	0.90	70.0	27.7	
1971-72	0.7	24.7	10.	0.31	20.3	8.0	
1972-73	1.0	34.4	14.	0.43	24.0	9.5	
1973-74	1.6	53.6	21.	0.67	38.0	15.0	
1974-75	5.6	178.9	71.	2.25	140.0	55.4	

GAUGING STATION/STATION DE JAUGEAGE.... W
RIVER/COURS D EAU..... TAPOA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5330.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1963-64	0.1	0.2	0.5	1.3	1.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.2
1964-65	0.2	0.3	1.7	5.8	13.2	11.1	0.6	0.2	0.0	0.0	0.0	0.0	2.7
1965-66	0.0	0.1	0.8	2.2	2.5	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.5
1966-67	0.0	0.0	0.4	1.6	1.3	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.3
1967-68	0.0	0.0	1.3	3.0	3.5	3.7	0.8	0.3	0.1	0.0	0.0	0.0	1.0
1968-69	0.2	1.5	1.1	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1969-70	0.0	0.3	1.4	2.9	2.7	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.7
1970-71	0.0	0.7	1.2	13.3	8.3	2.7	0.1	0.0	0.0	0.0	0.0	0.0	2.1
1971-72	-1.0	7.0	3.9	3.9	1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972-73	0.0	0.4	1.3	3.3	2.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1973-74	0.7	0.9	5.2	12.5	4.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	2.0
1974-75	0.0	0.0	0.7	3.1	4.1	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.8
1975-76	0.0	0.6	0.9	1.5	3.9	3.6	2.3	0.2	0.0	0.0	0.0	0.0	1.0
AVG/MOYEN	0.1	0.9	1.5	4.2	3.7	2.3	0.5	0.0	0.0	0.0	0.0	0.0	1.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... W
RIVER/COURS D EAU..... TAPOA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5330.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1963-64	0.2	9.1	2.	0.05	2.9	0.5	0.0
1964-65	2.7	86.9	16.	0.52	24.0	4.5	0.0
1965-66	0.5	18.1	3.	0.11	7.9	1.5	0.0
1966-67	0.3	12.0	2.	0.07	4.2	0.8	0.0
1967-68	1.0	33.3	6.	0.20	12.5	2.3	0.0
1968-69	0.2	9.1	2.	0.05	5.1	1.0	0.0
1969-70	0.7	23.1	4.	0.14	5.4	1.0	0.0
1970-71	2.1	69.1	13.	0.41	32.6	6.1	0.0
1971-72	----	----	----	----	17.4	3.3	
1972-73	0.7	24.4	5.	0.15	6.2	1.2	0.0
1973-74	2.0	65.9	12.	0.39	25.3	4.7	0.0
1974-75	0.8	25.4	5.	0.15	4.9	0.9	0.0
1975-76	1.0	34.1	6.	0.20	5.1	1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... ANSONGO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 455000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1933-34	-1.0	-1.0	100.0	500.0	991.0	1197.0	1401.0	1557.0	1650.0	1622.0	1391.0	808.0	-1.0
1934-35	230.0	90.0	90.0	258.0	801.0	1188.0	1406.0	1562.0	1670.0	1697.0	-1.0	-1.0	-1.0
1935-36	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1936-37	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1937-38	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1939-40	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1941-42	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942-43	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943-44	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944-45	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945-46	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946-47	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947-48	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	-1.0	-1.0	90.0	438.0	959.0	1249.0	1464.0	1612.0	1686.0	1494.0	909.0	255.0	-1.0
1949-50	80.0	50.0	50.0	150.0	688.0	1137.0	1365.0	1527.0	1570.0	1316.0	636.0	140.0	725.7
1950-51	55.0	45.0	50.0	205.0	924.0	1286.0	1526.0	1688.0	1840.0	1845.0	1557.0	831.0	987.6
1951-52	145.0	75.0	195.0	539.0	984.0	1257.0	1462.0	1621.0	1781.0	1872.0	1805.0	1450.0	1098.8
1952-53	734.0	135.0	80.0	390.0	1038.0	1360.0	1556.0	1711.0	1863.0	1880.0	1715.0	1197.0	1138.2
1953-54	397.0	75.0	145.0	760.0	1162.0	1381.0	1584.0	1736.0	1848.0	1853.0	1723.0	1200.0	1155.3
1954-55	424.0	151.0	250.0	724.0	1154.0	1383.0	1583.0	1777.0	1946.0	2009.0	1892.0	1520.0	1234.4
1955-56	785.0	242.0	242.0	775.0	1172.0	1418.0	1622.0	1787.0	1937.0	1959.0	1758.0	1311.0	1250.6
1956-57	510.0	145.0	90.0	345.0	830.0	1202.0	1431.0	1599.0	1715.0	1642.0	1309.0	489.0	942.2
1957-58	115.0	60.0	85.0	493.0	1057.0	1302.0	1503.0	1661.0	1839.0	1910.0	1788.0	1443.0	1104.6
1958-59	635.0	224.0	316.0	830.0	1159.0	1372.0	1563.0	1704.0	1779.0	1776.0	1642.0	1034.0	1169.5
1959-60	301.0	75.0	110.0	446.0	1021.0	1293.0	1457.0	1671.0	1777.0	1717.0	1344.0	546.0	979.8
1960-61	110.0	60.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1761.0	1712.0	1418.0	702.0	-1.0
1961-62	221.0	-1.0	-1.0	-1.0	860.0	1298.0	1445.0	1619.0	1708.0	1617.0	1358.0	683.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	979.0	1236.0	-1.0	-1.0	1810.0	1817.0	1503.0	993.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	819.0	1170.0	1344.0	1540.0	1691.0	1693.0	1360.0	512.0	-1.0
1964-65	-1.0	-1.0	-1.0	512.0	1031.0	1305.0	1540.0	1787.0	1899.0	1895.0	1671.0	928.0	-1.0
1965-66	-1.0	-1.0	-1.0	647.0	1219.0	1383.0	1584.0	-1.0	-1.0	1786.0	1277.0	397.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	655.0	1148.0	1404.0	1613.0	1739.0	1727.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	1342.0	1576.0	1773.0	1938.0	1901.0	1643.0	937.0	-1.0
1968-69	-1.0	-1.0	-1.0	587.0	1058.0	1286.0	1498.0	1661.0	-1.0	1467.0	862.0	-1.0	-1.0
1969-70	-1.0	-1.0	50.0	563.0	1158.0	1503.0	1642.0	1843.0	2011.0	1922.0	1525.0	613.0	-1.0
1970-71	157.0	61.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	326.6	106.2	129.5	509.0	987.2	1291.1	1498.0	1669.0	1793.5	1755.3	1458.4	856.6	1031.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... ANSONGO
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 455000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1933-34	----	----	----	----	1699.0	3.7	
1934-35	----	----	----	----	1745.0	3.8	
1935-36	----	----	----	----	-1.0	-1.0	
1936-37	----	----	----	----	-1.0	-1.0	
1937-38	----	----	----	----	-1.0	-1.0	
1939-40	----	----	----	----	-1.0	-1.0	
1941-42	----	----	----	----	-1.0	-1.0	
1942-43	----	----	----	----	-1.0	-1.0	
1943-44	----	----	----	----	-1.0	-1.0	
1944-45	----	----	----	----	-1.0	-1.0	
1945-46	----	----	----	----	-1.0	-1.0	
1946-47	----	----	----	----	-1.0	-1.0	
1947-48	----	----	----	----	-1.0	-1.0	
1948-49	----	----	----	----	1710.0	3.8	
1949-50	725.7	22887.2	50.	1.60	1611.0	3.5	
1950-51	987.6	31147.0	68.	2.17	1883.0	4.1	
1951-52	1098.8	34652.8	76.	2.42	1883.0	4.1	
1952-53	1138.2	35895.8	79.	2.50	1906.0	4.2	
1953-54	1155.3	36434.5	80.	2.54	1883.0	4.1	
1954-55	1234.4	38928.5	86.	2.71	2035.0	4.5	
1955-56	1250.6	39441.0	87.	2.75	1981.0	4.4	
1956-57	942.2	29714.7	65.	2.07	1733.0	3.8	
1957-58	1104.6	34836.7	77.	2.43	1917.0	4.2	
1958-59	1169.5	36881.3	81.	2.57	1791.0	3.9	
1959-60	979.8	30900.0	68.	2.15	1802.0	4.0	
1960-61	----	----	----	----	1797.0	3.9	
1961-62	----	----	----	----	1709.0	3.8	
1962-63	----	----	----	----	1863.0	4.1	
1963-64	----	----	----	----	1742.0	3.8	
1964-65	----	----	----	----	1907.0	4.2	
1965-66	----	----	----	----	1830.0	4.0	
1966-67	----	----	----	----	1786.0	3.9	
1967-68	----	----	----	----	1830.0	4.0	
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	----	----	----	----	2037.0	4.5	
1970-71	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... DJIRILA
RIVER/COURS D EAU..... BAOULE
COUNTRY/PAYS..... C. I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3970.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.7	1.0	0.3	-1.0
1963-64	0.8	1.0	-1.0	85.8	171.0	131.0	75.0	17.7	7.3	2.2	0.7	0.2	-1.0
1964-65	0.3	0.9	13.2	122.0	303.0	136.0	53.8	31.2	17.4	9.7	3.3	0.9	57.6
1965-66	0.4	7.1	46.4	84.4	143.3	179.2	66.0	15.7	4.0	2.2	0.9	0.4	45.8
1966-67	0.8	0.6	6.7	85.7	265.0	171.8	95.5	24.2	8.1	3.7	1.4	0.5	55.3
1967-68	0.4	0.7	16.2	71.6	189.2	159.0	122.5	52.8	8.2	4.1	2.1	0.8	52.2
1968-69	1.4	3.0	11.5	73.0	210.0	146.0	99.3	49.0	6.2	3.2	2.8	2.0	50.6
1969-70	0.7	0.9	4.6	77.0	227.0	147.0	106.0	26.4	7.5	-1.0	-1.0	-1.0	-1.0
1970-71	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	41.6	14.0	-1.0	1.7	0.7	0.2	-1.0
1971-72	0.2	0.2	1.2	39.2	185.0	114.0	73.2	18.4	4.0	1.4	0.8	0.2	36.4
1972-73	0.3	3.4	5.2	42.1	127.0	107.0	25.1	11.9	3.8	1.9	0.6	0.2	27.3
1973-74	0.1	0.3	3.7	90.2	120.0	60.4	18.4	5.6	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.5	1.8	12.0	77.0	194.0	135.1	70.5	24.2	7.3	3.2	1.4	0.5	44.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DJIRILA
RIVER/COURS D EAU..... BAOULE
COUNTRY/PAYS..... C. I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3970.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	270.0	68.0	0.1
1964-65	57.6	1817.7	458.	14.52	450.0	113.4	0.1
1965-66	45.8	1445.3	364.	11.54	-1.0	-1.0	0.3
1966-67	55.3	1744.9	440.	13.94	-1.0	-1.0	0.3
1967-68	52.2	1649.3	415.	13.17	303.0	76.3	0.2
1968-69	50.6	1596.2	402.	12.75	302.0	76.1	0.7
1969-70	----	----	----	----	301.0	75.8	0.3
1970-71	----	----	----	----	-1.0	-1.0	0.1
1971-72	36.4	1150.5	290.	9.19	366.0	92.2	0.0
1972-73	27.3	863.2	217.	6.90	163.0	41.1	0.1
1973-74	----	----	----	----	139.0	35.0	

GAUGING STATION/STATION DE JAUGEAGE.... ALCONGUI
RIVER/COURS D EAU..... GOROUOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 44850.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1957-58	0.1	2.8	2.8	14.2	16.5	1.7	0.2	0.0	0.0	0.0	0.0	0.0	3.1
1958-59	0.0	2.6	5.5	27.0	55.0	12.4	3.1	0.5	0.1	0.0	0.0	0.0	8.8
1959-60	0.0	0.2	2.6	24.8	45.0	5.3	0.5	0.1	0.0	0.0	0.0	0.0	6.5
1960-61	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	0.0	0.3	10.6	14.8	56.1	7.5	0.6	0.2	0.0	0.0	0.0	0.0	7.5
1962-63	0.0	0.1	1.6	14.9	16.6	2.3	0.3	0.1	0.0	0.0	0.0	0.0	2.9
1963-64	0.0	2.2	8.8	23.6	10.1	3.1	0.2	0.0	0.0	0.0	0.0	0.0	3.9
1964-65	0.1	2.7	6.6	26.6	48.7	4.9	1.6	0.7	0.2	0.0	0.0	0.0	7.6
1965-66	0.0	2.0	4.2	12.7	19.4	5.8	1.8	0.5	0.0	0.0	0.0	0.0	3.8
1966-67	0.7	1.5	5.2	8.2	58.6	16.1	1.6	0.5	0.0	0.0	0.0	0.0	7.6
1967-68	0.0	0.1	2.1	14.1	48.9	4.9	0.9	0.9	0.1	0.0	0.0	0.0	5.9
1968-69	0.0	1.8	14.2	17.4	14.8	1.2	0.1	0.0	0.0	0.0	0.0	0.0	4.1
1969-70	0.0	3.3	17.4	42.0	27.7	12.7	49.0	0.1	0.0	0.0	0.0	0.0	12.6
1970-71	0.0	0.2	6.5	48.2	25.1	14.9	0.6	0.2	0.0	0.0	0.0	0.0	7.9
1971-72	0.0	1.5	10.8	36.9	23.8	1.1	0.3	0.1	0.0	0.0	0.0	0.0	6.2
1972-73	0.0	2.6	17.6	11.8	22.1	1.0	0.2	0.0	0.0	0.0	0.0	0.0	4.6
1973-74	0.0	0.1	4.9	60.3	23.6	7.9	0.3	0.1	0.0	0.0	0.0	0.0	8.0
1974-75	0.0	0.3	16.3	58.5	33.0	2.5	0.2	0.0	0.0	0.0	0.0	0.0	9.2
1975-76	0.2	0.5	7.8	31.6	48.2	5.6	0.4	0.1	0.0	0.0	0.0	0.0	7.8
AVG/MOYEN	0.0	1.3	8.0	27.0	32.9	6.1	3.4	0.2	0.0	0.0	0.0	0.0	6.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... ALCONGUI
RIVER/COURS D EAU..... GOROUOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 44850.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1957-58	3.1	100.6	2.	0.07	28.0	0.6	0.0
1958-59	8.8	279.0	6.	0.20	-1.0	-1.0	0.0
1959-60	6.5	206.2	5.	0.15	75.0	1.7	0.0
1960-61	----	----	----	----	-1.0	-1.0	0.0
1961-62	7.5	236.7	5.	0.17	100.0	2.2	0.0
1962-63	2.9	94.3	2.	0.07	33.0	0.7	0.0
1963-64	3.9	126.1	3.	0.09	33.0	0.7	0.0
1964-65	7.6	242.0	5.	0.17	79.2	1.8	0.0
1965-66	3.8	121.9	3.	0.09	25.9	0.6	0.0
1966-67	7.6	242.8	5.	0.17	104.0	2.3	0.0
1967-68	5.9	189.2	4.	0.13	90.0	2.0	0.0
1968-69	4.1	130.0	3.	0.09	27.9	0.6	0.0
1969-70	12.6	399.9	9.	0.28	70.0	1.6	0.0
1970-71	7.9	251.4	6.	0.18	65.8	1.5	0.0
1971-72	6.2	195.7	4.	0.14	68.2	1.5	0.0
1972-73	4.6	145.3	3.	0.10	26.9	0.6	0.0
1973-74	8.0	255.4	6.	0.18	83.2	1.9	0.0
1974-75	9.2	291.1	6.	0.21	95.6	2.1	0.0
1975-76	7.8	248.0	6.	0.18	92.0	2.1	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BARGAYA
RIVER/COURS D EAU..... G.GALBI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	0.0	0.0	1.3	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1963-64	0.0	0.3	1.5	4.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1964-65	0.0	0.0	0.5	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1965-66	0.0	0.6	0.7	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
1966-67	0.0	0.0	1.4	0.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1968-69	0.0	0.0	1.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1969-70	0.0	0.4	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1970-71	0.0	0.0	1.1	4.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1971-72	0.0	0.0	0.6	3.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1972-73	0.0	0.3	1.3	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
AVG/MOYEN	0.0	0.1	1.0	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BARGAYA
RIVER/COURS D EAU..... G.GALBI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	0.2	9.1	13.	0.42	-1.0	-1.0	
1963-64	0.5	17.8	26.	0.81	-1.0	-1.0	
1964-65	0.5	15.7	23.	0.71	-1.0	-1.0	
1965-66	0.3	11.0	16.	0.50	-1.0	-1.0	
1966-67	0.2	9.1	13.	0.42	-1.0	-1.0	
1968-69	0.1	4.7	7.	0.21	-1.0	-1.0	
1969-70	0.2	6.5	9.	0.30	-1.0	-1.0	
1970-71	0.5	17.0	24.	0.77	-1.0	-1.0	
1971-72	0.4	14.7	21.	0.67	-1.0	-1.0	
1972-73	0.2	8.6	12.	0.39	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... BARO
RIVER/COURS D EAU..... NIANDAN
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 12600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1913-14	-1.0	-1.0	-1.0	307.0	652.0	496.0	250.0	101.0	-1.0	-1.0	-1.0	-1.0	-1.0
1926-27	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947-48	19.1	96.1	336.0	437.0	815.0	508.0	172.0	72.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948-49	50.0	200.0	372.0	640.0	821.0	459.0	276.0	104.0	53.0	33.6	24.5	16.4	254.1
1949-50	15.7	26.0	98.0	390.0	-1.0	383.0	25.2	99.0	35.2	42.8	26.3	23.6	-1.0
1950-51	26.0	42.3	135.0	326.0	783.0	565.0	252.0	96.0	62.3	27.5	35.4	20.9	197.6
1951-52	106.8	186.0	486.0	733.0	680.0	848.0	738.0	190.0	106.0	42.0	38.6	23.7	348.1
1952-53	31.6	80.3	273.0	580.0	809.0	804.0	352.0	129.0	38.8	20.8	24.2	23.4	263.8
1953-54	36.6	292.0	445.0	738.0	920.0	698.0	365.0	172.0	115.0	62.0	39.5	62.5	328.7
1954-55	77.0	188.0	378.0	509.0	846.0	669.0	530.0	271.0	130.0	70.0	76.0	52.0	316.3
1955-56	93.0	245.0	520.0	726.0	1069.0	728.0	377.0	199.0	107.0	64.0	47.7	44.1	351.6
1956-57	39.0	89.0	339.0	295.0	-1.0	-1.0	250.0	132.0	65.0	35.4	29.1	12.7	-1.0
1957-58	32.0	155.0	497.0	607.0	980.0	849.0	422.0	174.0	101.0	56.0	37.0	58.0	330.6
1958-59	130.0	357.0	296.0	217.0	794.0	648.0	471.0	256.0	113.0	58.0	30.0	22.0	282.6
1959-60	50.0	161.0	409.0	515.0	877.0	518.0	339.0	140.0	73.0	38.4	25.0	14.2	263.2
1960-61	32.4	147.0	354.0	748.0	907.0	573.0	345.0	130.0	67.0	37.0	13.0	7.2	280.0
1961-62	33.0	45.0	251.0	487.0	469.0	368.0	175.0	66.0	34.0	8.6	1.5	2.2	161.6
1962-63	45.0	99.0	207.0	831.0	1209.0	-1.0	385.0	209.0	97.0	65.0	32.0	31.0	-1.0
1963-64	49.0	51.0	224.0	404.0	625.0	745.0	257.0	96.0	42.0	22.0	4.0	2.0	210.0
1964-65	21.0	144.0	311.0	531.0	787.0	566.0	270.0	169.0	84.0	57.0	-1.0	-1.0	-1.0
1965-66	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	14.0	39.0	-1.0
1967-68	26.0	51.0	183.0	370.0	807.0	895.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	48.0	139.7	321.7	519.5	825.0	628.8	329.0	147.6	77.8	43.5	29.2	26.7	261.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BARO
RIVER/COURS D EAU..... NIANDAN
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 12600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1913-14	----	----	----	----	809.0	64.2	
1926-27	----	----	----	----	1396.0	110.8	
1947-48	----	----	----	----	919.0	72.9	
1948-49	254.1	8014.0	636.	20.17	973.0	77.2	
1949-50	----	----	----	----	-1.0	-1.0	13.7
1950-51	197.6	6232.0	495.	15.68	1015.0	80.6	16.6
1951-52	348.1	10980.0	871.	27.63	1320.0	104.8	16.6
1952-53	263.8	8320.5	660.	20.94	1045.0	82.9	16.6
1953-54	328.7	10369.0	823.	26.10	1130.0	89.7	19.4
1954-55	316.3	9975.8	792.	25.11	1040.0	82.5	26.2
1955-56	351.6	11089.6	880.	27.91	1490.0	118.3	37.0
1956-57	----	----	----	----	-1.0	-1.0	
1957-58	330.6	10427.9	828.	26.24	1210.0	96.0	5.2
1958-59	282.6	8914.1	707.	22.43	-1.0	-1.0	
1959-60	263.2	8303.4	659.	20.90	-1.0	-1.0	
1960-61	280.0	8831.6	701.	22.23	-1.0	-1.0	
1961-62	161.6	5099.1	405.	12.83	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	210.0	6625.1	526.	16.67	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	----	----	----	----	-1.0	-1.0	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	1500.0	119.0	

GAUGING STATION/STATION DE JAUGEAGE.... BAROU
RIVER/COURS D EAU..... MEKROU
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	0.0	1.4	19.3	57.8	123.3	56.6	7.3	1.0	0.0	0.0	0.0	0.0	22.2
1962-63	0.0	5.6	28.6	86.3	316.0	141.0	30.0	9.7	2.3	0.3	0.0	0.0	51.6
1963-64	-1.0	-1.0	-1.0	-1.0	182.0	131.0	35.4	9.5	2.3	0.0	0.0	0.0	-1.0
1964-65	0.0	5.0	29.3	86.0	230.0	76.0	17.0	3.1	0.0	0.0	0.0	0.0	37.2
1965-66	-1.0	2.6	6.6	35.9	147.0	46.0	13.0	3.9	1.0	0.1	0.0	0.0	-1.0
1966-67	-1.0	-1.0	21.0	53.0	108.0	104.0	26.5	6.0	0.7	0.9	0.0	0.0	-1.0
1967-68	-1.0	-1.0	6.9	67.0	233.0	173.0	27.0	7.0	1.2	-1.0	-1.0	-1.0	-1.0
1968-69	0.0	15.3	29.6	111.0	197.0	116.0	26.5	7.5	2.3	0.6	0.1	0.0	42.1
1969-70	0.0	5.8	28.3	93.7	308.0	190.0	71.6	20.5	5.9	2.1	0.5	0.0	60.5
1970-71	-1.0	-1.0	9.3	94.7	168.0	199.0	24.1	4.7	1.4	0.3	-1.0	-1.0	-1.0
1971-72	0.2	1.0	18.0	72.4	115.0	41.8	7.1	1.1	0.0	0.0	0.0	0.0	21.3
1972-73	-1.0	-1.0	7.2	40.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	0.0	0.4	9.1	46.4	58.6	42.1	5.3	0.5	0.0	0.0	0.0	0.0	13.5
1974-75	0.8	1.3	13.0	56.2	112.0	95.5	23.0	1.4	0.6	0.0	0.0	0.0	25.3
1975-76	1.0	0.8	14.4	49.9	116.0	67.4	10.6	2.8	0.4	0.0	0.0	0.0	21.9
AVG/MOYEN	0.2	3.9	17.1	67.8	172.4	105.6	23.1	5.6	1.2	0.3	0.0	0.0	33.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BAROU
RIVER/COURS D EAU..... MEKROU
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	22.2	700.8	67.	2.12	178.6	17.0	0.0
1962-63	51.6	1628.8	155.	4.92	405.0	38.6	
1963-64	----	----	----	----	215.0	20.5	0.0
1964-65	37.2	1173.1	112.	3.54	281.0	26.8	0.0
1965-66	----	----	----	----	190.0	18.1	0.0
1966-67	----	----	----	----	200.0	19.0	0.0
1967-68	----	----	----	----	269.0	25.6	0.0
1968-69	42.1	1329.5	127.	4.02	226.0	21.5	
1969-70	60.5	1908.9	182.	5.77	256.0	24.4	0.0
1970-71	----	----	----	----	387.0	36.9	0.0
1971-72	21.3	674.3	64.	2.04	156.0	14.9	0.0
1972-73	----	----	----	----	-1.0	-1.0	
1973-74	13.5	426.7	41.	1.29	88.0	8.4	0.0
1974-75	25.3	798.3	76.	2.41	-1.0	-1.0	0.0
1975-76	21.9	691.9	66.	2.09	172.0	16.4	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BOUGOUNI
RIVER/COURS D EAU..... BAOULE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	2.6	3.3	27.6	294.0	422.0	315.0	110.0	43.0	20.0	91.0	5.3	1.5	111.2
1957-58	1.2	6.7	71.0	535.0	685.0	761.0	323.0	103.0	45.0	27.2	11.4	2.6	214.3
1958-59	1.9	10.2	103.0	515.0	525.0	374.0	200.0	107.0	43.0	23.2	10.7	3.7	159.7
1959-60	1.6	2.5	10.7	231.0	530.0	453.0	124.0	45.0	18.4	8.0	3.2	1.3	119.0
1960-61	1.3	3.9	100.0	391.0	503.0	388.0	162.0	55.0	21.2	11.3	5.1	4.3	137.1
1961-62	1.0	3.4	44.9	332.0	663.0	266.0	67.0	21.0	9.4	4.9	1.8	0.8	117.9
1962-63	1.3	-1.0	54.0	194.0	535.0	450.0	195.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	24.0	10.0	-1.0	-1.0	-1.0
1964-65	1.5	9.2	81.4	372.0	666.0	525.0	170.0	79.0	44.0	20.0	8.0	2.0	164.8
1965-66	1.5	9.4	69.0	207.0	365.0	422.0	181.0	47.0	18.9	8.5	3.9	1.4	111.2
1966-67	0.7	2.3	65.0	190.0	623.0	579.0	265.0	69.0	27.0	11.9	4.9	1.7	153.2
1967-68	3.0	1.7	19.5	260.0	540.0	435.0	203.0	62.0	22.8	11.5	5.6	2.0	130.5
1968-69	1.8	6.9	50.9	280.0	427.0	342.0	167.0	56.8	22.5	8.1	4.6	1.4	114.0
1969-70	0.9	3.0	96.2	349.0	492.0	325.0	195.0	57.0	22.4	10.0	4.7	1.4	129.7
1970-71	1.4	2.4	5.9	176.0	662.0	397.0	85.0	25.0	9.7	6.5	2.7	0.6	114.5
AVG/MOYEN	1.5	4.9	57.0	309.0	545.5	430.8	174.7	59.2	24.8	18.0	5.5	1.8	136.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOUGOUNI
RIVER/COURS D EAU..... BAOULE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	111.2	3509.1	224.	7.09	498.0	31.7	
1957-58	214.3	6759.4	431.	13.65	891.0	56.8	0.9
1958-59	159.7	5037.0	321.	10.17	-1.0	-1.0	
1959-60	119.0	3754.6	239.	7.58	-1.0	-1.0	
1960-61	137.1	4325.9	276.	8.74	-1.0	-1.0	
1961-62	117.9	3719.1	237.	7.51	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	164.8	5198.4	331.	10.50	-1.0	-1.0	
1965-66	111.2	3507.3	223.	7.08	-1.0	-1.0	
1966-67	153.2	4834.2	308.	9.76	-1.0	-1.0	
1967-68	130.5	4115.7	262.	8.31	-1.0	-1.0	
1968-69	114.0	3597.7	229.	7.27	467.0	29.7	1.0
1969-70	129.7	4090.7	261.	8.26	535.0	34.1	0.7
1970-71	114.5	3611.3	230.	7.29	696.0	44.3	0.1

GAUGING STATION/STATION DE JAUGEAGE.... COUBERI
RIVER/COURS D EAU..... SOTA
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 13200.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	5.5	28.1	37.3	105.1	198.5	109.5	24.1	9.1	5.7	5.4	4.9	4.1	44.7
1954-55	6.8	15.0	12.0	91.0	273.0	102.0	21.0	8.9	6.6	6.3	5.7	4.8	46.0
1955-56	8.4	11.4	68.0	252.0	273.0	228.0	47.0	18.0	6.4	6.1	6.0	5.5	77.4
1956-57	6.7	10.0	17.0	63.0	134.0	91.0	18.0	8.1	11.6	11.5	10.4	7.5	32.3
1957-58	9.3	17.0	23.0	192.0	331.0	149.0	42.0	15.0	6.3	5.7	5.2	5.5	66.7
1958-59	7.0	10.2	9.6	13.1	20.0	22.0	8.0	5.0	9.8	8.3	7.7	8.0	10.7
1959-60	8.4	5.9	17.0	68.0	323.0	163.0	25.0	11.0	4.8	4.8	4.6	4.4	53.3
1960-61	7.4	18.0	38.0	58.0	222.0	188.0	38.0	15.0	8.4	7.4	6.7	6.6	51.1
1962-63	6.2	11.8	54.0	210.0	368.0	140.0	33.0	11.2	5.3	4.7	4.5	4.2	71.0
1961-62	6.9	8.7	11.0	33.4	87.0	28.4	7.2	5.8	10.8	8.6	7.0	7.3	18.5
1963-64	8.0	10.1	9.8	81.0	177.0	106.0	28.8	7.7	7.9	6.8	6.2	5.8	37.9
1964-65	4.8	11.8	15.4	81.0	222.0	67.0	13.0	6.8	5.3	4.7	4.5	4.4	36.7
1965-66	6.7	8.6	13.6	39.0	82.0	23.8	5.8	4.1	5.8	5.6	5.1	5.5	17.1
1966-67	4.3	6.6	7.9	25.0	133.0	91.0	12.9	5.7	3.9	3.9	3.5	3.3	25.0
1967-68	3.8	6.4	10.5	90.0	300.0	128.0	-1.0	-1.0	4.6	4.3	3.9	3.7	-1.0
1968-69	7.7	12.4	40.0	98.0	186.0	93.0	15.5	6.8	5.1	4.8	4.0	5.0	39.8
1969-70	5.0	5.0	20.4	101.0	201.0	75.0	52.0	12.3	6.5	6.1	5.4	4.6	41.1
1971-72	4.8	9.7	46.5	69.0	141.0	29.9	6.8	4.9	4.3	3.8	3.4	3.5	27.2
AVG/MOYEN	6.5	11.4	25.0	92.7	203.9	101.9	23.4	9.1	6.6	6.0	5.4	5.2	41.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... COUBERI
RIVER/COURS D EAU..... SOTA
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 13200.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	44.7	1412.0	107.	3.39	319.0	24.2	3.8
1954-55	46.0	1453.5	110.	3.49	351.0	26.6	4.4
1955-56	77.4	2443.5	185.	5.87	351.0	26.6	
1956-57	32.3	1021.7	77.	2.45	164.0	12.4	4.2
1957-58	66.7	2105.0	159.	5.06	381.0	28.9	5.2
1958-59	10.7	338.2	26.	0.81	44.0	3.3	3.4
1959-60	53.3	1681.6	127.	4.04	388.0	29.4	
1960-61	51.1	1612.2	122.	3.87	336.0	25.5	6.5
1962-63	71.0	2241.4	170.	5.38	481.0	36.4	
1961-62	18.5	583.6	44.	1.40	135.0	10.2	4.4
1963-64	37.9	1196.0	91.	2.87	247.0	18.7	3.8
1964-65	36.7	1158.1	88.	2.78	312.0	23.6	4.2
1965-66	17.1	540.3	41.	1.30	119.0	9.0	
1966-67	25.0	791.0	60.	1.90	271.0	20.5	
1967-68	----	----	----	----	460.0	34.8	
1968-69	39.8	1256.9	95.	3.02	266.0	20.2	
1969-70	41.1	1299.0	98.	3.12	260.0	19.7	
1971-72	27.2	860.9	65.	2.07	230.0	17.4	

GAUGING STATION/STATION DE JAUGEAGE.... DIONGORE
RIVER/COURS D EAU..... GOROUBI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15350.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	0.0	2.0	3.0	12.9	99.0	32.1	5.4	0.1	0.0	0.0	0.0	0.0	12.8
1963-64	0.0	6.0	11.0	5.3	11.5	13.0	1.0	0.0	0.0	0.0	0.0	0.0	3.9
1964-65	0.0	2.0	3.3	20.4	81.0	51.0	9.1	0.1	0.0	0.0	0.0	0.0	13.9
1965-66	0.0	2.0	6.6	3.8	18.8	21.9	1.2	0.0	0.0	0.0	0.0	0.0	4.5
1966-67	0.0	5.6	10.8	6.3	10.1	14.9	5.0	0.1	0.0	0.0	0.0	0.0	4.4
1967-68	0.0	0.2	5.6	23.4	66.9	28.2	3.4	0.1	0.0	0.0	0.0	0.0	10.6
1968-69	0.0	0.2	2.6	2.7	4.6	2.9	0.3	0.0	0.0	0.0	0.0	0.0	1.1
1969-70	0.0	7.1	9.2	15.7	26.7	17.9	1.6	0.0	0.0	0.0	0.0	0.0	6.5
1970-71	-1.0	-1.0	17.1	24.2	42.8	8.2	1.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971-72	0.0	1.6	5.8	11.1	42.6	14.0	0.2	0.0	0.0	0.0	0.0	0.0	6.2
1972-73	-1.0	-1.0	2.5	5.8	-1.0	-1.0	0.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	-1.0	-1.0	15.2	53.6	32.5	2.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1974-75	0.0	0.0	4.3	37.0	20.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	5.3
AVG/MOYEN	0.0	2.6	7.4	17.0	38.0	17.4	2.3	0.0	0.0	0.0	0.0	0.0	7.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DIONGORE
RIVER/COURS D EAU..... GOROUBI
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15350.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	12.8	406.0	26.	0.84	127.0	8.3	0.0
1963-64	3.9	125.6	8.	0.26	18.0	1.2	0.0
1964-65	13.9	438.6	29.	0.91	48.6	3.2	0.0
1965-66	4.5	142.7	9.	0.29	35.2	2.3	0.0
1966-67	4.4	138.7	9.	0.29	-1.0	-1.0	0.0
1967-68	10.6	335.8	22.	0.69	-1.0	-1.0	0.0
1968-69	1.1	34.9	2.	0.07	-1.0	-1.0	0.0
1969-70	6.5	205.5	13.	0.42	-1.0	-1.0	0.0
1970-71	----	----	----	----	-1.0	-1.0	0.0
1971-72	6.2	197.8	13.	0.41	55.0	3.6	0.0
1972-73	----	----	----	----	18.7	1.2	0.0
1973-74	----	----	----	----	79.2	5.2	0.0
1974-75	5.3	168.1	11.	0.35	57.6	3.8	0.0

GAUGING STATION/STATION DE JAUGEAGE.... DIRE
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 340000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1924-25	-1.0	-1.0	255.0	1038.0	1891.0	2096.0	2397.0	2584.0	2486.0	2135.0	1505.0	819.0	-1.0
1925-26	293.0	118.0	379.0	1021.0	1678.0	2076.0	2309.0	2557.0	2658.0	2335.0	1744.0	1048.0	1518.0
1926-27	425.0	147.0	470.0	1113.0	1634.0	1945.0	2185.0	2245.0	1755.0	1182.0	634.0	208.0	1161.9
1927-28	78.0	73.0	273.0	912.0	1540.0	1949.0	2242.0	2483.0	2535.0	2149.0	1567.0	877.0	1389.8
1928-29	314.0	152.0	302.0	864.0	1588.0	2022.0	2328.0	2599.0	2523.0	2161.0	1538.0	853.0	1437.0
1929-30	321.0	161.0	590.0	1322.0	1835.0	2144.0	2393.0	2621.0	2614.0	2213.0	1574.0	890.0	1556.5
1930-31	333.0	155.0	541.0	1053.0	1596.0	1957.0	2201.0	2401.0	2263.0	1756.0	1149.0	572.0	1331.4
1931-32	193.0	214.0	522.0	1039.0	1568.0	1933.0	2177.0	2272.0	1948.0	1370.0	805.0	314.0	1196.2
1932-33	106.0	98.0	328.0	880.0	1463.0	1855.0	2154.0	2345.0	2271.0	1744.0	1138.0	567.0	1245.7
1933-34	179.0	77.0	377.0	1063.0	1594.0	1939.0	2223.0	2362.0	2130.0	1583.0	1002.0	439.0	1247.3
1934-35	114.0	30.0	90.0	584.0	1291.0	1761.0	2044.0	2168.0	1767.0	1211.0	668.0	211.0	994.9
1935-36	73.0	50.0	106.0	679.0	1410.0	1864.0	2144.0	2292.0	2010.0	1421.0	802.0	281.0	1094.3
1936-37	70.0	178.0	428.0	975.0	1586.0	1962.0	2218.0	2403.0	2284.0	1772.0	1167.0	552.0	1299.5
1937-38	164.0	64.0	121.0	595.0	1268.0	1726.0	1994.0	2137.0	1690.0	1104.0	560.0	175.0	966.5
1938-39	57.0	50.0	115.0	555.0	1284.0	1805.0	2120.0	2305.0	2065.0	1464.0	868.0	326.0	1084.5
1939-40	80.0	56.0	145.0	561.0	1226.0	1720.0	2003.0	2180.0	2012.0	1404.0	833.0	302.0	1043.5
1940-41	85.0	40.0	116.0	570.0	1176.0	1624.0	1870.0	1958.0	1457.0	912.0	421.0	113.0	861.8
1941-42	50.0	40.0	175.0	736.0	1312.0	1712.0	1973.0	2040.0	1499.0	910.0	367.0	80.0	907.8
1942-43	50.0	50.0	135.0	654.0	1309.0	1693.0	1898.0	1739.0	1140.0	619.0	197.0	56.0	795.0
1943-44	35.0	35.0	103.0	649.0	1277.0	1748.0	2025.0	2001.0	1510.0	1050.0	530.0	170.0	927.7
1944-45	50.0	40.0	58.0	368.0	1102.0	1605.0	1867.0	1829.0	1184.0	624.0	185.0	50.0	746.8
1945-46	30.0	20.0	52.0	503.0	1375.0	1812.0	2074.0	2209.0	1926.0	1273.0	644.0	153.0	1005.9
1946-47	50.0	50.0	188.0	802.0	1450.0	1856.0	2119.0	2281.0	2118.0	1541.0	910.0	295.0	1138.3
1947-48	64.0	40.0	97.0	655.0	1277.0	1676.0	1940.0	1996.0	1357.0	745.0	236.0	58.0	845.0
1948-49	40.0	30.0	269.0	992.0	1540.0	1877.0	2104.0	2158.0	1550.0	1100.0	550.0	170.0	1031.6
1949-50	55.0	50.0	58.0	535.0	1326.0	1783.0	2141.0	2043.0	1487.0	1096.0	686.0	207.0	955.5
1950-51	85.0	56.0	74.0	718.0	1494.0	1950.0	2188.0	2370.0	2222.0	1684.0	1018.0	372.0	1185.9
1951-52	87.0	129.0	423.0	971.0	1588.0	1946.0	2211.0	2430.0	2534.0	2279.0	1717.0	1002.0	1443.0
1952-53	351.0	86.0	177.0	921.0	1688.0	2070.0	2284.0	2474.0	2431.0	1981.0	1360.0	684.0	1375.5
1953-54	167.0	79.0	571.0	1338.0	1767.0	2114.0	2366.0	2551.0	2455.0	1985.0	1359.0	696.0	1454.0
1954-55	238.0	169.0	593.0	1236.0	1769.0	2102.0	2363.0	2570.0	2582.0	2242.0	1677.0	980.0	1543.4
1955-56	431.0	195.0	640.0	1319.0	1796.0	2138.0	2391.0	2589.0	2550.0	2106.0	1442.0	799.0	1533.0
1956-57	276.0	89.0	186.0	786.0	1433.0	1870.0	2136.0	2276.0	1931.0	1384.0	781.0	252.0	1116.6
1957-58	66.0	50.0	293.0	1032.0	1684.0	2034.0	2285.0	2519.0	2579.0	2211.0	1647.0	900.0	1441.6
1958-59	331.0	230.0	683.0	1223.0	1647.0	1981.0	2200.0	2379.0	2352.0	1810.0	1257.0	605.0	1391.5
1959-60	143.0	60.0	239.0	913.0	1546.0	1946.0	2190.0	2342.0	2123.0	1515.0	792.0	237.0	1170.5
1960-61	50.0	30.0	262.0	1024.0	1624.0	1976.0	2206.0	2371.0	2104.0	1515.0	882.0	349.0	1199.4
1961-62	81.0	35.0	89.0	819.0	1558.0	1901.0	2154.0	2210.0	1698.0	1032.0	504.0	170.0	1020.9
1962-63	40.0	30.0	165.0	856.0	1554.0	1926.0	2213.0	2404.0	2303.0	1740.0	1070.0	535.0	1236.3
1963-64	110.0	60.0	87.0	634.0	1357.0	1767.0	2033.0	2203.0	1897.0	1464.0	820.0	238.0	1055.8
1964-65	63.0	37.0	324.0	958.0	1620.0	2022.0	2258.0	2343.0	2147.0	1764.0	1166.0	504.0	1267.1
1965-66	166.0	45.0	348.0	1151.0	1723.0	2004.0	2185.0	2138.0	1860.0	1338.0	710.0	190.0	1154.8

1966-67	50.0	25.0	90.0	506.0	1234.0	1765.0	2014.0	2120.0	1755.0	1339.0	718.0	201.0	984.7
1967-68	50.0	30.0	115.0	806.0	1558.0	1949.0	2200.0	2382.0	2208.0	1774.0	1126.0	484.0	1223.5
1968-69	102.0	78.0	553.0	1030.0	1565.0	1896.0	2075.0	1939.0	1520.0	1003.0	457.0	96.0	1026.1
1969-70	36.0	45.0	240.0	1093.0	1664.0	1974.0	2185.0	2308.0	2082.0	1590.0	922.0	308.0	1203.9
1970-71	74.0	35.0	84.9	586.0	1334.0	1770.0	1980.0	1748.0	1265.0	715.0	243.0	61.1	824.6
1971-72	31.1	26.5	65.1	686.0	1355.0	1803.0	1969.0	1638.0	1194.0	612.0	171.0	44.3	799.5
1972-73	26.0	54.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	132.5	76.9	262.3	860.9	1503.2	1896.7	2150.6	2260.6	2000.6	1499.1	919.1	406.1	1164.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DIRE
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 340000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1924-25	----	----	----	----	2625.0	7.7	
1925-26	1518.0	47871.6	141.	4.46	2677.0	7.9	
1926-27	1161.9	36642.2	108.	3.42	2279.0	6.7	
1927-28	1389.8	43829.7	129.	4.09	2572.0	7.6	
1928-29	1437.0	45317.2	133.	4.23	2655.0	7.8	
1929-30	1556.5	49085.7	144.	4.58	2677.0	7.9	
1930-31	1331.4	41987.5	123.	3.92	2447.0	7.2	
1931-32	1196.2	37724.9	111.	3.52	2321.0	6.8	
1932-33	1245.7	39285.9	116.	3.66	2384.0	7.0	
1933-34	1247.3	39335.9	116.	3.67	2384.0	7.0	
1934-35	994.9	31375.6	92.	2.93	2199.0	6.5	
1935-36	1094.3	34510.8	102.	3.22	2314.0	6.8	
1936-37	1299.5	40983.6	121.	3.82	2440.0	7.2	
1937-38	966.5	30479.5	90.	2.84	2157.0	6.3	
1938-39	1084.5	34200.7	101.	3.19	2335.0	6.9	
1939-40	1043.5	32907.8	97.	3.07	2217.0	6.5	
1940-41	861.8	27178.7	80.	2.53	2001.0	5.9	
1941-42	907.8	28629.4	84.	2.67	2061.0	6.1	
1942-43	795.0	25071.1	74.	2.34	1947.0	5.7	
1943-44	927.7	29257.5	86.	2.73	2139.0	6.3	
1944-45	746.8	23552.1	69.	2.20	1965.0	5.8	
1945-46	1005.9	31722.5	93.	2.96	2223.0	6.5	
1946-47	1138.3	35898.4	106.	3.35	2314.0	6.8	
1947-48	845.0	26650.5	78.	2.49	2061.0	6.1	
1948-49	1031.6	32534.6	96.	3.03	2205.0	6.5	
1949-50	955.5	30135.2	89.	2.81	2145.0	6.3	
1950-51	1185.9	37399.0	110.	3.49	2405.0	7.1	
1951-52	1443.0	45509.0	134.	4.24	2557.0	7.5	
1952-53	1375.5	43380.3	128.	4.05	2535.0	7.5	
1953-54	1454.0	45853.3	135.	4.28	2595.0	7.6	
1954-55	1543.4	48673.1	143.	4.54	2647.0	7.8	
1955-56	1533.0	48344.6	142.	4.51	2640.0	7.8	
1956-57	1116.6	35215.2	104.	3.28	2300.0	6.8	
1957-58	1441.6	45464.4	134.	4.24	2632.0	7.7	
1958-59	1391.5	43882.3	129.	4.09	2410.0	7.1	
1959-60	1170.5	36912.8	109.	3.44	2355.0	6.9	
1960-61	1199.4	37824.8	111.	3.53	2410.0	7.1	
1961-62	1020.9	32195.6	95.	3.00	2270.0	6.7	
1962-63	1236.3	38989.0	115.	3.64	2440.0	7.2	
1963-64	1055.8	33296.7	98.	3.11	-1.0	-1.0	
1964-65	1267.1	39961.3	118.	3.73	-1.0	-1.0	
1965-66	1154.8	36418.8	107.	3.40	-1.0	-1.0	
1966-67	984.7	31055.0	91.	2.90	-1.0	-1.0	

1967-68	1223.5	38584.2	113.	3.60	2405.0	7.1
1968-69	1026.1	32361.1	95.	3.02	2120.0	6.2
1969-70	1203.9	37966.7	112.	3.54	2335.0	6.9
1970-71	824.6	26006.6	76.	2.43	-1.0	-1.0
1971-72	799.5	25215.6	74.	2.35	-1.0	-1.0
1972-73	----	----	----	----	-1.0	-1.0

GAUGING STATION/STATION DE JAUGEAGE.... DOLBEL
RIVER/COURS D EAU..... GOROUOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	0.0	6.7	24.6	50.0	73.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	13.0
1962-63	0.0	0.5	3.8	45.0	23.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.1
1963-64	0.1	15.6	22.1	49.8	9.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	8.2
1964-65	0.0	3.8	20.9	31.3	47.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	8.7
1965-66	0.0	4.3	6.0	0.0	36.3	30.3	1.1	0.0	0.0	0.0	0.0	0.0	6.4
1966-67	1.4	2.7	15.9	21.5	76.1	9.4	0.3	0.0	0.0	0.0	0.0	0.0	10.6
1967-68	0.0	0.8	9.4	43.8	48.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	8.6
1968-69	0.0	3.9	27.1	8.7	12.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.4
1969-70	0.0	13.5	19.9	66.0	19.5	10.6	0.0	0.0	0.0	0.0	0.0	0.0	10.7
1970-71	0.0	0.1	12.1	49.4	23.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	7.3
1971-72	0.0	6.6	13.7	44.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
1972-73	0.3	9.0	25.0	17.0	18.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.8
1973-74	0.0	1.3	16.6	63.6	12.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	8.2
1974-75	0.0	2.3	26.8	39.2	25.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	7.8
1975-76	0.4	8.6	17.9	44.9	37.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.1
AVG/MOYEN	0.1	5.3	17.4	38.3	31.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	8.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DOLBEL
RIVER/COURS D EAU..... GOROUOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	13.0	411.8	55.	1.74	118.0	15.7	
1962-63	6.1	193.1	26.	0.82	73.0	9.7	
1963-64	8.2	259.3	35.	1.10	96.1	12.8	0.0
1964-65	8.7	274.6	37.	1.16	92.0	12.3	0.0
1965-66	6.4	204.9	27.	0.87	72.0	9.6	0.0
1966-67	10.6	334.5	45.	1.41	117.0	15.6	0.0
1967-68	8.6	273.5	36.	1.16	104.0	13.9	0.0
1968-69	4.4	139.0	19.	0.59	59.1	7.9	0.0
1969-70	10.7	340.3	45.	1.44	113.0	15.1	0.0
1970-71	7.3	231.0	31.	0.98	88.0	11.7	0.0
1971-72	6.1	194.4	26.	0.82	84.2	11.2	0.0
1972-73	5.8	183.1	24.	0.77	54.4	7.3	0.0
1973-74	8.2	259.6	35.	1.10	83.8	11.2	0.0
1974-75	7.8	246.7	33.	1.04	73.8	9.8	0.0
1975-76	9.1	289.6	39.	1.22	105.2	14.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... DOUNA
RIVER/COURS D EAU..... BANI
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 101600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1922-23	-1.0	39.0	86.0	775.0	2379.0	3173.0	1633.0	449.0	163.0	85.0	68.0	51.0	-1.0
1923-24	54.0	46.0	97.0	795.0	1834.0	1620.0	730.0	281.0	141.0	93.0	55.0	33.0	481.5
1924-25	23.0	32.0	379.0	1840.0	3028.0	3700.0	1595.0	416.0	187.0	112.0	68.0	46.0	952.1
1925-26	40.0	43.0	51.0	1144.0	2512.0	2719.0	1935.0	602.0	227.0	137.0	73.0	44.0	793.9
1926-27	43.0	50.0	153.0	991.0	1456.0	1113.0	486.0	230.0	125.0	91.0	64.0	45.0	403.9
1927-28	39.0	51.0	214.0	1181.0	2780.0	2594.0	1611.0	639.0	287.0	170.0	98.0	50.0	809.5
1928-29	30.0	37.0	101.0	1286.0	2958.0	2844.0	1651.0	673.0	258.0	127.0	67.0	41.0	839.4
1929-30	25.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1930-31	-1.0	55.0	163.0	1105.0	2770.0	2050.0	890.0	350.0	54.0	33.0	22.0	15.0	-1.0
1931-32	23.0	40.0	197.0	1806.0	2405.0	2450.0	737.0	147.0	61.0	30.0	35.0	29.0	663.3
1932-33	19.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1933-34	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	92.0	89.0	74.0	-1.0	-1.0
1934-35	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1935-36	-1.0	-1.0	138.0	-1.0	-1.0	-1.0	-1.0	-1.0	133.0	94.0	88.0	71.0	-1.0
1936-37	50.0	70.0	184.0	1550.0	2811.0	2556.0	899.0	347.0	155.0	97.0	71.0	-1.0	-1.0
1949-50	-1.0	-1.0	-1.0	-1.0	-1.0	1650.0	348.0	156.0	72.0	38.0	20.0	15.0	-1.0
1950-51	10.0	15.0	73.0	987.0	2595.0	2568.0	1356.0	356.0	136.0	84.0	45.0	18.0	686.9
1951-52	13.0	11.0	100.0	866.0	2259.0	2783.0	2283.0	988.0	294.0	151.0	85.0	40.0	822.7
1952-53	25.0	23.0	174.0	946.0	2214.0	3334.0	2063.0	527.0	236.0	129.0	76.0	44.0	815.9
1953-54	33.0	89.0	338.0	1829.0	3154.0	2614.0	1100.0	405.0	213.0	125.0	75.0	48.0	835.2
1954-55	35.0	69.0	289.0	1504.0	3164.0	2944.0	1768.0	692.0	283.0	167.0	107.0	71.0	924.4
1955-56	46.0	77.0	297.0	2129.0	2786.0	2588.0	1331.0	570.0	262.0	148.0	92.0	61.0	865.5
1956-57	40.0	41.0	64.0	791.0	2171.0	1995.0	835.0	312.0	148.0	91.0	59.0	36.0	548.5
1957-58	28.2	50.7	199.0	1346.0	2674.0	3015.0	1739.0	474.0	228.0	146.0	75.0	38.8	834.4
1958-59	26.3	38.6	285.0	1494.0	2933.0	2474.0	1129.0	471.0	229.0	156.0	93.0	47.6	781.3
1959-60	13.3	31.8	49.1	863.0	2550.0	2553.0	883.0	264.0	138.0	78.2	42.6	24.4	624.1
1960-61	29.0	27.0	269.0	1074.0	1931.0	2441.0	874.0	294.0	135.0	82.1	46.4	25.3	602.3
1961-62	19.0	25.1	173.0	1391.0	2963.0	2179.0	630.0	205.0	105.0	61.0	37.3	22.5	650.9
1962-63	24.1	37.7	109.0	651.0	2177.0	2301.0	935.0	339.0	162.0	90.0	51.0	28.0	575.4
1963-64	27.0	28.0	91.0	601.0	1850.0	1996.0	1120.0	303.0	147.0	79.0	46.0	29.0	526.4
1964-65	35.0	55.0	189.0	1494.0	3202.0	3198.0	1189.0	386.0	243.0	150.0	91.0	54.0	857.1
1965-66	34.0	68.0	293.0	1051.0	1962.0	2206.0	879.0	277.0	141.0	82.0	49.0	34.0	589.6
1966-67	22.0	24.0	41.0	416.0	1916.0	2566.0	1214.0	310.0	146.0	89.0	54.0	33.0	569.2
1967-68	24.0	24.0	85.0	215.0	2985.0	2630.0	1223.0	320.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	20.0	20.0	-1.0	200.0	888.0	1724.0	1391.0	630.0	249.0	130.0	60.0	34.0	-1.0
1969-70	13.6	30.0	257.0	1082.0	2138.0	1672.0	930.0	287.0	130.0	71.0	35.0	19.0	555.3
1970-71	14.8	29.8	89.0	854.0	2417.0	2110.0	527.0	173.0	81.0	47.0	29.0	17.0	532.3
1971-72	11.5	14.4	136.0	642.0	1801.0	1232.0	294.0	120.0	64.0	34.0	17.4	11.0	364.7
1972-73	11.1	54.5	88.0	307.0	717.0	504.0	190.0	77.0	35.0	18.0	8.0	4.0	167.8
1973-74	4.0	12.0	132.0	501.0	809.0	336.0	109.0	45.0	18.0	8.0	3.0	2.0	164.9
AVG/MOYEN	26.6	39.9	164.2	1050.2	2329.0	2298.0	1100.1	374.7	160.5	94.7	57.7	34.7	644.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DOUNA
RIVER/COURS D EAU..... BANI
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 101600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1922-23	----	----	----	----	3310.0	32.6	28.0
1923-24	481.5	15187.2	149.	4.74	2000.0	19.7	33.0
1924-25	952.1	30027.5	296.	9.37	3840.0	37.8	17.0
1925-26	793.9	25036.9	246.	7.81	2770.0	27.3	37.0
1926-27	403.9	12737.9	125.	3.98	1540.0	15.2	37.0
1927-28	809.5	25528.3	251.	7.97	2990.0	29.4	37.0
1928-29	839.4	26471.8	261.	8.26	3065.0	30.2	25.0
1929-30	----	----	----	----	-1.0	-1.0	21.0
1930-31	----	----	----	----	2955.0	29.1	15.0
1931-32	663.3	20918.8	206.	6.53	3410.0	33.6	12.0
1932-33	----	----	----	----	-1.0	-1.0	15.0
1933-34	----	----	----	----	-1.0	-1.0	
1934-35	----	----	----	----	-1.0	-1.0	
1935-36	----	----	----	----	-1.0	-1.0	
1936-37	----	----	----	----	2970.0	29.2	
1949-50	----	----	----	----	-1.0	-1.0	
1950-51	686.9	21662.6	213.	6.76	2778.0	27.3	10.0
1951-52	822.7	25946.2	255.	8.10	2982.0	29.4	20.0
1952-53	815.9	25730.7	253.	8.03	3433.0	33.8	28.0
1953-54	835.2	26340.4	259.	8.22	3270.0	32.2	29.0
1954-55	924.4	29152.4	287.	9.10	3439.0	33.8	36.0
1955-56	865.5	27297.0	269.	8.52	2886.0	28.4	31.0
1956-57	548.5	17300.1	170.	5.40	2460.0	24.2	25.0
1957-58	834.4	26316.0	259.	8.21	3070.0	30.2	24.0
1958-59	781.3	24641.4	243.	7.69	2965.0	29.2	24.0
1959-60	624.1	19684.7	194.	6.14	2630.0	25.9	21.0
1960-61	602.3	18994.6	187.	5.93	3225.0	31.7	17.0
1961-62	650.9	20527.0	202.	6.41	2572.0	25.3	19.0
1962-63	575.4	18145.8	179.	5.66	2075.0	20.4	19.0
1963-64	526.4	16601.0	163.	5.18	3549.0	34.9	
1964-65	857.1	27031.6	266.	8.44	2410.0	23.7	
1965-66	589.6	18595.7	183.	5.80	2773.0	27.3	
1966-67	569.2	17951.8	177.	5.60	3243.0	31.9	
1967-68	----	----	----	----	3230.0	31.8	17.0
1968-69	----	----	----	----	2344.0	23.1	8.0
1969-70	555.3	17514.5	172.	5.47	2804.0	27.6	10.0
1970-71	532.3	16789.2	165.	5.24	1981.0	19.5	8.0
1971-72	364.7	11503.5	113.	3.59	864.0	8.5	8.0
1972-73	167.8	5291.7	52.	1.65	-1.0	-1.0	
1973-74	164.9	5200.8	51.	1.62	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... GARBE-KOUROU
RIVER/COURS D EAU..... SIRBA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 38750.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	0.0	0.5	15.7	50.0	136.0	118.0	30.0	4.3	0.0	0.0	0.0	0.0	29.5
1957-58	0.0	9.3	3.2	12.5	17.3	15.5	3.4	0.0	0.0	0.0	0.0	0.0	5.0
1958-59	0.0	1.8	14.0	51.0	301.0	98.0	26.0	10.4	0.0	0.0	0.0	0.0	41.8
1962-63	25.2	78.0	240.0	94.2	12.8	2.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	0.0	0.4	6.2	14.3	34.0	17.9	1.6	0.2	0.1	0.0	0.0	0.0	6.2
1964-65	0.0	0.2	10.6	62.8	225.0	124.0	11.0	0.6	0.0	0.0	0.0	0.0	36.1
1965-66	-1.0	-1.0	17.4	55.3	295.0	141.0	10.6	1.0	0.0	0.0	0.0	0.0	-1.0
1966-67	0.0	7.8	10.1	12.5	23.2	28.8	6.2	0.1	0.0	0.0	0.0	0.0	7.3
1967-68	0.0	1.6	22.5	12.9	30.4	91.7	9.0	1.1	0.1	0.0	0.0	0.0	14.1
1968-69	0.0	0.0	3.4	6.6	10.0	11.8	2.3	0.0	0.0	0.0	0.0	0.0	2.8
1969-70	0.0	0.3	7.4	37.3	11.0	55.7	6.5	0.2	0.0	0.0	0.0	0.0	9.8
1970-71	0.1	0.9	13.6	28.6	54.7	27.1	4.9	0.0	0.0	0.0	0.0	0.0	10.8
1971-72	0.0	2.9	13.2	47.0	63.9	37.0	3.7	0.3	0.0	0.0	0.0	0.0	13.9
1972-73	0.0	0.0	10.1	23.1	28.0	17.3	1.0	0.0	0.0	0.0	0.0	0.0	6.6
1973-74	0.0	6.0	37.5	139.5	78.3	17.0	1.3	0.0	0.0	0.0	0.0	0.0	23.3
1974-75	0.0	0.0	104.0	135.0	134.0	21.6	2.3	0.2	0.0	0.0	0.0	0.0	33.0
1975-76	0.1	1.6	42.9	158.0	109.0	28.2	2.1	0.1	0.0	0.0	0.0	0.0	28.4
AVG/MOYEN	1.5	6.9	33.6	55.3	91.9	50.1	7.6	1.1	0.0	0.0	0.0	0.0	20.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GARBE-KOUROU
RIVER/COURS D EAU..... SIRBA
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 38750.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	29.5	931.6	24.	0.76	178.0	4.6	0.0
1957-58	5.0	160.8	4.	0.13	20.0	0.5	0.0
1958-59	41.8	1319.7	34.	1.08	491.0	12.7	0.0
1962-63	----	----	----	----	324.0	8.4	0.0
1963-64	6.2	196.3	5.	0.16	39.3	1.0	0.0
1964-65	36.1	1141.0	29.	0.93	369.0	9.5	0.0
1965-66	----	----	----	----	469.0	12.1	0.0
1966-67	7.3	233.1	6.	0.19	46.0	1.2	0.0
1967-68	14.1	444.9	11.	0.36	430.0	11.1	0.0
1968-69	2.8	89.6	2.	0.07	24.0	0.6	0.0
1969-70	9.8	311.1	8.	0.25	133.0	3.4	0.0
1970-71	10.8	341.3	9.	0.28	65.0	1.7	0.0
1971-72	13.9	441.5	11.	0.36	77.8	2.0	0.0
1972-73	6.6	208.9	5.	0.17	39.0	1.0	0.0
1973-74	23.3	734.7	19.	0.60	180.0	4.6	0.0
1974-75	33.0	1043.5	27.	0.85	344.0	8.9	0.0
1975-76	28.4	898.7	23.	0.74	346.0	8.9	0.0

GAUGING STATION/STATION DE JAUGEAGE.... GAYA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1000000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1952-53	-1.0	-1.0	160.0	446.0	1475.0	1958.0	1579.0	1674.0	1941.0	2167.0	2138.0	1549.0	-1.0
1953-54	678.0	332.0	293.0	1032.0	1934.0	1831.0	1636.0	1760.0	2041.0	2285.0	2188.0	1560.0	1464.1
1954-55	674.0	314.0	308.0	1020.0	1789.0	1551.0	1502.0	1679.0	2014.0	2315.0	2334.0	1969.0	1455.7
1955-56	1100.0	460.0	411.0	1357.0	1923.0	2186.0	1687.0	1780.0	2114.0	2423.0	2325.0	1762.0	1627.3
1956-57	789.0	312.0	199.0	685.0	1434.0	1530.0	1406.0	1569.0	1770.0	1863.0	1505.0	735.0	1149.7
1957-58	268.0	142.0	105.0	933.0	1837.0	1598.0	1456.0	1584.0	1867.0	2144.0	2197.0	1770.0	1325.0
1958-59	880.0	346.0	340.0	902.0	1477.0	1429.0	1378.0	1553.0	1872.0	2005.0	1954.0	1330.0	1288.8
1959-60	540.0	159.0	115.0	791.0	2259.0	1706.0	1390.0	1594.0	1813.0	1982.0	1632.0	766.0	1228.9
1960-61	246.0	78.0	140.0	652.0	1543.0	1689.0	1398.0	1595.0	1863.0	2030.0	1750.0	964.0	1162.3
1961-62	351.0	145.0	130.0	594.0	1644.0	1455.0	1333.0	1528.0	1726.0	1770.0	1242.0	476.0	1032.8
1962-63	154.0	73.0	206.0	918.0	2423.0	1753.0	1446.0	1593.0	1822.0	2107.0	1965.0	1246.0	1308.8
1963-64	507.0	195.0	144.0	536.0	1252.0	1341.0	1283.0	1413.0	1681.0	1870.0	1681.0	784.0	1057.2
1964-65	329.0	258.0	280.0	920.0	1945.0	1631.0	1314.0	1586.0	1896.0	2169.0	2001.0	1350.0	1306.5
1965-66	500.0	350.0	300.0	800.0	1590.0	1539.0	1492.0	1538.0	1896.0	2169.0	2001.0	825.0	1250.0
1966-67	300.0	250.0	100.0	280.0	1045.0	1370.0	1336.0	1539.0	1900.0	2091.0	1611.0	665.0	1040.5
1967-68	205.0	65.0	80.0	600.0	1950.0	1750.0	1545.0	1829.0	2297.0	2622.0	2480.0	1379.0	1400.1
1968-69	550.0	220.0	300.0	920.0	1382.0	1432.0	1397.0	1691.0	1931.0	1883.0	1153.0	450.0	1109.0
1969-70	203.0	106.0	53.0	581.0	1222.0	1467.0	1648.0	1904.0	2236.0	2285.0	1844.0	847.0	1199.6
1970-71	225.0	79.0	120.0	585.0	1471.0	1522.0	1398.0	1605.0	1848.0	1620.0	738.0	252.0	955.2
1971-72	90.0	53.0	207.0	421.0	1248.0	1250.0	1346.0	1664.0	1847.0	1499.0	610.0	191.0	868.8
1972-73	65.0	55.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	-1.0	-1.0	204.0	321.0	920.0	1111.0	1214.0	1300.0	1089.0	523.0	186.0	60.0	-1.0
1974-75	26.0	20.0	174.0	527.0	1282.0	1319.0	1379.0	1606.0	1701.0	1450.0	546.0	138.0	847.3
1975-76	35.8	15.0	166.0	564.0	1301.0	1274.0	1464.0	1631.0	1907.0	1778.0	883.0	251.0	939.1
1976-77	70.0	57.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	381.9	177.5	197.1	712.3	1580.2	1551.8	1435.9	1618.0	1872.6	1958.6	1607.1	926.9	1168.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GAYA
RIVER/COURS D EAU..... NIGER
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1000000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	----	----	----	----	-1.0	-1.0	134.0
1952-53	----	----	----	----	2218.0	2.2	170.0
1953-54	1464.1	46173.9	46.	1.46	2330.0	2.3	215.0
1954-55	1455.7	45908.5	46.	1.46	2360.0	2.4	263.0
1955-56	1627.3	51319.5	51.	1.63	2684.0	2.7	143.0
1956-57	1149.7	36258.5	36.	1.15	1907.0	1.9	56.0
1957-58	1325.0	41787.8	42.	1.33	2260.0	2.3	236.0
1958-59	1288.8	40644.6	41.	1.29	2060.0	2.1	56.0
1959-60	1228.9	38755.1	39.	1.23	2828.0	2.8	56.0
1960-61	1162.3	36655.3	37.	1.16	2060.0	2.1	
1961-62	1032.8	32571.4	33.	1.03	1916.0	1.9	53.0
1962-63	1308.8	41275.3	41.	1.31	2780.0	2.8	114.0
1963-64	1057.2	33341.4	33.	1.06	1918.0	1.9	245.0
1964-65	1306.5	41204.4	41.	1.31	2260.0	2.3	
1965-66	1250.0	39420.0	39.	1.25	1929.0	1.9	
1966-67	1040.5	32815.8	33.	1.04	2099.0	2.1	
1967-68	1400.1	44155.6	44.	1.40	2691.0	2.7	
1968-69	1109.0	34976.0	35.	1.11	2012.0	2.0	86.0
1969-70	1199.6	37832.6	38.	1.20	2810.0	2.8	100.0
1970-71	955.2	30124.7	30.	0.96	1896.0	1.9	42.0
1971-72	868.8	27399.5	27.	0.87	1918.0	1.9	48.0
1972-73	----	----	----	----	-1.0	-1.0	
1973-74	----	----	----	----	1320.0	1.3	10.0
1974-75	847.3	26721.5	27.	0.85	1800.0	1.8	6.0
1975-76	939.1	29617.0	30.	0.94	1987.0	2.0	36.0
1976-77	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... GOUNDAM
RIVER/COURS D EAU..... M.GOUNDAM
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 25547.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1931-32	-1.0	-1.0	1.0	9.9	36.0	58.0	75.0	-1.0	-1.0	-1.0	-1.0	2.1	-1.0
1932-33	0.1	0.1	1.0	4.6	21.0	35.0	55.0	130.0	202.0	120.0	47.0	8.0	51.9
1933-34	0.3	0.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1934-35	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	59.0	33.0	6.6	0.3	-1.0
1935-36	0.0	0.0	0.2	0.2	3.0	11.5	21.0	64.0	87.0	46.0	10.4	0.5	20.3
1936-37	0.0	0.0	0.0	2.7	8.0	22.0	39.0	96.0	161.0	109.0	37.0	3.8	39.8
1937-38	0.1	0.0	0.0	0.2	4.7	21.0	33.0	53.0	59.0	30.0	3.6	0.1	17.0
1938-39	0.0	0.0	0.0	0.1	4.6	17.9	27.0	55.0	80.0	47.0	14.8	0.7	20.5
1939-40	0.0	0.0	0.0	0.0	0.7	6.7	16.1	33.0	62.0	50.0	10.9	0.2	14.9
1940-41	0.0	0.0	0.0	0.0	0.1	4.1	13.9	22.0	-1.0	-1.0	-1.0	-1.0	-1.0
1941-42	-1.0	-1.0	0.0	0.0	2.0	9.6	16.9	31.0	32.0	11.6	1.0	0.0	-1.0
1942-43	0.0	0.0	0.0	2.0	6.8	16.6	29.0	39.0	30.0	7.1	0.1	0.0	10.8
1943-44	0.0	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945-46	-1.0	-1.0	0.0	0.0	4.1	12.8	22.0	44.0	70.0	32.0	5.8	0.0	-1.0
1946-47	0.0	0.0	-1.0	-1.0	-1.0	23.0	36.0	-1.0	-1.0	74.0	25.0	1.4	-1.0
1947-48	0.1	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	-1.0	-1.0	0.0	0.0	10.5	27.0	43.0	113.0	265.0	254.0	121.0	57.0	-1.0
1952-53	19.0	0.4	0.1	1.7	28.0	50.0	65.0	154.0	271.0	200.0	81.0	39.0	75.7
1953-54	2.7	0.2	0.0	11.2	45.0	62.0	85.0	224.0	294.0	181.0	69.0	29.0	83.5
1954-55	10.4	3.4	0.5	18.7	44.0	59.0	88.0	239.0	342.0	280.0	145.0	54.0	107.0
1955-56	21.0	6.4	3.6	7.1	45.0	76.0	115.0	250.0	310.0	231.0	132.0	79.0	106.3
1956-57	46.0	20.0	9.4	5.0	23.0	37.0	55.0	87.0	104.0	60.0	41.0	17.9	42.1
1957-58	1.4	0.0	0.0	0.1	4.2	21.0	45.0	160.0	279.0	230.0	95.0	19.0	71.2
1958-59	0.5	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	0.0	5.1	34.7	59.9	70.0	86.2	22.8	39.0	5.5	0.0	-1.0
1969-70	0.0	0.0	5.4	16.3	49.0	76.0	104.0	208.0	282.0	161.0	58.0	20.1	81.6
1970-71	6.2	0.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	5.1	1.4	1.0	4.2	18.7	33.6	50.1	109.9	158.5	109.7	45.4	15.8	46.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GOUNDAM
RIVER/COURS D EAU..... M.GOUNDAM
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 25547.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1931-32	----	----	----	----	-1.0	-1.0	
1932-33	51.9	1639.3	64.	2.03	216.0	8.5	
1933-34	----	----	----	----	-1.0	-1.0	
1934-35	----	----	----	----	62.0	2.4	
1935-36	20.3	640.7	25.	0.80	94.0	3.7	
1936-37	39.8	1257.4	49.	1.56	170.0	6.7	
1937-38	17.0	537.9	21.	0.67	-1.0	-1.0	
1938-39	20.5	649.3	25.	0.81	87.0	3.4	
1939-40	14.9	471.9	18.	0.59	74.0	2.9	
1940-41	----	----	----	----	-1.0	-1.0	
1941-42	----	----	----	----	39.0	1.5	
1942-43	10.8	343.2	13.	0.43	41.0	1.6	
1943-44	----	----	----	----	-1.0	-1.0	
1945-46	----	----	----	----	77.0	3.0	
1946-47	----	----	----	----	-1.0	-1.0	
1947-48	----	----	----	----	-1.0	-1.0	
1951-52	----	----	----	----	313.0	12.3	
1952-53	75.7	2389.3	94.	2.97	299.0	11.7	
1953-54	83.5	2636.1	103.	3.27	305.0	11.9	
1954-55	107.0	3374.3	132.	4.19	359.0	14.1	
1955-56	106.3	3353.5	131.	4.16	320.0	12.5	
1956-57	42.1	1327.9	52.	1.65	114.0	4.5	
1957-58	71.2	2246.1	88.	2.79	306.0	12.0	
1958-59	----	----	----	----	-1.0	-1.0	
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	81.6	2574.9	101.	3.20	322.0	12.6	
1970-71	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... GUINGUERINI
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1042.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	5.0	3.2	2.8	1.5	-1.0
1955-56	0.9	10.8	31.1	59.2	50.8	19.8	15.0	6.1	3.4	2.2	1.3	0.2	16.7
1956-57	0.0	0.6	2.6	15.0	45.2	27.4	6.6	2.9	1.3	0.7	0.1	0.1	8.5
1957-58	0.4	2.9	15.9	47.0	72.0	37.2	15.1	6.2	6.1	2.6	0.8	0.4	17.2
1958-59	1.0	3.6	6.5	19.0	31.3	27.1	6.9	3.5	1.4	0.4	0.1	0.0	8.3
1959-60	0.1	2.1	10.7	27.8	65.4	16.6	5.0	1.7	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	0.1	0.9	27.4	20.8	65.9	25.9	6.6	2.1	0.5	0.1	0.0	0.0	12.5
1961-62	0.0	0.0	4.3	34.8	49.9	18.0	5.2	1.5	0.3	0.1	0.0	0.0	9.5
1962-63	0.0	0.0	2.7	21.4	72.0	32.8	13.0	5.4	1.7	0.8	0.1	0.0	12.4
1963-64	0.1	0.5	11.4	33.6	53.0	52.4	17.3	4.1	1.3	0.3	0.0	0.0	14.4
1964-65	0.0	0.2	3.2	76.4	71.1	25.9	8.1	4.2	2.7	1.1	0.1	0.0	16.0
1965-66	0.0	0.4	28.6	52.1	101.0	53.7	14.0	4.4	1.1	0.2	0.4	0.6	21.3
1966-67	1.5	1.0	2.5	43.7	71.0	106.0	52.4	4.1	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1.0	0.8	0.7	-1.0
1968-69	0.5	0.5	1.0	-1.0	-1.0	27.0	4.6	4.1	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970-71	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.3	1.8	11.3	37.5	62.3	36.1	13.0	3.8	2.2	1.0	0.5	0.2	14.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GUINGUERINI
RIVER/COURS D EAU..... BAGOE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1042.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	----	----	----	----	-1.0	-1.0	
1955-56	16.7	527.7	506.	16.06	92.0	88.3	
1956-57	8.5	269.3	259.	8.20	67.0	64.3	
1957-58	17.2	542.9	521.	16.52	100.0	96.0	
1958-59	8.3	264.9	254.	8.06	67.0	64.3	
1959-60	----	----	----	----	125.0	120.0	
1960-61	12.5	394.9	379.	12.02	185.0	177.5	0.0
1961-62	9.5	299.8	288.	9.13	120.0	115.2	0.0
1962-63	12.4	393.9	378.	11.99	190.0	182.3	0.0
1963-64	14.4	457.2	439.	13.92	103.0	98.8	0.0
1964-65	16.0	507.2	487.	15.44	-1.0	-1.0	0.0
1965-66	21.3	674.0	647.	20.51	150.0	144.0	0.0
1966-67	----	----	----	----	137.0	131.5	
1967-68	----	----	----	----	-1.0	-1.0	0.0
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	----	----	----	----	-1.0	-1.0	
1970-71	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... IRADOUGOU
RIVER/COURS D EAU..... KOUROU-KELLE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1990.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	7.4	4.4	2.1	0.8	-1.0
1963-64	0.8	2.3	7.1	76.8	105.4	81.7	33.9	14.2	6.1	2.9	0.8	0.4	27.6
1964-65	0.5	2.2	6.3	91.9	103.9	52.3	20.2	13.9	9.4	4.4	2.0	0.8	25.6
1965-66	0.9	5.1	38.8	48.6	84.1	56.5	20.8	8.7	4.1	1.3	0.7	0.6	22.5
1966-67	0.5	0.5	2.6	36.1	68.7	68.5	23.9	10.5	5.1	2.5	0.8	0.3	18.3
1967-68	0.5	0.7	9.7	75.9	112.0	88.3	26.5	11.2	5.8	3.3	1.5	0.8	28.0
1968-69	0.7	3.9	8.1	49.7	109.9	69.9	30.2	14.1	6.9	3.8	1.9	0.8	24.9
1969-70	0.4	1.7	21.4	96.9	90.7	70.7	38.4	12.4	5.6	2.4	0.8	0.4	28.4
1970-71	0.4	2.0	5.9	34.6	105.0	40.4	12.4	23.6	2.0	0.8	0.3	0.2	18.9
1971-72	0.1	0.3	2.5	37.1	109.0	68.5	15.2	8.1	3.3	1.2	0.6	1.2	20.5
1972-73	4.2	14.3	13.6	44.4	50.9	22.4	9.8	5.3	1.6	0.7	0.2	-1.0	-1.0
1973-74	-1.0	-1.0	3.4	47.8	72.0	20.3	11.7	3.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.8	3.2	10.8	58.1	91.9	58.1	22.0	11.3	5.2	2.5	1.0	0.6	22.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... IRADOUGOU
RIVER/COURS D EAU..... KOUROU-KELLE
COUNTRY/PAYS..... C.I
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1990.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	----	----	----	----	129.0	64.8	
1963-64	27.6	873.5	439.	13.92	133.0	66.8	
1964-65	25.6	808.8	406.	12.89	113.0	56.8	
1965-66	22.5	710.0	357.	11.31	97.0	48.7	
1966-67	18.3	578.1	291.	9.21	98.0	49.2	
1967-68	28.0	883.5	444.	14.08	126.0	63.3	
1968-69	24.9	788.1	396.	12.56	137.0	68.8	2.5
1969-70	28.4	898.2	451.	14.31	117.0	58.8	
1970-71	18.9	598.1	301.	9.53	120.0	60.3	0.1
1971-72	20.5	649.3	326.	10.35	117.0	58.8	0.3
1972-73	----	----	----	----	62.2	31.3	
1973-74	----	----	----	----	88.7	44.6	

GAUGING STATION/STATION DE JAUGEAGE.... KAKASSI
RIVER/COURS D EAU..... DARGOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6940.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1957-58	0.0	0.2	2.0	10.7	16.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.4
1958-59	0.0	0.0	0.0	36.0	28.6	1.6	0.3	0.0	0.0	0.0	0.0	0.0	5.5
1959-60	0.0	0.0	5.7	31.6	29.8	1.3	0.3	0.0	0.0	0.0	0.0	0.0	5.7
1960-61	0.0	0.0	2.8	4.3	14.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	0.0	0.0	7.2	20.8	28.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7
1963-64	0.0	1.4	8.7	30.5	15.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.7
1964-65	0.0	4.0	21.0	46.5	78.4	1.9	0.1	0.0	0.0	0.0	0.0	0.0	12.6
1965-66	0.0	0.3	4.8	11.9	46.6	2.9	0.2	0.0	0.0	0.0	0.0	0.0	5.5
1966-67	0.0	0.3	0.1	5.0	14.8	4.5	0.1	0.0	0.0	0.0	0.0	0.0	2.0
1967-68	0.0	0.2	2.6	13.2	53.4	22.0	0.2	0.0	0.0	0.0	0.0	0.0	7.6
1968-69	0.0	0.0	1.6	5.5	4.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9
1969-70	0.0	0.1	1.5	28.6	13.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	3.9
1970-71	0.0	0.6	3.0	30.6	9.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	4.1
1971-72	0.0	0.4	18.0	26.0	9.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	4.5
1972-73	0.1	3.1	12.9	9.7	14.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.4
1973-74	0.0	0.0	10.6	38.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.2
1974-75	0.0	0.2	24.4	35.3	14.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	6.3
1975-76	0.0	1.1	13.5	18.9	23.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	5.1
AVG/MOYEN	0.0	0.6	7.7	22.3	23.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	4.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KAKASSI
RIVER/COURS D EAU..... DARGOL
COUNTRY/PAYS..... NIGER
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6940.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1957-58	2.4	78.3	11.	0.36	33.0	4.8	0.0
1958-59	5.5	174.7	25.	0.80	111.0	16.0	0.0
1959-60	5.7	180.5	26.	0.82	76.0	11.0	0.0
1960-61	2.0	64.6	9.	0.30	22.0	3.2	0.0
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	4.7	150.3	22.	0.69	28.1	4.0	0.0
1963-64	4.7	148.4	21.	0.68	46.3	6.7	0.0
1964-65	12.6	399.1	58.	1.82	140.2	20.2	
1965-66	5.5	175.2	25.	0.80	107.2	15.4	0.0
1966-67	2.0	65.1	9.	0.30	26.0	3.7	0.0
1967-68	7.6	240.7	35.	1.10	115.0	16.6	0.0
1968-69	0.9	30.7	4.	0.14	9.2	1.3	0.0
1969-70	3.9	125.8	18.	0.58	56.0	8.1	0.0
1970-71	4.1	132.4	19.	0.61	79.9	11.5	0.0
1971-72	4.5	143.7	21.	0.66	48.0	6.9	0.0
1972-73	3.4	107.4	15.	0.49	27.7	4.0	0.0
1973-74	4.2	135.0	19.	0.62	54.3	7.8	0.0
1974-75	6.3	201.0	29.	0.92	76.9	11.1	0.0
1975-76	5.1	163.7	24.	0.75	47.9	6.9	0.0

GAUGING STATION/STATION DE JAUGEAGE.... KANDI-BANIKO
RIVER/COURS D EAU..... ALIBORI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 8150.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	-1.0	-1.0	3.1	22.0	105.0	87.0	4.9	1.0	0.0	0.0	0.0	0.0	-1.0
1953-54	14.6	21.2	83.0	125.0	281.0	73.0	6.4	1.1	0.0	0.0	0.0	0.0	50.4
1954-55	37.2	7.7	10.4	87.0	216.0	60.0	5.0	1.0	0.7	0.0	0.0	0.0	35.4
1955-56	1.0	1.6	68.0	316.0	266.0	176.0	11.0	1.1	0.2	0.3	0.0	0.0	70.0
1956-57	0.0	6.4	29.0	127.0	187.0	98.0	4.8	0.8	0.5	0.2	0.0	0.0	37.8
1957-58	8.1	24.5	30.1	276.0	407.0	119.0	11.9	2.5	0.7	0.3	0.0	0.0	73.3
1958-59	1.9	1.7	2.1	7.1	39.6	15.6	0.9	0.4	0.9	0.5	0.3	0.4	5.9
1959-60	3.0	7.0	21.0	57.0	320.0	77.0	3.3	0.6	0.2	0.0	0.0	0.0	40.7
1960-61	1.0	8.5	28.2	106.0	296.0	134.0	12.2	0.9	0.4	0.2	0.0	0.0	48.9
1961-62	0.0	1.9	24.0	52.0	201.0	24.8	3.1	0.7	0.0	0.0	0.0	0.0	25.6
1962-63	3.3	9.3	67.0	285.0	405.0	83.0	5.7	2.2	0.0	0.0	0.0	0.0	71.7
1963-64	0.0	3.7	21.6	157.0	178.0	67.0	7.3	2.5	0.7	0.1	0.0	0.0	36.4
1964-65	0.0	1.6	7.3	126.0	160.0	18.1	3.3	1.0	0.7	0.0	0.0	0.0	26.4
1965-66	3.9	3.3	20.8	107.0	189.0	24.8	3.2	1.2	0.0	0.0	0.0	0.0	29.4
1966-67	0.0	2.9	8.3	32.3	180.0	92.0	5.8	1.7	0.0	0.0	0.0	0.0	26.9
1967-68	3.0	1.3	13.9	119.0	301.0	118.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	0.0	1.1	13.4	186.0	232.0	93.0	29.8	3.8	1.1	0.0	0.0	0.0	46.6
1971-72	1.9	3.3	17.3	46.3	104.0	18.7	0.9	0.0	0.0	0.0	0.0	0.0	16.0
AVG/MOYEN	4.6	6.2	26.0	124.0	225.9	76.6	7.0	1.3	0.3	0.0	0.0	0.0	39.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KANDI-BANIKO
RIVER/COURS D EAU..... ALIBORI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 8150.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	----	----	----	----	229.0	28.1	0.0
1953-54	50.4	1590.7	195.	6.19	553.0	67.9	0.0
1954-55	35.4	1116.9	137.	4.35	384.0	47.1	0.0
1955-56	70.0	2210.6	271.	8.60	424.0	52.0	0.0
1956-57	37.8	1192.3	146.	4.64	286.0	35.1	0.0
1957-58	73.3	2312.9	284.	9.00	519.0	63.7	0.0
1958-59	5.9	187.6	23.	0.73	146.0	17.9	0.2
1959-60	40.7	1285.3	158.	5.00	485.0	59.5	0.0
1960-61	48.9	1543.6	189.	6.01	420.0	51.5	0.0
1961-62	25.6	808.1	99.	3.14	434.0	53.3	0.0
1962-63	71.7	2261.3	277.	8.80	635.0	77.9	0.0
1963-64	36.4	1150.8	141.	4.48	271.0	33.3	0.0
1964-65	26.4	835.7	103.	3.25	298.0	36.6	0.0
1965-66	29.4	926.2	114.	3.61	331.0	40.6	0.0
1966-67	26.9	848.8	104.	3.30	363.0	44.5	0.0
1967-68	----	----	----	----	431.0	52.9	
1969-70	46.6	1472.2	181.	5.73	489.0	60.0	0.0
1971-72	16.0	505.6	62.	1.97	153.0	18.8	0.0

GAUGING STATION/STATION DE JAUGEAGE.... KANKAN
RIVER/COURS D EAU..... MILO
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9900.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1938-39	40.0	76.0	187.0	461.0	725.0	528.0	199.0	78.0	44.0	46.0	10.0	8.0	200.1
1939-40	76.0	120.0	182.0	373.0	858.0	595.0	222.0	139.0	-1.0	-1.0	-1.0	-1.0	-1.0
1940-41	-1.0	92.0	278.0	484.0	470.0	460.0	193.0	97.0	-1.0	-1.0	-1.0	-1.0	-1.0
1941-42	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942-43	79.0	95.0	255.0	415.0	590.0	315.0	236.0	184.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943-44	-1.0	-1.0	229.0	500.0	611.0	514.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944-45	-1.0	63.0	156.0	512.0	866.0	359.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946-47	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	46.0	22.0	19.0	8.0	-1.0
1947-48	18.0	108.0	294.0	447.0	774.0	383.0	124.0	60.0	35.0	15.0	9.0	12.0	189.9
1948-49	32.0	127.0	401.0	562.0	611.0	262.0	185.0	7.5	40.0	24.0	26.0	37.0	192.8
1949-50	34.0	38.0	229.0	596.0	798.0	342.0	161.0	70.0	52.0	36.0	20.0	13.0	199.0
1950-51	30.0	49.0	205.0	274.0	530.0	542.0	203.0	78.0	50.0	36.0	33.0	34.0	172.0
1951-52	81.0	148.0	396.0	603.0	632.0	688.0	529.0	152.0	77.0	46.0	36.0	30.0	284.8
1952-53	37.0	74.0	241.0	598.0	663.0	571.0	219.0	94.0	65.0	30.0	29.0	19.0	220.0
1953-54	27.0	170.0	343.0	580.0	672.0	458.0	198.0	105.0	61.0	42.0	35.0	50.0	228.4
1954-55	61.0	154.0	401.0	584.0	656.0	608.0	374.0	150.0	80.0	44.0	49.0	46.0	267.2
1955-56	70.0	203.0	407.0	590.0	756.0	636.0	236.0	125.0	68.0	46.0	44.0	47.0	269.0
1956-57	39.0	65.0	165.0	307.0	496.0	360.0	138.0	76.0	39.0	21.0	19.0	15.0	145.0
1957-58	29.0	87.0	273.0	462.0	709.0	629.0	241.0	104.0	56.0	36.0	17.0	39.0	223.5
1958-59	98.0	269.0	283.0	189.0	570.0	506.0	215.0	133.0	57.0	30.0	17.0	13.0	198.3
1959-60	32.0	73.0	343.0	321.0	815.0	324.0	188.0	74.0	34.0	16.0	10.0	19.0	187.4
1960-61	51.0	121.0	264.0	719.0	866.0	490.0	217.0	91.0	45.0	25.0	12.0	11.0	242.6
1961-62	34.0	50.0	180.0	360.0	472.0	293.0	123.0	54.0	28.0	14.0	12.0	25.0	137.0
1962-63	43.0	71.0	250.0	446.0	782.0	553.0	264.0	111.0	53.0	45.0	32.0	30.0	223.3
1963-64	56.0	70.0	190.0	396.0	648.0	509.0	181.0	68.0	32.0	17.0	10.0	11.0	182.3
1964-65	16.0	102.0	164.0	495.0	499.0	448.0	166.0	121.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	10.0	9.0	10.0	-1.0
1967-68	25.0	42.0	247.0	507.0	764.0	769.0	214.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	45.8	102.7	262.5	471.2	673.3	485.6	218.5	98.7	50.6	30.0	22.4	23.8	207.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KANKAN
RIVER/COURS D EAU..... MILO
COUNTRY/PAYS..... GUINEE
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9900.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1938-39	200.1	6312.4	638.	20.22	1021.0	103.1	7.0
1939-40	----	----	----	----	1106.0	111.7	
1940-41	----	----	----	----	622.0	62.8	
1941-42	----	----	----	----	-1.0	-1.0	
1942-43	----	----	----	----	614.0	62.0	
1943-44	----	----	----	----	837.0	84.5	
1944-45	----	----	----	----	1106.0	111.7	
1946-47	----	----	----	----	-1.0	-1.0	8.0
1947-48	189.9	5989.2	605.	19.18	979.0	98.9	7.0
1948-49	192.8	6082.5	614.	19.48	748.0	75.6	12.0
1949-50	199.0	6278.2	634.	20.11	958.0	96.8	7.0
1950-51	172.0	5424.1	548.	17.37	650.0	65.7	26.0
1951-52	284.8	8982.5	907.	28.77	732.0	73.9	29.0
1952-53	220.0	6937.9	701.	22.22	760.0	76.8	10.0
1953-54	228.4	7203.3	728.	23.07	833.0	84.1	24.0
1954-55	267.2	8427.9	851.	26.99	748.0	75.6	30.0
1955-56	269.0	8483.1	857.	27.17	1021.0	103.1	30.0
1956-57	145.0	4572.7	462.	14.65	624.0	63.0	10.0
1957-58	223.5	7048.2	712.	22.58	887.0	89.6	
1958-59	198.3	6254.6	632.	20.03	-1.0	-1.0	
1959-60	187.4	5910.3	597.	18.93	-1.0	-1.0	
1960-61	242.6	7652.7	773.	24.51	-1.0	-1.0	
1961-62	137.0	4323.0	437.	13.85	-1.0	-1.0	
1962-63	223.3	7043.0	711.	22.56	-1.0	-1.0	
1963-64	182.3	5750.0	581.	18.42	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1966-67	----	----	----	----	1210.0	122.2	
1967-68	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... KARA
RIVER/COURS D EAU..... DIAKA
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 143000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1939-40	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	138.0	64.0	19.0	5.0	-1.0
1940-41	1.0	13.0	199.0	795.0	1246.0	1331.0	803.0	243.0	107.0	54.0	17.0	4.0	401.0
1941-42	0.0	34.0	223.0	637.0	1543.0	1407.0	725.0	234.0	104.0	48.0	13.0	4.0	414.3
1942-43	14.0	60.0	166.0	661.0	1425.0	835.0	486.0	188.0	79.0	27.0	3.0	0.0	328.6
1943-44	0.0	24.0	159.0	554.0	1552.0	1558.0	913.0	240.0	83.0	25.0	4.0	0.0	426.0
1944-45	0.0	5.0	90.0	484.0	1412.0	1210.0	501.0	170.0	66.0	17.0	1.0	0.0	329.6
1945-46	0.0	7.0	71.0	798.0	1521.0	1575.0	768.0	199.0	72.0	21.0	2.0	0.0	419.5
1946-47	3.0	49.0	216.0	846.0	1615.0	1709.0	1139.0	317.0	122.0	55.0	14.0	1.0	507.1
1947-48	0.0	1.0	182.0	818.0	1497.0	1565.0	483.0	153.0	42.0	13.0	2.0	0.0	396.3
1948-49	0.0	29.0	429.0	1151.0	1732.0	1629.0	857.0	223.0	81.0	32.0	4.0	5.0	514.3
1949-50	0.0	26.0	86.0	909.0	1722.0	1446.0	529.0	206.0	95.0	20.0	0.0	0.0	419.9
1950-51	0.0	0.0	151.0	771.0	1621.0	1758.0	1079.0	254.0	99.0	34.0	0.0	0.0	480.5
1952-53	0.0	17.0	252.0	1006.0	1540.0	1667.0	1001.0	334.0	142.0	59.0	15.0	3.0	503.0
1953-54	1.0	87.0	657.0	1279.0	1666.0	1640.0	982.0	382.0	175.0	84.0	28.0	22.0	583.5
1954-55	12.0	139.0	529.0	1342.0	1661.0	1642.0	1277.0	687.0	233.0	121.0	50.0	35.0	644.0
1955-56	23.0	101.0	621.0	1242.0	1651.0	1686.0	1144.0	453.0	191.0	91.0	41.0	13.0	604.7
1956-57	4.0	12.0	208.0	650.0	1443.0	1551.0	707.0	233.0	100.0	22.0	3.0	0.0	411.0
1957-58	0.0	17.0	309.0	1154.0	1637.0	1696.0	1405.0	503.0	170.0	79.0	12.0	2.0	582.0
1958-59	10.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	-1.0	1006.0	1438.0	1427.0	618.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	0.0	8.3	380.0	1129.0	1616.0	1636.0	1478.0	446.0	123.0	23.0	6.8	0.2	570.5
1970-71	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	3.4	34.9	273.7	906.9	1554.6	1524.6	889.2	303.6	116.9	46.7	12.3	4.9	472.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KARA
RIVER/COURS D EAU..... DIAKA
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... NIGER
KM2 AREA OF WATER SHED/BASSIN VERSANT. 143000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1939-40	----	----	----	----	-1.0	-1.0	
1940-41	401.0	12648.5	88.	2.80	1371.0	9.6	0.0
1941-42	414.3	13066.4	91.	2.90	1691.0	11.8	0.0
1942-43	328.6	10364.8	72.	2.30	1603.0	11.2	0.0
1943-44	426.0	13434.3	94.	2.98	1685.0	11.8	0.0
1944-45	329.6	10396.3	73.	2.31	1636.0	11.4	0.0
1945-46	419.5	13229.3	93.	2.93	1691.0	11.8	0.0
1946-47	507.1	15994.0	112.	3.55	1720.0	12.0	0.0
1947-48	396.3	12498.7	87.	2.77	1731.0	12.1	0.0
1948-49	514.3	16220.0	113.	3.60	1766.0	12.3	0.0
1949-50	419.9	13242.4	93.	2.94	1748.0	12.2	0.0
1950-51	480.5	15155.6	106.	3.36	1766.0	12.3	0.0
1952-53	503.0	15862.6	111.	3.52	1680.0	11.7	0.0
1953-54	583.5	18403.8	129.	4.08	1685.0	11.8	0.0
1954-55	644.0	20309.1	142.	4.50	1691.0	11.8	2.0
1955-56	604.7	19071.3	133.	4.23	1708.0	11.9	7.0
1956-57	411.0	12963.9	91.	2.87	1663.0	11.6	0.0
1957-58	582.0	18353.9	128.	4.07	1697.0	11.9	0.0
1958-59	----	----	----	----	-1.0	-1.0	
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	570.5	17992.0	126.	3.99	1655.0	11.6	
1970-71	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... BAMBOI
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 134200.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1949-50	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	24.5	39.3	-1.0
1950-51	62.2	67.0	159.0	325.0	628.0	533.0	157.0	79.4	48.8	36.1	37.0	33.5	180.4
1951-52	89.3	66.8	230.0	392.0	1350.0	1630.0	1160.0	247.0	139.0	61.8	37.1	44.1	453.9
1952-53	58.2	43.3	159.0	310.0	1010.0	1670.0	520.0	175.0	144.0	92.5	67.3	41.7	357.5
1953-54	60.4	195.0	267.0	336.0	828.0	636.0	187.0	91.6	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	-1.0	-1.0	-1.0	228.0	946.0	948.0	341.0	164.0	120.0	77.6	65.5	30.2	-1.0
1955-56	60.9	123.0	305.0	574.0	1130.0	1620.0	455.0	138.0	98.0	57.0	45.2	44.2	387.5
1956-57	73.9	-1.0	144.0	152.0	569.0	706.0	157.0	-1.0	82.2	63.2	45.7	43.3	-1.0
1957-58	90.7	255.0	313.0	576.0	966.0	1300.0	465.0	200.0	151.0	110.0	55.2	55.7	378.1
1958-59	43.1	81.6	90.1	161.0	349.0	-1.0	-1.0	116.0	-1.0	48.7	42.4	35.0	-1.0
1959-60	61.2	-1.0	149.0	215.0	802.0	667.0	161.0	98.8	53.3	37.2	29.4	53.8	-1.0
1960-61	68.2	132.0	210.0	436.0	775.0	737.0	181.0	110.0	56.6	36.1	28.7	42.8	234.4
1961-62	62.3	138.0	128.0	191.0	491.0	363.0	108.0	83.2	73.6	55.7	41.9	60.3	149.6
1962-63	89.6	198.0	304.0	443.0	1020.0	1030.0	364.0	144.0	-1.0	21.1	14.1	15.7	-1.0
1963-64	50.9	47.7	414.0	1300.0	2320.0	1580.0	-1.0	160.0	92.1	44.3	39.3	33.9	-1.0
1964-65	40.4	135.0	133.0	240.0	1020.0	825.0	241.0	130.0	-1.0	-1.0	35.2	31.7	-1.0
1965-66	47.3	165.0	637.0	684.0	1020.0	847.0	231.0	124.0	58.4	27.5	18.3	20.8	323.3
1966-67	-1.0	97.0	124.0	330.0	582.0	-1.0	233.0	88.5	-1.0	20.9	8.7	10.4	-1.0
1967-68	22.7	30.1	79.6	165.0	512.0	504.0	151.0	70.8	29.3	16.4	11.9	22.7	134.6
1968-69	59.4	255.0	484.0	991.0	1940.0	1180.0	425.0	160.0	71.7	32.2	22.1	25.2	470.4
1969-70	32.5	54.9	254.0	470.0	1040.0	941.0	441.0	124.0	54.2	24.5	15.2	8.4	288.3
1970-71	28.9	38.3	61.5	403.0	950.0	666.0	160.0	103.0	60.6	37.5	29.0	18.3	213.0
1971-72	37.7	62.9	153.0	466.0	882.0	599.0	124.0	58.6	27.5	14.1	9.8	14.5	204.0
1972-73	38.6	163.0	116.0	172.0	-1.0	231.0	76.2	19.4	7.7	3.9	3.4	10.8	-1.0
1973-74	23.1	46.6	103.0	355.0	531.0	250.0	53.6	8.3	4.3	2.6	-1.0	-1.0	-1.0
AVG/MOYEN	54.6	114.0	218.1	413.1	941.7	884.6	290.5	117.1	72.2	41.8	31.6	32.0	267.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BAMBOI
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 134200.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1949-50	----	----	----	----	-1.0	-1.0	
1950-51	180.4	5692.2	42.	1.35	735.0	5.5	20.8
1951-52	453.9	14314.9	107.	3.38	1880.0	14.0	22.8
1952-53	357.5	11276.7	84.	2.66	-1.0	-1.0	26.8
1953-54	----	----	----	----	1020.0	7.6	35.3
1954-55	----	----	----	----	1240.0	9.2	
1955-56	387.5	12220.9	91.	2.89	1860.0	13.9	
1956-57	----	----	----	----	1240.0	9.2	
1957-58	378.1	11924.8	89.	2.82	1800.0	13.4	26.8
1958-59	----	----	----	----	-1.0	-1.0	18.9
1959-60	----	----	----	----	1610.0	12.0	7.4
1960-61	234.4	7393.6	55.	1.75	1260.0	9.4	28.9
1961-62	149.6	4719.8	35.	1.12	623.0	4.6	26.8
1962-63	----	----	----	----	1410.0	10.5	26.8
1963-64	----	----	----	----	3050.0	22.7	7.4
1964-65	----	----	----	----	1310.0	9.8	11.5
1965-66	323.3	10197.4	76.	2.41	1270.0	9.5	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	134.6	4245.5	32.	1.00	670.0	5.0	7.4
1968-69	470.4	14836.6	111.	3.51	2420.0	18.0	7.4
1969-70	288.3	9092.0	68.	2.15	1230.0	9.2	
1970-71	213.0	6717.4	50.	1.59	1180.0	8.8	5.8
1971-72	204.0	6436.2	48.	1.52	1170.0	8.7	
1972-73	----	----	----	----	-1.0	-1.0	3.4
1973-74	----	----	----	----	686.0	5.1	2.5

GAUGING STATION/STATION DE JAUGEAGE.... BOROMO
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 50000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	13.2	18.5	26.9	70.6	97.5	100.0	80.3	76.1	55.4	34.0	17.8	11.3	50.1
1956-57	12.0	19.4	32.4	69.4	129.0	117.0	76.7	62.5	37.9	20.0	16.4	8.3	50.0
1957-58	10.0	14.3	21.3	41.2	78.9	75.1	72.1	68.9	45.1	24.8	13.2	9.3	39.5
1958-59	8.1	20.0	33.3	80.4	145.0	121.0	83.3	76.4	57.0	32.7	16.4	9.6	56.9
1959-60	9.8	15.2	21.4	83.4	108.0	62.8	57.2	36.5	17.5	10.1	8.6	8.4	36.5
1960-61	10.6	28.0	58.2	115.0	100.0	70.6	61.8	44.4	21.0	12.4	8.6	7.3	44.8
1961-62	9.0	10.7	23.5	90.5	155.0	112.0	86.0	62.7	38.0	21.8	11.9	8.2	52.4
1962-63	8.6	13.1	17.9	57.5	166.0	131.0	72.4	45.1	22.4	12.1	8.1	7.3	46.7
1963-64	32.8	10.3	27.4	81.4	88.4	81.4	71.8	61.3	35.4	17.5	9.5	6.7	43.6
1964-65	8.1	22.9	38.2	67.2	157.0	130.0	80.6	67.4	43.3	23.8	12.0	8.1	54.8
1965-66	8.5	16.6	32.9	71.7	116.0	109.0	70.2	56.6	32.3	15.9	9.7	6.7	45.5
1966-67	14.2	15.2	15.6	36.6	63.8	74.4	50.1	31.4	14.0	9.0	7.2	6.8	28.1
1967-68	9.1	10.3	21.8	53.9	92.7	72.6	57.4	42.6	18.0	10.4	7.7	7.3	33.6
1968-69	12.7	40.1	30.6	59.7	71.8	71.8	65.3	48.8	25.0	12.8	8.2	7.7	37.8
1969-70	6.5	14.0	52.2	85.8	140.0	106.0	66.9	48.5	23.4	12.1	7.7	6.3	47.4
1970-71	7.7	13.8	31.6	85.1	123.0	105.0	85.6	64.9	40.2	22.5	11.4	9.2	49.9
1971-72	6.3	21.0	31.8	58.2	121.0	83.0	54.5	27.1	13.2	7.6	6.7	6.7	36.4
1972-73	11.0	36.0	22.9	53.7	53.3	35.7	17.3	8.1	3.7	2.7	2.0	2.3	20.7
1973-74	12.3	8.6	36.2	86.6	47.3	23.3	6.8	4.5	3.3	2.7	1.9	2.3	19.6
1974-75	11.0	12.7	42.8	110.0	132.0	95.0	61.0	30.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	11.0	18.0	30.9	72.8	109.2	88.8	63.8	48.1	28.7	16.0	9.7	7.3	42.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BOROMO
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 50000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	50.1	1581.0	32.	1.00	109.0	2.2	11.0
1956-57	50.0	1579.4	32.	1.00	146.0	2.9	7.5
1957-58	39.5	1246.1	25.	0.79	98.1	2.0	7.3
1958-59	56.9	1795.4	36.	1.14	149.0	3.0	7.3
1959-60	36.5	1153.4	23.	0.73	127.0	2.5	8.1
1960-61	44.8	1413.6	28.	0.90	120.0	2.4	5.8
1961-62	52.4	1653.8	33.	1.05	175.0	3.5	6.2
1962-63	46.7	1475.6	30.	0.94	182.0	3.6	7.1
1963-64	43.6	1376.8	28.	0.87	95.7	1.9	6.6
1964-65	54.8	1730.8	35.	1.10	175.0	3.5	6.2
1965-66	45.5	1435.1	29.	0.91	138.0	2.8	6.6
1966-67	28.1	889.0	18.	0.56	83.9	1.7	5.8
1967-68	33.6	1061.1	21.	0.67	98.1	2.0	6.6
1968-69	37.8	1194.4	24.	0.76	76.3	1.5	6.8
1969-70	47.4	1496.3	30.	0.95	148.0	3.0	5.2
1970-71	49.9	1576.7	32.	1.00	127.0	2.5	5.4
1971-72	36.4	1148.6	23.	0.73	120.0	2.4	5.8
1972-73	20.7	653.5	13.	0.41	77.3	1.5	
1973-74	19.6	619.6	12.	0.39	106.0	2.1	
1974-75	----	----	----	----	-1.0	-1.0	1.7

GAUGING STATION/STATION DE JAUGEAGE.... BUI D/S
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 125000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1965-66	7.1	150.0	693.0	765.0	1010.0	826.0	284.0	136.0	54.9	10.8	3.3	3.6	328.6
1966-67	38.4	71.6	96.5	396.0	662.0	835.0	309.0	95.7	14.7	2.7	2.1	2.2	210.5
1967-68	12.3	6.9	74.6	235.0	633.0	589.0	214.0	91.7	19.7	4.8	2.4	8.7	157.6
1968-69	56.1	274.0	523.0	949.0	1720.0	1040.0	445.0	191.0	60.9	12.5	4.0	8.1	440.3
1969-70	6.0	41.8	343.0	613.0	1180.0	1030.0	495.0	161.0	49.6	6.9	4.8	2.1	327.7
1970-71	7.1	21.9	60.8	526.0	1110.0	739.0	226.0	136.0	63.9	26.0	8.5	2.7	244.0
1971-72	14.7	32.7	176.0	550.0	917.0	617.0	160.0	58.7	10.4	2.6	2.2	2.6	211.9
1972-73	18.7	145.0	121.0	268.0	489.0	338.0	91.5	6.2	2.2	3.8	-1.0	2.1	-1.0
1973-74	18.3	35.8	150.0	528.0	591.0	257.0	38.6	2.3	1.9	2.9	-1.0	-1.0	-1.0
AVG/MOYEN	19.8	86.6	248.6	536.6	923.5	696.7	251.4	97.6	30.9	8.1	3.9	4.0	242.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BUI D/S
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 125000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1965-66	328.6	10364.2	83.	2.63	1200.0	9.6	9.8
1966-67	210.5	6638.3	53.	1.68	1020.0	8.2	2.4
1967-68	157.6	4973.1	40.	1.26	794.0	6.4	2.0
1968-69	440.3	13885.5	111.	3.52	2350.0	18.8	2.1
1969-70	327.7	10336.8	83.	2.62	1370.0	11.0	2.5
1970-71	244.0	7694.8	62.	1.95	1310.0	10.5	2.0
1971-72	211.9	6685.5	53.	1.70	1110.0	8.9	2.5
1972-73	----	----	----	----	613.0	4.9	1.9
1973-74	----	----	----	----	674.0	5.4	

GAUGING STATION/STATION DE JAUGEAGE.... BUI U/S
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 125000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	22.1	43.2	35.6	195.0	927.0	844.0	289.0	126.0	82.7	53.4	41.6	27.0	223.8
1955-56	30.9	63.4	179.0	559.0	1070.0	1380.0	357.0	140.0	74.5	46.1	29.8	22.5	329.3
1956-57	33.2	41.6	78.5	122.0	576.0	669.0	144.0	89.2	46.7	23.6	15.0	-1.0	-1.0
1957-58	64.0	207.0	267.0	544.0	907.0	1090.0	361.0	140.0	71.8	33.9	17.2	20.1	310.2
1958-59	15.4	34.7	47.9	139.0	362.0	392.0	138.0	104.0	62.8	36.8	25.6	16.6	114.5
1959-60	46.0	72.1	104.0	186.0	798.0	494.0	109.0	54.6	20.9	11.5	-1.0	13.5	-1.0
1960-61	27.7	77.0	169.0	414.0	749.0	604.0	129.0	66.7	25.2	13.1	-1.0	14.1	-1.0
1961-62	26.4	78.6	88.9	156.0	481.0	291.0	110.0	78.0	41.1	23.4	17.0	35.5	118.9
1962-63	45.8	121.0	219.0	410.0	997.0	955.0	306.0	91.5	31.8	16.2	11.8	10.8	267.9
1963-64	44.0	35.4	411.0	1270.0	2400.0	1510.0	416.0	121.0	55.1	23.6	17.4	15.7	526.5
1964-65	25.3	95.1	105.0	235.0	1010.0	854.0	210.0	107.0	63.5	35.2	19.7	11.8	230.9
1965-66	16.5	114.0	630.0	715.0	1000.0	788.0	195.0	91.8	45.6	22.0	14.6	15.4	303.9
1966-67	35.1	52.3	66.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	33.2	79.6	184.7	412.0	939.7	822.5	230.3	100.8	51.8	28.2	20.9	18.4	243.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BUI U/S
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 125000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	223.8	7060.3	56.	1.79	1170.0	9.4	18.3
1955-56	329.3	10386.3	83.	2.63	1760.0	14.1	17.1
1956-57	----	----	----	----	1210.0	9.7	
1957-58	310.2	9784.0	78.	2.48	1570.0	12.6	11.6
1958-59	114.5	3612.9	29.	0.92	576.0	4.6	9.6
1959-60	----	----	----	----	1520.0	12.2	
1960-61	----	----	----	----	1060.0	8.5	
1961-62	118.9	3749.8	30.	0.95	621.0	5.0	7.4
1962-63	267.9	8451.3	68.	2.14	1330.0	10.6	7.4
1963-64	526.5	16606.8	133.	4.21	3160.0	25.3	8.6
1964-65	230.9	7283.7	58.	1.85	1230.0	9.8	9.8
1965-66	303.9	9586.6	77.	2.43	1200.0	9.6	
1966-67	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... DAPOLA
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 78000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	-1.0	-1.0	-1.0	252.0	561.0	591.0	166.0	-1.0	-1.0	-1.0	-1.0	14.3	-1.0
1956-57	10.6	30.6	62.8	107.0	452.0	-1.0	-1.0	72.7	42.2	20.9	-1.0	-1.0	-1.0
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	57.5	34.8	17.8	8.7	-1.0
1959-60	31.5	26.5	37.0	146.0	362.0	151.0	68.8	42.7	20.4	12.0	9.5	10.4	76.4
1960-61	30.7	64.6	135.0	293.0	460.0	223.0	80.6	53.6	23.8	13.2	9.2	-1.0	-1.0
1961-62	-1.0	-1.0	54.6	156.0	412.0	217.0	-1.0	75.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	6.6	-1.0
1963-64	33.3	15.4	108.0	755.0	782.0	375.0	130.0	77.8	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	16.5	31.3	53.7	173.0	616.0	548.0	138.0	84.6	51.3	-1.0	-1.0	-1.0	-1.0
1965-66	14.5	37.9	94.6	395.0	488.0	350.0	124.0	73.6	37.6	17.2	-1.0	-1.0	-1.0
1966-67	30.2	18.3	25.3	174.0	297.0	305.0	112.0	44.9	18.4	9.8	-1.0	-1.0	-1.0
1967-68	8.8	14.4	35.8	129.0	348.0	274.0	103.0	53.0	21.6	12.7	-1.0	-1.0	-1.0
1968-69	24.4	70.7	99.7	152.0	363.0	313.0	133.0	70.4	32.9	15.3	8.9	15.0	108.1
1969-70	16.3	37.0	142.0	355.0	622.0	384.0	149.0	71.0	31.9	-1.0	8.6	8.1	-1.0
1970-71	12.3	19.9	56.1	380.0	674.0	362.0	113.0	80.4	45.5	24.1	12.1	11.0	149.1
1971-72	18.5	32.2	75.1	278.0	591.0	289.0	80.5	35.3	15.2	7.8	6.1	10.7	119.9
1972-73	25.6	69.8	44.5	132.0	205.0	80.0	26.4	10.3	6.7	-1.0	-1.0	6.2	-1.0
1973-74	22.5	24.1	63.1	213.0	155.0	48.4	9.2	5.0	-1.0	-1.0	1.5	4.4	-1.0
1974-75	13.1	24.4	132.0	270.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	20.5	34.4	76.2	256.4	461.7	300.6	102.3	56.6	31.1	16.7	9.2	9.5	114.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DAPOLA
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 78000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	----	----	----	----	752.0	9.6	
1956-57	----	----	----	----	-1.0	-1.0	7.2
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	----	----	----	----	-1.0	-1.0	
1959-60	76.4	2411.9	31.	0.98	545.0	7.0	6.9
1960-61	----	----	----	----	601.0	7.7	7.7
1961-62	----	----	----	----	479.0	6.1	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	1050.0	13.5	
1964-65	----	----	----	----	771.0	9.9	
1965-66	----	----	----	----	510.0	6.5	5.7
1966-67	----	----	----	----	382.0	4.9	
1967-68	----	----	----	----	385.0	4.9	6.2
1968-69	108.1	3412.0	44.	1.39	396.0	5.1	
1969-70	----	----	----	----	664.0	8.5	5.3
1970-71	149.1	4705.1	60.	1.91	758.0	9.7	6.5
1971-72	119.9	3782.8	48.	1.54	640.0	8.2	5.5
1972-73	----	----	----	----	293.0	3.8	4.2
1973-74	----	----	----	----	305.0	3.9	
1974-75	----	----	----	----	-1.0	-1.0	0.6

GAUGING STATION/STATION DE JAUGEAGE.... KOURI
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20800.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	9.0	11.0	14.0	28.0	88.0	137.0	152.0	105.0	36.0	15.0	14.0	13.0	51.8
1955-56	12.0	12.0	16.0	36.0	71.0	124.0	144.0	93.2	47.7	26.1	15.2	10.0	50.5
1956-57	9.1	9.7	12.9	34.2	82.8	112.0	95.9	42.7	16.6	10.0	7.4	6.6	36.6
1957-58	8.4	10.8	16.3	32.7	61.0	103.0	115.0	82.4	35.5	18.2	11.3	9.3	41.9
1958-59	8.4	10.5	14.9	40.2	91.6	130.0	134.0	79.7	26.2	14.0	8.7	7.6	47.1
1959-60	7.5	7.5	7.2	13.8	27.5	48.8	51.1	15.4	9.3	7.2	6.4	7.1	17.3
1960-61	6.4	6.9	9.9	19.2	31.0	62.7	68.6	27.4	10.2	7.7	6.5	6.2	21.8
1961-62	6.1	6.6	9.8	37.8	119.0	159.0	124.0	40.9	17.3	10.6	7.6	6.5	45.4
1962-63	6.3	6.5	10.2	19.2	74.1	84.2	62.1	21.4	10.2	7.5	6.4	6.6	26.2
1963-64	7.4	6.2	8.0	20.1	64.2	93.1	93.2	44.6	15.1	9.0	6.9	6.2	31.1
1964-65	6.8	7.2	8.7	25.0	76.0	108.0	108.0	54.1	19.5	10.9	7.6	6.5	36.5
1965-66	6.3	7.3	10.0	16.7	48.9	84.4	87.3	36.9	13.4	8.6	7.0	6.4	27.7
1966-67	6.9	7.1	8.2	14.2	23.7	35.4	34.2	13.7	8.2	6.8	6.3	6.2	14.2
1967-68	6.1	6.4	7.9	13.5	34.5	52.1	60.5	23.0	13.8	9.9	8.5	8.6	20.3
1968-69	9.1	10.9	18.0	37.7	58.3	89.8	91.7	44.8	18.2	11.1	8.6	9.1	33.9
1969-70	7.6	8.4	16.6	-1.0	-1.0	90.5	91.4	44.9	17.6	10.5	8.6	8.0	-1.0
1970-71	8.3	10.0	15.6	60.5	-1.0	-1.0	143.0	62.5	31.8	15.4	9.4	8.9	-1.0
1971-72	7.8	9.0	12.0	31.0	71.8	85.8	56.7	19.3	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	7.7	8.5	12.0	28.2	63.9	94.1	95.1	47.3	20.3	11.6	8.6	7.8	33.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KOURI
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20800.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	51.8	1634.6	79.	2.49	-1.0	-1.0	
1955-56	50.5	1595.7	77.	2.43	-1.0	-1.0	
1956-57	36.6	1156.0	56.	1.76	-1.0	-1.0	8.3
1957-58	41.9	1324.2	64.	2.02	116.0	5.6	
1958-59	47.1	1486.9	71.	2.27	-1.0	-1.0	8.2
1959-60	17.3	548.7	26.	0.84	-1.0	-1.0	
1960-61	21.8	690.3	33.	1.05	-1.0	-1.0	
1961-62	45.4	1432.7	69.	2.18	-1.0	-1.0	6.0
1962-63	26.2	827.0	40.	1.26	89.3	4.3	6.1
1963-64	31.1	982.8	47.	1.50	100.0	4.8	6.0
1964-65	36.5	1151.8	55.	1.76	113.0	5.4	6.0
1965-66	27.7	875.6	42.	1.33	91.9	4.4	6.0
1966-67	14.2	449.1	22.	0.68	36.6	1.8	5.7
1967-68	20.3	643.3	31.	0.98	64.5	3.1	5.8
1968-69	33.9	1070.3	51.	1.63	96.5	4.6	8.0
1969-70	----	----	----	----	96.5	4.6	
1970-71	----	----	----	----	187.0	9.0	7.8
1971-72	----	----	----	----	88.3	4.2	7.0

GAUGING STATION/STATION DE JAUGEAGE.... LAWRA
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 93965.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	20.2	51.2	89.1	206.0	495.0	837.0	463.0	133.0	75.6	41.8	27.3	17.5	204.7
1952-53	17.9	25.8	74.9	203.0	603.0	834.0	260.0	-1.0	-1.0	-1.0	31.3	13.1	-1.0
1953-54	18.0	43.1	86.5	208.0	510.0	217.0	68.2	36.1	18.4	11.5	8.6	7.4	102.7
1954-55	8.4	29.8	35.0	158.0	656.0	439.0	147.0	85.7	57.8	31.3	17.9	13.6	139.9
1955-56	14.4	21.0	60.8	251.0	549.0	581.0	150.0	89.7	59.4	33.9	16.4	11.9	153.2
1956-57	10.2	25.6	55.2	102.0	432.0	292.0	91.2	64.9	36.7	17.5	10.5	19.7	96.4
1957-58	25.8	45.4	78.1	197.0	380.0	350.0	-1.0	-1.0	-1.0	-1.0	-1.0	9.8	-1.0
1958-59	8.7	22.4	47.4	128.0	292.0	219.0	87.5	75.4	50.5	29.7	15.4	8.8	82.0
1959-60	23.5	19.6	30.7	145.0	322.0	159.0	58.1	33.8	14.5	9.4	8.2	10.5	69.5
1960-61	28.3	51.2	130.0	289.0	426.0	205.0	69.6	44.8	18.9	11.2	8.8	8.5	107.6
1961-62	15.1	39.3	33.0	143.0	378.0	196.0	87.9	62.5	33.9	19.1	11.3	15.2	86.1
1962-63	20.6	26.9	40.6	192.0	547.0	393.0	106.0	49.2	19.6	12.1	7.6	10.9	118.7
1963-64	32.7	15.4	89.6	702.0	-1.0	356.0	116.0	67.0	35.5	16.7	9.8	10.5	-1.0
1964-65	15.4	27.7	46.9	161.0	659.0	530.0	125.0	75.8	46.3	26.5	13.5	12.0	144.9
1965-66	17.0	34.0	80.4	359.0	461.0	331.0	102.0	63.3	34.8	17.8	11.9	11.1	126.9
1966-67	25.0	18.3	26.0	140.0	287.0	290.0	139.0	38.4	16.2	10.4	8.9	9.2	84.0
1967-68	12.9	14.0	42.7	103.0	325.0	235.0	77.6	47.3	20.0	12.0	9.4	10.9	75.8
1968-69	26.9	88.9	113.0	170.0	301.0	317.0	112.0	60.1	27.5	14.2	9.7	12.1	104.3
1969-70	17.1	34.4	114.0	278.0	564.0	343.0	126.0	58.7	26.4	13.9	9.4	8.8	132.8
1970-71	12.6	19.7	50.3	346.0	646.0	337.0	100.0	68.7	40.6	23.0	13.7	12.4	139.1
1971-72	16.4	29.2	62.0	264.0	560.0	254.0	69.3	-1.0	-1.0	-1.0	8.8	10.5	-1.0
1972-73	25.0	56.7	38.2	126.0	181.0	66.5	24.3	11.9	9.0	8.2	7.4	8.1	46.8
1973-74	18.4	22.5	52.4	190.0	133.0	39.0	10.8	8.4	7.4	7.1	7.0	8.0	42.0
AVG/MOYEN	18.7	33.1	64.2	220.0	441.2	340.0	117.7	58.7	32.4	18.3	12.4	11.3	114.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... LAWRA
RIVER/COURS D EAU..... BLACK VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 93965.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	204.7	6456.2	69.	2.18	1030.0	11.0	14.2
1952-53	----	----	----	----	1010.0	10.7	9.6
1953-54	102.7	3239.9	34.	1.09	589.0	6.3	7.3
1954-55	139.9	4413.8	47.	1.49	745.0	7.9	9.6
1955-56	153.2	4831.5	51.	1.63	759.0	8.1	7.3
1956-57	96.4	3041.9	32.	1.03	568.0	6.0	8.7
1957-58	----	----	----	----	443.0	4.7	7.6
1958-59	82.0	2588.2	28.	0.87	321.0	3.4	8.0
1959-60	69.5	2192.7	23.	0.74	480.0	5.1	7.3
1960-61	107.6	3393.8	36.	1.15	568.0	6.0	8.0
1961-62	86.1	2718.1	29.	0.92	448.0	4.8	8.3
1962-63	118.7	3746.3	40.	1.26	636.0	6.8	5.8
1963-64	----	----	----	----	1070.0	11.4	8.0
1964-65	144.9	4570.3	49.	1.54	794.0	8.4	7.0
1965-66	126.9	4003.2	43.	1.35	491.0	5.2	9.6
1966-67	84.0	2650.3	28.	0.89	348.0	3.7	8.3
1967-68	75.8	2391.0	25.	0.81	391.0	4.2	8.3
1968-69	104.3	3291.4	35.	1.11	364.0	3.9	7.8
1969-70	132.8	4188.6	45.	1.41	622.0	6.6	7.6
1970-71	139.1	4388.7	47.	1.48	745.0	7.9	10.6
1971-72	----	----	----	----	609.0	6.5	8.0
1972-73	46.8	1478.5	16.	0.50	263.0	2.8	6.6
1973-74	42.0	1324.8	14.	0.45	289.0	3.1	

GAUGING STATION/STATION DE JAUGEAGE.... MANIMENSO
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 32000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	10.0	7.0	13.0	31.0	45.0	85.0	60.0	72.5	48.7	31.2	14.0	7.9	35.4
1956-57	9.1	10.1	14.4	34.8	64.7	76.1	74.6	55.7	33.5	18.6	16.7	10.9	34.9
1957-58	9.0	11.6	19.0	37.1	51.6	71.1	76.6	65.1	39.2	23.2	11.4	11.3	35.5
1958-59	7.9	11.3	17.2	37.5	67.5	82.5	86.9	71.8	45.4	28.0	12.9	9.1	39.8
1959-60	8.8	10.9	10.3	24.5	43.3	53.9	56.0	29.8	16.6	10.7	15.4	4.9	23.7
1960-61	7.8	9.2	17.1	35.1	44.7	60.6	63.4	37.5	19.1	12.4	7.9	8.8	26.9
1961-62	6.4	8.2	15.8	46.8	83.8	96.5	86.3	53.9	35.0	20.2	8.5	7.2	39.0
1962-63	7.6	7.8	10.6	20.4	62.4	66.1	62.2	37.3	19.1	11.5	11.9	8.2	27.0
1963-64	10.2	7.4	12.2	32.6	60.1	72.6	73.2	54.8	29.7	16.2	7.8	8.4	32.0
1964-65	8.7	9.9	13.5	27.0	67.5	78.8	78.8	60.3	37.7	20.6	9.7	7.1	34.9
1965-66	7.5	10.0	16.7	29.0	54.2	69.1	71.0	50.3	26.2	14.8	11.7	8.3	30.7
1966-67	9.0	9.7	12.4	25.0	38.5	47.5	47.0	25.9	13.4	9.1	9.8	7.8	21.2
1967-68	7.0	7.9	11.7	23.5	45.8	55.0	59.5	31.4	16.7	10.6	8.5	7.2	23.7
1968-69	8.8	11.3	19.1	35.9	49.3	65.5	67.0	44.2	21.7	13.6	8.0	7.9	29.3
1969-70	6.0	8.0	19.0	35.5	60.4	66.6	67.0	44.1	21.4	12.4	8.5	6.7	29.6
1970-71	6.6	10.5	17.1	49.3	81.0	97.6	87.0	58.6	36.2	20.7	11.5	8.8	40.4
1971-72	6.7	8.5	12.5	30.7	56.4	63.6	49.5	23.6	12.7	7.9	5.8	5.0	23.5
1972-73	11.0	16.4	13.3	23.1	34.4	29.3	13.8	8.1	5.6	4.3	3.6	3.8	13.8
1973-74	5.0	7.9	10.3	28.0	32.2	18.6	6.8	4.8	3.5	2.8	3.1	2.7	10.4
1974-75	3.8	8.6	16.5	44.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	7.8	9.6	14.5	32.5	54.8	66.1	62.4	43.6	25.3	15.1	9.8	7.4	29.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MANIMENSO
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 32000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	35.4	1117.6	35.	1.11	-1.0	-1.0	
1956-57	34.9	1101.6	34.	1.09	77.0	2.4	7.9
1957-58	35.5	1120.0	35.	1.11	77.3	2.4	7.6
1958-59	39.8	1256.1	39.	1.24	87.7	2.7	7.6
1959-60	23.7	749.2	23.	0.74	59.6	1.9	6.6
1960-61	26.9	850.4	27.	0.84	-1.0	-1.0	
1961-62	39.0	1231.4	38.	1.22	97.5	3.0	5.9
1962-63	27.0	854.3	27.	0.85	68.4	2.1	7.1
1963-64	32.0	1012.3	32.	1.00	74.9	2.3	7.0
1964-65	34.9	1102.7	34.	1.09	80.1	2.5	6.4
1965-66	30.7	969.2	30.	0.96	72.4	2.3	6.7
1966-67	21.2	670.4	21.	0.66	48.3	1.5	7.0
1967-68	23.7	748.4	23.	0.74	61.0	1.9	5.8
1968-69	29.3	925.8	29.	0.92	68.6	2.1	7.0
1969-70	29.6	934.5	29.	0.93	69.0	2.2	
1970-71	40.4	1274.3	40.	1.26	99.3	3.1	5.4
1971-72	23.5	743.4	23.	0.74	64.1	2.0	6.2
1972-73	13.8	438.0	14.	0.43	36.1	1.1	4.5
1973-74	10.4	330.3	10.	0.33	32.8	1.0	3.0
1974-75	----	----	----	----	-1.0	-1.0	2.3

GAUGING STATION/STATION DE JAUGEAGE.... NASSO
RIVER/COURS D EAU..... KOU
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 405.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	3.7	4.2	5.6	9.3	7.4	3.8	3.2	3.2	3.0	3.0	3.0	3.0	4.3
1962-63	3.3	4.0	3.2	6.6	9.3	4.5	3.6	3.5	3.5	3.5	3.4	3.8	4.3
1963-64	4.4	7.4	5.3	15.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	4.0	4.8	-1.0
1964-65	4.5	4.7	5.6	17.3	8.3	4.7	4.2	4.2	4.0	3.8	3.9	4.6	5.8
1965-66	5.3	7.2	8.2	10.5	9.2	4.7	4.5	4.4	4.3	4.3	4.4	4.0	5.9
1966-67	4.0	4.2	6.4	6.1	7.3	6.3	3.4	4.4	4.8	4.9	4.9	4.6	5.1
1967-68	4.6	6.6	6.2	16.1	15.2	4.3	3.4	3.5	3.5	3.5	4.9	3.7	6.2
1968-69	8.7	6.9	19.9	12.2	7.6	4.8	3.0	3.0	3.0	2.9	2.9	3.0	6.4
1969-70	4.0	6.4	12.6	10.2	10.9	4.8	4.6	4.1	-1.0	-1.0	-1.0	3.1	-1.0
1970-71	3.4	4.8	7.6	10.0	6.9	4.0	3.4	2.9	2.9	3.1	3.2	3.6	4.6
1971-72	2.8	3.6	5.6	6.6	7.4	4.9	3.0	2.9	2.9	2.9	2.9	3.2	4.0
1972-73	3.7	3.4	3.3	4.8	4.0	3.3	3.0	3.2	3.4	3.3	3.4	2.8	3.4
1973-74	2.3	2.9	3.9	4.0	4.0	2.6	2.5	2.6	2.6	2.7	2.7	2.8	2.9
1974-75	3.0	3.1	4.4	7.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	4.1	4.9	6.9	9.7	8.1	4.3	3.4	3.4	3.4	3.4	3.6	3.6	4.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NASSO
RIVER/COURS D EAU..... KOU
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 405.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	4.3	137.7	340.	10.78	43.8	108.1	2.9
1962-63	4.3	137.1	339.	10.74	33.4	82.5	3.4
1963-64	----	----	----	----	142.0	350.6	3.9
1964-65	5.8	183.4	453.	14.36	112.0	276.5	3.8
1965-66	5.9	186.5	461.	14.61	82.1	202.7	3.7
1966-67	5.1	161.0	398.	12.61	38.6	95.3	4.4
1967-68	6.2	198.4	490.	15.53	132.0	325.9	3.2
1968-69	6.4	204.7	505.	16.03	40.5	100.0	2.9
1969-70	----	----	----	----	40.5	100.0	3.1
1970-71	4.6	146.6	362.	11.48	34.3	84.7	2.5
1971-72	4.0	127.9	316.	10.02	22.4	55.3	2.7
1972-73	3.4	109.3	270.	8.56	21.1	52.1	
1973-74	2.9	93.5	231.	7.33	17.0	42.0	2.7
1974-75	----	----	----	----	23.9	59.0	

GAUGING STATION/STATION DE JAUGEAGE.... NWOKUY
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 14800.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	117.0	124.0	46.2	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	9.0	10.9	18.4	42.2	58.3	91.2	89.0	30.0	12.5	9.2	7.4	9.0	32.2
1961-62	-1.0	-1.0	-1.0	57.7	115.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	26.4	66.4	77.2	67.9	24.2	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	12.4	-1.0	-1.0	108.0	-1.0	-1.0	16.0	10.3	-1.0	-1.0	-1.0
1964-65	8.4	9.2	12.7	-1.0	-1.0	-1.0	-1.0	-1.0	22.5	13.7	10.2	8.7	-1.0
1965-66	8.5	11.5	17.2	34.4	67.4	98.1	98.8	38.4	16.8	12.0	9.7	8.4	35.0
1966-67	9.4	10.8	13.1	28.5	46.9	55.8	53.0	20.0	10.5	8.0	6.8	6.4	22.4
1967-68	6.8	7.0	10.8	26.1	58.4	72.4	77.1	27.8	11.7	8.8	7.2	7.0	26.7
1968-69	10.0	12.1	21.6	44.1	64.4	92.6	89.4	34.3	14.9	10.3	7.4	7.7	34.0
1969-70	5.9	7.4	19.4	43.1	77.2	90.0	87.1	34.5	14.6	10.5	8.7	8.1	33.8
1970-71	7.9	11.2	19.4	68.3	131.0	181.0	120.0	38.1	19.5	12.2	9.8	8.3	52.2
1971-72	8.3	13.0	13.9	39.6	74.8	88.3	46.6	15.8	11.1	8.7	7.6	7.4	27.9
1972-73	10.0	17.7	14.2	27.8	44.0	31.0	13.8	7.2	5.5	4.4	3.6	3.3	15.2
1973-74	3.3	3.4	5.0	33.2	39.7	17.1	5.4	4.5	3.8	3.2	3.1	2.3	10.3
1974-75	2.9	6.3	15.8	52.0	83.0	107.0	65.0	15.5	7.0	5.5	4.5	3.7	30.6
1975-76	5.7	8.9	20.3	35.0	55.8	71.0	61.0	16.4	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	7.3	9.9	15.2	39.8	70.1	86.5	71.2	25.2	12.8	8.9	7.1	6.6	30.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NWOKUY
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 14800.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1958-59	----	----	----	----	145.0	9.8	
1959-60	----	----	----	----	150.0	10.1	
1960-61	32.2	1017.2	69.	2.18	102.0	6.9	
1961-62	----	----	----	----	350.0	23.6	
1962-63	----	----	----	----	80.6	5.4	
1963-64	----	----	----	----	112.0	7.6	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	35.0	1106.9	75.	2.37	280.0	18.9	7.8
1966-67	22.4	707.4	48.	1.52	56.3	3.8	8.0
1967-68	26.7	843.8	57.	1.81	81.0	5.5	
1968-69	34.0	1074.3	73.	2.30	97.0	6.6	
1969-70	33.8	1068.2	72.	2.29	95.4	6.4	5.8
1970-71	52.2	1646.9	111.	3.53	191.0	12.9	7.1
1971-72	27.9	880.6	60.	1.89	98.4	6.6	
1972-73	15.2	479.6	32.	1.03	49.0	3.3	
1973-74	10.3	325.8	22.	0.70	40.9	2.8	3.3
1974-75	30.6	967.6	65.	2.07	-1.0	-1.0	2.0
1975-76	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... OUESSA
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 62000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	38.0	27.0	20.0	18.0	-1.0
1955-56	14.0	19.0	56.0	148.0	294.0	306.0	100.0	55.0	43.0	27.0	19.0	12.0	91.0
1956-57	11.0	22.0	42.0	72.0	246.0	193.0	70.0	46.0	30.0	20.0	13.0	12.0	64.7
1957-58	12.0	17.0	32.0	74.0	186.0	148.0	85.0	54.0	35.0	22.0	14.0	10.0	57.4
1958-59	10.0	24.0	54.0	124.0	350.0	254.0	90.0	65.0	38.0	25.0	17.0	10.0	88.4
1959-60	27.0	19.0	25.0	95.0	205.0	100.0	40.0	29.0	17.0	12.0	11.0	12.0	49.3
1960-61	22.0	41.0	87.0	174.0	250.0	130.0	57.0	35.0	19.0	13.0	10.0	9.0	70.5
1961-62	12.0	20.0	36.0	100.0	229.0	129.0	70.0	48.0	30.0	18.0	13.0	9.0	59.5
1962-63	11.0	16.0	24.0	95.0	397.0	281.0	90.0	41.0	20.0	14.0	9.0	8.0	83.8
1963-64	24.0	14.0	69.0	340.0	384.0	210.0	88.0	48.0	27.0	17.0	11.0	8.0	103.3
1964-65	15.0	22.0	36.0	105.0	311.0	286.0	92.0	54.0	33.0	19.0	12.0	7.0	82.6
1965-66	14.0	27.0	60.0	220.0	263.0	198.0	82.0	47.0	26.0	15.0	10.0	7.0	80.7
1966-67	22.0	15.0	18.0	100.0	154.0	159.0	73.0	30.0	16.0	11.0	6.0	6.0	50.8
1967-68	10.0	14.0	24.0	80.0	200.0	170.0	72.0	35.0	17.0	12.0	10.0	13.0	54.7
1968-69	18.0	43.0	59.0	90.0	182.0	163.0	81.0	43.0	23.0	14.0	8.0	14.0	61.5
1969-70	10.4	31.1	88.5	167.0	326.0	203.0	89.5	56.0	28.0	14.3	9.6	7.9	85.9
1970-71	9.5	17.6	42.1	206.0	306.0	182.0	91.3	68.3	42.4	24.9	9.3	7.6	83.9
1971-72	16.6	25.5	54.4	169.0	314.0	156.0	61.9	30.0	16.2	12.4	13.5	6.3	72.9
1972-73	14.0	44.4	29.5	94.3	103.0	45.4	19.6	9.2	6.3	4.9	9.3	6.1	32.1
1973-74	21.4	18.2	45.0	136.0	69.5	26.7	7.8	5.5	4.7	4.0	3.5	3.0	28.7
1974-75	14.8	16.9	85.9	174.0	276.0	154.0	64.0	31.0	13.6	5.4	5.0	10.1	70.8
1975-76	-1.0	-1.0	-1.0	-1.0	180.0	74.0	49.0	25.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	15.4	23.3	48.3	138.1	248.8	169.9	70.1	40.7	24.9	15.8	11.1	9.3	68.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... OUESSA
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 62000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	----	----	----	----	-1.0	-1.0	
1955-56	91.0	2872.4	46.	1.47	-1.0	-1.0	
1956-57	64.7	2041.9	33.	1.04	-1.0	-1.0	
1957-58	57.4	1810.6	29.	0.93	-1.0	-1.0	
1958-59	88.4	2788.3	45.	1.43	-1.0	-1.0	
1959-60	49.3	1555.7	25.	0.80	-1.0	-1.0	
1960-61	70.5	2225.9	36.	1.14	-1.0	-1.0	
1961-62	59.5	1876.3	30.	0.96	-1.0	-1.0	
1962-63	83.8	2643.7	43.	1.35	-1.0	-1.0	
1963-64	103.3	3258.7	53.	1.67	-1.0	-1.0	
1964-65	82.6	2606.9	42.	1.33	-1.0	-1.0	
1965-66	80.7	2546.5	41.	1.30	-1.0	-1.0	
1966-67	50.8	1603.0	26.	0.82	-1.0	-1.0	
1967-68	54.7	1726.5	28.	0.88	-1.0	-1.0	
1968-69	61.5	1939.4	31.	0.99	-1.0	-1.0	
1969-70	85.9	2710.2	44.	1.39	350.0	5.6	5.3
1970-71	83.9	2646.3	43.	1.35	343.0	5.5	7.2
1971-72	72.9	2301.6	37.	1.18	336.0	5.4	
1972-73	32.1	1014.4	16.	0.52	161.0	2.6	4.2
1973-74	28.7	907.4	15.	0.46	162.0	2.6	0.0
1974-75	70.8	2235.6	36.	1.14	-1.0	-1.0	
1975-76	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... SAMENDENI
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4580.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	3.9	6.3	-1.0	-1.0	-1.0	-1.0	22.3	12.4	8.7	6.7	5.1	4.3	-1.0
1956-57	4.0	5.1	10.3	43.0	81.7	39.2	15.2	8.8	6.2	4.9	3.7	3.5	18.7
1957-58	5.2	7.6	10.5	35.9	87.9	59.2	24.0	11.7	7.5	5.3	4.1	3.3	21.8
1958-59	3.4	5.8	12.5	54.1	108.0	60.6	22.4	12.6	7.8	5.1	3.6	2.5	24.8
1959-60	4.1	4.5	5.8	42.1	80.8	39.1	14.7	8.2	5.2	3.7	2.6	3.0	17.8
1960-61	2.4	6.3	13.7	41.9	87.7	42.1	20.1	9.0	5.4	3.9	2.8	2.2	19.7
1961-62	2.8	4.5	17.9	72.9	152.0	35.8	13.5	8.0	5.4	4.0	2.7	2.4	26.8
1962-63	3.0	3.5	5.8	22.2	60.4	35.9	13.2	6.4	3.9	2.9	2.4	2.3	13.4
1963-64	2.6	2.6	9.1	-1.0	96.1	47.4	17.0	7.9	4.8	3.3	2.4	2.1	-1.0
1964-65	2.9	2.8	-1.0	-1.0	-1.0	45.8	-1.0	10.7	7.9	4.6	3.0	2.1	-1.0
1965-66	3.2	6.4	9.7	45.4	83.2	44.1	15.2	7.4	4.5	3.3	2.4	2.2	18.9
1966-67	2.8	4.0	9.6	25.1	39.1	46.2	13.8	5.9	3.2	2.5	2.3	2.1	13.0
1967-68	-1.0	5.0	5.6	-1.0	60.3	55.6	14.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	26.4	69.2	68.6	42.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	0.8	5.3	15.1	32.2	71.0	33.7	15.4	6.6	3.5	2.4	1.5	1.4	15.7
1970-71	1.9	6.6	19.3	101.0	106.0	33.6	12.4	7.6	3.9	3.2	1.9	1.8	24.9
1971-72	2.1	4.7	9.1	51.6	48.8	13.8	5.5	4.1	-1.0	-1.0	-1.0	2.6	-1.0
1972-73	5.4	9.8	8.3	22.9	23.3	12.4	4.3	2.7	2.2	2.1	-1.0	-1.0	-1.0
1973-74	-1.0	4.7	8.5	32.3	17.8	5.2	2.6	2.1	2.0	1.8	1.7	-1.0	-1.0
1974-75	-1.0	-1.0	22.7	61.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	3.1	5.3	12.2	47.0	74.8	38.4	14.4	7.7	5.1	3.7	2.8	2.5	18.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SAMENDENI
RIVER/COURS D EAU..... VOLTA NOIRE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA NOIRE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 4580.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	----	----	----	----	-1.0	-1.0	2.6
1956-57	18.7	592.8	129.	4.10	116.0	25.3	3.3
1957-58	21.8	689.0	150.	4.77	148.0	32.3	2.6
1958-59	24.8	784.1	171.	5.43	135.0	29.5	2.6
1959-60	17.8	561.8	123.	3.89	130.0	28.4	2.3
1960-61	19.7	624.1	136.	4.32	185.0	40.4	1.8
1961-62	26.8	845.9	185.	5.86	471.0	102.8	1.6
1962-63	13.4	425.4	93.	2.95	80.0	17.5	1.8
1963-64	----	----	----	----	203.0	44.3	1.2
1964-65	----	----	----	----	-1.0	-1.0	1.5
1965-66	18.9	596.5	130.	4.13	252.0	55.0	1.8
1966-67	13.0	411.5	90.	2.85	67.2	14.7	1.6
1967-68	----	----	----	----	86.5	18.9	
1968-69	----	----	----	----	268.0	58.5	
1969-70	15.7	496.4	108.	3.44	104.0	22.7	0.6
1970-71	24.9	786.2	172.	5.44	309.0	67.5	0.7
1971-72	----	----	----	----	163.0	35.6	1.2
1972-73	----	----	----	----	33.6	7.3	
1973-74	----	----	----	----	43.4	9.5	
1974-75	----	----	----	----	90.7	19.8	

GAUGING STATION/STATION DE JAUGEAGE.... TAINSO
RIVER/COURS D EAU..... TAIN
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3480.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	9.0	20.9	16.4	3.7	1.4	4.2	8.2	1.2	0.4	0.8	1.6	3.4	5.9
1963-64	5.8	5.6	14.9	13.3	47.2	68.7	26.3	3.3	0.8	0.4	0.3	0.7	15.6
1964-65	1.3	15.8	3.6	0.6	16.8	19.9	2.2	1.8	0.4	0.3	0.0	1.1	5.3
1965-66	2.8	13.7	15.2	3.4	16.8	30.1	1.7	0.2	0.0	0.0	0.2	1.5	7.1
1966-67	1.6	23.2	31.0	-1.0	22.5	25.2	11.3	0.9	0.5	0.4	0.4	0.5	-1.0
1967-68	1.7	3.6	4.0	0.4	0.3	1.5	0.5	0.3	0.2	0.2	0.3	1.8	1.2
1968-69	-1.0	-1.0	-1.0	45.8	82.6	75.8	30.0	2.4	1.2	0.7	0.8	2.6	-1.0
1969-70	4.0	8.8	1.3	0.5	0.6	2.1	14.2	0.6	0.3	0.2	0.2	0.2	2.8
1970-71	1.5	1.2	1.5	0.2	1.2	2.6	0.6	0.3	0.3	0.2	0.8	1.0	0.9
1971-72	2.7	5.7	3.1	0.9	9.7	11.7	1.0	0.5	0.4	0.3	0.3	0.4	3.0
1972-73	6.7	35.2	7.7	2.5	1.5	17.5	2.9	0.5	0.4	0.4	0.5	0.9	6.4
1973-74	-1.0	2.6	3.1	3.9	13.9	14.7	2.0	0.6	0.4	0.4	-1.0	-1.0	-1.0
AVG/MOYEN	3.7	12.4	9.2	6.8	17.8	22.8	8.4	1.0	0.4	0.4	0.5	1.3	7.1

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TAINSO
RIVER/COURS D EAU..... TAIN
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... BLACK VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3480.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	5.9	188.4	54.	1.72	-1.0	-1.0	
1963-64	15.6	492.9	142.	4.49	85.9	24.7	0.4
1964-65	5.3	168.7	48.	1.54	51.1	14.7	0.2
1965-66	7.1	225.9	65.	2.06	46.6	13.4	0.0
1966-67	----	----	----	----	-1.0	-1.0	0.0
1967-68	1.2	40.0	11.	0.36	17.9	5.1	0.1
1968-69	----	----	----	----	113.0	32.5	0.2
1969-70	2.8	88.4	25.	0.81	22.0	6.3	0.3
1970-71	0.9	31.2	9.	0.28	6.8	2.0	0.2
1971-72	3.0	97.6	28.	0.89	44.7	12.8	0.2
1972-73	6.4	202.7	58.	1.85	50.2	14.4	0.3
1973-74	----	----	----	----	40.7	11.7	0.1

GAUGING STATION/STATION DE JAUGEAGE.... BASSARI
RIVER/COURS D EAU..... KARA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 202.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	0.1	2.3	0.4	4.7	7.1	4.1	1.6	0.2	0.1	0.1	0.1	0.2	1.7
1963-64	0.2	0.6	3.5	8.0	10.4	8.6	3.3	0.4	0.1	0.0	0.0	0.1	2.9
1964-65	0.1	0.4	0.8	1.3	7.3	3.6	1.0	0.1	0.1	0.2	0.0	0.3	1.2
1965-66	0.5	0.6	2.3	3.4	7.5	2.1	0.5	0.0	0.0	0.0	0.0	0.0	1.4
1966-67	0.4	1.7	0.7	5.2	5.9	6.4	1.0	0.1	0.0	0.0	0.0	0.0	1.7
1967-68	0.0	0.1	0.9	2.4	7.2	9.3	1.7	0.6	0.1	0.0	0.2	0.3	1.8
1968-69	0.8	3.5	5.3	6.9	11.2	4.3	2.5	0.1	0.0	0.0	0.0	0.2	2.8
1969-70	0.3	0.3	1.9	7.1	14.4	6.8	2.1	0.3	0.1	0.1	0.0	0.1	2.7
1970-71	0.0	0.0	0.1	5.0	12.7	2.2	0.5	0.0	0.0	0.0	0.2	0.0	1.7
1971-72	0.2	0.5	0.6	2.1	5.9	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9
1972-73	0.0	0.6	0.9	0.8	5.8	4.1	0.4	0.2	0.2	0.0	0.0	0.0	1.0
1973-74	0.0	0.1	-1.0	-1.0	-1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
AVG/MOYEN	0.2	0.8	1.5	4.2	8.6	4.8	1.2	0.1	0.0	0.0	0.0	0.0	1.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BASSARI
RIVER/COURS D EAU..... KAMA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 202.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	1.7	55.1	273.	8.66	35.6	176.2	0.0
1963-64	2.9	92.5	458.	14.52	38.4	190.1	0.0
1964-65	1.2	39.9	198.	6.27	12.0	59.4	0.0
1965-66	1.4	44.4	220.	6.97	34.7	171.8	0.0
1966-67	1.7	56.2	278.	8.83	27.1	134.2	0.0
1967-68	1.8	59.9	297.	9.41	17.2	85.1	0.0
1968-69	2.8	91.4	453.	14.36	18.7	92.6	0.0
1969-70	2.7	88.0	436.	13.82	96.6	478.2	0.0
1970-71	1.7	54.3	269.	8.54	15.5	76.7	0.0
1971-72	0.9	30.2	150.	4.74	11.7	57.9	0.0
1972-73	1.0	34.1	169.	5.36	6.8	33.7	0.0
1973-74	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BENJA
RIVER/COURS D EAU..... KULAW
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1872.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1966-67	-1.0	-1.0	-1.0	-1.0	-1.0	22.6	1.1	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	0.7	0.3	0.4	45.1	77.2	38.1	0.4	0.0	0.0	0.0	0.0	0.0	13.5
1968-69	0.0	1.8	18.7	77.7	87.7	29.4	2.3	0.4	0.0	0.0	0.0	0.0	18.1
1969-70	0.0	0.2	10.2	27.8	112.0	38.5	6.4	0.1	0.0	0.0	0.0	0.0	16.2
1970-71	0.0	0.2	0.9	54.1	125.0	43.1	0.4	0.0	0.0	0.0	0.0	0.0	18.6
1971-72	1.3	1.6	34.0	72.0	103.0	8.0	0.3	0.0	0.0	0.0	0.0	0.0	18.3
1972-73	0.0	0.0	4.1	6.1	63.0	45.0	1.4	0.1	0.0	0.0	0.0	0.0	9.9
1973-74	0.0	0.1	0.3	29.3	56.0	13.8	0.2	0.0	0.0	0.0	0.0	0.0	8.3
AVG/MOYEN	0.2	0.6	9.7	44.5	89.1	29.8	1.5	0.0	0.0	0.0	0.0	0.0	14.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BENJA
RIVER/COURS D EAU..... KULAW
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1872.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1966-67	----	----	----	----	-1.0	-1.0	0.0
1967-68	13.5	426.2	228.	7.22	107.0	57.2	0.0
1968-69	18.1	572.9	306.	9.70	128.0	68.4	0.0
1969-70	16.2	512.9	274.	8.69	170.0	90.8	0.0
1970-71	18.6	587.8	314.	9.96	148.0	79.1	0.0
1971-72	18.3	578.6	309.	9.80	142.0	75.9	0.0
1972-73	9.9	314.5	168.	5.33	92.0	49.1	0.0
1973-74	8.3	262.0	140.	4.44	80.9	43.2	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BORGOU
RIVER/COURS D EAU..... SANSARGOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2240.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1960-61	0.7	9.0	7.3	13.1	55.3	13.0	2.6	0.8	0.0	0.0	0.0	0.0	8.4
1961-62	0.4	7.0	23.2	19.3	36.7	3.6	0.2	0.0	0.0	0.0	0.0	0.0	7.5
1962-63	1.3	2.7	3.7	34.3	57.7	11.3	2.2	0.1	0.0	0.0	0.0	0.1	9.4
1963-64	2.8	3.9	27.9	42.0	41.8	18.9	3.6	0.8	0.0	0.0	0.0	0.0	11.8
1964-65	1.1	7.2	16.9	53.9	79.1	9.7	2.4	0.9	0.1	0.0	0.0	0.6	14.3
1965-66	1.6	4.8	7.7	31.1	27.6	3.4	0.1	0.0	0.0	0.0	0.0	0.0	6.3
1966-67	1.2	5.2	6.2	42.0	22.7	8.5	0.8	0.0	0.0	0.0	0.0	0.6	7.2
1967-68	2.6	3.9	5.5	32.0	69.6	7.5	0.8	0.2	0.0	0.0	0.0	0.0	10.1
1968-69	2.7	10.7	45.2	31.0	28.4	4.5	1.3	0.5	0.1	0.0	0.0	0.0	10.3
1969-70	3.2	2.0	10.4	23.3	58.8	4.5	1.1	0.1	0.0	0.0	0.0	1.1	8.7
1970-71	2.0	1.1	10.5	52.2	85.0	7.8	0.9	0.1	0.0	0.0	0.0	0.0	13.2
1971-72	1.5	1.6	6.0	45.9	29.2	5.2	0.5	0.1	0.0	0.0	0.0	0.5	7.5
1972-73	0.9	3.7	5.0	18.7	28.8	4.6	0.4	0.0	0.0	0.0	0.0	0.0	5.1
1973-74	1.9	4.5	13.4	71.7	51.1	3.6	0.6	0.0	0.0	0.0	0.2	0.7	12.3
AVG/MOYEN	1.7	4.8	13.4	36.4	47.9	7.5	1.2	0.2	0.0	0.0	0.0	0.2	9.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE..... BORGOU
RIVER/COURS D EAU..... SANSARGOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2240.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1960-61	8.4	267.5	119.	3.79	126.0	56.2	0.0
1961-62	7.5	237.5	106.	3.36	146.0	65.2	0.0
1962-63	9.4	298.0	133.	4.22	124.0	55.4	0.0
1963-64	11.8	372.3	166.	5.27	87.9	39.2	0.0
1964-65	14.3	451.7	202.	6.40	150.0	67.0	0.0
1965-66	6.3	200.5	90.	2.84	99.8	44.6	0.0
1966-67	7.2	229.1	102.	3.24	158.0	70.5	0.0
1967-68	10.1	320.8	143.	4.54	152.0	67.9	0.0
1968-69	10.3	326.9	146.	4.63	90.1	40.2	0.0
1969-70	8.7	274.6	123.	3.89	151.0	67.4	0.0
1970-71	13.2	419.4	187.	5.94	168.0	75.0	0.0
1971-72	7.5	237.8	106.	3.37	165.0	73.7	0.0
1972-73	5.1	163.1	73.	2.31	89.8	40.1	0.0
1973-74	12.3	388.1	173.	5.49	137.0	61.2	0.0

GAUGING STATION/STATION DE JAUGEAGE.... BROUFFOU
RIVER/COURS D EAU..... GBAN MOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 320.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1964-65	1.2	3.6	3.0	2.4	5.8	2.8	0.9	0.7	0.5	0.3	0.5	0.9	1.8
1965-66	0.8	6.8	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.2	0.0	0.3	0.4	-1.0
1966-67	0.6	0.9	1.9	6.8	12.2	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	0.8	-1.0
1967-68	0.3	1.5	2.2	1.7	10.7	6.1	1.5	1.1	0.4	0.4	0.1	0.6	2.2
1968-69	1.0	2.9	4.8	12.9	8.6	4.6	2.0	1.5	0.8	0.4	0.2	0.7	3.3
1969-70	1.2	2.0	4.9	11.4	6.6	5.6	5.0	1.1	0.6	0.2	0.5	2.4	3.4
1970-71	2.5	0.6	1.7	0.9	6.6	1.6	0.6	0.1	0.1	0.1	0.9	1.0	1.3
1971-72	4.7	1.8	4.3	4.6	13.2	2.5	0.9	0.5	0.1	0.1	0.4	1.5	2.8
1972-73	3.0	4.7	4.8	4.2	7.2	2.7	0.5	0.0	0.0	0.0	0.1	0.8	2.3
1973-74	0.1	0.6	3.0	5.3	6.9	4.0	1.3	0.5	0.2	0.2	0.0	0.4	1.8
AVG/MOYEN	1.5	2.5	3.3	5.5	8.6	3.7	1.5	0.6	0.3	0.1	0.2	0.9	2.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BROUFFOU
RIVER/COURS D EAU..... GBAN HOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 320.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1964-65	1.8	59.3	186.	5.89	33.2	103.8	0.4
1965-66	----	----	----	----	-1.0	-1.0	0.2
1966-67	----	----	----	----	70.7	220.9	0.0
1967-68	2.2	69.9	218.	6.93	40.6	126.9	0.0
1968-69	3.3	106.1	332.	10.52	68.0	212.5	0.1
1969-70	3.4	109.0	341.	10.81	50.2	156.9	0.3
1970-71	1.3	43.8	137.	4.35	18.3	57.2	0.1
1971-72	2.8	90.9	284.	9.01	52.1	162.8	0.0
1972-73	2.3	73.5	230.	7.29	-1.0	-1.0	0.0
1973-74	1.8	59.1	185.	5.86	29.4	91.9	0.0

GAUGING STATION/STATION DE JAUGEAGE.... HOHOE
RIVER/COURS D EAU..... DAYES
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 626.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.7	1.4	-1.0
1962-63	2.4	7.1	10.9	7.4	4.0	6.8	4.5	3.0	1.6	1.6	2.2	1.7	4.4
1963-64	1.8	4.3	16.7	19.8	31.5	36.1	8.5	3.7	2.8	1.8	1.3	1.4	10.8
1964-65	1.3	4.6	4.5	4.7	8.1	6.1	2.7	1.9	1.4	1.1	0.8	1.1	3.2
1965-66	0.8	2.0	11.0	5.8	11.9	9.2	3.3	1.8	1.2	0.7	0.7	0.9	4.1
1966-67	1.4	2.9	4.9	19.8	17.3	12.9	4.8	2.3	1.4	1.1	1.1	2.6	6.0
1967-68	1.7	2.4	3.9	6.1	15.2	11.6	3.9	2.4	1.5	1.0	1.1	1.4	4.3
1968-69	2.1	9.4	8.0	23.1	19.2	10.6	6.3	3.6	2.0	1.4	1.2	1.5	7.4
1969-70	1.6	1.8	-1.0	5.6	9.7	11.7	7.0	2.7	1.5	0.8	1.2	0.8	-1.0
1970-71	1.1	1.3	1.5	1.1	3.0	5.0	2.2	0.9	0.5	0.3	0.5	0.6	1.5
1971-72	0.4	1.1	5.1	5.4	0.6	4.8	1.2	0.6	0.2	0.2	0.4	0.6	1.7
1972-73	0.8	2.7	5.3	3.5	5.4	3.3	1.4	0.6	0.3	0.0	0.0	1.2	2.0
1973-74	1.1	1.3	2.3	9.4	18.6	12.1	3.6	0.6	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	1.4	3.4	6.7	9.3	12.0	10.8	4.1	2.0	1.3	0.9	0.9	1.3	4.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... HOHOE
RIVER/COURS D EAU..... DAYES
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 626.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	----	----	----	----	-1.0	-1.0	0.4
1962-63	4.4	141.0	225.	7.14	31.8	50.8	0.3
1963-64	10.8	341.9	546.	17.32	59.2	94.6	0.3
1964-65	3.2	102.4	164.	5.19	21.4	34.2	0.5
1965-66	4.1	131.2	210.	6.65	33.5	53.5	0.6
1966-67	6.0	192.0	307.	9.73	48.7	77.8	0.7
1967-68	4.3	138.0	221.	6.99	30.9	49.4	1.0
1968-69	7.4	233.3	373.	11.82	67.1	107.2	1.0
1969-70	----	----	----	----	35.0	55.9	0.6
1970-71	1.5	48.5	78.	2.46	18.0	28.8	0.3
1971-72	1.7	55.3	88.	2.80	25.4	40.6	0.2
1972-73	2.0	66.1	106.	3.35	16.9	27.0	0.0
1973-74	----	----	----	----	31.9	51.0	

GAUGING STATION/STATION DE JAUGEAGE.... KOUMANGOU
RIVER/COURS D EAU..... KOUMANGOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6730.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1959-60	-1.0	2.4	53.0	94.5	273.0	102.0	-1.0	2.5	0.7	0.2	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	38.9	109.0	401.0	198.0	24.4	-1.0	-1.0	-1.0	0.0	0.1	-1.0
1961-62	4.3	15.2	48.8	53.8	172.0	43.6	5.6	1.6	0.8	0.4	0.3	2.0	29.0
1962-63	3.4	36.6	92.8	233.0	440.0	147.0	48.1	15.0	3.7	1.8	0.3	3.7	85.4
1963-64	-1.0	-1.0	82.1	326.0	376.0	265.0	-1.0	-1.0	-1.0	-1.0	-1.0	1.2	-1.0
1964-65	5.0	5.4	30.1	91.0	419.0	348.0	92.2	10.8	-1.0	-1.0	-1.0	2.3	-1.0
1965-66	5.7	14.2	31.3	176.0	158.0	-1.0	10.2	2.6	1.3	0.4	-1.0	0.4	-1.0
1966-67	2.0	22.3	30.9	109.0	245.0	163.0	28.8	4.8	1.9	0.9	0.1	0.9	50.7
1967-68	3.3	8.1	50.2	220.0	217.0	122.0	20.6	7.8	3.0	1.2	0.3	1.1	54.5
1968-69	15.1	38.5	242.0	190.0	330.0	132.0	31.0	11.2	4.6	2.0	0.5	15.1	84.3
1969-70	1.8	2.0	54.1	150.0	406.0	162.0	-1.0	-1.0	-1.0	1.7	0.6	2.3	-1.0
1970-71	2.9	1.2	18.5	124.0	447.0	131.0	22.2	10.3	7.0	5.4	0.8	0.2	64.2
1971-72	2.5	4.1	86.0	300.0	352.0	90.6	19.5	6.3	2.3	0.7	4.5	4.4	72.7
1972-73	11.9	14.8	45.4	78.7	199.0	83.7	18.9	5.0	3.8	1.0	0.2	0.9	38.6
1973-74	1.5	3.7	17.6	126.0	216.0	78.7	8.9	2.3	1.2	0.6	0.3	0.3	38.0
AVG/MOYEN	4.9	12.9	61.4	158.7	310.0	147.6	27.5	6.6	2.7	1.3	0.7	2.4	61.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KOUMANGOU
RIVER/COURS D EAU..... KOUMANGOU
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6730.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1959-60	----	----	----	----	431.0	64.0	
1960-61	----	----	----	----	497.0	73.8	0.0
1961-62	29.0	915.5	136.	4.31	333.0	49.5	0.2
1962-63	85.4	2694.7	400.	12.70	665.0	98.8	0.2
1963-64	----	----	----	----	575.0	85.4	0.7
1964-65	----	----	----	----	544.0	80.8	0.7
1965-66	----	----	----	----	381.0	56.6	
1966-67	50.7	1602.0	238.	7.55	443.0	65.8	0.0
1967-68	54.5	1720.2	256.	8.11	446.0	66.3	0.1
1968-69	84.3	2659.5	395.	12.53	463.0	68.8	0.2
1969-70	----	----	----	----	541.0	80.4	0.4
1970-71	64.2	2024.8	301.	9.54	531.0	78.9	0.1
1971-72	72.7	2293.9	341.	10.81	536.0	79.6	0.6
1972-73	38.6	1217.5	181.	5.74	412.0	61.2	0.1
1973-74	38.0	1201.2	178.	5.66	414.0	61.5	0.2

GAUGING STATION/STATION DE JAUGEAGE.... KPESSIDE
RIVER/COURS D EAU..... KARA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2790.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.4	0.1	0.2	1.4	-1.0
1962-63	5.0	60.3	92.7	147.0	167.0	61.2	3.4	0.0	0.0	0.1	0.1	1.3	44.8
1963-64	2.5	6.8	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.3	3.4	-1.0
1964-65	4.3	4.9	19.5	79.2	188.0	28.8	4.7	0.9	0.5	0.2	0.5	3.0	27.8
1965-66	6.8	20.6	62.4	72.7	94.3	15.6	1.9	0.3	0.2	0.1	0.0	0.6	22.9
1966-67	4.8	21.8	31.2	178.0	117.0	92.8	15.1	2.0	0.4	0.2	0.0	1.2	38.7
1967-68	1.1	4.8	68.6	112.0	197.0	89.6	9.1	4.9	1.2	0.5	0.5	4.1	41.1
1968-69	9.3	63.1	94.9	96.6	139.0	48.9	15.2	2.2	0.7	0.3	0.7	4.1	39.5
1969-70	7.7	3.6	58.8	164.0	217.0	85.0	32.0	-1.0	-1.0	-1.0	0.1	3.5	-1.0
1970-71	-1.0	-1.0	-1.0	107.0	241.0	40.7	-1.0	-1.0	-1.0	0.5	-1.0	-1.0	-1.0
1971-72	6.0	8.4	94.3	142.0	123.0	18.8	2.6	0.6	0.1	0.0	0.7	1.0	33.1
1972-73	14.6	13.8	60.6	95.2	84.5	55.2	9.0	2.7	1.2	0.1	0.3	3.5	28.3
1973-74	7.7	14.6	18.0	93.7	80.7	35.9	7.3	0.6	0.1	0.0	0.0	0.2	21.5
AVG/MOYEN	6.3	20.2	60.0	117.0	149.8	52.0	10.0	1.5	0.4	0.1	0.2	2.2	35.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KPESSIDE
RIVER/COURS D EAU..... KARA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2790.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	44.8	1414.1	507.	16.07	540.0	193.5	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	27.8	879.0	315.	9.99	490.0	175.6	0.1
1965-66	22.9	724.0	260.	8.23	362.0	129.7	0.1
1966-67	38.7	1220.7	438.	13.87	934.0	334.8	0.0
1967-68	41.1	1296.6	465.	14.74	583.0	209.0	0.1
1968-69	39.5	1248.2	447.	14.19	362.0	129.7	0.3
1969-70	----	----	----	----	1150.0	412.2	0.1
1970-71	----	----	----	----	1150.0	412.2	
1971-72	33.1	1044.6	374.	11.87	540.0	193.5	0.1
1972-73	28.3	895.3	321.	10.18	405.0	145.2	0.0
1973-74	21.5	680.1	244.	7.73	503.0	180.3	0.0

GAUGING STATION/STATION DE JAUGEAGE.... LAMA KARA
RIVER/COURS D EAU..... KARA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1560.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	-1.0	-1.0	24.5	16.5	44.0	25.9	2.9	0.4	0.4	0.2	0.2	0.4	-1.0
1955-56	0.7	15.9	118.0	131.0	143.0	49.7	5.1	1.1	0.3	0.3	1.4	0.4	38.9
1956-57	0.6	3.2	11.4	47.4	156.0	18.9	1.7	0.9	0.2	0.1	1.1	2.0	20.3
1957-58	4.4	21.1	47.7	97.1	267.0	49.2	11.3	3.0	0.8	0.4	0.1	3.0	42.1
1958-59	0.8	5.9	3.8	2.0	12.3	7.0	0.9	0.3	0.0	0.0	0.0	1.3	2.9
1959-60	3.7	0.9	33.4	37.6	115.0	18.6	1.9	0.3	0.1	0.0	0.0	0.5	17.7
1960-61	0.6	12.2	47.8	66.1	133.0	48.0	9.1	1.2	0.3	0.1	0.2	1.0	26.6
1961-62	4.6	8.6	23.6	24.2	23.2	15.0	1.1	0.2	0.1	0.0	0.0	0.1	8.4
1962-63	3.8	50.5	37.4	69.6	84.7	28.0	9.4	1.4	0.4	0.4	0.4	2.8	24.0
1963-64	1.3	1.9	64.0	168.0	146.0	99.9	21.4	1.9	0.7	0.1	0.3	3.0	42.4
1964-65	2.4	2.9	13.9	66.5	128.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.6	-1.0
1965-66	1.5	13.7	53.3	65.9	79.2	11.5	0.6	0.2	0.1	0.0	0.0	0.8	18.9
1966-67	1.0	11.2	14.7	-1.0	104.0	-1.0	15.7	0.6	0.2	0.1	0.2	0.5	-1.0
1967-68	0.5	2.1	50.0	89.4	171.0	67.3	3.2	1.5	0.3	0.1	0.1	1.4	32.2
1968-69	2.7	20.2	50.4	42.6	102.0	26.5	3.4	0.6	0.2	0.1	0.0	0.9	20.8
1969-70	4.4	1.1	35.7	99.3	129.0	61.6	11.1	1.1	0.4	0.2	0.2	0.0	28.7
1970-71	0.9	0.9	8.5	69.8	135.0	21.1	1.4	0.4	0.2	0.2	0.1	0.3	19.9
1971-72	3.7	2.7	45.4	86.1	98.3	6.1	0.7	0.3	0.1	0.0	0.1	0.7	20.3
1972-73	6.1	7.9	24.9	41.6	73.7	20.8	2.6	1.6	0.4	0.1	0.0	0.0	15.0
1973-74	1.4	3.9	18.3	51.6	93.1	23.6	1.9	0.3	0.1	0.0	0.1	0.5	16.2
AVG/MOYEN	2.4	9.8	36.3	66.9	111.8	33.2	5.5	0.9	0.3	0.1	0.2	1.1	22.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... LAMA KARA
RIVER/COURS D EAU..... KARA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1560.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	----	----	----	----	342.0	219.2	
1955-56	38.9	1227.8	787.	24.96	501.0	321.2	0.0
1956-57	20.3	641.2	411.	13.03	711.0	455.8	0.1
1957-58	42.1	1328.0	851.	26.99	613.0	392.9	0.1
1958-59	2.9	91.6	59.	1.86	42.1	27.0	0.2
1959-60	17.7	558.4	358.	11.35	377.0	241.7	0.0
1960-61	26.6	840.6	539.	17.09	411.0	263.5	0.0
1961-62	8.4	265.8	170.	5.40	93.2	59.7	0.0
1962-63	24.0	759.8	487.	15.45	282.0	180.8	0.0
1963-64	42.4	1337.3	857.	27.18	723.0	463.5	0.0
1964-65	----	----	----	----	402.0	257.7	0.0
1965-66	18.9	596.8	383.	12.13	360.0	230.8	
1966-67	----	----	----	----	-1.0	-1.0	0.0
1967-68	32.2	1017.4	652.	20.68	343.0	219.9	0.0
1968-69	20.8	656.7	421.	13.35	-1.0	-1.0	
1969-70	28.7	905.1	580.	18.40	478.0	306.4	0.0
1970-71	19.9	628.4	403.	12.77	319.0	204.5	0.1
1971-72	20.3	642.6	412.	13.06	362.0	232.1	0.0
1972-73	15.0	473.2	303.	9.62	300.0	192.3	
1973-74	16.2	512.9	329.	10.43	238.0	152.6	0.0

GAUGING STATION/STATION DE JAUGEAGE.... MANDOURI
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 29100.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1959-60	-1.0	-1.0	31.0	270.0	657.0	353.0	13.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	-1.0	124.0	447.0	383.0	46.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	-1.0	46.1	136.0	152.0	460.0	172.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	24.6	64.5	360.0	746.0	415.0	77.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	109.0	358.0	596.0	355.0	81.9	15.5	6.5	3.4	-1.0	-1.0	-1.0
1964-65	1.1	11.0	57.4	299.0	636.0	540.0	152.0	10.4	4.0	1.0	1.2	0.1	142.7
1965-66	0.1	4.0	26.2	99.6	247.0	168.0	17.8	4.6	0.9	0.2	0.2	0.1	47.3
1966-67	0.5	15.5	16.4	153.0	333.0	293.0	161.0	37.3	2.2	1.2	0.1	0.1	84.4
1967-68	0.2	10.5	27.7	154.0	384.0	309.0	45.4	10.1	4.5	1.9	0.4	0.1	78.9
1968-69	7.9	58.3	188.0	256.0	378.0	263.0	58.2	14.4	6.1	2.9	0.5	0.1	102.7
1969-70	2.2	6.8	85.5	189.0	706.0	384.0	102.0	22.7	8.4	3.8	1.0	2.2	126.1
1970-71	1.8	3.3	23.7	281.0	650.0	477.0	58.4	10.0	4.5	1.8	1.8	0.6	126.1
1971-72	3.4	4.8	59.4	246.0	393.0	122.0	13.4	4.1	2.0	0.9	0.9	0.4	70.8
1972-73	2.7	7.3	26.6	134.0	299.0	219.0	24.5	6.4	3.9	1.7	0.5	8.4	61.1
1973-74	0.3	7.0	23.7	344.0	191.0	86.6	12.2	3.6	1.2	0.2	0.4	0.9	55.9
AVG/MOYEN	2.0	16.5	62.5	227.9	474.8	302.6	61.6	12.6	4.0	1.7	0.6	1.2	97.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MANDOURI
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 29100.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1959-60	----	----	----	----	698.0	24.0	
1960-61	----	----	----	----	733.0	25.2	
1961-62	----	----	----	----	695.0	23.9	
1962-63	----	----	----	----	834.0	28.7	
1963-64	----	----	----	----	640.0	22.0	0.3
1964-65	142.7	4502.2	155.	4.91	834.0	28.7	0.1
1965-66	47.3	1494.5	51.	1.63	328.0	11.3	0.1
1966-67	84.4	2662.9	92.	2.90	361.0	12.4	0.0
1967-68	78.9	2490.8	86.	2.71	488.0	16.8	0.1
1968-69	102.7	3241.3	111.	3.53	430.0	14.8	0.0
1969-70	126.1	3977.7	137.	4.33	813.0	27.9	0.1
1970-71	126.1	3978.5	137.	4.34	855.0	29.4	0.1
1971-72	70.8	2234.5	77.	2.43	468.0	16.1	0.0
1972-73	61.1	1928.9	66.	2.10	390.0	13.4	0.2
1973-74	55.9	1763.6	61.	1.92	544.0	18.7	0.0

GAUGING STATION/STATION DE JAUGEAGE.... MANGO
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 35650.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	24.5	155.0	96.0	257.0	953.0	582.0	86.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	-1.0	-1.0	25.3	107.0	418.0	271.0	56.8	-1.0	-1.0	-1.0	-1.0	0.7	-1.0
1955-56	1.7	10.3	122.0	814.0	1140.0	732.0	115.0	15.8	7.1	4.4	1.9	1.8	247.1
1956-57	1.1	19.7	58.3	197.0	550.0	342.0	29.6	8.3	3.9	1.5	0.9	0.6	101.0
1957-58	11.3	78.0	80.1	380.0	1220.0	861.0	115.0	21.7	9.6	6.8	4.1	2.0	232.4
1958-59	3.6	11.8	8.0	121.0	356.0	149.0	11.3	1.5	2.8	1.9	1.1	0.4	55.7
1959-60	0.4	8.9	64.0	245.0	893.0	564.0	32.6	6.6	2.9	1.5	0.7	0.6	151.7
1960-61	1.6	10.9	43.4	133.0	534.0	744.0	60.7	8.7	3.4	1.7	0.9	0.6	128.5
1961-62	0.6	3.6	106.0	165.0	565.0	262.0	16.1	5.0	2.2	1.1	0.6	0.3	94.0
1962-63	1.2	12.3	107.0	397.0	1240.0	600.0	78.7	15.8	6.3	3.3	2.1	1.1	205.4
1963-64	10.1	7.8	186.0	566.0	864.0	533.0	110.0	19.3	7.8	3.5	1.9	1.1	192.5
1964-65	0.6	9.6	56.7	341.0	874.0	684.0	79.3	13.4	5.1	3.2	1.5	0.7	172.4
1965-66	0.7	7.1	36.4	163.0	346.0	187.0	25.7	9.2	3.3	1.2	0.4	0.3	65.0
1966-67	2.1	20.8	20.3	174.0	377.0	351.0	74.8	15.0	6.0	2.3	0.9	0.5	87.0
1967-68	0.9	16.3	29.5	247.0	507.0	403.0	60.2	13.4	6.5	2.8	1.1	0.6	107.3
1968-69	6.8	66.3	293.0	475.0	526.0	350.0	71.2	16.2	6.4	3.5	1.8	2.4	151.5
1969-70	4.0	5.6	88.9	189.0	1010.0	561.0	120.0	25.6	9.9	5.7	2.6	1.2	168.6
1970-71	5.3	3.7	28.9	296.0	1020.0	781.0	57.0	11.6	7.9	4.6	1.9	1.6	184.9
1971-72	3.8	9.9	67.7	356.0	661.0	183.0	22.1	13.5	6.0	1.5	0.6	0.6	110.4
1972-73	2.8	4.7	30.5	148.0	436.0	300.0	34.5	7.8	4.4	2.5	1.3	1.7	81.2
1973-74	1.9	9.0	27.9	409.0	356.0	107.0	13.9	4.8	2.1	1.0	0.5	0.5	77.8
AVG/MOYEN	4.2	23.5	75.0	294.2	706.9	454.6	60.5	12.2	5.4	2.8	1.4	1.0	136.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MANGO
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 35650.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	----	----	----	----	1360.0	38.1	
1954-55	----	----	----	----	457.0	12.8	
1955-56	247.1	7795.1	219.	6.93	1540.0	43.2	1.0
1956-57	101.0	3188.1	89.	2.84	616.0	17.3	0.3
1957-58	232.4	7331.6	206.	6.52	1620.0	45.4	1.0
1958-59	55.7	1757.5	49.	1.56	442.0	12.4	0.2
1959-60	151.7	4784.2	134.	4.26	1220.0	34.2	0.3
1960-61	128.5	4055.4	114.	3.61	1240.0	34.8	0.4
1961-62	94.0	2964.3	83.	2.64	769.0	21.6	0.2
1962-63	205.4	6478.0	182.	5.76	1750.0	49.1	0.8
1963-64	192.5	6072.7	170.	5.40	976.0	27.4	0.5
1964-65	172.4	5438.2	153.	4.84	1430.0	40.1	0.9
1965-66	65.0	2051.7	58.	1.82	406.0	11.4	0.3
1966-67	87.0	2746.2	77.	2.44	450.0	12.6	0.3
1967-68	107.3	3386.1	95.	3.01	651.0	18.3	0.3
1968-69	151.5	4779.9	134.	4.25	583.0	16.4	1.1
1969-70	168.6	5318.5	149.	4.73	1510.0	42.4	0.5
1970-71	184.9	5833.8	164.	5.19	1710.0	48.0	0.5
1971-72	110.4	3484.2	98.	3.10	703.0	19.7	0.2
1972-73	81.2	2561.2	72.	2.28	537.0	15.1	0.8
1973-74	77.8	2454.1	69.	2.18	568.0	15.9	

GAUGING STATION/STATION DE JAUGEAGE.... NAGBENI
RIVER/COURS D EAU..... KOIMEPOUARBA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 208.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	-1.0	0.3	1.1	4.2	4.1	1.7	-1.0	-1.0	-1.0	0.0	-1.0	-1.0	-1.0
1963-64	0.2	0.1	4.9	8.1	5.7	5.0	1.0	0.2	0.0	0.0	0.0	0.0	2.0
1964-65	0.0	0.1	0.7	3.7	9.5	2.1	0.4	0.2	0.0	0.0	0.0	0.0	1.3
1965-66	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	0.0	0.0	0.0	-1.0
1966-67	0.0	0.0	0.8	4.8	4.7	2.6	0.7	0.5	0.0	0.0	0.0	0.0	1.1
1967-68	0.0	0.2	0.2	2.7	6.9	2.5	0.3	0.1	0.0	0.0	0.0	0.0	1.0
1968-69	0.0	0.5	5.0	5.4	2.4	1.1	0.3	0.1	0.0	0.0	0.0	0.0	1.2
1969-70	0.0	0.0	0.3	2.4	8.1	2.1	0.3	0.1	0.1	0.0	0.0	0.0	1.1
1970-71	0.1	0.0	0.0	2.1	7.8	-1.0	0.2	0.0	0.0	0.0	0.0	0.0	-1.0
1971-72	0.0	0.0	0.6	4.7	4.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.9
1972-73	0.0	0.1	0.1	0.5	3.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
1973-74	0.0	0.0	0.2	2.6	2.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.4
AVG/MOYEN	0.0	0.1	1.2	3.7	5.4	1.9	0.3	0.1	0.0	0.0	0.0	0.0	1.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NAGBENI
RIVER/COURS D EAU..... KOIMEPOUARBA
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 208.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	----	----	----	----	8.0	38.5	0.0
1963-64	2.0	66.2	318.	10.10	18.8	90.4	0.0
1964-65	1.3	43.8	211.	6.69	20.4	98.1	0.0
1965-66	----	----	----	----	-1.0	-1.0	0.0
1966-67	1.1	37.0	178.	5.65	13.6	65.4	0.0
1967-68	1.0	33.9	163.	5.17	11.5	55.3	0.0
1968-69	1.2	38.8	187.	5.93	11.5	55.3	0.0
1969-70	1.1	35.2	169.	5.37	12.2	58.7	0.0
1970-71	----	----	----	----	9.5	45.7	0.0
1971-72	0.9	29.1	140.	4.45	16.5	79.3	0.0
1972-73	0.4	14.9	72.	2.28	7.7	37.0	0.0
1973-74	0.4	14.9	72.	2.28	6.6	31.7	0.0

GAUGING STATION/STATION DE JAUGEAGE.... PORGA
RIVER/COURS D EAU..... PENDJARI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 22280.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	3.7	2.8	-1.0
1952-53	1.9	3.5	18.2	81.8	294.0	449.0	80.4	8.6	3.8	1.5	0.3	0.0	78.6
1953-54	11.2	40.6	49.8	119.0	424.0	344.0	63.2	8.9	4.0	1.8	0.7	0.2	88.9
1954-55	5.3	16.8	13.1	48.5	271.0	133.0	22.0	5.7	2.0	0.9	0.4	0.2	43.2
1955-56	1.0	5.7	35.7	406.0	514.0	357.0	73.0	10.6	4.7	2.3	1.0	0.5	117.6
1956-57	0.3	6.7	21.4	117.0	314.0	221.0	12.6	5.2	1.7	0.6	0.1	0.0	58.4
1957-58	4.0	15.7	27.6	240.0	510.0	361.0	72.9	14.4	6.1	2.5	0.8	0.2	104.6
1958-59	0.5	4.0	1.4	52.6	163.0	73.9	5.3	1.3	0.2	0.0	0.0	0.0	25.1
1959-60	0.0	4.3	36.1	178.0	432.0	266.0	19.3	6.0	2.6	1.4	0.5	0.3	78.8
1960-61	1.8	5.7	22.7	65.8	247.0	356.0	-1.0	-1.0	-1.0	2.7	0.5	0.1	-1.0
1961-62	1.5	6.6	51.6	-1.0	293.0	154.0	6.3	1.6	0.4	0.0	0.0	0.0	-1.0
1962-63	0.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.4	-1.0
1963-64	1.2	2.7	54.9	267.0	426.0	286.0	66.7	15.0	5.9	2.6	0.8	0.2	94.1
1964-65	0.8	4.4	35.0	215.0	428.0	353.0	46.6	6.5	2.8	1.1	0.3	0.0	91.1
1965-66	0.0	5.9	17.2	79.4	204.0	122.0	13.0	4.2	1.6	0.6	0.0	0.1	37.3
1966-67	0.5	6.8	8.8	105.0	238.0	226.0	47.7	8.0	3.2	1.2	0.4	0.1	53.8
1967-68	0.3	5.7	20.9	98.7	276.0	273.0	38.6	9.0	4.2	1.6	0.6	0.1	60.7
1968-69	5.3	39.5	83.2	221.0	301.0	249.0	51.2	12.4	5.7	2.7	0.9	2.8	81.2
1969-70	1.3	12.8	68.9	146.0	501.0	312.0	93.1	19.7	7.0	3.5	1.4	0.5	97.2
1970-71	0.8	3.3	10.3	153.0	444.0	359.0	38.2	7.0	3.1	1.3	0.6	0.2	85.0
1971-72	1.2	14.3	38.1	173.0	293.0	103.0	11.2	4.0	1.5	0.5	0.0	0.0	53.3
1972-73	0.5	4.7	12.8	83.0	249.0	206.0	19.4	4.3	3.9	1.8	0.4	0.8	48.9
1973-74	0.1	4.0	10.3	204.0	182.0	67.9	9.9	3.1	1.0	0.3	-1.0	-1.0	-1.0
AVG/MOYEN	1.8	10.2	30.3	152.6	333.5	251.0	39.5	7.8	3.3	1.5	0.6	0.5	69.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... PORGA
RIVER/COURS D EAU..... PENDJARI
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 22280.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	----	----	----	----	-1.0	-1.0	
1952-53	78.6	2479.0	111.	3.53	610.0	27.4	
1953-54	88.9	2805.6	126.	3.99	504.0	22.6	0.0
1954-55	43.2	1364.4	61.	1.94	340.0	15.3	0.0
1955-56	117.6	3709.8	167.	5.28	571.0	25.6	0.0
1956-57	58.4	1842.0	83.	2.62	373.0	16.7	0.1
1957-58	104.6	3299.4	148.	4.70	569.0	25.5	0.0
1958-59	25.1	794.6	36.	1.13	196.0	8.8	0.0
1959-60	78.8	2487.8	112.	3.54	464.0	20.8	0.0
1960-61	----	----	----	----	468.0	21.0	0.0
1961-62	----	----	----	----	360.0	16.2	0.0
1962-63	----	----	----	----	-1.0	-1.0	0.0
1963-64	94.1	2967.6	133.	4.22	456.0	20.5	0.0
1964-65	91.1	2874.2	129.	4.09	594.0	26.7	0.0
1965-66	37.3	1178.8	53.	1.68	234.0	10.5	0.0
1966-67	53.8	1697.9	76.	2.42	261.0	11.7	0.0
1967-68	60.7	1915.7	86.	2.73	370.0	16.6	0.0
1968-69	81.2	2562.4	115.	3.65	342.0	15.4	0.0
1969-70	97.2	3068.0	138.	4.37	590.0	26.5	0.3
1970-71	85.0	2683.6	120.	3.82	633.0	28.4	0.0
1971-72	53.3	1682.1	76.	2.39	347.0	15.6	0.1
1972-73	48.9	1542.3	69.	2.20	311.0	14.0	0.0
1973-74	----	----	----	----	269.0	12.1	0.0

GAUGING STATION/STATION DE JAUGEAGE.... PRUSO
RIVER/COURS D EAU..... PRU
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1212.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1957-58	0.2	3.3	2.3	0.5	3.0	12.4	12.3	5.5	0.4	0.0	0.0	0.1	3.3
1958-59	0.3	2.1	0.1	0.0	0.1	1.4	0.2	0.4	0.0	-1.0	-1.0	0.1	-1.0
1959-60	2.1	0.4	4.1	0.3	0.2	3.6	1.5	0.3	0.0	0.0	0.0	0.0	1.0
1960-61	0.1	0.2	0.1	0.1	0.6	-1.0	-1.0	-1.0	0.0	0.0	0.0	0.1	-1.0
1961-62	0.1	0.4	1.8	0.2	-1.0	2.6	0.1	0.1	0.1	-1.0	0.1	0.1	-1.0
1962-63	0.9	5.5	4.0	0.2	0.1	0.7	2.2	0.1	0.0	0.0	0.1	0.1	1.1
1963-64	0.1	1.3	8.4	6.2	15.7	27.5	9.1	0.8	0.2	0.1	0.3	0.2	5.8
1964-65	0.0	1.2	4.0	0.0	1.0	4.0	0.5	0.0	0.0	0.1	0.1	0.8	1.0
1965-66	1.7	5.7	10.2	1.3	2.1	6.7	0.7	0.1	0.0	0.0	0.0	0.5	2.4
1966-67	0.5	6.0	20.8	9.5	2.8	10.8	1.8	0.6	0.3	0.0	0.0	0.3	4.4
1967-68	0.8	2.5	3.4	0.4	0.6	1.2	0.6	0.4	0.4	0.4	0.5	1.0	1.0
1968-69	0.7	5.2	13.7	23.2	29.0	18.8	13.9	4.6	1.4	0.6	0.7	1.8	9.4
1969-70	1.8	5.1	2.8	0.6	0.7	2.2	1.9	0.4	0.5	0.5	0.6	0.6	1.5
1970-71	0.6	1.1	1.3	0.4	0.8	10.0	1.2	0.5	0.4	0.4	0.5	0.6	1.5
1971-72	1.1	4.7	7.6	1.8	1.4	9.7	0.7	0.5	0.3	0.3	0.3	0.6	2.4
1972-73	3.7	12.1	7.4	4.2	2.4	13.4	2.9	0.5	0.4	0.4	0.4	0.5	4.0
1973-74	0.6	1.6	3.8	1.2	5.6	7.1	1.5	0.4	0.4	0.4	0.4	0.5	1.9
AVG/MOYEN	0.9	3.4	5.6	2.9	4.1	8.2	3.2	1.0	0.3	0.2	0.2	0.4	2.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... PRUSO
RIVER/COURS D EAU..... PRU
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1212.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1957-58	3.3	106.1	88.	2.78	26.0	21.5	0.0
1958-59	----	----	----	----	8.1	6.7	
1959-60	1.0	34.2	28.	0.90	6.6	5.4	0.0
1960-61	----	----	----	----	11.7	9.7	0.0
1961-62	----	----	----	----	11.0	9.1	0.1
1962-63	1.1	37.1	31.	0.97	12.1	10.0	0.0
1963-64	5.8	184.9	153.	4.84	47.3	39.0	0.1
1964-65	1.0	32.6	27.	0.85	11.3	9.3	0.1
1965-66	2.4	77.5	64.	2.03	13.4	11.1	0.0
1966-67	4.4	141.3	117.	3.70	28.6	23.6	0.0
1967-68	1.0	33.5	28.	0.88	14.1	11.6	0.4
1968-69	9.4	299.3	247.	7.83	34.4	28.4	0.6
1969-70	1.5	48.1	40.	1.26	11.3	9.3	0.5
1970-71	1.5	48.5	40.	1.27	20.3	16.7	0.2
1971-72	2.4	77.4	64.	2.03	20.3	16.7	0.3
1972-73	4.0	128.3	106.	3.36	24.4	20.1	0.4
1973-74	1.9	62.9	52.	1.65	16.8	13.9	0.4

GAUGING STATION/STATION DE JAUGEAGE.... SABARI
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 59550.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1959-60	-1.0	11.3	260.0	475.0	1990.0	-1.0	93.7	15.3	6.9	3.6	2.3	4.3	-1.0
1960-61	8.4	37.9	235.0	475.0	1860.0	2230.0	140.0	22.9	9.0	4.4	2.5	3.7	419.0
1961-62	9.0	48.5	361.0	481.0	1130.0	665.0	30.2	8.5	4.2	2.9	1.2	2.6	228.7
1962-63	10.8	160.0	362.0	1180.0	3220.0	2080.0	203.0	40.6	13.4	7.2	6.0	5.1	607.3
1963-64	21.7	12.7	593.0	1580.0	3150.0	1870.0	454.0	47.1	15.8	7.6	3.6	7.6	646.9
1964-65	6.3	17.5	88.6	619.0	1990.0	1420.0	135.0	38.5	23.6	14.4	9.6	9.8	364.3
1965-66	20.0	46.9	157.0	534.0	1250.0	467.0	61.0	9.1	3.6	2.2	1.1	0.8	212.7
1966-67	4.7	60.1	108.0	669.0	1350.0	1030.0	198.0	25.0	6.5	3.1	1.9	4.3	288.4
1967-68	5.4	34.7	-1.0	1210.0	1720.0	-1.0	-1.0	27.5	11.9	6.9	9.2	-1.0	-1.0
1968-69	35.2	216.0	894.0	1670.0	2020.0	1020.0	-1.0	32.0	16.8	10.9	5.9	16.7	-1.0
1969-70	21.8	24.9	283.0	693.0	2870.0	1810.0	443.0	62.8	20.1	11.1	5.7	2.8	520.6
1970-71	9.2	9.6	48.9	877.0	3110.0	2440.0	176.0	28.1	9.1	5.1	3.7	8.0	560.4
1971-72	7.9	18.9	305.0	1350.0	2500.0	-1.0	-1.0	-1.0	8.2	4.3	2.2	2.9	-1.0
1972-73	15.6	38.4	139.0	409.0	1450.0	-1.0	-1.0	5.2	2.7	0.9	0.1	0.0	-1.0
1973-74	0.6	7.5	30.2	860.0	1290.0	519.0	43.6	9.7	4.8	2.7	1.0	2.0	230.9
AVG/MOYEN	12.6	49.6	276.0	872.1	2060.0	1413.7	179.7	26.6	10.4	5.8	3.7	5.0	409.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SABARI
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 59550.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1959-60	----	----	----	----	-1.0	-1.0	1.4
1960-61	419.0	13216.3	222.	7.04	3260.0	54.7	1.9
1961-62	228.7	7212.3	121.	3.84	1840.0	30.9	0.9
1962-63	607.3	19153.5	322.	10.20	3760.0	63.1	3.3
1963-64	646.9	20401.7	343.	10.86	3470.0	58.3	3.0
1964-65	364.3	11490.8	193.	6.12	2530.0	42.5	6.8
1965-66	212.7	6708.9	113.	3.57	1570.0	26.4	0.5
1966-67	288.4	9095.1	153.	4.84	1680.0	28.2	1.4
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	----	----	----	----	2560.0	43.0	4.4
1969-70	520.6	16420.4	276.	8.74	3440.0	57.8	1.9
1970-71	560.4	17673.2	297.	9.41	3630.0	61.0	2.2
1971-72	----	----	----	----	2920.0	49.0	1.7
1972-73	----	----	----	----	1920.0	32.2	0.0
1973-74	230.9	7283.3	122.	3.88	1600.0	26.9	

GAUGING STATION/STATION DE JAUGEAGE.... SABOBA
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 50300.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	3.5	3.0	-1.0
1953-54	20.1	293.0	440.0	647.0	1980.0	1100.0	133.0	23.5	8.8	5.7	4.3	4.4	388.3
1954-55	18.7	96.6	93.4	168.0	689.0	700.0	106.0	24.4	7.0	5.1	3.7	3.4	159.6
1955-56	7.9	29.3	535.0	1540.0	2340.0	1360.0	-1.0	35.7	14.0	7.1	5.6	5.0	-1.0
1956-57	4.7	23.0	69.0	262.0	1000.0	820.0	83.5	14.1	5.8	4.0	3.1	8.0	191.4
1957-58	-1.0	-1.0	246.0	772.0	2350.0	1880.0	275.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	33.0	20.4	59.2	165.0	160.0	62.6	30.3	10.6	6.8	6.9	21.1	-1.0
1959-60	30.4	31.6	139.0	495.0	1590.0	1110.0	66.5	11.6	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	10.2	66.0	226.0	324.0	1390.0	1550.0	118.0	17.0	7.9	5.1	3.5	6.0	310.3
1961-62	13.5	49.8	299.0	-1.0	894.0	449.0	23.6	7.4	4.0	3.4	2.7	3.6	-1.0
1962-63	7.7	114.0	266.0	813.0	2600.0	1210.0	149.0	50.7	23.5	6.8	5.6	5.9	437.6
1963-64	11.3	8.9	494.0	1290.0	2370.0	1230.0	308.0	41.8	12.4	7.6	5.8	8.7	482.3
1964-65	10.7	17.2	98.6	552.0	1640.0	1210.0	101.0	18.1	10.9	-1.0	8.3	8.2	-1.0
1965-66	10.1	40.7	133.0	448.0	807.0	361.0	33.2	6.6	8.2	4.9	5.0	11.7	155.7
1966-67	-1.0	-1.0	72.8	512.0	926.0	802.0	163.0	31.9	8.3	5.3	4.3	-1.0	-1.0
1967-68	-1.0	24.5	131.0	762.0	1180.0	875.0	425.0	207.0	53.3	6.1	6.6	12.7	-1.0
1968-69	66.7	152.0	633.0	699.0	1310.0	669.0	128.0	-1.0	9.2	6.5	4.5	5.7	-1.0
1969-70	8.7	8.8	173.0	596.0	2130.0	1110.0	268.0	41.1	13.1	7.7	6.1	4.2	363.9
1970-71	9.0	7.3	49.5	709.0	2450.0	1430.0	88.7	16.2	8.0	6.1	5.0	7.3	398.8
1971-72	7.5	13.5	250.0	1040.0	1740.0	388.0	34.3	10.3	6.4	4.2	2.9	3.9	291.7
1972-73	14.2	28.8	128.0	328.0	988.0	574.0	60.8	10.9	7.2	4.6	2.9	2.8	179.1
1973-74	5.1	15.5	51.4	697.0	885.0	344.0	-1.0	7.2	4.8	3.3	-1.0	-1.0	-1.0
AVG/MOYEN	15.1	55.4	216.5	635.6	1496.3	920.5	138.2	31.8	11.7	5.6	4.7	7.0	294.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SABOBA
RIVER/COURS D EAU..... OTI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 50300.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	----	----	----	----	-1.0	-1.0	2.4
1953-54	388.3	12246.5	243.	7.72	2690.0	53.5	3.1
1954-55	159.6	5034.0	100.	3.17	1390.0	27.6	3.1
1955-56	----	----	----	----	2530.0	50.3	4.0
1956-57	191.4	6037.7	120.	3.81	1220.0	24.3	2.7
1957-58	----	----	----	----	3100.0	61.6	
1958-59	----	----	----	----	263.0	5.2	5.5
1959-60	----	----	----	----	2390.0	47.5	
1960-61	310.3	9786.0	195.	6.17	2730.0	54.3	
1961-62	----	----	----	----	-1.0	-1.0	0.3
1962-63	437.6	13802.9	274.	8.70	3060.0	60.8	
1963-64	482.3	15212.6	302.	9.59	2860.0	56.9	5.3
1964-65	----	----	----	----	2020.0	40.2	7.6
1965-66	155.7	4913.1	98.	3.10	1030.0	20.5	
1966-67	----	----	----	----	1210.0	24.1	
1967-68	----	----	----	----	1640.0	32.6	4.7
1968-69	----	----	----	----	1680.0	33.4	3.7
1969-70	363.9	11476.4	228.	7.23	2810.0	55.9	3.4
1970-71	398.8	12578.7	250.	7.93	3040.0	60.4	4.3
1971-72	291.7	9200.8	183.	5.80	2180.0	43.3	2.1
1972-73	179.1	5651.1	112.	3.56	1300.0	25.8	2.3
1973-74	----	----	----	----	1130.0	22.5	

GAUGING STATION/STATION DE JAUGEAGE.... TIELE
RIVER/COURS D EAU..... MAGOU
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 836.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	0.0	0.0	0.2	1.0	16.3	4.2	0.1	0.0	0.0	0.0	0.0	0.0	1.8
1962-63	0.0	0.0	1.5	18.4	38.7	21.3	0.7	0.2	0.0	0.0	0.0	0.0	6.7
1963-64	0.0	0.0	3.9	31.0	30.7	8.7	2.3	0.1	0.0	0.0	0.0	0.0	6.3
1964-65	0.0	1.5	1.3	36.3	49.9	30.7	8.6	0.7	0.1	0.0	0.0	0.0	10.7
1965-66	0.0	1.6	1.6	16.3	25.0	8.8	0.6	0.3	-1.0	0.0	0.0	0.0	-1.0
1966-67	0.1	0.2	0.6	4.4	16.4	26.9	1.2	0.2	0.2	0.0	0.0	0.0	4.1
1967-68	0.0	0.2	0.2	10.7	32.0	12.5	0.7	0.2	0.1	0.0	0.0	0.0	4.7
1968-69	0.0	0.2	8.4	24.1	26.1	19.0	0.9	0.3	0.1	0.0	0.0	0.0	6.5
1969-70	0.0	0.1	1.2	3.6	40.4	18.0	3.1	0.3	0.1	0.0	0.0	0.0	5.5
1970-71	0.0	0.1	0.1	2.6	45.3	9.4	0.3	0.1	0.0	0.0	0.0	0.0	4.8
1971-72	-1.0	-1.0	-1.0	18.9	30.5	5.3	0.2	-1.0	0.0	0.0	-1.0	-1.0	-1.0
1972-73	0.0	0.0	0.5	1.7	25.0	14.8	0.3	0.1	0.0	0.0	0.0	0.0	3.5
1973-74	0.0	0.1	0.1	6.3	27.4	5.6	0.1	0.0	0.0	0.0	0.0	0.0	3.2
AVG/MOYEN	0.0	0.3	1.6	13.4	31.0	14.2	1.4	0.2	0.0	0.0	0.0	0.0	5.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TIELE
RIVER/COURS D EAU..... MAGOU
COUNTRY/PAYS..... BENIN
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 836.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	1.8	57.2	69.	2.17	31.6	37.8	0.0
1962-63	6.7	212.3	254.	8.05	59.2	70.8	0.0
1963-64	6.3	201.5	241.	7.65	66.3	79.3	0.0
1964-65	10.7	339.2	406.	12.87	77.2	92.3	0.0
1965-66	----	----	----	----	44.8	53.6	0.0
1966-67	4.1	131.9	158.	5.00	47.9	57.3	
1967-68	4.7	148.7	178.	5.64	52.1	62.3	0.0
1968-69	6.5	207.8	249.	7.88	41.3	49.4	0.0
1969-70	5.5	175.5	210.	6.66	64.1	76.7	0.0
1970-71	4.8	152.1	182.	5.77	87.3	104.4	0.0
1971-72	----	----	----	----	48.2	57.7	0.0
1972-73	3.5	111.4	133.	4.23	40.5	48.4	0.0
1973-74	3.2	104.0	124.	3.95	46.3	55.4	0.0

GAUGING STATION/STATION DE JAUGEAGE.... TITIRA
RIVER/COURS D EAU..... KERAN
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3695.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.4	0.0	-1.0	-1.0	-1.0
1962-63	1.8	18.3	49.7	151.0	168.0	75.1	25.8	5.2	2.4	0.9	0.0	0.9	41.5
1963-64	1.7	2.1	77.3	256.0	266.0	164.0	44.3	12.8	4.2	1.3	0.5	1.8	69.3
1964-65	5.6	5.2	34.8	108.0	243.0	48.1	11.2	3.4	2.0	0.7	1.1	1.1	38.6
1965-66	6.3	11.4	27.5	95.4	108.0	27.3	4.7	1.4	0.6	0.2	0.3	0.6	23.6
1966-67	4.9	21.4	32.7	105.0	146.0	101.0	18.0	3.7	1.4	0.4	0.1	0.4	36.2
1967-68	5.0	5.6	62.7	227.0	149.0	86.6	13.7	6.7	2.1	0.7	0.2	0.7	46.6
1968-69	15.2	50.3	166.0	134.0	217.0	85.4	20.4	6.4	2.8	1.1	0.3	12.7	59.2
1969-70	1.8	2.5	46.0	-1.0	262.0	-1.0	-1.0	11.0	4.1	1.7	0.3	1.8	-1.0
1970-71	2.6	1.7	22.3	114.0	297.0	72.0	11.5	3.1	1.5	0.9	0.9	0.3	43.9
1971-72	1.6	2.4	91.8	213.0	177.0	45.2	7.5	2.7	1.0	0.3	0.4	1.7	45.3
1972-73	16.0	13.1	51.5	85.5	126.0	47.0	9.5	3.0	2.0	0.3	0.1	0.7	29.5
1973-74	1.8	2.9	14.6	114.0	165.0	63.9	8.5	1.5	0.5	0.2	0.1	0.1	31.0
AVG/MOYEN	5.3	11.4	56.4	145.7	193.6	74.1	15.9	5.0	1.9	0.6	0.3	1.8	42.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TITIRA
RIVER/COURS D EAU..... KERAN
COUNTRY/PAYS..... TOGO
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3695.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	41.5	1311.6	355.	11.26	490.0	132.6	0.0
1963-64	69.3	2186.4	592.	18.76	880.0	238.2	0.1
1964-65	38.6	1219.9	330.	10.47	925.0	250.3	0.2
1965-66	23.6	745.5	202.	6.40	279.0	75.5	0.1
1966-67	36.2	1143.1	309.	9.81	497.0	134.5	0.1
1967-68	46.6	1472.2	398.	12.63	1050.0	284.2	0.1
1968-69	59.2	1870.0	506.	16.05	532.0	144.0	0.2
1969-70	----	----	----	----	-1.0	-1.0	0.2
1970-71	43.9	1387.0	375.	11.90	862.0	233.3	0.2
1971-72	45.3	1431.2	387.	12.28	781.0	211.4	0.3
1972-73	29.5	932.1	252.	8.00	348.0	94.2	0.1
1973-74	31.0	980.5	265.	8.41	788.0	213.3	0.1

GAUGING STATION/STATION DE JAUGEAGE.... VENDI
RIVER/COURS D EAU..... DAKA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1214.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	1.8	0.0	0.0	-1.0	0.0	0.0	0.0	-1.0
1959-60	0.0	0.0	0.2	0.0	16.3	15.9	0.1	0.0	0.0	0.0	0.0	0.0	2.7
1960-61	0.0	0.0	0.7	1.4	41.7	31.6	0.0	0.0	0.0	0.0	0.0	0.0	6.2
1961-62	0.5	0.0	2.7	0.8	7.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
1962-63	0.0	0.1	0.5	34.4	79.9	-1.0	28.3	0.0	0.0	0.0	0.0	0.0	-1.0
1963-64	0.0	0.0	8.8	44.0	86.5	34.1	2.8	0.0	0.0	0.0	0.0	0.0	14.6
1964-65	0.0	0.1	0.0	0.9	9.3	9.6	0.0	0.0	0.0	0.0	0.0	0.2	1.6
1965-66	0.2	24.5	20.0	36.9	80.4	28.9	8.9	0.1	0.0	0.0	0.0	0.0	16.6
1966-67	0.0	0.0	0.0	2.6	-1.0	21.5	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	12.8	38.7	39.6	27.8	0.9	0.0	0.0	0.0	0.0	0.0	-1.0
1968-69	-1.0	-1.0	11.9	75.1	69.5	22.5	4.4	-1.0	0.1	0.0	0.0	0.0	-1.0
1969-70	0.0	0.0	0.0	9.8	79.9	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	0.0	-1.0
1970-71	0.2	0.5	0.1	7.8	110.0	-1.0	0.5	0.0	0.0	0.0	0.0	0.0	-1.0
1971-72	0.3	-1.0	8.2	48.0	67.8	8.3	-1.0	-1.0	-1.0	0.0	0.0	0.0	-1.0
1972-73	10.3	23.4	27.7	32.2	87.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	-1.0
1973-74	0.0	0.0	0.1	27.7	49.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.9	4.0	6.2	24.0	58.9	18.7	4.1	0.0	0.0	0.0	0.0	0.0	9.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... VENDI
RIVER/COURS D EAU..... DAKA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1214.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1958-59	----	----	----	----	60.1	49.5	0.0
1959-60	2.7	85.7	71.	2.24	91.6	75.5	0.0
1960-61	6.2	198.3	163.	5.18	26.9	22.2	0.0
1961-62	1.3	41.8	34.	1.09	26.9	22.2	0.0
1962-63	----	----	----	----	-1.0	-1.0	0.0
1963-64	14.6	463.3	382.	12.10	-1.0	-1.0	0.0
1964-65	1.6	53.4	44.	1.40	32.7	26.9	0.0
1965-66	16.6	525.6	433.	13.73	107.0	88.1	0.0
1966-67	----	----	----	----	-1.0	-1.0	0.0
1967-68	----	----	----	----	102.0	84.0	0.0
1968-69	----	----	----	----	126.0	103.8	0.0
1969-70	----	----	----	----	134.0	110.4	0.0
1970-71	----	----	----	----	154.0	126.9	0.0
1971-72	----	----	----	----	108.0	89.0	0.0
1972-73	----	----	----	----	129.0	106.3	0.0
1973-74	----	----	----	----	66.1	54.4	0.0

GAUGING STATION/STATION DE JAUGEAGE.... YEJI
RIVER/COURS D EAU..... VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 260330.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	61.7	43.3	297.0	738.0	2750.0	3640.0	2460.0	236.0	97.0	45.6	26.1	25.1	868.3
1952-53	40.2	56.4	236.0	530.0	2370.0	4120.0	784.0	163.0	96.8	58.7	43.9	24.3	710.2
1953-54	39.9	398.0	732.0	1300.0	2280.0	2020.0	221.0	76.8	37.9	22.2	21.8	25.0	597.8
1954-55	44.4	112.0	132.0	466.0	1960.0	1830.0	389.0	121.0	73.7	43.5	35.0	35.6	436.8
1955-56	39.9	91.2	375.0	1380.0	3140.0	3760.0	762.0	142.0	83.5	51.1	42.6	33.8	825.0
1956-57	49.3	106.0	153.0	269.0	1640.0	1920.0	190.0	87.9	48.2	26.9	19.4	30.6	378.3
1957-58	118.0	602.0	804.0	1140.0	2780.0	3470.0	986.0	201.0	88.9	46.9	33.5	49.5	859.9
1958-59	50.5	78.4	72.5	265.0	1110.0	644.0	145.0	94.6	69.0	22.2	8.5	8.2	213.9
1959-60	27.0	47.2	180.0	-1.0	1820.0	1510.0	153.0	63.8	27.2	15.7	16.9	19.5	-1.0
1960-61	40.3	99.5	230.0	835.0	1970.0	2630.0	200.0	74.5	33.0	16.7	15.0	27.0	514.2
1961-62	47.8	111.0	432.0	749.0	1350.0	1210.0	148.0	68.1	36.7	20.5	12.8	18.5	350.3
1962-63	77.2	207.0	475.0	795.0	2820.0	2700.0	437.0	135.0	98.6	39.2	34.6	23.0	653.4
1963-64	123.0	144.0	849.0	2780.0	6040.0	4690.0	1580.0	233.0	106.0	80.5	57.8	72.6	1396.3
1964-65	74.4	191.0	284.0	692.0	2650.0	2610.0	452.0	150.0	100.0	70.2	46.0	37.2	613.0
1965-66	63.2	289.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	59.7	171.7	375.1	918.3	2477.1	2625.2	636.2	131.9	71.1	39.9	29.5	30.7	630.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... YEJI
RIVER/COURS D EAU..... VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 260330.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	868.3	27383.2	105.	3.34	-1.0	-1.0	17.5
1952-53	710.2	22399.2	86.	2.73	4580.0	17.6	20.9
1953-54	597.8	18854.8	72.	2.30	3440.0	13.2	
1954-55	436.8	13776.5	53.	1.68	2460.0	9.4	
1955-56	825.0	26020.0	100.	3.17	4600.0	17.7	26.6
1956-57	378.3	11931.9	46.	1.45	3030.0	11.6	17.5
1957-58	859.9	27120.4	104.	3.30	4080.0	15.7	29.7
1958-59	213.9	6748.7	26.	0.82	1460.0	5.6	3.6
1959-60	----	----	----	----	2950.0	11.3	
1960-61	514.2	16217.3	62.	1.98	4120.0	15.8	
1961-62	350.3	11049.1	42.	1.35	2580.0	9.9	5.1
1962-63	653.4	20607.7	79.	2.51	3900.0	15.0	22.8
1963-64	1396.3	44034.5	169.	5.36	6720.0	25.8	50.0
1964-65	613.0	19333.6	74.	2.35	3770.0	14.5	
1965-66	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... DABOYA
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 96320.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	4.7	40.9	80.7	394.0	1440.0	956.0	61.4	22.7	11.2	5.0	9.9	2.6	252.4
1963-64	18.9	12.7	184.0	962.0	1870.0	637.0	154.0	22.0	8.9	5.2	3.0	2.6	323.3
1964-65	5.2	17.1	51.0	368.0	1040.0	785.0	42.3	15.3	8.0	6.3	3.1	3.0	195.3
1965-66	-1.0	26.7	158.0	573.0	1110.0	397.0	35.7	13.5	7.4	4.4	3.3	3.5	-1.0
1966-67	19.8	41.4	46.1	419.0	979.0	435.0	39.8	9.8	5.5	3.4	1.9	1.6	166.8
1967-68	1.7	5.6	25.8	437.0	1440.0	921.0	57.7	18.1	8.5	6.6	7.5	6.9	244.7
1968-69	20.1	122.0	-1.0	893.0	1050.0	364.0	41.6	11.3	7.3	4.6	2.8	4.5	-1.0
1969-70	6.4	9.7	127.0	357.0	-1.0	751.0	-1.0	-1.0	9.9	6.7	5.7	3.9	-1.0
1970-71	7.7	12.5	37.8	498.0	1550.0	868.0	83.0	16.5	8.2	6.1	4.7	5.6	258.1
1971-72	6.1	14.7	69.2	442.0	1650.0	598.0	30.2	11.6	7.5	5.0	3.8	5.3	236.9
1972-73	11.0	19.4	64.0	143.0	245.0	83.6	16.6	5.7	3.5	2.2	1.2	1.4	49.7
1973-74	2.7	24.6	47.1	637.0	648.0	80.2	13.5	6.4	4.4	3.4	2.0	2.5	122.6
AVG/MOYEN	9.4	28.9	80.9	510.2	1183.8	572.9	52.3	13.9	7.5	4.9	4.1	3.6	206.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DABOYA
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 96320.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	252.4	7960.9	83.	2.62	1990.0	20.7	1.3
1963-64	323.3	10198.0	106.	3.36	2270.0	23.6	1.3
1964-65	195.3	6161.1	64.	2.03	1460.0	15.2	
1965-66	----	----	----	----	1230.0	12.8	
1966-67	166.8	5262.4	55.	1.73	1340.0	13.9	1.6
1967-68	244.7	7717.5	80.	2.54	1940.0	20.1	3.4
1968-69	----	----	----	----	1220.0	12.7	2.3
1969-70	----	----	----	----	-1.0	-1.0	3.7
1970-71	258.1	8142.3	85.	2.68	2140.0	22.2	4.1
1971-72	236.9	7472.9	78.	2.46	1970.0	20.5	3.0
1972-73	49.7	1568.4	16.	0.52	305.0	3.2	0.7
1973-74	122.6	3868.3	40.	1.27	1030.0	10.7	

GAUGING STATION/STATION DE JAUGEAGE.... LUMBILA
RIVER/COURS D EAU..... MASSILI
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTABLANCHE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2120.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1956-57	0.0	1.4	1.7	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1957-58	1.4	0.3	1.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
1958-59	0.0	0.5	0.6	19.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
1959-60	0.0	0.0	0.1	14.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
1960-61	0.1	0.5	3.7	7.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
1961-62	0.0	0.0	0.6	5.5	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
1962-63	0.5	1.3	0.3	6.4	10.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6
1963-64	0.0	0.2	1.2	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3
1964-65	0.0	1.2	2.6	9.1	22.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	3.1
1965-66	0.0	0.1	0.6	4.5	9.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2
1966-67	0.0	1.3	0.4	2.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1967-68	0.0	0.4	1.3	20.5	6.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4
1968-69	0.3	0.0	2.1	0.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
1969-70	0.0	0.3	1.6	3.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
AVG/MOYEN	0.1	0.5	1.3	6.9	7.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... LUMBILA
RIVER/COURS D EAU..... MASSILI
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTABLANCHE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 2120.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1956-57	0.7	23.4	11.	0.35	19.0	9.0	0.0
1957-58	0.3	10.8	5.	0.16	8.6	4.1	0.0
1958-59	1.9	60.5	29.	0.91	100.0	47.2	0.0
1959-60	1.3	41.6	20.	0.62	45.6	21.5	0.0
1960-61	1.3	42.7	20.	0.64	21.7	10.2	0.0
1961-62	3.2	101.7	48.	1.52	169.0	79.7	0.0
1962-63	1.6	53.1	25.	0.79	33.3	15.7	0.0
1963-64	0.3	9.7	5.	0.15	7.6	3.6	0.0
1964-65	3.1	99.6	47.	1.49	93.4	44.1	0.0
1965-66	1.2	39.4	19.	0.59	37.7	17.8	0.0
1966-67	0.5	17.0	8.	0.26	6.3	3.0	0.0
1967-68	2.4	76.2	36.	1.14	161.0	75.9	0.0
1968-69	0.4	15.2	7.	0.23	10.5	5.0	0.0
1969-70	0.8	26.9	13.	0.40	23.1	10.9	0.0

GAUGING STATION/STATION DE JAUGEAGE.... NABOGO
RIVER/COURS D EAU..... NABOGO
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1950.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1962-63	0.2	6.2	9.2	42.5	166.0	-1.0	3.1	0.0	0.0	0.0	0.0	0.1	-1.0
1963-64	1.3	0.0	8.4	16.6	107.0	151.0	16.1	0.1	0.0	0.0	0.0	-1.0	-1.0
1964-65	-1.0	-1.0	-1.0	3.5	75.4	49.2	0.4	0.0	0.0	0.0	0.0	0.0	-1.0
1965-66	0.2	1.5	7.2	16.8	95.7	37.8	0.3	0.0	0.0	0.0	0.0	0.0	13.3
1966-67	0.0	0.2	0.2	7.0	43.8	41.8	1.5	0.0	0.0	0.0	0.0	0.0	7.9
1967-68	0.0	0.1	1.0	32.7	110.0	45.3	0.5	0.0	0.0	0.0	0.0	0.0	15.8
1968-69	0.2	3.1	17.6	80.5	112.0	42.7	1.5	0.0	0.0	0.0	0.0	0.3	21.5
1969-70	0.2	0.3	6.2	36.6	166.0	63.5	10.8	0.1	0.0	0.0	0.0	0.0	23.6
1970-71	0.0	0.0	0.1	25.8	160.0	32.7	0.1	0.0	0.0	0.0	0.0	0.0	18.2
1971-72	0.2	0.1	3.8	31.2	157.0	28.6	0.3	0.0	0.0	0.0	0.0	0.0	18.4
1972-73	0.5	0.4	4.6	3.5	54.1	5.7	0.1	0.0	0.0	0.0	0.0	0.0	5.7
1973-74	0.0	0.0	1.9	18.7	25.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5
AVG/MOYEN	0.2	1.1	5.5	26.2	106.0	46.0	2.9	0.0	0.0	0.0	0.0	0.0	15.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NABOGO
RIVER/COURS D EAU..... NABOGO
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1950.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1962-63	----	----	----	----	182.0	93.3	0.0
1963-64	----	----	----	----	179.0	91.8	0.0
1964-65	----	----	----	----	140.0	71.8	0.0
1965-66	13.3	419.6	215.	6.82	136.0	69.7	0.0
1966-67	7.9	249.3	128.	4.05	94.8	48.6	0.0
1967-68	15.8	498.6	256.	8.11	166.0	85.1	0.0
1968-69	21.5	678.3	348.	11.03	138.0	70.8	0.0
1969-70	23.6	746.1	383.	12.13	205.0	105.1	0.0
1970-71	18.2	575.2	295.	9.35	185.0	94.9	0.0
1971-72	18.4	581.6	298.	9.46	202.0	103.6	0.0
1972-73	5.7	181.8	93.	2.96	103.0	52.8	0.0
1973-74	4.5	142.9	73.	2.32	43.4	22.3	0.0

GAUGING STATION/STATION DE JAUGEAGE.... NAKPANDURI
RIVER/COURS D EAU..... MORAGO
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1530.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1958-59	-1.0	-1.0	2.1	20.8	35.1	8.5	2.5	1.8	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	13.9	6.0	29.3	58.4	12.2	1.4	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	0.0	4.7	2.0	16.0	32.4	12.0	2.0	0.0	0.0	0.0	0.0	0.0	5.7
1961-62	-1.0	2.7	12.5	21.5	30.8	1.8	-1.0	0.2	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	0.4	2.7	22.8	61.2	14.3	2.8	0.5	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	0.4	1.8	23.6	35.0	32.0	22.8	3.9	0.7	0.0	0.0	0.0	0.0	10.0
1964-65	-1.0	0.1	5.9	30.2	63.9	9.4	2.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	1.0	7.5	2.1	8.8	14.3	3.6	0.1	0.0	0.0	0.0	0.0	0.0	3.1
1966-67	5.6	3.1	3.9	27.0	17.6	10.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	-1.0	37.7	26.0	7.4	2.4	0.3	0.0	0.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	-1.0	14.4	47.2	-1.0	-1.0	0.4	0.0	0.0	0.0	0.0	-1.0
1970-71	0.0	0.5	1.0	18.0	63.6	11.9	2.2	0.5	0.0	0.0	0.0	0.8	8.2
1971-72	0.8	0.6	3.3	35.2	28.3	5.8	0.7	0.0	0.0	0.0	0.0	0.0	6.2
1972-73	0.0	3.8	1.4	4.7	12.8	4.8	0.1	0.0	0.0	0.0	0.0	0.0	2.3
1973-74	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	1.5	0.0	0.0	0.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.9	3.5	5.5	22.9	37.3	9.6	1.9	0.3	0.0	0.0	0.0	0.1	6.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NAKPANDURI
RIVER/COURS D EAU..... MORAGO
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 1530.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1958-59	----	----	----	----	78.4	51.2	0.0
1959-60	----	----	----	----	151.0	98.7	0.0
1960-61	5.7	182.1	119.	3.77	63.8	41.7	0.0
1961-62	----	----	----	----	96.0	62.7	0.0
1962-63	----	----	----	----	135.0	88.2	0.0
1963-64	10.0	316.3	207.	6.56	93.4	61.0	0.0
1964-65	----	----	----	----	166.0	108.5	0.0
1965-66	3.1	98.7	65.	2.05	35.8	23.4	0.0
1966-67	----	----	----	----	65.7	42.9	
1967-68	----	----	----	----	-1.0	-1.0	
1968-69	----	----	----	----	168.0	109.8	0.0
1969-70	----	----	----	----	134.0	87.6	0.0
1970-71	8.2	259.3	169.	5.37	117.0	76.5	0.0
1971-72	6.2	197.0	129.	4.08	118.0	77.1	0.0
1972-73	2.3	72.9	48.	1.51	26.6	17.4	0.0
1973-74	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... NANGODI
RIVER/COURS D EAU..... VOLTA ROUGE
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 11570.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1958-59	-1.0	-1.0	7.9	65.5	146.0	28.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	10.2	124.0	167.0	11.7	0.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	1.0	4.9	19.5	98.0	126.0	22.6	0.6	0.0	0.0	0.0	0.0	0.0	22.7
1961-62	3.0	21.7	18.8	72.8	140.0	13.7	0.3	0.0	0.0	0.0	0.0	0.0	22.5
1962-63	4.0	23.6	16.3	76.9	280.0	77.1	11.8	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	1.0	7.3	89.3	174.0	139.0	30.6	0.5	0.0	0.0	0.0	0.0	0.0	36.8
1964-65	-1.0	3.0	21.0	125.0	301.0	57.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	-1.0	-1.0	12.4	117.0	39.1	13.0	0.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	13.1	11.9	-1.0	-1.0	23.6	1.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	10.6	97.2	132.0	18.3	0.4	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	11.0	30.2	53.3	33.4	19.8	8.5	0.8	1.8	0.0	0.0	0.0	0.0	13.2
1969-70	0.8	-1.0	-1.0	84.1	220.0	30.3	1.8	0.1	0.0	0.0	0.0	0.0	-1.0
1970-71	0.0	5.6	12.6	-1.0	148.0	9.7	0.4	0.0	0.0	0.0	0.0	0.0	-1.0
1971-72	0.1	0.3	17.0	81.8	101.0	7.0	0.1	0.0	0.0	0.0	0.0	0.0	17.2
1972-73	0.0	7.1	20.5	28.1	19.0	3.9	0.1	0.0	0.0	0.0	0.0	1.8	6.7
1973-74	0.0	7.5	-1.0	129.0	40.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
AVG/MOYEN	2.0	11.2	22.9	93.3	134.5	22.3	1.4	0.1	0.0	0.0	0.0	0.2	24.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NANGODI
RIVER/COURS D EAU..... VOLTA ROUGE
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 11570.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1958-59	----	----	----	----	376.0	32.5	
1959-60	----	----	----	----	309.0	26.7	
1960-61	22.7	716.3	62.	1.96	-1.0	-1.0	0.0
1961-62	22.5	710.3	61.	1.95	393.0	34.0	0.0
1962-63	----	----	----	----	474.0	41.0	
1963-64	36.8	1160.7	100.	3.18	403.0	34.8	0.0
1964-65	----	----	----	----	521.0	45.0	
1965-66	----	----	----	----	223.0	19.3	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	230.0	19.9	
1968-69	13.2	417.3	36.	1.14	212.0	18.3	0.0
1969-70	----	----	----	----	364.0	31.5	0.0
1970-71	----	----	----	----	-1.0	-1.0	0.0
1971-72	17.2	544.7	47.	1.49	194.0	16.8	0.0
1972-73	6.7	211.5	18.	0.58	56.4	4.9	0.0
1973-74	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... NASIA
RIVER/COURS D EAU..... NASIA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5175.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	0.0	15.7	-1.0	-1.0	-1.0	-1.0	9.2	6.5	4.5	1.7	0.3	0.1	-1.0
1954-55	0.1	0.2	0.6	6.9	64.7	162.0	33.3	6.4	-1.0	-1.0	-1.0	-1.0	-1.0
1955-56	-1.0	2.0	10.4	-1.0	277.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1957-58	-1.0	-1.0	-1.0	31.5	167.0	306.0	49.7	2.7	-1.0	-1.0	-1.0	0.0	-1.0
1958-59	0.0	0.8	1.7	7.0	36.2	-1.0	-1.0	1.0	0.0	-1.0	-1.0	-1.0	-1.0
1959-60	1.2	0.0	7.6	9.6	82.1	104.0	1.2	0.0	0.0	0.0	0.0	0.0	17.1
1960-61	-1.0	-1.0	0.0	23.8	133.0	225.0	45.0	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	0.0	0.0	24.1	250.0	171.0	176.0	4.3	1.5	0.0	0.0	0.0	0.0	52.2
1962-63	0.6	0.5	3.1	53.2	154.0	132.0	28.9	7.8	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	-1.0	-1.0	51.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	0.0	0.4	3.0	22.8	122.0	128.0	29.4	19.0	3.2	1.3	0.6	0.0	27.4
1966-67	-1.0	-1.0	-1.0	-1.0	55.6	94.8	10.6	4.1	2.3	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	-1.0	-1.0	231.0	28.2	7.8	5.6	3.4	1.9	1.8	-1.0
1968-69	0.8	0.5	-1.0	-1.0	142.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.8	1.2	-1.0
1969-70	2.8	1.3	1.7	19.5	131.0	212.0	18.6	6.2	3.5	0.8	0.8	0.0	33.2
1970-71	0.0	0.0	1.2	23.9	185.0	342.0	21.0	6.9	4.0	2.4	1.3	0.1	49.0
1971-72	1.7	1.2	0.2	20.8	112.0	125.0	7.4	4.5	2.4	0.9	0.0	0.0	23.0
1972-73	0.0	0.2	0.7	8.0	58.9	90.8	12.4	3.6	1.3	0.2	0.0	0.0	14.6
1973-74	0.0	0.0	0.0	34.3	50.6	-1.0	4.5	2.0	0.2	0.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.5	1.6	4.2	39.3	117.2	179.1	20.2	5.0	2.2	1.0	0.6	0.3	30.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NASIA
RIVER/COURS D EAU..... NASIA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 5175.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	----	----	----	----	-1.0	-1.0	0.0
1954-55	----	----	----	----	-1.0	-1.0	
1955-56	----	----	----	----	-1.0	-1.0	
1956-57	----	----	----	----	-1.0	-1.0	
1957-58	----	----	----	----	396.0	76.5	0.0
1958-59	----	----	----	----	-1.0	-1.0	
1959-60	17.1	541.0	105.	3.32	261.0	50.4	0.0
1960-61	----	----	----	----	353.0	68.2	0.0
1961-62	52.2	1647.7	318.	10.10	410.0	79.2	0.0
1962-63	----	----	----	----	276.0	53.3	0.0
1963-64	----	----	----	----	256.0	49.5	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	27.4	867.0	168.	5.31	256.0	49.5	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	377.0	72.9	0.8
1968-69	----	----	----	----	-1.0	-1.0	
1969-70	33.2	1047.1	202.	6.42	353.0	68.2	0.0
1970-71	49.0	1545.5	299.	9.47	517.0	99.9	0.0
1971-72	23.0	726.6	140.	4.45	280.0	54.1	0.0
1972-73	14.6	463.4	90.	2.84	-1.0	-1.0	0.0
1973-74	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... NAWUNI
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 92950.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	24.8	543.0	431.0	979.0	1420.0	696.0	103.0	16.8	6.4	3.4	1.8	1.1	352.2
1954-55	25.4	108.0	130.0	403.0	1290.0	825.0	85.4	12.7	4.8	2.5	1.9	1.6	240.8
1955-56	2.5	33.2	176.0	882.0	1420.0	1270.0	118.0	25.1	8.1	4.7	2.9	2.3	328.7
1956-57	6.6	-1.0	-1.0	260.0	1400.0	728.0	398.0	11.9	4.3	2.4	1.3	2.2	-1.0
1957-58	66.3	255.0	339.0	585.0	1600.0	973.0	123.0	23.2	7.4	4.6	-1.0	2.4	-1.0
1958-59	4.3	46.5	35.9	299.0	979.0	-1.0	-1.0	8.3	5.9	3.3	2.0	3.2	-1.0
1959-60	2.7	62.9	110.0	449.0	1390.0	615.0	36.2	11.8	6.2	3.8	2.0	1.2	224.2
1960-61	3.3	44.4	106.0	501.0	1370.0	899.0	65.8	23.4	8.0	3.6	5.0	3.4	252.7
1961-62	12.1	43.4	237.0	773.0	1220.0	518.0	37.9	15.6	7.8	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	69.6	151.0	584.0	1820.0	906.0	95.6	24.8	12.7	7.8	12.7	11.4	-1.0
1963-64	30.9	23.6	293.0	1260.0	1900.0	766.0	182.0	25.6	11.5	7.9	5.7	4.5	375.9
1964-65	4.3	14.3	107.0	567.0	1380.0	783.0	52.3	13.2	6.2	5.4	3.7	3.3	244.9
1965-66	6.2	33.9	183.0	718.0	1140.0	411.0	22.4	6.8	5.6	4.3	3.4	2.5	211.4
1966-67	31.0	96.2	85.3	-1.0	1040.0	502.0	53.2	11.0	6.1	4.1	2.7	2.8	-1.0
1967-68	3.7	8.1	43.0	567.0	1580.0	808.0	69.8	12.5	5.3	2.0	2.7	3.2	258.7
1968-69	29.6	176.0	424.0	1020.0	1120.0	361.0	-1.0	-1.0	-1.0	-1.0	2.0	2.5	-1.0
1969-70	6.6	7.7	185.0	492.0	1820.0	749.0	90.5	9.8	3.8	11.1	6.1	6.4	282.3
1970-71	13.9	9.9	65.8	634.0	1700.0	609.0	37.7	10.2	6.0	4.2	3.0	3.2	258.0
1971-72	3.8	16.7	95.5	533.0	1710.0	477.0	29.3	8.1	5.2	4.7	3.7	8.6	241.3
1972-73	11.7	24.9	99.6	213.0	321.0	123.0	20.7	6.2	3.8	2.6	3.1	3.5	69.4
1973-74	6.1	50.3	77.8	822.0	735.0	-1.0	16.6	7.2	5.6	4.4	-1.0	-1.0	-1.0
AVG/MOYEN	14.8	83.3	168.7	627.0	1350.2	685.2	86.1	14.2	6.5	4.6	3.6	3.6	254.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... NAWUNI
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 92950.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	352.2	11107.2	119.	3.79	-1.0	-1.0	0.8
1954-55	240.8	7596.1	82.	2.59	1600.0	17.2	1.2
1955-56	328.7	10367.2	112.	3.54	2000.0	21.5	1.5
1956-57	----	----	----	----	1730.0	18.6	0.8
1957-58	----	----	----	----	1920.0	20.7	1.2
1958-59	----	----	----	----	1220.0	13.1	1.5
1959-60	224.2	7072.2	76.	2.41	1670.0	18.0	0.0
1960-61	252.7	7971.5	86.	2.72	2040.0	21.9	2.5
1961-62	----	----	----	----	1930.0	20.8	
1962-63	----	----	----	----	2040.0	21.9	6.7
1963-64	375.9	11854.4	128.	4.04	2190.0	23.6	4.1
1964-65	244.9	7726.0	83.	2.64	1810.0	19.5	2.9
1965-66	211.4	6668.3	72.	2.27	1340.0	14.4	2.2
1966-67	----	----	----	----	1450.0	15.6	2.2
1967-68	258.7	8161.0	88.	2.78	1870.0	20.1	1.2
1968-69	----	----	----	----	1510.0	16.2	
1969-70	282.3	8904.3	96.	3.04	2120.0	22.8	1.8
1970-71	258.0	8139.2	88.	2.78	2020.0	21.7	2.5
1971-72	241.3	7610.3	82.	2.60	1890.0	20.3	3.3
1972-73	69.4	2190.0	24.	0.75	389.0	4.2	2.3
1973-74	----	----	----	----	1200.0	12.9	

GAUGING STATION/STATION DE JAUGEAGE.... PWALAGU
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 63350.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	2.4	11.0	26.7	455.0	560.0	341.0	41.5	5.3	0.0	0.0	0.0	0.0	120.2
1952-53	3.2	20.6	60.9	292.0	860.0	274.0	9.8	1.6	0.0	0.0	0.0	0.0	126.8
1953-54	33.5	169.0	93.5	235.0	462.0	82.9	8.6	0.0	0.0	0.0	0.0	0.0	90.3
1954-55	6.6	48.7	68.0	195.0	339.0	63.6	11.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1955-56	-1.0	30.6	208.0	439.0	709.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	-1.0	57.8	99.2	346.0	-1.0	214.0	5.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	25.5	24.9	490.0	792.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	30.1	57.7	594.0	829.0	84.1	8.0	1.6	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	5.2	29.9	70.5	341.0	639.0	114.0	8.1	2.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	-1.0	206.0	193.0	355.0	1380.0	209.0	27.1	2.9	-1.0	-1.0	0.0	0.0	-1.0
1962-63	9.7	58.6	97.3	537.0	1320.0	229.0	27.4	8.8	2.7	1.0	0.6	11.9	192.0
1963-64	65.4	20.9	181.0	468.0	492.0	132.0	28.1	3.9	1.4	0.0	0.0	0.0	116.0
1964-65	0.0	1.8	149.0	673.0	1210.0	178.0	17.3	2.6	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	3.6	31.4	59.0	313.0	283.0	77.0	12.0	1.7	0.9	0.0	0.0	7.2	65.7
1966-67	34.4	53.3	46.6	233.0	263.0	105.0	7.4	2.1	0.2	0.0	0.0	1.2	62.1
1967-68	2.5	7.9	56.7	586.0	962.0	158.0	16.6	5.4	1.9	0.8	9.8	5.0	151.0
1968-69	42.8	179.0	384.0	215.0	216.0	42.8	8.9	3.8	1.3	0.7	0.3	3.9	91.5
1969-70	12.8	10.7	130.0	392.0	1070.0	112.0	27.1	13.4	2.9	1.7	1.4	1.0	147.9
1970-71	7.4	21.3	64.0	616.0	832.0	99.4	15.6	-1.0	-1.0	3.0	2.0	2.7	-1.0
1971-72	13.7	18.3	113.0	405.0	618.0	78.9	13.0	5.2	2.8	1.5	0.0	12.7	106.8
1972-73	15.9	33.0	98.4	213.0	158.0	33.2	4.5	0.3	0.0	0.0	0.0	2.0	46.5
1973-74	10.7	-1.0	136.0	750.0	230.0	24.8	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	15.8	50.7	109.8	415.5	677.3	132.6	15.6	3.8	1.2	0.6	1.0	3.4	118.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... PWALAGU
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 63350.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	120.2	3792.0	60.	1.90	1100.0	17.4	0.0
1952-53	126.8	4000.2	63.	2.00	1190.0	18.8	0.0
1953-54	90.3	2850.3	45.	1.43	830.0	13.1	0.0
1954-55	----	----	----	----	748.0	11.8	
1955-56	----	----	----	----	1100.0	17.4	
1956-57	----	----	----	----	1020.0	16.1	0.0
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	----	----	----	----	1620.0	25.6	
1959-60	----	----	----	----	1280.0	20.2	
1960-61	----	----	----	----	1170.0	18.5	
1961-62	----	----	----	----	1820.0	28.7	
1962-63	192.0	6055.5	96.	3.03	2010.0	31.7	0.0
1963-64	116.0	3660.1	58.	1.83	1060.0	16.7	0.0
1964-65	----	----	----	----	1690.0	26.7	0.0
1965-66	65.7	2073.4	33.	1.04	669.0	10.6	0.0
1966-67	62.1	1961.5	31.	0.98	665.0	10.5	0.0
1967-68	151.0	4764.2	75.	2.38	1400.0	22.1	0.1
1968-69	91.5	2887.8	46.	1.45	936.0	14.8	0.0
1969-70	147.9	4665.3	74.	2.34	1870.0	29.5	1.0
1970-71	----	----	----	----	1400.0	22.1	1.9
1971-72	106.8	3369.8	53.	1.69	924.0	14.6	0.0
1972-73	46.5	1467.4	23.	0.73	423.0	6.7	0.0
1973-74	----	----	----	----	1230.0	19.4	

GAUGING STATION/STATION DE JAUGEAGE.... WAYEN
RIVER/COURS D EAU..... VOLTABLANCHE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA BLANCH
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20800.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	0.2	1.7	5.2	9.9	20.7	11.6	0.6	0.4	0.0	0.0	0.0	0.0	4.1
1956-57	-1.0	-1.0	1.7	37.2	96.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	0.2	0.5	1.2	21.0	76.8	25.1	4.7	0.5	0.0	0.0	0.0	0.0	10.8
1966-67	0.1	2.6	1.4	4.0	18.6	1.6	0.2	0.0	0.0	0.0	0.0	0.0	2.3
1967-68	-1.0	-1.0	-1.0	39.4	32.0	12.4	0.3	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	0.4	1.5	4.3	10.4	7.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0
1969-70	0.0	0.2	3.2	13.0	19.0	4.1	0.5	0.8	0.0	0.0	0.0	0.0	3.3
1970-71	0.0	0.0	3.7	23.3	9.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
1971-72	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972-73	-1.0	-1.0	-1.0	9.1	7.0	1.3	0.2	0.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	0.0	0.6	-1.0	40.9	14.9	6.2	0.4	0.0	0.0	0.0	0.0	0.0	-1.0
1974-75	0.7	1.6	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	0.2	1.0	2.9	20.8	30.3	7.0	0.7	0.1	0.0	0.0	0.0	0.0	5.2

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... WAYEN
RIVER/COURS D EAU..... VOLTABLANCHE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTA BLANCH
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20800.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	4.1	132.1	6.	0.20	49.8	2.4	
1956-57	----	----	----	----	221.0	10.6	
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	----	----	----	----	-1.0	-1.0	
1959-60	----	----	----	----	-1.0	-1.0	
1960-61	----	----	----	----	-1.0	-1.0	
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	-1.0	-1.0	
1965-66	10.8	341.6	16.	0.52	165.0	7.9	0.0
1966-67	2.3	74.8	4.	0.11	34.8	1.7	0.0
1967-68	----	----	----	----	38.7	1.9	0.0
1968-69	2.0	64.6	3.	0.10	13.2	0.6	0.0
1969-70	3.3	107.2	5.	0.16	37.7	1.8	0.0
1970-71	3.1	99.0	5.	0.15	43.7	2.1	0.0
1971-72	----	----	----	----	42.0	2.0	
1972-73	----	----	----	----	14.9	0.7	0.0
1973-74	----	----	----	----	157.0	7.5	0.0
1974-75	----	----	----	----	255.0	12.3	

GAUGING STATION/STATION DE JAUGEAGE.... WIASI
RIVER/COURS D EAU..... SISSILI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1961-62	-1.0	2.6	15.6	107.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	6.3	9.9	-1.0	44.6	7.5	0.4	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963-64	2.0	11.1	23.4	122.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	1.0	0.4	6.2	60.9	164.0	51.2	2.1	0.4	0.1	0.1	0.0	0.0	23.8
1965-66	0.2	7.4	18.0	85.5	105.0	14.5	0.4	0.1	0.0	0.0	0.0	1.0	19.3
1966-67	0.5	2.7	3.6	169.0	116.0	54.1	5.2	0.5	0.8	0.4	0.4	0.5	29.4
1967-68	0.6	0.8	3.6	32.0	160.0	47.3	3.1	1.1	0.5	0.1	1.9	0.8	20.9
1968-69	2.0	27.9	143.0	159.0	141.0	14.0	2.6	0.8	0.3	0.0	0.1	0.0	40.8
1969-70	1.0	0.6	24.8	-1.0	265.0	112.0	7.8	3.9	1.5	0.9	0.5	0.1	-1.0
1970-71	1.9	1.8	4.9	-1.0	167.0	-1.0	1.6	0.3	0.0	0.0	0.0	0.0	-1.0
1971-72	0.7	4.3	8.0	144.0	219.0	70.0	3.2	0.6	0.1	0.0	0.0	0.0	37.5
1972-73	0.2	2.2	6.4	15.6	17.2	3.0	0.2	0.0	0.0	0.0	0.0	0.0	3.7
1973-74	-1.0	2.5	7.2	131.0	69.3	4.8	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-1.0
AVG/MOYEN	1.0	5.4	21.1	102.5	133.4	37.8	2.6	0.8	0.3	0.1	0.3	0.2	25.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... WIASI
RIVER/COURS D EAU..... SISSILI
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1961-62	----	----	----	----	-1.0	-1.0	
1962-63	----	----	----	----	-1.0	-1.0	0.0
1963-64	----	----	----	----	-1.0	-1.0	
1964-65	23.8	752.7	79.	2.51	185.0	19.5	0.0
1965-66	19.3	609.9	64.	2.04	214.0	22.5	0.0
1966-67	29.4	929.9	98.	3.10	313.0	32.9	0.2
1967-68	20.9	662.2	70.	2.21	-1.0	-1.0	0.0
1968-69	40.8	1289.7	136.	4.31	377.0	39.7	
1969-70	----	----	----	----	348.0	36.6	0.0
1970-71	----	----	----	----	339.0	35.7	0.0
1971-72	37.5	1182.6	124.	3.95	309.0	32.5	0.0
1972-73	3.7	117.7	12.	0.39	37.9	4.0	0.0
1973-74	----	----	----	----	-1.0	-1.0	0.0

GAUGING STATION/STATION DE JAUGEAGE.... YAGABA
RIVER/COURS D EAU..... KULPAWN
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1957-58	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.5	0.4	-1.0
1958-59	1.5	2.7	0.7	1.3	65.8	31.4	0.6	0.2	0.0	0.0	0.0	1.3	8.7
1959-60	0.1	4.3	11.8	14.2	151.0	18.0	1.3	0.2	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	-1.0	106.0	250.0	65.9	4.6	1.0	0.1	0.3	0.6	0.9	-1.0
1961-62	1.4	0.7	3.3	65.4	206.0	17.6	0.2	0.1	0.3	0.1	0.0	0.1	24.6
1962-63	1.7	2.7	11.2	64.8	297.0	167.0	9.4	1.5	0.3	0.5	0.1	0.0	46.3
1963-64	0.2	0.5	21.1	327.0	471.0	341.0	-1.0	-1.0	-1.0	-1.0	-1.0	6.3	-1.0
1964-65	6.8	5.3	4.6	22.9	194.0	43.1	6.0	2.3	1.6	3.7	0.5	0.5	24.2
1965-66	0.4	10.6	75.0	229.0	412.0	62.2	4.6	2.5	1.5	0.7	0.4	0.7	66.6
1966-67	4.3	1.2	2.0	-1.0	-1.0	-1.0	3.0	0.3	0.4	0.3	0.2	-1.0	-1.0
1967-68	0.3	-1.0	-1.0	14.8	183.0	-1.0	-1.0	-1.0	0.4	0.3	0.1	1.7	-1.0
1968-69	1.6	14.3	139.0	196.0	243.0	36.4	5.0	3.8	1.6	1.0	0.3	1.2	53.6
1969-70	0.6	0.6	19.9	151.0	267.0	61.3	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	-1.0
1970-71	0.2	0.2	1.7	73.6	206.0	23.7	2.3	0.6	0.3	0.1	0.0	0.2	25.7
1971-72	0.1	0.3	4.4	123.0	243.0	23.8	3.6	0.9	0.3	0.0	0.0	0.0	33.3
1972-73	0.2	2.3	4.2	11.4	16.2	6.5	0.8	0.6	0.0	0.0	0.0	0.0	3.5
1973-74	-1.0	-1.0	0.8	-1.0	32.7	6.2	-1.0	-1.0	0.0	0.0	-1.0	-1.0	-1.0
AVG/MOYEN	1.4	3.5	21.4	100.0	215.8	64.5	3.4	1.1	0.5	0.5	0.2	0.9	34.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... YAGABA
RIVER/COURS D EAU..... KULPAWN
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1957-58	----	----	----	----	-1.0	-1.0	
1958-59	8.7	277.4	26.	0.83	97.2	9.2	0.0
1959-60	----	----	----	----	279.0	26.3	0.0
1960-61	----	----	----	----	379.0	35.8	0.0
1961-62	24.6	775.9	73.	2.32	265.0	25.0	0.0
1962-63	46.3	1461.8	138.	4.37	432.0	40.8	0.0
1963-64	----	----	----	----	497.0	46.9	4.6
1964-65	24.2	765.8	72.	2.29	290.0	27.4	0.3
1965-66	66.6	2101.4	198.	6.29	480.0	45.3	0.3
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	254.0	24.0	0.0
1968-69	53.6	1690.7	160.	5.06	390.0	36.8	0.3
1969-70	----	----	----	----	375.0	35.4	0.0
1970-71	25.7	812.3	77.	2.43	383.0	36.1	0.0
1971-72	33.3	1050.4	99.	3.14	394.0	37.2	0.0
1972-73	3.5	111.6	11.	0.33	33.3	3.1	0.0
1973-74	----	----	----	----	38.0	3.6	0.0

GAUGING STATION/STATION DE JAUGEAGE.... YAKALA
RIVER/COURS D EAU..... VOLTABLANCHE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTABLANCHE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1955-56	1.0	5.7	77.0	115.0	147.0	46.0	4.1	0.4	0.0	0.0	0.0	0.3	33.0
1956-57	1.8	19.3	77.6	154.0	294.0	54.1	9.7	2.4	0.9	0.6	0.5	0.4	51.3
1957-58	14.0	16.6	59.0	113.0	120.0	20.0	3.5	1.2	0.6	0.1	0.1	0.1	29.0
1958-59	10.5	20.7	27.9	255.0	235.0	21.8	4.3	0.7	0.0	0.0	0.0	0.0	48.0
1959-60	2.8	7.4	28.9	298.0	197.0	28.0	3.5	0.4	0.0	0.0	0.0	0.0	47.1
1960-61	7.7	6.7	35.0	63.5	112.0	22.6	1.1	0.0	0.0	0.0	0.0	0.0	20.7
1961-62	0.0	17.2	101.0	188.0	271.0	53.0	5.6	0.5	0.0	0.0	0.0	0.0	53.0
1962-63	2.1	20.4	31.0	191.0	289.0	51.1	5.8	0.9	0.0	0.0	0.0	0.0	49.2
1963-64	1.0	13.9	45.6	130.0	53.8	6.3	1.6	0.0	0.0	0.0	0.0	0.0	21.0
1965-66	1.0	6.3	17.3	65.0	118.0	40.3	8.1	0.8	0.0	0.0	0.0	0.0	21.4
1966-67	-1.0	-1.0	-1.0	40.2	65.6	21.7	1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	-1.0	247.0	149.0	42.8	2.7	0.0	0.0	0.0	0.0	0.0	-1.0
1968-69	6.8	40.2	37.9	27.5	34.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	12.5
1969-70	0.0	5.0	55.8	102.0	211.0	25.9	2.9	0.4	0.0	0.0	0.0	0.0	33.5
1970-71	0.0	5.9	55.5	162.0	118.0	20.7	0.5	0.0	-1.0	0.0	0.0	0.0	-1.0
1974-75	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1975-76	0.0	0.0	81.1	133.0	153.0	16.8	0.6	0.1	0.0	0.0	0.0	0.0	32.0
AVG/MOYEN	3.4	13.2	52.1	142.7	160.4	29.6	3.4	0.5	0.1	0.0	0.0	0.0	33.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... YAKALA
RIVER/COURS D EAU..... VOLTABLANCHE
COUNTRY/PAYS..... HAUTE VOLTA
BASIN/BASSIN..... VOLTABLANCHE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1955-56	33.0	1042.0	32.	1.00	320.0	9.7	0.0
1956-57	51.3	1618.0	49.	1.55	448.0	13.6	0.1
1957-58	29.0	915.3	28.	0.88	248.0	7.5	0.0
1958-59	48.0	1513.8	46.	1.45	535.0	16.2	0.0
1959-60	47.1	1488.2	45.	1.43	454.0	13.8	0.0
1960-61	20.7	653.7	20.	0.63	302.0	9.2	0.0
1961-62	53.0	1672.4	51.	1.61	515.0	15.6	0.0
1962-63	49.2	1553.9	47.	1.49	439.0	13.3	0.0
1963-64	21.0	662.8	20.	0.64	252.0	7.6	0.0
1965-66	21.4	675.0	20.	0.65	187.0	5.7	
1966-67	----	----	----	----	161.0	4.9	
1967-68	----	----	----	----	447.0	13.5	0.0
1968-69	12.5	394.3	12.	0.38	133.0	4.0	0.0
1969-70	33.5	1059.1	32.	1.02	414.0	12.5	0.0
1970-71	----	----	----	----	349.0	10.6	0.0
1974-75	----	----	----	----	475.0	14.4	
1975-76	32.0	1010.7	31.	0.97	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... YAPEI
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 102170.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	8.1	13.0	102.0	518.0	1360.0	1530.0	397.0	19.1	15.0	5.9	0.9	3.5	331.0
1952-53	1.5	2.8	90.3	352.0	1370.0	1750.0	116.0	5.2	0.5	2.0	6.0	3.2	308.3
1953-54	7.7	281.0	279.0	816.0	1440.0	780.0	60.7	11.0	5.3	3.1	2.3	3.3	307.4
1954-55	6.2	64.4	108.0	-1.0	979.0	535.0	154.0	83.7	-1.0	-1.0	63.0	66.7	-1.0
1955-56	62.2	85.5	179.0	751.0	1370.0	1440.0	117.0	52.9	-1.0	7.8	6.8	7.3	-1.0
1956-57	9.9	19.6	85.5	217.0	-1.0	260.0	75.9	14.3	3.1	1.2	1.0	1.1	-1.0
1957-58	42.8	264.0	318.0	558.0	1560.0	1240.0	148.0	26.9	-1.0	-1.0	-1.0	5.8	-1.0
1958-59	6.5	24.1	24.3	281.0	786.0	293.0	-1.0	1.5	-1.0	-1.0	-1.0	1.2	-1.0
1959-60	4.7	26.8	97.7	359.0	1210.0	683.0	45.5	12.0	6.8	4.2	3.4	4.2	204.7
1960-61	9.7	46.4	106.0	455.0	1230.0	1210.0	76.0	18.1	8.7	5.0	3.2	7.2	264.6
1961-62	10.3	35.3	221.0	688.0	991.0	705.0	49.7	15.5	7.5	2.4	2.6	5.4	227.8
1962-63	15.7	150.0	291.0	686.0	2220.0	1320.0	-1.0	-1.0	14.8	8.1	16.7	6.7	-1.0
1963-64	37.0	32.4	96.3	1050.0	2560.0	1110.0	297.0	50.3	17.4	10.4	5.7	6.4	439.4
1964-65	4.5	11.2	105.0	556.0	1190.0	942.0	82.8	21.8	11.6	6.0	2.9	2.8	244.7
1965-66	6.1	62.5	298.0	755.0	1200.0	585.0	82.7	20.2	9.0	4.6	3.0	3.3	252.4
1966-67	37.4	85.8	77.5	487.0	1020.0	507.0	80.0	14.2	0.6	4.0	3.0	3.0	193.2
1967-68	2.6	4.9	39.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	16.0	71.1	148.1	568.6	1365.7	930.6	127.3	24.4	8.3	5.0	8.6	8.2	273.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... YAPEI
RIVER/COURS D EAU..... WHITE VOLTA
COUNTRY/PAYS..... GHANA
BASIN/BASSIN..... WHITE VOLTA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 102170.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	331.0	10440.3	102.	3.24	1720.0	16.8	0.7
1952-53	308.3	9722.7	95.	3.02	2120.0	20.7	
1953-54	307.4	9696.0	95.	3.01	1840.0	18.0	1.4
1954-55	----	----	----	----	1110.0	10.9	
1955-56	----	----	----	----	2300.0	22.5	5.8
1956-57	----	----	----	----	-1.0	-1.0	1.0
1957-58	----	----	----	----	2220.0	21.7	
1958-59	----	----	----	----	950.0	9.3	
1959-60	204.7	6458.4	63.	2.00	1490.0	14.6	1.9
1960-61	264.6	8345.0	82.	2.59	2390.0	23.4	2.3
1961-62	227.8	7184.7	70.	2.23	1900.0	18.6	1.1
1962-63	----	----	----	----	2850.0	27.9	4.1
1963-64	439.4	13857.2	136.	4.30	2940.0	28.8	3.5
1964-65	244.7	7717.9	76.	2.40	1790.0	17.5	1.9
1965-66	252.4	7961.8	78.	2.47	1390.0	13.6	2.7
1966-67	193.2	6095.8	60.	1.89	1330.0	13.0	2.6
1967-68	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... BAKEL
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 218000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 3- 4	10.0	120.0	746.0	1937.0	2535.0	1060.0	476.0	202.0	124.0	74.0	40.0	15.0	611.5
19 4- 5	10.0	29.0	682.0	2626.0	3187.0	1113.0	583.0	272.0	144.0	86.0	50.0	22.0	733.6
19 5- 6	10.0	235.0	919.0	2740.0	2284.0	2381.0	1077.0	375.0	192.0	113.0	64.0	30.0	868.3
19 6- 7	15.0	143.0	1121.0	5831.0	4186.0	1607.0	825.0	465.0	250.0	140.0	80.0	40.0	1225.2
19 7- 8	10.0	120.0	403.0	905.0	2194.0	1282.0	613.0	340.0	185.0	110.0	62.0	28.0	521.0
19 8- 9	10.0	81.0	799.0	2195.0	3691.0	1395.0	500.0	235.0	130.0	75.0	42.0	18.0	764.2
19 9-10	10.0	286.0	949.0	2967.0	4144.0	1296.0	590.0	255.0	140.0	83.0	46.0	20.0	898.8
1910-11	10.0	120.0	590.0	2134.0	3004.0	1221.0	472.0	215.0	120.0	70.0	38.0	16.0	667.5
1911-12	10.0	120.0	590.0	1455.0	2439.0	930.0	431.0	220.0	125.0	72.0	38.0	16.0	537.1
1912-13	10.0	120.0	590.0	1425.0	2348.0	1305.0	436.0	230.0	135.0	78.0	43.0	18.0	561.5
1913-14	10.0	120.0	333.0	704.0	918.0	680.0	251.0	121.0	64.0	30.0	10.0	4.0	270.4
1914-15	10.0	120.0	590.0	1323.0	1423.0	1035.0	360.0	200.0	115.0	70.0	40.0	16.0	441.8
1915-16	10.0	90.0	636.0	1896.0	2442.0	1261.0	350.0	190.0	105.0	62.0	34.0	12.0	590.6
1916-17	5.0	4.0	726.0	1782.0	3223.0	1664.0	400.0	210.0	120.0	70.0	38.0	16.0	688.1
1917-18	10.0	20.0	293.0	2130.0	3393.0	1185.0	330.0	185.0	100.0	58.0	32.0	11.0	645.5
1918-19	10.0	200.0	836.0	3447.0	5216.0	2573.0	645.0	335.0	202.0	122.0	65.0	30.0	1140.0
1919-20	10.0	140.0	404.0	1704.0	2261.0	1026.0	356.0	210.0	115.0	70.0	38.0	15.0	529.0
1920-21	10.0	120.0	540.0	2535.0	4252.0	1311.0	596.0	290.0	160.0	95.0	52.0	23.0	832.0
1921-22	10.0	120.0	396.0	1201.0	2100.0	736.0	270.0	150.0	90.0	50.0	26.0	10.0	429.9
1922-23	10.0	40.0	402.0	3213.0	6746.0	2778.0	778.0	316.0	158.0	95.0	53.0	23.0	1217.6
1923-24	10.0	90.0	628.0	1808.0	3764.0	1463.0	741.0	272.0	138.0	80.0	44.0	19.0	754.7
1924-25	10.0	144.0	1385.0	3973.0	5300.0	2463.0	796.0	384.0	210.0	125.0	70.0	32.0	1241.0
1925-26	14.0	101.0	397.0	2280.0	3275.0	2506.0	765.0	325.0	185.0	110.0	65.0	30.0	837.7
1926-27	10.0	140.0	507.0	1607.0	1741.0	973.0	715.0	270.0	130.0	76.0	43.0	18.0	519.1
1927-28	10.0	120.0	777.0	2800.0	4745.0	2743.0	878.0	380.0	205.0	120.0	70.0	32.0	1073.3
1928-29	10.0	50.0	351.0	2973.0	4568.0	1679.0	696.0	240.0	130.0	77.0	39.0	15.0	902.3
1929-30	10.0	300.0	864.0	2948.0	4399.0	1340.0	434.0	217.0	123.0	71.0	38.0	15.0	896.5
1930-31	10.0	170.0	649.0	2621.0	3412.0	1929.0	605.0	290.0	167.0	97.0	58.0	25.0	836.0
1931-32	10.0	170.0	940.0	1755.0	2715.0	2119.0	550.0	270.0	155.0	90.0	50.0	22.0	737.1
1932-33	10.0	130.0	780.0	2780.0	3181.0	1369.0	445.0	227.0	130.0	75.0	43.0	19.0	765.7
1933-34	10.0	153.0	1087.0	3302.0	3571.0	1066.0	386.0	200.0	115.0	68.0	35.0	12.0	833.7
1934-35	10.0	20.0	270.0	2339.0	3496.0	1315.0	440.0	220.0	130.0	75.0	43.0	19.0	698.0
1935-36	10.0	120.0	896.0	4269.0	4971.0	2487.0	630.0	265.0	152.0	88.0	50.0	20.0	1163.1
1936-37	10.0	85.0	599.0	4593.0	5825.0	2261.0	707.0	334.0	172.0	105.0	62.0	25.0	1231.5
1937-38	10.0	120.0	397.0	1748.0	3108.0	1339.0	504.0	230.0	130.0	75.0	41.0	17.0	643.2
1938-39	10.0	120.0	479.0	1826.0	3995.0	1870.0	800.0	270.0	150.0	88.0	48.0	21.0	806.4
1939-40	2.3	28.0	362.0	1935.0	2089.0	1377.0	435.0	220.0	125.0	72.0	40.0	16.0	558.4
1940-41	10.0	50.0	210.0	1316.0	1343.0	1254.0	529.0	200.0	120.0	68.0	38.0	15.0	429.4
1941-42	10.0	120.0	339.0	1158.0	2115.0	740.0	247.0	130.0	75.0	44.0	19.0	6.5	416.9
1942-43	10.0	120.0	385.0	1896.0	1715.0	539.0	266.0	140.0	80.0	45.0	25.0	8.0	435.7
1943-44	10.0	120.0	366.0	1867.0	2951.0	1801.0	443.0	195.0	110.0	65.0	35.0	14.0	664.7
1944-45	10.0	120.0	225.0	814.0	1444.0	663.0	339.0	160.0	95.0	55.0	28.0	10.0	330.2

1945-46	10.0	120.0	396.0	3260.0	4738.0	1909.0	464.0	195.0	110.0	65.0	35.0	14.0	943.0
1946-47	10.0	120.0	362.0	2505.0	3024.0	1819.0	580.0	238.0	130.0	75.0	41.0	17.0	743.4
1947-48	10.0	120.0	343.0	1860.0	3363.0	1509.0	397.0	180.0	105.0	60.0	32.0	12.0	665.9
1948-49	5.0	31.0	591.0	1836.0	2656.0	961.0	398.0	168.0	105.0	60.0	32.0	12.0	571.2
1949-50	5.0	9.0	325.0	2052.0	1912.0	809.0	216.0	123.0	73.0	42.0	20.0	10.0	466.3
1950-51	5.0	3.0	545.0	2914.0	5891.0	3071.0	778.0	304.0	153.0	86.0	43.0	13.0	1150.5
1951-52	4.0	57.0	387.0	1418.0	2331.0	3581.0	1455.0	423.0	214.0	125.0	64.0	27.0	840.5
1952-53	5.0	22.0	524.0	1395.0	2421.0	3126.0	597.0	246.0	134.0	71.0	37.0	17.0	716.2
1953-54	3.0	101.0	788.0	1547.0	2926.0	1236.0	464.0	219.0	140.0	81.0	41.0	13.0	629.9
1954-55	12.0	253.0	963.0	3987.0	4419.0	1655.0	681.0	396.0	197.0	116.0	68.0	42.0	1065.7
1955-56	32.0	207.0	612.0	3563.0	4004.0	2615.0	770.0	347.0	203.0	119.0	69.0	34.0	1047.9
1956-57	13.0	40.0	495.0	2210.0	5237.0	2159.0	634.0	285.0	163.0	99.0	60.0	24.0	951.5
1957-58	8.0	215.0	608.0	2668.0	4227.0	2904.0	935.0	351.0	197.0	118.0	67.0	32.0	1027.5
1958-59	18.0	175.0	568.0	3985.0	4028.0	1916.0	785.0	444.0	237.0	139.0	84.0	40.0	1034.9
1959-60	19.0	164.0	583.0	2434.0	4047.0	1242.0	489.0	223.0	126.0	76.0	42.0	17.0	788.5
1960-61	5.0	82.0	789.0	1790.0	2508.0	1301.0	504.0	213.0	120.0	75.0	41.0	16.0	620.3
1961-62	3.5	102.0	781.0	2956.0	5201.0	1360.0	458.0	207.0	121.0	74.0	40.0	12.0	942.9
1962-63	2.7	85.0	511.0	2220.0	3632.0	1620.0	594.0	262.0	138.0	86.0	43.0	18.0	767.6
1963-64	8.0	7.0	473.0	1620.0	2772.0	1988.0	636.0	230.0	129.0	72.0	36.0	13.8	665.4
1964-65	3.2	171.0	602.0	1973.0	5680.0	1989.0	580.0	285.0	166.0	105.0	58.0	26.0	969.8
1965-66	9.3	83.8	522.0	3266.0	5349.0	2046.0	646.0	289.0	170.0	104.0	53.0	28.0	1047.1
1966-67	10.9	76.0	366.0	1378.0	2826.0	3899.0	854.0	319.0	173.0	105.0	61.0	27.4	841.2
1967-68	11.3	89.0	559.0	2409.0	5026.0	2792.0	764.0	345.0	210.0	120.0	60.0	30.0	1034.6
1968-69	7.8	63.0	408.9	1007.0	1805.0	847.2	295.9	161.8	76.5	36.7	14.9	2.1	393.8
1969-70	1.5	34.7	681.0	1650.0	3140.0	2050.0	946.0	295.0	145.0	81.0	42.0	17.0	756.9
1970-71	4.8	20.9	274.0	2250.0	2500.0	797.0	267.0	130.0	72.0	42.0	18.0	3.3	531.5
1971-72	1.7	0.7	476.0	2520.0	2770.0	819.0	264.0	128.0	70.0	40.0	16.0	2.7	592.3
1972-73	1.0	43.0	277.0	795.0	1050.0	495.0	196.0	98.0	51.0	27.4	9.3	2.3	253.7
1973-74	0.8	93.0	313.0	1690.0	1360.0	487.0	159.0	69.0	38.0	19.5	7.2	1.7	353.1
1974-75	0.6	3.0	739.0	3236.0	3138.0	1321.0	371.0	143.0	59.7	34.1	14.4	4.2	755.3
AVG/MOYEN	8.9	104.5	573.6	2293.7	3329.0	1631.3	553.7	246.8	136.4	79.8	43.3	18.3	751.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... BAKEL
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 218000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 3- 4	611.5	19286.8	88.	2.81	3560.0	16.3	
19 4- 5	733.6	23136.9	106.	3.37	4790.0	22.0	
19 5- 6	868.3	27383.7	126.	3.98	3630.0	16.7	
19 6- 7	1225.2	38639.4	177.	5.62	9340.0	42.8	
19 7- 8	521.0	16430.2	75.	2.39	2850.0	13.1	
19 8- 9	764.2	24101.3	111.	3.51	4200.0	19.3	
19 9-10	898.8	28345.6	130.	4.12	5490.0	25.2	
1910-11	667.5	21050.2	97.	3.06	3840.0	17.6	
1911-12	537.1	16940.0	78.	2.46	3330.0	15.3	
1912-13	561.5	17707.4	81.	2.58	3290.0	15.1	
1913-14	270.4	8527.8	39.	1.24	1040.0	4.8	
1914-15	441.8	13933.6	64.	2.03	1885.0	8.6	
1915-16	590.6	18627.2	85.	2.71	3140.0	14.4	
1916-17	688.1	21702.0	100.	3.16	4200.0	19.3	
1917-18	645.5	20359.1	93.	2.96	4960.0	22.8	
1918-19	1140.0	35953.6	165.	5.23	7300.0	33.5	
1919-20	529.0	16685.1	77.	2.43	3560.0	16.3	
1920-21	832.0	26237.9	120.	3.82	5630.0	25.8	
1921-22	429.9	13557.8	62.	1.97	2850.0	13.1	
1922-23	1217.6	38400.3	176.	5.59	9070.0	41.6	
1923-24	754.7	23801.7	109.	3.46	4670.0	21.4	
1924-25	1241.0	39136.1	180.	5.69	6350.0	29.1	
1925-26	837.7	26419.2	121.	3.84	4610.0	21.1	
1926-27	519.1	16372.4	75.	2.38	2290.0	10.5	
1927-28	1073.3	33848.6	155.	4.92	6460.0	29.6	
1928-29	902.3	28455.9	131.	4.14	5490.0	25.2	
1929-30	896.5	28274.6	130.	4.11	5490.0	25.2	
1930-31	836.0	26366.7	121.	3.84	4610.0	21.1	
1931-32	737.1	23247.2	107.	3.38	4300.0	19.7	
1932-33	765.7	24148.6	111.	3.51	4850.0	22.2	
1933-34	833.7	26293.1	121.	3.82	5490.0	25.2	
1934-35	698.0	22014.7	101.	3.20	5340.0	24.5	
1935-36	1163.1	36681.6	168.	5.34	6680.0	30.6	
1936-37	1231.5	38836.5	178.	5.65	7600.0	34.9	
1937-38	643.2	20285.5	93.	2.95	3590.0	16.5	
1938-39	806.4	25431.1	117.	3.70	5630.0	25.8	
1939-40	558.4	17611.0	81.	2.56	3400.0	15.6	
1940-41	429.4	13542.0	62.	1.97	2760.0	12.7	
1941-42	416.9	13149.1	60.	1.91	2890.0	13.3	
1942-43	435.7	13741.8	63.	2.00	3590.0	16.5	
1943-44	664.7	20963.5	96.	3.05	3480.0	16.0	
1944-45	330.2	10414.7	48.	1.51	1740.0	8.0	
1945-46	943.0	29738.4	136.	4.33	6480.0	29.7	

1946-47	743.4	23444.3	108.	3.41	4460.0	20.5	
1947-48	665.9	21000.3	96.	3.05	4360.0	20.0	
1948-49	571.2	18014.9	83.	2.62	3590.0	16.5	
1949-50	466.3	14706.2	67.	2.14	3760.0	17.2	
1950-51	1150.5	36282.1	166.	5.28	7630.0	35.0	2.3
1951-52	840.5	26506.0	122.	3.86	5340.0	24.5	2.0
1952-53	716.2	22587.6	104.	3.29	5060.0	23.2	0.3
1953-54	629.9	19865.0	91.	2.89	4180.0	19.2	4.7
1954-55	1065.7	33609.4	154.	4.89	6610.0	30.3	22.5
1955-56	1047.9	33047.1	152.	4.81	5260.0	24.1	7.5
1956-57	951.5	30009.1	138.	4.37	6050.0	27.8	3.2
1957-58	1027.5	32403.2	149.	4.71	5660.0	26.0	10.5
1958-59	1034.9	32637.1	150.	4.75	8170.0	37.5	9.0
1959-60	788.5	24866.1	114.	3.62	5460.0	25.0	0.9
1960-61	620.3	19562.8	90.	2.85	3550.0	16.3	1.2
1961-62	942.9	29737.1	136.	4.33	7030.0	32.2	1.2
1962-63	767.6	24208.3	111.	3.52	4410.0	20.2	2.6
1963-64	665.4	20984.0	96.	3.05	3760.0	17.2	1.2
1964-65	969.8	30585.1	140.	4.45	7180.0	32.9	1.8
1965-66	1047.1	33023.7	151.	4.80	7000.0	32.1	5.0
1966-67	841.2	26530.4	122.	3.86	5450.0	25.0	3.5
1967-68	1034.6	32627.4	150.	4.75	5820.0	26.7	5.0
1968-69	393.8	12422.0	57.	1.81	2880.0	13.2	0.5
1969-70	756.9	23870.6	109.	3.47	3770.0	17.3	2.0
1970-71	531.5	16764.0	77.	2.44	3440.0	15.8	0.4
1971-72	592.3	18680.0	86.	2.72	4320.0	19.8	0.8
1972-73	253.7	8002.2	37.	1.16	1430.0	6.6	0.3
1973-74	353.1	11137.9	51.	1.62	2550.0	11.7	0.0
1974-75	755.3	23820.1	109.	3.46	6575.0	30.2	0.0

GAUGING STATION/STATION DE JAUGEAGE.... DAGANA
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 268000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 3- 4	15.0	30.0	400.0	1162.0	1951.0	2035.0	750.0	320.0	180.0	110.0	60.0	30.0	586.9
19 4- 5	15.0	15.0	389.0	1580.0	2217.0	2199.0	998.0	400.0	220.0	130.0	75.0	40.0	689.8
19 5- 6	18.0	87.0	513.0	1450.0	1936.0	2153.0	1992.0	600.0	230.0	130.0	75.0	40.0	768.6
19 6- 7	20.0	42.0	617.0	1765.0	2840.0	2755.0	1761.0	461.0	250.0	145.0	80.0	40.0	898.0
19 7- 8	20.0	15.0	245.0	683.0	1534.0	1671.0	738.0	471.0	280.0	160.0	90.0	45.0	496.0
19 8- 9	20.0	20.0	485.0	1328.0	2107.0	2450.0	1287.0	390.0	195.0	110.0	65.0	35.0	707.6
19 9-10	20.0	43.0	774.0	1607.0	2357.0	2595.0	1376.0	430.0	210.0	120.0	65.0	35.0	802.6
1910-11	20.0	87.0	591.0	1335.0	2095.0	2352.0	999.0	340.0	180.0	100.0	60.0	30.0	682.4
1911-12	15.0	30.0	400.0	992.0	1778.0	1732.0	719.0	350.0	185.0	105.0	60.0	30.0	533.0
1912-13	15.0	15.0	359.0	1050.0	1663.0	1842.0	815.0	380.0	205.0	115.0	65.0	35.0	546.5
1913-14	20.0	30.0	200.0	543.0	1066.0	910.0	400.0	170.0	80.0	45.0	20.0	12.0	291.3
1914-15	12.0	12.0	450.0	993.0	1448.0	1288.0	555.0	310.0	170.0	105.0	60.0	30.0	452.7
1915-16	15.0	50.0	490.0	1136.0	1937.0	2054.0	700.0	320.0	160.0	90.0	50.0	25.0	585.5
1916-17	12.0	6.0	421.0	1268.0	1915.0	2303.0	1271.0	300.0	175.0	105.0	60.0	30.0	655.5
1917-18	12.0	7.0	97.0	1069.0	2087.0	2405.0	914.0	290.0	150.0	85.0	50.0	25.0	599.2
1918-19	12.0	60.0	493.0	1532.0	2343.0	3039.0	2000.0	550.0	280.0	150.0	80.0	40.0	881.5
1919-20	20.0	52.0	340.0	1173.0	1859.0	1884.0	708.0	300.0	170.0	100.0	60.0	30.0	558.0
1920-21	15.0	60.0	699.0	1262.0	2284.0	2676.0	1294.0	400.0	240.0	140.0	75.0	40.0	765.4
1921-22	20.0	20.0	318.0	841.0	1744.0	1571.0	466.0	225.0	130.0	75.0	45.0	20.0	456.2
1922-23	20.0	20.0	392.0	1276.0	2224.0	3140.0	2111.0	620.0	240.0	140.0	80.0	40.0	858.5
1923-24	20.0	35.0	558.0	1273.0	1948.0	2358.0	1504.0	451.0	205.0	120.0	65.0	35.0	714.3
1924-25	25.0	100.0	896.0	1702.0	2471.0	3088.0	2007.0	616.0	330.0	190.0	100.0	50.0	964.5
1925-26	25.0	59.0	494.0	1201.0	1983.0	2384.0	2022.0	520.0	280.0	160.0	95.0	45.0	772.3
1926-27	22.0	24.0	435.0	1168.0	1586.0	1468.0	654.0	400.0	195.0	110.0	65.0	35.0	513.5
1927-28	17.0	8.0	403.0	1275.0	2077.0	2693.0	2359.0	908.0	320.0	180.0	100.0	50.0	865.8
1928-29	25.0	15.0	388.0	1202.0	2220.0	2783.0	2002.0	569.0	290.0	160.0	90.0	45.0	815.7
1929-30	25.0	100.0	749.0	1365.0	2235.0	2670.0	1722.0	440.0	220.0	125.0	70.0	35.0	813.0
1930-31	18.0	75.0	546.0	1251.0	2185.0	2502.0	1723.0	450.0	240.0	140.0	80.0	40.0	770.8
1931-32	20.0	38.0	597.0	1500.0	1734.0	2184.0	1514.0	411.0	230.0	130.0	75.0	40.0	706.0
1932-33	20.0	51.0	571.0	1576.0	2245.0	2546.0	1240.0	350.0	190.0	115.0	65.0	35.0	750.3
1933-34	20.0	95.0	820.0	1774.0	2448.0	2619.0	1115.0	310.0	170.0	105.0	60.0	30.0	797.1
1934-35	15.0	7.0	178.0	1214.0	2180.0	2569.0	1459.0	350.0	190.0	110.0	65.0	35.0	697.6
1935-36	20.0	15.0	608.0	1453.0	2345.0	2958.0	2044.0	540.0	230.0	130.0	75.0	40.0	871.5
1936-37	20.0	10.0	414.0	1434.0	2606.0	3184.0	2096.0	626.0	267.0	156.0	90.0	40.0	911.9
1937-38	20.0	12.0	214.0	1062.0	1934.0	2292.0	1299.0	380.0	190.0	105.0	60.0	30.0	633.1
1938-39	15.0	6.0	524.0	1165.0	1941.0	2450.0	2120.0	628.0	220.0	125.0	70.0	35.0	774.9
1939-40	20.0	12.0	236.0	1040.0	1886.0	2065.0	1000.0	350.0	185.0	90.0	60.0	30.0	581.1
1940-41	15.0	30.0	109.0	788.0	1569.0	1396.0	925.0	310.0	180.0	100.0	55.0	25.0	458.5
1941-42	12.0	6.0	70.0	807.0	1565.0	1487.0	487.0	190.0	110.0	65.0	35.0	15.0	404.0
1942-43	7.0	4.0	211.0	1027.0	1768.0	1180.0	380.0	180.0	110.0	65.0	40.0	15.0	415.5
1943-44	12.0	8.0	262.0	1107.0	1940.0	2292.0	1390.0	300.0	160.0	95.0	55.0	25.0	637.1
1944-45	12.0	6.0	134.0	642.0	1351.0	1173.0	577.0	240.0	140.0	80.0	45.0	20.0	368.3

1945-46	10.0	40.0	250.0	1278.0	2195.0	2843.0	1759.0	400.0	180.0	95.0	55.0	25.0	760.8
1946-47	15.0	8.0	163.0	1185.0	2002.0	2386.0	1697.0	420.0	200.0	110.0	65.0	30.0	690.0
1947-48	15.0	7.0	206.0	1037.0	1866.0	2135.0	871.0	300.0	155.0	90.0	50.0	25.0	563.0
1948-49	10.0	5.0	355.0	1049.0	1874.0	1954.0	903.0	340.0	155.0	90.0	50.0	25.0	567.5
1949-50	10.0	10.0	170.0	992.0	1867.0	1686.0	521.0	210.0	120.0	70.0	40.0	20.0	476.3
1950-51	12.0	5.0	316.0	1220.0	2203.0	2986.0	2110.0	726.0	212.0	125.0	65.0	30.0	834.1
1951-52	21.0	30.0	285.0	1018.0	1736.0	2210.0	2490.0	1415.0	328.0	187.0	95.0	42.0	821.4
1952-53	15.0	10.0	324.0	1050.0	1646.0	2168.0	2218.0	591.0	190.0	100.0	55.0	30.0	699.7
1953-54	12.0	36.0	540.0	1224.0	1771.0	2091.0	1039.0	350.0	200.0	120.0	60.0	25.0	622.3
1954-55	25.0	152.0	646.0	1613.0	2327.0	2652.0	1625.0	501.0	285.0	180.0	100.0	60.0	847.1
1955-56	30.0	93.0	533.0	1571.0	2275.0	2778.0	2268.0	743.0	292.0	196.0	100.0	55.0	911.1
1956-57	25.0	12.0	337.0	1177.0	2070.0	2880.0	2093.0	537.0	243.0	133.0	80.0	40.0	802.2
1957-58	25.0	24.0	611.0	1272.0	2135.0	2703.0	2408.0	910.0	291.0	171.0	95.0	50.0	891.2
1958-59	30.0	53.0	570.0	1367.0	2328.0	2967.0	1993.0	650.0	325.0	214.0	113.0	60.0	889.1
1959-60	18.0	83.0	492.0	1075.0	1986.0	2505.0	1414.0	345.0	217.0	128.0	70.0	30.0	696.9
1960-61	15.0	7.0	489.0	1282.0	1859.0	2097.0	1109.0	322.0	192.0	107.0	60.0	25.0	630.3
1961-62	15.0	7.0	460.0	1499.0	2208.0	2695.0	1440.0	332.0	172.0	105.0	60.0	25.0	751.5
1962-63	10.0	12.0	383.0	1236.0	1978.0	2459.0	1763.0	451.0	228.0	124.0	65.0	30.0	728.2
1963-64	15.0	7.0	149.0	1192.0	1798.0	2181.0	1778.0	423.0	200.0	110.0	55.0	25.0	661.0
1964-65	15.0	47.0	497.0	1420.0	2135.0	2871.0	2138.0	473.0	250.0	155.0	85.0	40.0	843.8
1965-66	-1.0	-1.0	550.0	1210.0	2210.0	3260.0	2150.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	-1.0	910.0	1710.0	2330.0	2540.0	1110.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	530.0	1300.0	2150.0	3000.0	2420.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	500.0	950.0	1330.0	1400.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	660.0	1210.0	-1.0	-1.0	1950.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970-71	-1.0	-1.0	-1.0	1200.0	2000.0	1990.0	700.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971-72	-1.0	-1.0	-1.0	1210.0	2070.0	2120.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972-73	-1.0	-1.0	-1.0	700.0	1040.0	700.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	-1.0	-1.0	540.0	1010.0	1600.0	940.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1974-75	-1.0	-1.0	-1.0	1183.0	1995.0	2103.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	17.4	33.3	427.5	1204.3	1971.3	2260.3	1446.1	455.4	209.9	121.3	67.8	33.7	687.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DAGANA
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 268000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 3- 4	586.9	18509.0	69.	2.19	2280.0	8.5	
19 4- 5	689.8	21754.5	81.	2.57	2410.0	9.0	
19 5- 6	768.6	24240.6	90.	2.87	2190.0	8.2	
19 6- 7	898.0	28319.3	106.	3.35	3370.0	12.6	
19 7- 8	496.0	15641.8	58.	1.85	1830.0	6.8	
19 8- 9	707.6	22316.9	83.	2.64	2505.0	9.3	
19 9-10	802.6	25312.8	94.	3.00	2780.0	10.4	
1910-11	682.4	21520.6	80.	2.55	2460.0	9.2	
1911-12	533.0	16808.6	63.	1.99	2095.0	7.8	
1912-13	546.5	17237.0	64.	2.04	1935.0	7.2	
1913-14	291.3	9187.4	34.	1.09	1110.0	4.1	
1914-15	452.7	14277.9	53.	1.69	1460.0	5.4	
1915-16	585.5	18466.9	69.	2.19	2190.0	8.2	
1916-17	655.5	20671.8	77.	2.45	2360.0	8.8	
1917-18	599.2	18897.9	71.	2.24	2505.0	9.3	
1918-19	881.5	27801.6	104.	3.29	3205.0	12.0	
1919-20	558.0	17597.0	66.	2.08	2060.0	7.7	
1920-21	765.4	24138.1	90.	2.86	2785.0	10.4	
1921-22	456.2	14388.3	54.	1.70	1970.0	7.4	
1922-23	858.5	27076.2	101.	3.20	3540.0	13.2	
1923-24	714.3	22527.2	84.	2.67	2430.0	9.1	
1924-25	964.5	30419.1	114.	3.60	3290.0	12.3	
1925-26	772.3	24356.3	91.	2.88	2480.0	9.3	
1926-27	513.5	16193.7	60.	1.92	1745.0	6.5	
1927-28	865.8	27304.9	102.	3.23	2830.0	10.6	
1928-29	815.7	25725.4	96.	3.04	2920.0	10.9	
1929-30	813.0	25638.7	96.	3.03	2790.0	10.4	
1930-31	770.8	24309.0	91.	2.88	2590.0	9.7	
1931-32	706.0	22267.0	83.	2.63	2300.0	8.6	
1932-33	750.3	23662.5	88.	2.80	2680.0	10.0	
1933-34	797.1	25139.4	94.	2.97	2760.0	10.3	
1934-35	697.6	22001.6	82.	2.60	2680.0	10.0	
1935-36	871.5	27483.6	103.	3.25	3280.0	12.2	
1936-37	911.9	28758.2	107.	3.40	3570.0	13.3	
1937-38	633.1	19967.5	75.	2.36	2360.0	8.8	
1938-39	774.9	24437.7	91.	2.89	2585.0	9.6	
1939-40	581.1	18327.6	68.	2.17	2140.0	8.0	
1940-41	458.5	14459.2	54.	1.71	1625.0	6.1	
1941-42	404.0	12743.1	48.	1.51	1805.0	6.7	
1942-43	415.5	13105.8	49.	1.55	1870.0	7.0	
1943-44	637.1	20093.6	75.	2.38	2315.0	8.6	
1944-45	368.3	11615.7	43.	1.37	1510.0	5.6	
1945-46	760.8	23993.6	90.	2.84	3010.0	11.2	

1946-47	690.0	21762.4	81.	2.57	2430.0	9.1
1947-48	563.0	17757.3	66.	2.10	2215.0	8.3
1948-49	567.5	17896.6	67.	2.12	2095.0	7.8
1949-50	476.3	15021.6	56.	1.78	2010.0	7.5
1950-51	834.1	26306.2	98.	3.11	3390.0	12.6
1951-52	821.4	25904.1	97.	3.06	2540.0	9.5
1952-53	699.7	22067.3	82.	2.61	2450.0	9.1
1953-54	622.3	19625.9	73.	2.32	2155.0	8.0
1954-55	847.1	26716.2	100.	3.16	2920.0	10.9
1955-56	911.1	28734.5	107.	3.40	2920.0	10.9
1956-57	802.2	25299.7	94.	2.99	3160.0	11.8
1957-58	891.2	28106.4	105.	3.33	2850.0	10.6
1958-59	889.1	28040.7	105.	3.32	3100.0	11.6
1959-60	696.9	21977.9	82.	2.60	2615.0	9.8
1960-61	630.3	19878.1	74.	2.35	2160.0	8.1
1961-62	751.5	23699.3	88.	2.80	2910.0	10.9
1962-63	728.2	22966.0	86.	2.72	2560.0	9.6
1963-64	661.0	20847.9	78.	2.47	2235.0	8.3
1964-65	843.8	26611.1	99.	3.15	3195.0	11.9
1965-66	----	----	----	----	3560.0	13.3
1966-67	----	----	----	----	2790.0	10.4
1967-68	----	----	----	----	3500.0	13.1
1968-69	----	----	----	----	1650.0	6.2
1969-70	----	----	----	----	2420.0	9.0
1970-71	----	----	----	----	2280.0	8.5
1971-72	----	----	----	----	2410.0	9.0
1972-73	----	----	----	----	1150.0	4.3
1973-74	----	----	----	----	-1.0	-1.0
1974-75	----	----	----	----	2310.0	8.6

GAUGING STATION/STATION DE JAUGEAGE.... DAKKA SAIDOU
RIVER/COURS D EAU..... BAFING
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	12.0	48.0	317.0	715.0	987.0	644.0	191.0	88.0	46.0	29.0	20.0	14.0	259.2
1953-54	45.0	162.0	542.0	682.0	914.0	573.0	200.0	98.0	55.0	38.0	23.9	22.8	279.6
1954-55	39.0	199.0	576.0	1360.0	1079.0	555.0	360.0	197.0	91.0	59.0	41.0	40.0	383.0
1955-56	50.0	200.0	564.0	1134.0	984.0	699.0	318.0	159.0	89.0	54.0	34.0	22.0	358.9
1956-57	20.0	75.0	288.0	1365.0	919.0	627.0	248.0	109.0	60.0	38.0	24.4	16.2	315.7
1957-58	14.9	100.0	344.0	1035.0	1370.0	1153.0	410.0	150.0	78.0	48.0	30.0	21.6	396.2
1958-59	35.0	104.0	391.0	1343.0	1022.0	574.0	362.0	190.0	90.0	55.0	35.0	21.3	351.8
1959-60	44.0	160.0	305.0	866.0	1115.0	471.0	228.0	93.0	52.0	33.0	21.3	14.6	283.5
1960-61	23.3	70.0	388.0	740.0	825.0	545.0	243.0	94.0	53.0	30.0	19.4	12.0	253.5
1962-63	29.0	55.0	317.0	807.0	1010.0	657.0	298.0	113.0	38.0	19.1	11.2	6.6	280.0
1963-64	5.9	11.5	199.0	710.0	981.0	864.0	259.0	80.0	28.0	16.2	9.2	5.8	264.1
1964-65	8.7	93.0	340.0	944.0	1299.0	545.0	237.0	106.0	55.0	34.0	21.0	12.0	307.8
1965-66	7.0	86.8	364.1	690.9	1217.0	604.5	261.3	102.5	64.3	40.0	28.1	20.9	290.6
1966-67	22.7	39.2	200.0	613.8	865.9	972.3	294.5	79.0	65.0	40.2	26.9	19.2	269.8
1967-68	23.6	120.5	361.9	1247.0	1410.0	876.1	304.0	126.7	69.4	46.1	28.8	18.5	386.0
1968-69	26.5	84.3	197.7	470.4	683.5	391.9	145.6	78.3	40.2	25.3	16.9	13.3	181.1
1969-70	11.0	57.0	328.0	691.0	1099.0	909.0	360.0	122.0	60.0	37.0	22.0	15.0	309.2
1970-71	16.0	46.0	180.0	867.0	901.0	338.0	121.0	64.0	40.0	25.0	17.0	13.0	219.0
1971-72	19.3	29.6	221.0	781.0	728.0	291.0	106.0	56.6	33.3	21.5	13.9	8.6	192.4
1972-73	9.1	96.6	270.0	541.0	721.0	414.0	145.0	90.0	42.0	25.0	16.2	9.8	198.3
1973-74	29.0	77.6	208.0	590.0	694.0	335.0	-1.0	54.0	33.3	21.5	14.3	9.0	-1.0
1974-75	7.2	67.0	334.0	752.0	804.0	495.0	141.0	67.0	43.0	27.7	17.8	12.3	230.6
AVG/MOYEN	22.6	90.0	328.8	861.1	983.1	615.1	249.1	105.3	55.7	34.6	22.3	15.8	282.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DAKKA SAIDOU
RIVER/COURS D EAU..... BAFING
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	259.2	8175.7	521.	16.51	1490.0	94.9	
1953-54	279.6	8818.7	562.	17.81	1220.0	77.7	
1954-55	383.0	12078.2	769.	24.39	1910.0	121.7	17.5
1955-56	358.9	11318.7	721.	22.86	2265.0	144.3	
1956-57	315.7	9959.0	634.	20.11	2920.0	186.0	18.0
1957-58	396.2	12494.8	796.	25.24	1985.0	126.4	11.6
1958-59	351.8	11096.2	707.	22.41	3450.0	219.7	19.0
1959-60	283.5	8942.8	570.	18.06	1739.0	110.8	19.0
1960-61	253.5	7996.2	509.	16.15	1039.0	66.2	
1962-63	280.0	8832.4	563.	17.84	1545.0	98.4	8.4
1963-64	264.1	8329.7	531.	16.82	1575.0	100.3	5.6
1964-65	307.8	9709.6	618.	19.61	1685.0	107.3	4.8
1965-66	290.6	9164.8	584.	18.51	1920.0	122.3	5.6
1966-67	269.8	8511.3	542.	17.19	2140.0	136.3	15.8
1967-68	386.0	12174.4	775.	24.59	2105.0	134.1	
1968-69	181.1	5713.0	364.	11.54	-1.0	-1.0	9.0
1969-70	309.2	9752.5	621.	19.70	1495.0	95.2	11.0
1970-71	219.0	6906.3	440.	13.95	1405.0	89.5	13.0
1971-72	192.4	6070.1	387.	12.26	1168.0	74.4	6.4
1972-73	198.3	6253.8	398.	12.63	1119.0	71.3	8.0
1973-74	----	----	----	----	968.0	61.7	10.0
1974-75	230.6	7274.3	463.	14.69	1329.0	84.6	

GAUGING STATION/STATION DE JAUGEAGE.... DIBIA
RIVER/COURS D EAU..... BAFING
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	13.0	59.0	336.0	1126.0	1453.0	2052.0	937.0	293.0	150.0	87.0	44.0	19.5	547.4
1952-53	7.9	36.0	428.0	1028.0	1489.0	1315.0	339.0	145.0	80.0	45.0	22.3	9.0	412.0
1953-54	4.5	148.0	657.0	1009.0	1450.0	739.0	265.0	120.0	67.0	40.0	20.0	11.0	377.5
1956-57	10.0	45.0	289.0	1800.0	1883.0	1041.0	349.0	157.0	81.0	48.0	27.0	14.2	478.6
1957-58	7.2	129.0	387.0	1534.0	2061.0	1803.0	652.0	213.0	112.0	59.0	34.0	18.0	584.0
1958-59	23.2	116.0	440.0	2529.0	1796.0	1009.0	484.0	262.0	126.0	65.0	40.0	19.2	575.7
1959-60	29.0	162.0	358.0	1364.0	1805.0	633.0	285.0	123.0	66.0	39.0	22.0	13.3	408.2
1960-61	6.4	66.0	528.0	1000.0	1316.0	755.0	314.0	126.0	68.0	38.0	22.2	14.7	354.5
1961-62	12.1	64.0	610.0	1737.0	2340.0	650.0	300.0	115.0	60.0	30.0	18.5	8.5	495.4
1962-63	11.2	12.4	215.0	1075.0	1773.0	998.0	548.0	144.0	89.0	48.0	23.9	12.5	412.5
1963-64	8.2	9.5	190.0	947.0	1496.0	1377.0	370.0	117.0	61.0	31.0	16.0	8.2	385.9
1964-65	8.5	114.0	382.0	1305.0	2619.0	806.0	300.0	116.0	73.0	46.0	27.0	15.1	484.3
1965-66	13.1	80.7	381.9	1502.0	2100.0	950.0	380.0	145.0	91.4	53.0	32.0	17.0	478.8
1966-67	14.0	50.0	220.0	984.3	1304.0	1650.0	415.7	190.0	91.0	60.0	41.0	18.0	419.8
1967-68	13.3	89.4	338.6	1690.0	2488.0	1430.0	413.8	200.4	113.0	44.0	30.0	15.0	572.1
1968-69	0.4	11.9	129.2	653.6	2148.0	519.2	171.1	90.1	47.6	7.9	14.9	5.6	316.6
1969-70	0.0	58.0	379.0	946.0	1684.0	1238.0	511.0	180.0	102.0	59.0	31.0	18.0	433.8
1970-71	12.4	56.2	197.0	1244.0	1520.0	474.0	199.0	116.0	63.5	35.3	15.9	0.6	327.8
1971-72	0.4	41.1	319.0	1423.0	1165.0	443.0	173.0	101.0	54.1	27.3	8.2	2.0	313.0
1972-73	1.0	95.8	263.0	625.0	916.0	434.0	195.0	122.0	62.3	28.3	1.0	0.5	228.6
1973-74	10.0	109.0	240.0	872.0	905.0	365.0	196.0	73.0	14.6	6.3	3.5	1.0	232.9
1974-75	0.5	59.0	437.0	1348.0	1230.0	703.0	188.0	105.0	60.3	32.2	13.8	1.0	348.1
AVG/MOYEN	9.3	73.2	351.1	1260.9	1679.1	972.0	362.9	147.8	78.7	42.2	23.0	10.9	417.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... DIBIA
RIVER/COURS D EAU..... BAFING
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 33000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	547.4	17264.6	523.	16.59	4417.0	133.8	
1952-53	412.0	12993.3	394.	12.49	2336.0	70.8	5.7
1953-54	377.5	11906.1	361.	11.44	2082.0	63.1	
1956-57	478.6	15095.7	457.	14.51	2850.0	86.4	
1957-58	584.0	18420.1	558.	17.70	2940.0	89.1	5.5
1958-59	575.7	18157.9	550.	17.45	5400.0	163.6	13.3
1959-60	408.2	12875.3	390.	12.37	2820.0	85.5	13.7
1960-61	354.5	11180.3	339.	10.74	1790.0	54.2	6.0
1961-62	495.4	15623.7	473.	15.01	-1.0	-1.0	
1962-63	412.5	13008.5	394.	12.50	2400.0	72.7	2.3
1963-64	385.9	12170.0	369.	11.69	2190.0	66.4	5.6
1964-65	484.3	15272.8	463.	14.68	4080.0	123.6	4.1
1965-66	478.8	15100.7	458.	14.51	2907.0	88.1	
1966-67	419.8	13239.8	401.	12.72	1678.0	50.8	0.0
1967-68	572.1	18042.5	547.	17.34	2672.0	81.0	9.0
1968-69	316.6	9985.0	303.	9.59	1490.0	45.2	0.0
1969-70	433.8	13681.3	415.	13.15	2190.0	66.4	7.9
1970-71	327.8	10338.2	313.	9.93	2304.0	69.8	0.0
1971-72	313.0	9873.6	299.	9.49	2810.0	85.2	
1972-73	228.6	7210.9	219.	6.93	1521.0	46.1	0.0
1973-74	232.9	7346.3	223.	7.06	1212.0	36.7	
1974-75	348.1	10979.2	333.	10.55	2995.0	90.8	

GAUGING STATION/STATION DE JAUGEAGE.... FADOUGOU
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9300.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	0.6	5.5	232.0	298.0	484.0	596.0	126.0	46.0	17.5	7.4	2.6	0.6	151.3
1953-54	2.7	29.0	144.0	430.0	410.0	170.0	73.0	46.0	26.0	11.2	4.4	1.8	112.3
1954-55	4.9	61.0	248.0	973.0	658.0	221.0	88.0	67.0	35.0	12.5	8.3	5.3	198.5
1955-56	6.1	14.1	170.0	683.0	499.0	235.0	99.0	56.0	33.0	18.0	8.6	4.2	152.1
1956-57	2.4	11.0	118.0	527.0	610.0	223.0	80.0	42.0	24.0	12.2	7.1	3.8	138.3
1957-58	2.1	27.0	102.0	471.0	339.0	282.0	92.0	48.0	27.0	13.6	7.9	4.3	117.9
1958-59	3.2	20.8	106.0	647.0	405.0	209.0	112.0	62.0	36.0	20.0	11.4	5.8	136.5
1959-60	3.0	16.1	117.0	452.0	529.0	173.0	69.0	38.0	21.8	12.3	7.4	3.4	120.1
1960-61	2.4	19.7	170.0	338.0	377.0	158.0	67.0	36.0	21.8	9.0	4.6	2.5	100.4
1961-62	0.9	32.0	165.0	400.0	660.0	130.0	56.0	34.0	15.5	8.5	2.2	1.0	125.4
1962-63	0.4	21.0	95.0	435.0	560.0	200.0	70.0	35.0	14.5	8.0	3.9	1.7	120.3
1963-64	0.7	0.9	82.0	315.0	343.0	234.0	64.0	26.0	11.1	5.1	2.0	0.7	90.3
1964-65	2.0	40.0	126.0	392.0	828.0	200.0	102.0	49.0	30.0	24.0	11.0	4.2	150.6
1965-66	1.1	16.0	89.0	590.0	540.0	280.0	97.0	45.5	28.0	14.4	7.4	4.9	142.7
1966-67	4.7	5.5	59.0	300.0	420.0	640.0	117.0	53.5	30.0	15.0	7.4	4.9	138.0
1967-68	1.0	21.5	131.6	346.0	661.4	394.8	102.7	52.6	36.0	20.6	9.4	3.6	148.4
1968-69	5.1	5.5	44.5	96.7	232.6	124.4	37.6	17.9	8.3	4.3	1.9	0.8	48.2
1969-70	0.3	12.0	102.6	256.4	375.0	336.0	103.7	40.0	19.4	8.7	3.0	1.7	104.8
1970-71	2.1	8.1	46.4	425.0	351.0	83.0	37.0	16.8	8.0	4.1	2.1	1.0	82.0
1971-72	0.7	2.5	58.4	466.0	359.0	89.5	35.3	14.2	6.3	3.0	1.4	1.4	86.4
1972-73	8.0	-1.0	32.1	122.0	134.0	61.3	19.5	12.6	4.7	2.1	0.6	0.0	-1.0
1973-74	0.0	4.9	20.2	223.0	160.0	44.4	13.0	5.0	2.1	1.0	0.1	0.0	39.4
1974-75	-1.0	-1.0	146.0	440.0	-1.0	131.0	39.4	16.0	7.2	3.6	1.5	0.5	-1.0
AVG/MOYEN	2.4	17.8	113.2	418.5	451.5	226.7	73.9	37.3	20.1	10.3	5.0	2.5	114.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... FADOUGOU
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 9300.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	151.3	4772.9	513.	16.27	1091.0	117.3	
1953-54	112.3	3542.8	381.	12.08	-1.0	-1.0	
1954-55	198.5	6259.8	673.	21.34	-1.0	-1.0	1.3
1955-56	152.1	4798.7	516.	16.36	1113.0	119.7	3.6
1956-57	138.3	4363.7	469.	14.88	1136.0	122.2	1.9
1957-58	117.9	3720.9	400.	12.69	911.0	98.0	1.4
1958-59	136.5	4305.1	463.	14.68	1321.0	142.0	2.5
1959-60	120.1	3789.5	407.	12.92	1245.0	133.9	2.0
1960-61	100.4	3169.3	341.	10.81	840.0	90.3	1.9
1961-62	125.4	3955.4	425.	13.49	2125.0	228.5	
1962-63	120.3	3796.1	408.	12.94	-1.0	-1.0	
1963-64	90.3	2850.0	306.	9.72	689.0	74.1	0.1
1964-65	150.6	4751.9	511.	16.20	1820.0	195.7	0.2
1965-66	142.7	4502.5	484.	15.35	-1.0	-1.0	
1966-67	138.0	4354.5	468.	14.85	-1.0	-1.0	0.2
1967-68	148.4	4680.9	503.	15.96	1058.0	113.8	0.1
1968-69	48.2	1523.1	164.	5.19	405.0	43.5	0.1
1969-70	104.8	3308.1	356.	11.28	583.0	62.7	1.5
1970-71	82.0	2587.5	278.	8.82	1148.0	123.4	0.1
1971-72	86.4	2727.0	293.	9.30	1016.0	109.2	0.1
1972-73	----	----	----	----	413.0	44.4	0.0
1973-74	39.4	1244.8	134.	4.24	426.0	45.8	0.0
1974-75	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... GALOUGO
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 126900.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 5- 6	14.0	215.0	920.0	2269.0	1996.0	1737.0	747.0	285.0	155.0	92.0	47.0	19.0	708.0
19 7- 8	9.1	110.0	305.0	916.0	1807.0	1031.0	440.0	205.0	115.0	67.0	30.0	9.1	420.3
19 8- 9	9.1	110.0	809.0	2152.0	2736.0	1094.0	383.0	260.0	145.0	84.0	40.0	15.0	653.0
19 9-10	16.0	380.0	850.0	2866.0	3200.0	1029.0	660.0	254.0	170.0	100.0	50.0	20.0	799.5
1910-11	9.1	110.0	515.0	1950.0	2542.0	999.0	370.0	170.0	110.0	63.0	28.0	9.1	572.9
1912-13	8.0	63.0	524.0	1310.0	2015.0	994.0	272.0	145.0	80.0	44.0	17.0	5.0	456.4
1913-14	8.0	95.0	220.0	176.0	778.0	557.0	220.0	120.0	68.0	37.0	14.0	4.0	191.4
1914-15	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1915-16	9.1	110.0	610.0	1910.0	1769.0	959.0	193.0	215.0	130.0	73.0	34.0	13.0	502.0
1916-17	9.1	112.0	806.0	1907.0	2505.0	1266.0	392.0	200.0	125.0	70.0	33.0	12.0	619.7
1917-18	9.1	113.0	278.0	1870.0	2541.0	889.0	376.0	180.0	105.0	58.0	25.0	9.0	537.7
1918-19	9.1	197.0	744.0	2795.0	3168.0	1722.0	407.0	310.0	175.0	105.0	50.0	20.0	808.5
1919-20	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1920-21	9.1	112.0	380.0	2000.0	3055.0	1034.0	315.0	190.0	109.0	58.0	26.0	9.0	608.0
1921-22	9.1	112.0	305.0	1309.0	1941.0	730.0	240.0	160.0	88.0	50.0	20.0	7.0	414.2
1922-23	9.1	112.0	493.0	2699.0	3747.0	1189.0	637.0	307.0	140.0	80.0	39.0	15.0	788.9
1923-24	9.1	112.0	510.0	1721.0	2826.0	1044.0	640.0	310.0	175.0	105.0	50.0	21.0	626.9
1924-25	9.1	224.0	1456.0	3202.0	3677.0	1739.0	664.0	308.0	175.0	105.0	50.0	20.0	969.0
1951-52	10.3	63.0	379.0	1373.0	2009.0	2592.0	1131.0	338.0	185.0	109.0	56.0	24.0	689.1
1952-53	6.7	38.0	505.0	1283.0	2094.0	1868.0	407.0	200.0	102.0	49.0	31.0	13.3	549.7
1953-54	2.8	169.0	233.0	1427.0	2237.0	1003.0	356.0	186.0	122.0	63.0	33.0	13.4	487.1
1954-55	2.8	234.0	1024.0	3456.0	3031.0	1308.0	570.0	331.0	170.0	96.0	53.0	39.0	859.5
1955-56	4.0	197.0	642.0	2948.0	3174.0	1772.0	630.0	291.0	170.0	100.0	56.0	25.0	834.0
1956-57	12.5	68.0	461.0	2279.0	3240.0	1704.0	504.0	232.0	134.0	77.0	40.0	17.6	730.7
1957-58	6.4	208.0	539.0	2612.0	3145.0	2438.0	761.0	293.0	166.0	94.0	50.0	23.2	861.2
1958-59	18.4	167.0	519.0	3760.0	2913.0	1541.0	672.0	355.0	192.0	110.0	63.0	28.0	861.5
1959-60	26.0	184.0	460.0	2079.0	2836.0	915.0	380.0	179.0	104.0	58.0	29.0	11.8	605.1
1960-61	3.9	89.0	899.0	1414.0	2086.0	1042.0	397.0	171.0	95.0	56.0	29.0	10.8	524.3
1961-62	3.4	109.0	733.0	2724.0	3589.0	1030.0	380.0	171.0	96.0	52.0	25.0	7.5	743.3
1962-63	5.4	101.0	505.0	1894.0	2512.0	1320.0	486.0	217.0	116.0	66.0	30.0	10.7	605.2
1963-64	3.3	6.6	382.0	1266.0	2179.0	1790.0	509.0	191.0	119.0	53.0	24.0	7.9	544.2
1964-65	2.8	162.0	568.0	2059.0	3995.0	1403.0	446.0	226.0	123.0	66.0	34.0	10.0	757.9
1965-66	6.9	107.0	491.0	2435.0	3145.0	1461.0	495.0	226.0	139.0	86.0	46.0	20.0	721.4
1966-67	13.2	75.0	301.0	1383.0	2380.0	2716.0	651.0	269.0	151.0	97.0	53.0	21.0	675.8
1967-68	10.6	106.0	544.0	2344.0	3875.0	2011.0	597.0	291.0	179.0	100.0	50.0	25.0	844.3
1968-69	13.6	110.0	398.0	1043.0	1793.0	720.0	248.0	143.0	73.0	39.0	18.6	4.1	383.6
1969-70	1.9	42.0	580.0	1393.0	2868.0	1802.0	728.0	249.0	130.0	72.0	33.0	19.8	659.8
1970-71	6.6	36.6	276.0	1890.0	2216.0	668.0	227.0	128.0	66.0	37.0	18.4	6.4	464.6
1971-72	3.5	28.0	458.0	2241.0	2120.0	625.0	196.0	108.0	54.0	30.2	13.5	3.5	490.0
1972-73	0.1	86.1	290.0	782.0	1036.0	473.0	189.0	111.1	78.0	40.0	19.0	6.0	259.1
1973-74	0.1	139.0	329.0	1601.0	1207.0	433.0	159.0	73.7	37.8	20.4	10.0	1.8	334.3
1974-75	0.0	41.5	581.0	2184.0	2012.0	919.0	238.0	111.0	55.0	31.2	15.0	4.5	516.0
AVG/MOYEN	8.0	121.3	545.5	1973.0	2549.8	1289.1	457.8	217.7	123.0	69.8	34.5	14.0	617.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GALOUGO
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 126900.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 5- 6	708.0	22327.4	176.	5.58	2985.0	23.5	
19 7- 8	420.3	13256.1	104.	3.31	2580.0	20.3	
19 8- 9	653.0	20595.8	162.	5.15	4175.0	32.9	
19 9-10	799.5	25215.6	199.	6.30	4860.0	38.3	
1910-11	572.9	18068.0	142.	4.51	3405.0	26.8	
1912-13	456.4	14393.5	113.	3.60	-1.0	-1.0	
1913-14	191.4	6036.5	48.	1.51	920.0	7.2	
1914-15	----	----	----	----	2110.0	16.6	
1915-16	502.0	15833.9	125.	3.96	2985.0	23.5	
1916-17	619.7	19544.6	154.	4.88	3575.0	28.2	
1917-18	537.7	16958.7	134.	4.24	4430.0	34.9	
1918-19	808.5	25497.1	201.	6.37	4860.0	38.3	
1919-20	----	----	----	----	2900.0	22.9	
1920-21	608.0	19176.7	151.	4.79	-1.0	-1.0	
1921-22	414.2	13064.0	103.	3.26	2740.0	21.6	
1922-23	788.9	24879.5	196.	6.22	4475.0	35.3	
1923-24	626.9	19770.7	156.	4.94	4300.0	33.9	
1924-25	969.0	30561.2	241.	7.64	4430.0	34.9	
1951-52	689.1	21731.7	171.	5.43	5075.0	40.0	1.9
1952-53	549.7	17336.9	137.	4.33	4730.0	37.3	4.2
1953-54	487.1	15361.1	121.	3.84	3615.0	28.5	1.2
1954-55	859.5	27107.2	214.	6.77	5350.0	42.2	9.2
1955-56	834.0	26303.6	207.	6.57	4475.0	35.3	28.0
1956-57	730.7	23045.1	182.	5.76	4405.0	34.7	10.1
1957-58	861.2	27161.9	214.	6.79	4060.0	32.0	9.4
1958-59	861.5	27169.3	214.	6.79	6880.0	54.2	10.1
1959-60	605.1	19084.0	150.	4.77	4560.0	35.9	11.0
1960-61	524.3	16537.2	130.	4.13	3650.0	28.8	2.2
1961-62	743.3	23441.4	185.	5.86	4645.0	36.6	2.0
1962-63	605.2	19087.4	150.	4.77	3280.0	25.8	3.9
1963-64	544.2	17162.9	135.	4.29	3530.0	27.8	1.7
1964-65	757.9	23901.1	188.	5.97	5375.0	42.4	2.0
1965-66	721.4	22752.9	179.	5.69	4550.0	35.9	4.0
1966-67	675.8	21313.6	168.	5.33	4256.0	33.5	7.8
1967-68	844.3	26628.4	210.	6.65	4080.0	32.2	9.8
1968-69	383.6	12097.4	95.	3.02	3051.0	24.0	0.7
1969-70	659.8	20810.3	164.	5.20	3649.0	28.8	2.9
1970-71	464.6	14653.7	115.	3.66	3344.0	26.4	2.0
1971-72	490.0	15454.4	122.	3.86	3925.0	30.9	0.0
1972-73	259.1	8173.8	64.	2.04	1715.0	13.5	0.0
1973-74	334.3	10543.0	83.	2.63	2696.0	21.2	0.0
1974-75	516.0	16273.1	128.	4.07	5277.0	41.6	

GAUGING STATION/STATION DE JAUGEAGE.... GOURBASSI
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1954-55	1.1	53.0	293.0	1012.0	835.0	266.0	126.0	57.0	28.0	15.6	8.4	3.3	224.8
1955-56	3.2	20.4	161.0	1013.0	860.0	401.0	120.0	52.0	30.0	16.0	8.2	2.7	223.9
1956-57	0.9	8.9	119.0	637.0	1079.0	327.0	91.0	41.0	22.2	11.9	6.2	2.1	195.5
1957-58	0.7	35.0	121.0	635.0	692.0	424.0	121.0	49.0	24.2	12.3	6.0	2.0	176.8
1958-59	3.2	16.8	134.0	869.0	616.0	327.0	138.0	70.0	34.0	17.1	10.3	4.5	186.6
1959-60	1.9	13.9	138.0	588.0	801.0	231.0	78.0	34.0	18.7	9.9	4.4	1.8	160.0
1960-61	0.7	31.0	185.0	448.0	537.0	238.0	73.0	32.0	16.7	9.8	4.3	1.3	131.3
1961-62	0.5	34.0	185.0	600.0	1064.0	191.0	61.0	34.0	20.0	7.6	2.2	1.0	183.3
1962-63	0.3	22.5	113.0	585.0	916.0	300.0	81.0	35.0	15.8	7.9	3.0	0.9	173.3
1963-64	0.5	0.7	169.0	469.0	608.0	372.0	83.0	31.0	15.2	6.1	2.1	0.6	146.4
1964-65	0.2	48.0	187.0	507.0	1260.0	285.0	88.0	41.0	20.0	10.0	6.0	2.5	204.5
1965-66	0.5	19.3	106.2	790.8	885.9	419.1	118.9	44.9	25.9	13.6	6.5	2.9	202.8
1966-67	2.5	5.0	71.2	407.6	712.1	960.2	146.5	52.8	27.2	14.1	6.5	2.9	200.7
1967-68	1.1	38.7	158.0	500.0	1107.0	591.1	133.0	56.7	32.0	16.0	8.0	3.0	220.3
1968-69	4.1	6.3	36.4	135.3	368.4	176.6	42.4	21.6	10.2	4.4	1.4	0.3	67.2
1969-70	0.3	14.7	134.2	425.0	580.0	483.0	144.0	44.7	21.1	11.0	4.0	1.2	155.2
1970-71	0.4	2.5	51.8	649.0	555.0	111.0	41.8	19.5	9.8	4.4	1.5	0.5	120.5
1971-72	-1.0	-1.0	79.0	726.0	594.0	143.0	40.6	18.0	8.0	3.0	0.9	0.0	-1.0
1972-73	0.0	7.1	41.4	206.0	185.0	64.3	22.8	12.9	4.5	1.6	0.2	0.0	45.4
AVG/MOYEN	1.2	20.9	130.6	589.6	750.2	332.1	92.1	39.3	20.1	10.1	4.7	1.7	166.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GOURBASSI
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 15000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1954-55	224.8	7091.3	473.	14.99	1795.0	119.7	0.4
1955-56	223.9	7062.7	471.	14.93	1480.0	98.7	1.6
1956-57	195.5	6165.8	411.	13.03	1550.0	103.3	0.7
1957-58	176.8	5577.1	372.	11.79	1345.0	89.7	0.4
1958-59	186.6	5886.4	392.	12.44	1465.0	97.7	0.6
1959-60	160.0	5047.3	336.	10.67	1420.0	94.7	1.3
1960-61	131.3	4143.8	276.	8.76	952.0	63.5	0.4
1961-62	183.3	5782.3	385.	12.22	1915.0	127.7	0.4
1962-63	173.3	5467.2	364.	11.56	1285.0	85.7	
1963-64	146.4	4617.9	308.	9.76	1090.0	72.7	0.4
1964-65	204.5	6450.9	430.	13.64	2090.0	139.3	
1965-66	202.8	6397.8	427.	13.52	1488.0	99.2	0.3
1966-67	200.7	6329.8	422.	13.38	1545.0	103.0	1.8
1967-68	220.3	6950.0	463.	14.69	1449.0	96.6	1.4
1968-69	67.2	2121.8	141.	4.49	726.0	48.4	0.0
1969-70	155.2	4896.4	326.	10.35	784.0	52.3	0.2
1970-71	120.5	3803.2	254.	8.04	982.0	65.5	0.0
1971-72	----	----	----	----	1167.0	77.8	0.0
1972-73	45.4	1434.3	96.	3.03	443.0	29.5	

GAUGING STATION/STATION DE JAUGEAGE.... KAYES
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 157400.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 3- 4	9.1	108.0	526.0	1794.0	2318.0	810.0	280.0	160.0	90.0	48.0	16.0	5.0	513.6
19 4- 5	-1.0	-1.0	562.0	-1.0	2243.0	862.0	405.0	170.0	105.0	58.0	24.0	8.0	-1.0
19 5- 6	15.0	210.0	862.0	2448.0	1980.0	1776.0	725.0	280.0	155.0	92.0	44.0	17.0	717.0
19 6- 7	9.1	108.0	1050.0	3783.0	3279.0	1196.0	520.0	230.0	130.0	75.0	35.0	13.0	869.0
19 7- 8	9.1	108.0	296.0	813.0	1823.0	968.0	433.0	200.0	112.0	64.0	28.0	9.0	405.2
19 8- 9	9.1	120.0	823.0	2352.0	3156.0	1214.0	473.0	250.0	140.0	80.0	38.0	14.0	722.4
19 9-10	9.1	377.0	921.0	3024.0	3279.0	1114.0	703.0	290.0	165.0	96.0	47.0	18.0	836.9
1910-11	9.1	108.0	503.0	1951.0	2692.0	1023.0	410.0	190.0	106.0	60.0	26.0	9.0	590.5
1911-12	9.1	108.0	425.0	1418.0	2041.0	756.0	342.0	170.0	96.0	54.0	22.0	7.0	454.0
1912-13	7.0	60.0	491.0	1326.0	2057.0	978.0	298.0	140.0	78.0	42.0	16.0	4.0	458.0
1913-14	7.0	90.0	214.0	532.0	747.0	472.0	215.0	115.0	65.0	35.0	13.0	3.0	209.0
1914-15	-1.0	-1.0	-1.0	-1.0	1404.0	914.0	237.0	130.0	75.0	40.0	15.0	4.0	-1.0
1915-16	9.1	108.0	597.0	1931.0	2049.0	1008.0	382.0	220.0	125.0	70.0	32.0	12.0	545.2
1916-17	9.1	108.0	811.0	1883.0	2723.0	1238.0	383.0	215.0	120.0	68.0	31.0	11.0	633.3
1917-18	9.1	108.0	243.0	1903.0	2626.0	870.0	295.0	180.0	102.0	56.0	24.0	8.0	535.3
1918-19	9.1	190.0	730.0	2580.0	3180.0	1723.0	540.0	300.0	170.0	100.0	48.0	19.0	799.0
1919-20	-1.0	-1.0	362.0	1469.0	1819.0	750.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1920-21	9.1	108.0	376.0	2041.0	3128.0	998.0	310.0	180.0	104.0	56.0	24.0	8.0	611.8
1921-22	9.1	108.0	295.0	1189.0	1908.0	646.0	270.0	155.0	85.0	48.0	19.0	6.0	394.8
1922-23	9.1	108.0	490.0	2724.0	4525.0	2100.0	612.0	237.0	136.0	78.0	37.0	14.0	922.5
1923-24	9.1	108.0	450.0	1635.0	2960.0	1055.0	625.0	300.0	170.0	100.0	48.0	20.0	623.3
1924-25	-1.0	-1.0	1394.0	3301.0	3876.0	1767.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1925-26	9.1	108.0	555.0	2063.0	2812.0	2204.0	638.0	270.0	155.0	90.0	43.0	16.0	746.9
1926-27	9.1	108.0	555.0	1505.0	1536.0	800.0	420.0	210.0	120.0	70.0	30.0	10.0	447.7
1927-28	9.1	108.0	578.0	2371.0	3440.0	2130.0	761.0	310.0	175.0	105.0	50.0	20.0	838.0
1928-29	9.1	108.0	341.0	2534.0	3439.0	1442.0	660.0	275.0	155.0	90.0	44.0	17.0	759.5
1929-30	9.1	305.0	660.0	2383.0	3294.0	1147.0	481.0	235.0	130.0	75.0	35.0	18.0	731.0
1930-31	9.1	135.0	491.0	2005.0	2477.0	1432.0	478.0	215.0	122.0	68.0	32.0	11.0	622.9
1931-32	9.1	140.0	707.0	1465.0	2400.0	1641.0	414.0	225.0	127.0	72.0	34.0	12.0	603.8
1932-33	9.1	145.0	992.0	2792.0	2840.0	1147.0	485.0	245.0	138.0	80.0	37.0	14.0	743.6
1933-34	9.1	250.0	1258.0	2873.0	2652.0	884.0	342.0	200.0	112.0	64.0	28.0	9.0	723.4
1934-35	9.1	108.0	249.0	2103.0	2559.0	1104.0	388.0	190.0	110.0	60.0	31.0	3.0	576.1
1935-36	9.1	109.0	889.0	3730.0	3610.0	1883.0	491.0	230.0	130.0	75.0	34.0	13.0	933.5
1936-37	9.1	108.0	499.0	3803.0	4204.0	1727.0	528.0	210.0	148.0	86.0	40.0	15.0	948.0
1937-38	9.1	108.0	308.0	1573.0	2327.0	969.0	365.0	180.0	100.0	56.0	24.0	8.0	502.2
1938-39	9.1	108.0	437.0	1801.0	3199.0	1329.0	579.0	230.0	130.0	75.0	34.0	13.0	662.0
1939-40	9.1	108.0	281.0	1711.0	1554.0	1004.0	320.0	160.0	70.0	50.0	20.0	6.0	441.0
1940-41	9.1	108.0	195.0	997.0	1096.0	931.0	375.0	190.0	105.0	60.0	26.0	8.0	341.6
1941-42	9.1	108.0	304.0	907.0	1651.0	535.0	220.0	125.0	70.0	38.0	14.0	3.5	332.0
1942-43	9.1	109.0	370.0	1672.0	1269.0	447.0	260.0	150.0	84.0	46.0	18.0	5.0	369.9
1943-44	9.1	108.0	281.0	1705.0	2269.0	1358.0	315.0	175.0	98.0	55.0	23.0	7.0	533.5
1944-45	9.1	137.0	220.0	768.0	1283.0	484.0	260.0	140.0	78.0	43.0	21.0	4.5	287.2

1945-46	9.1	108.0	300.0	2545.0	3473.0	1439.0	460.0	255.0	145.0	85.0	39.0	15.0	739.4
1946-47	9.1	109.0	415.0	2251.0	2397.0	1439.0	456.0	210.0	118.0	67.0	30.0	10.0	625.9
1947-48	9.1	108.0	255.0	1362.0	2157.0	779.0	300.0	170.0	95.0	53.0	22.0	7.0	443.0
1948-49	9.1	109.0	544.0	1656.0	2264.0	864.0	400.0	220.0	124.0	70.0	32.0	11.0	525.2
1949-50	4.0	20.0	330.0	2027.0	1487.0	621.0	285.0	165.0	93.0	52.0	21.0	7.0	426.0
1950-51	2.8	19.0	466.0	2224.0	3856.0	2492.0	642.0	242.0	125.0	62.0	30.0	10.5	847.6
1951-52	6.5	69.0	356.0	1368.0	1999.0	2625.0	1147.0	346.0	190.0	119.0	55.0	23.0	691.9
1952-53	7.7	32.0	473.0	1259.0	2180.0	2006.0	431.0	199.0	108.0	55.0	27.0	12.0	565.8
1953-54	3.9	149.0	831.0	1432.0	2409.0	1023.0	389.0	201.0	133.0	72.0	32.0	9.5	557.0
1954-55	18.0	224.0	949.0	3610.0	3214.0	1343.0	554.0	330.0	171.0	96.0	52.0	33.0	882.8
1955-56	39.0	194.0	606.0	2931.0	3232.0	1909.0	631.0	298.0	176.0	105.0	54.0	17.0	849.3
1956-57	7.5	48.0	436.0	2191.0	3488.0	1750.0	503.0	234.0	136.0	77.0	39.0	14.0	743.6
1957-58	5.4	199.0	523.0	2562.0	3295.0	2451.0	752.0	295.0	168.0	98.0	48.0	19.0	867.9
1958-59	12.0	162.0	479.0	3625.0	3025.0	1563.0	643.0	350.0	191.0	110.0	61.0	23.0	853.6
1959-60	17.0	161.0	435.0	2159.0	2987.0	928.0	377.0	181.0	106.0	55.0	24.0	9.0	619.9
1960-61	3.1	75.0	726.0	1446.0	2133.0	1045.0	402.0	177.0	99.0	55.0	25.0	8.0	516.1
1961-62	2.9	78.0	713.0	2768.0	3723.0	1051.0	373.0	174.0	97.0	51.0	21.0	5.7	754.7
1962-63	2.7	81.0	456.0	1927.0	2609.0	1313.0	478.0	218.0	117.0	64.0	27.0	9.2	608.4
1963-64	5.7	10.0	370.0	1279.0	2306.0	1792.0	516.0	197.0	107.0	52.0	22.0	6.3	555.2
1964-65	2.9	128.0	519.0	2100.0	4135.0	1462.0	453.0	227.0	136.0	78.0	32.0	11.5	773.7
1965-66	4.8	69.3	459.4	2584.0	3994.0	1491.0	546.9	221.1	114.0	60.2	30.4	14.2	799.1
1966-67	9.7	45.3	300.7	1302.0	2285.0	2618.0	690.1	279.7	141.2	73.2	36.7	15.3	649.7
1967-68	8.5	74.5	524.8	2181.0	3822.0	1978.0	641.6	292.2	167.2	99.2	51.5	20.2	821.7
1968-69	12.5	82.3	406.4	1042.0	1690.0	755.4	265.5	144.1	70.5	35.2	15.9	5.6	377.1
1969-70	2.0	32.0	581.0	1404.0	2758.0	1729.0	716.0	249.0	142.0	90.0	43.0	21.2	647.2
1970-71	7.5	38.9	272.0	1875.0	2153.0	639.0	241.0	131.0	81.5	48.8	24.0	7.7	459.9
1971-72	2.0	16.0	415.0	2195.0	2099.0	615.0	219.0	120.0	69.0	38.0	18.0	6.0	484.3
1972-73	3.0	74.0	300.0	720.0	952.0	470.0	214.0	122.0	65.0	35.0	13.0	3.0	247.5
1973-74	2.4	128.0	332.0	1529.0	1153.0	445.0	181.0	82.0	45.4	25.6	10.9	5.1	328.2
1974-75	1.2	20.0	532.0	2186.0	1973.0	864.0	278.0	128.0	65.3	40.6	20.3	8.9	509.7
1975-76	3.0	0.4	443.0	998.0	2030.0	815.0	296.0	133.0	72.7	40.8	17.5	3.8	404.4
AVG/MOYEN	8.4	110.6	518.6	1994.3	2561.6	1248.6	446.7	209.4	117.6	66.7	30.6	11.1	610.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KAYES
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 157400.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 3- 4	513.6	16199.2	103.	3.26	3415.0	21.7	
19 4- 5	----	----	----	----	3825.0	24.3	
19 5- 6	717.0	22611.3	144.	4.56	3290.0	20.9	
19 6- 7	869.0	27405.0	174.	5.52	4805.0	30.5	
19 7- 8	405.2	12780.2	81.	2.57	2530.0	16.1	
19 8- 9	722.4	22782.3	145.	4.59	4485.0	28.5	
19 9-10	836.9	26393.2	168.	5.32	4790.0	30.4	
1910-11	590.5	18624.8	118.	3.75	3505.0	22.3	
1911-12	454.0	14317.6	91.	2.88	2625.0	16.7	
1912-13	458.0	14446.1	92.	2.91	3135.0	19.9	
1913-14	209.0	6591.0	42.	1.33	1005.0	6.4	
1914-15	----	----	----	----	2085.0	13.2	
1915-16	545.2	17195.2	109.	3.46	3070.0	19.5	
1916-17	633.3	19973.0	127.	4.02	3605.0	22.9	
1917-18	535.3	16882.5	107.	3.40	4235.0	26.9	
1918-19	799.0	25200.1	160.	5.08	4610.0	29.3	
1919-20	----	----	----	----	2975.0	18.9	
1920-21	611.8	19295.0	123.	3.89	5475.0	34.8	
1921-22	394.8	12451.7	79.	2.51	2660.0	16.9	
1922-23	922.5	29092.2	185.	5.86	5880.0	37.4	
1923-24	623.3	19657.7	125.	3.96	3855.0	24.5	
1924-25	----	----	----	----	4550.0	28.9	
1925-26	746.9	23555.0	150.	4.75	4360.0	27.7	
1926-27	447.7	14120.5	90.	2.84	2215.0	14.1	
1927-28	838.0	26430.0	168.	5.32	4425.0	28.1	
1928-29	759.5	23951.8	152.	4.83	4425.0	28.1	
1929-30	731.0	23053.0	146.	4.64	4295.0	27.3	
1930-31	622.9	19644.5	125.	3.96	3605.0	22.9	
1931-32	603.8	19042.7	121.	3.84	3785.0	24.0	
1932-33	743.6	23452.5	149.	4.72	4295.0	27.3	
1933-34	723.4	22813.9	145.	4.60	5380.0	34.2	
1934-35	576.1	18170.2	115.	3.66	4235.0	26.9	
1935-36	933.5	29441.7	187.	5.93	5765.0	36.6	
1936-37	948.0	29899.0	190.	6.02	5730.0	36.4	
1937-38	502.2	15839.2	101.	3.19	2785.0	17.7	
1938-39	662.0	20877.0	133.	4.21	4485.0	28.5	
1939-40	441.0	13910.2	88.	2.80	3260.0	20.7	
1940-41	341.6	10775.0	68.	2.17	1790.0	11.4	
1941-42	332.0	10471.5	67.	2.11	2785.0	17.7	
1942-43	369.9	11665.9	74.	2.35	3035.0	19.3	
1943-44	533.5	16827.3	107.	3.39	3165.0	20.1	
1944-45	287.2	9060.2	58.	1.83	1620.0	10.3	
1945-46	739.4	23318.5	148.	4.70	4805.0	30.5	

1946-47	625.9	19739.1	125.	3.98	3730.0	23.7	
1947-48	443.0	13973.3	89.	2.82	3035.0	19.3	
1948-49	525.2	16564.5	105.	3.34	4080.0	25.9	
1949-50	426.0	13434.3	85.	2.71	4170.0	26.5	
1950-51	847.6	26730.1	170.	5.39	5945.0	37.8	2.2
1951-52	691.9	21821.5	139.	4.40	4675.0	29.7	6.4
1952-53	565.8	17843.3	113.	3.59	4015.0	25.5	4.6
1953-54	557.0	17566.6	112.	3.54	3710.0	23.6	2.7
1954-55	882.8	27841.0	177.	5.61	5290.0	33.6	6.7
1955-56	849.3	26784.5	170.	5.40	4500.0	28.6	19.0
1956-57	743.6	23450.9	149.	4.72	4890.0	31.1	4.6
1957-58	867.9	27371.6	174.	5.51	4185.0	26.6	3.6
1958-59	853.6	26921.2	171.	5.42	6840.0	43.5	7.0
1959-60	619.9	19549.6	124.	3.94	4295.0	27.3	7.0
1960-61	516.1	16278.0	103.	3.28	3480.0	22.1	2.0
1961-62	754.7	23803.3	151.	4.80	4740.0	30.1	2.0
1962-63	608.4	19189.3	122.	3.87	3325.0	21.1	2.1
1963-64	555.2	17510.3	111.	3.53	3260.0	20.7	2.2
1964-65	773.7	24399.4	155.	4.92	5400.0	34.3	2.1
1965-66	799.1	25200.6	160.	5.08	4964.0	31.5	1.6
1966-67	649.7	20490.2	130.	4.13	4083.0	25.9	6.0
1967-68	821.7	25913.9	165.	5.22	4555.0	28.9	6.0
1968-69	377.1	11892.7	76.	2.40	2675.0	17.0	10.8
1969-70	647.2	20412.2	130.	4.11	3576.0	22.7	5.0
1970-71	459.9	14504.9	92.	2.92	3272.0	20.8	1.0
1971-72	484.3	15273.9	97.	3.08	3667.0	23.3	1.0
1972-73	247.5	7807.7	50.	1.57	1450.0	9.2	0.2
1973-74	328.2	10352.7	66.	2.09	2550.0	16.2	0.1
1974-75	509.7	16076.2	102.	3.24	5452.0	34.6	0.1
1975-76	404.4	12754.2	81.	2.57	3378.0	21.5	

GAUGING STATION/STATION DE JAUGEAGE.... KIDIRA
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 28900.0

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S) **

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1930-31	1.0	10.0	88.0	870.0	975.0	458.0	67.0	34.0	18.0	8.0	4.0	1.0	211.1
1931-32	1.0	24.0	269.0	462.0	831.0	468.0	85.0	43.0	22.0	10.0	5.0	2.0	185.1
1932-33	1.0	11.0	253.0	616.0	570.0	320.0	59.0	28.0	14.0	7.0	3.0	1.0	156.9
1933-34	1.0	112.0	404.0	1259.0	722.0	202.0	55.0	26.0	14.0	7.0	3.0	1.0	233.8
1934-35	1.0	24.0	82.0	939.0	917.0	229.0	66.0	29.0	13.0	7.0	3.0	1.0	192.5
1935-36	1.0	24.0	255.0	1423.0	1491.0	636.0	127.0	55.0	27.0	14.0	6.0	2.0	338.4
1936-37	1.0	38.0	101.0	1078.0	1480.0	542.0	196.0	52.0	23.0	12.0	6.0	2.0	294.2
1937-38	1.0	24.0	114.0	453.0	950.0	261.0	136.0	37.0	17.0	9.0	4.0	1.0	167.2
1938-39	1.0	24.0	103.0	417.0	1107.0	482.0	375.0	69.0	29.0	15.0	7.0	2.0	219.2
1939-40	1.0	24.0	86.0	637.0	526.0	325.0	59.0	28.0	14.0	7.0	3.0	1.0	142.5
1940-41	1.0	24.0	90.0	341.0	218.0	401.0	147.0	38.0	18.0	9.0	4.0	1.0	107.6
1941-42	1.0	24.0	116.0	328.0	583.0	169.0	39.0	19.0	8.0	5.0	2.0	1.0	107.9
1942-43	1.0	24.0	50.0	528.0	332.0	64.0	25.0	13.0	6.0	4.0	2.0	1.0	87.5
1944-45	1.0	24.0	50.0	153.0	338.0	136.0	57.0	23.0	11.0	6.0	2.0	1.0	66.8
1946-47	1.0	24.0	100.0	738.0	831.0	402.0	59.0	27.0	13.0	7.0	3.0	1.0	183.8
1950-51	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1951-52	0.3	5.8	64.0	327.0	693.0	1341.0	301.0	76.0	34.0	14.6	6.9	2.2	238.8
1952-53	0.7	0.2	133.0	401.0	792.0	1096.0	132.0	49.0	23.1	9.0	4.6	1.6	220.1
1953-54	0.4	9.7	144.0	357.0	725.0	214.0	70.0	28.0	13.5	8.3	3.6	1.4	131.2
1954-55	0.3	60.0	253.0	1123.0	1189.0	289.0	126.0	60.0	29.0	13.6	7.2	3.0	262.7
1955-56	0.8	43.0	180.0	1222.0	1032.0	572.0	126.0	55.0	28.0	13.8	7.4	3.5	273.6
1956-57	1.3	10.6	137.0	601.0	1780.0	368.0	97.0	43.0	20.0	9.0	4.6	2.0	256.1
1957-58	0.9	49.0	122.0	735.0	1141.0	500.0	129.0	52.0	23.8	10.7	4.9	2.2	230.8
1958-59	1.2	33.0	131.0	990.0	795.0	370.0	143.0	80.0	29.0	12.9	7.8	3.0	216.3
1959-60	1.2	13.8	73.0	855.0	1118.0	242.0	71.0	34.0	16.2	8.1	4.1	1.9	203.1
1960-61	1.1	7.1	191.0	551.0	625.0	250.0	70.0	30.0	14.8	8.1	3.8	1.8	146.1
1961-62	0.5	35.0	188.0	706.0	1709.0	209.0	61.0	25.0	11.2	6.1	2.6	0.9	246.1
1962-63	0.2	22.4	122.0	746.0	1245.0	324.0	110.0	35.0	16.9	7.9	3.9	1.7	219.5
1963-64	0.4	0.9	170.0	524.0	746.0	395.0	83.0	31.0	13.8	6.3	2.8	0.8	164.4
1964-65	0.1	41.0	180.0	714.0	1805.0	329.0	93.0	44.0	19.6	9.9	5.0	2.1	270.2
1965-66	0.3	22.9	108.9	1078.0	1265.0	422.4	123.7	45.8	23.4	11.6	5.7	3.2	259.2
1966-67	1.5	6.4	78.6	483.1	863.6	1523.0	153.5	55.6	24.9	12.0	5.7	3.2	267.5
1967-68	0.7	48.2	149.7	500.7	1485.0	742.2	139.0	60.5	30.3	15.5	6.8	3.2	265.1
1968-69	1.5	2.7	70.4	161.0	381.0	199.6	48.6	22.1	6.7	3.4	0.8	0.0	74.8
1969-70	0.0	13.7	148.0	491.0	664.0	483.0	164.0	43.2	19.9	9.9	5.4	1.6	170.3
1970-71	0.5	0.2	116.0	742.0	568.0	106.0	40.8	14.2	10.0	4.7	1.6	0.1	133.6
1971-72	0.0	6.8	81.1	525.0	682.0	142.0	39.1	14.9	7.6	3.8	1.0	0.1	125.2
1972-73	0.0	3.8	40.3	193.0	169.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973-74	-1.0	-1.0	40.2	458.0	314.0	78.4	13.4	7.4	-1.0	-1.0	-1.0	-1.0	-1.0
1974-75	0.0	0.0	222.0	899.0	589.0	226.0	43.4	13.9	7.1	3.6	1.4	0.2	167.1
AVG/MOYEN	0.7	22.9	136.0	657.0	878.1	408.3	103.4	37.9	18.1	8.9	4.1	1.5	189.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KIDIRA
RIVER/COURS D EAU..... FALEME
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 28900.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1930-31	211.1	6659.3	230.	7.31	1760.0	60.9	
1931-32	185.1	5839.4	202.	6.41	1650.0	57.1	
1932-33	156.9	4948.5	171.	5.43	1500.0	51.9	
1933-34	233.8	7374.1	255.	8.09	2214.0	76.6	
1934-35	192.5	6073.3	210.	6.66	2268.0	78.5	
1935-36	338.4	10672.3	369.	11.71	2160.0	74.7	
1936-37	294.2	9279.4	321.	10.18	2268.0	78.5	
1937-38	167.2	5274.3	183.	5.79	1470.0	50.9	
1938-39	219.2	6914.2	239.	7.59	2056.0	71.1	
1939-40	142.5	4496.5	156.	4.93	1026.0	35.5	
1940-41	107.6	3395.3	117.	3.73	1175.0	40.7	
1941-42	107.9	3403.2	118.	3.73	1147.0	39.7	
1942-43	87.5	2759.4	95.	3.03	1280.0	44.3	
1944-45	66.8	2107.6	73.	2.31	516.0	17.9	
1946-47	183.8	5797.3	201.	6.36	1910.0	66.1	
1950-51	----	----	----	----	2415.0	83.6	
1951-52	238.8	7531.3	261.	8.26	2680.0	92.7	0.2
1952-53	220.1	6943.7	240.	7.62	1990.0	68.9	0.1
1953-54	131.2	4138.8	143.	4.54	1250.0	43.3	0.1
1954-55	262.7	8286.3	287.	9.09	2695.0	93.3	0.1
1955-56	273.6	8629.0	299.	9.47	1885.0	65.2	0.9
1956-57	256.1	8077.1	279.	8.86	2660.0	92.0	0.6
1957-58	230.8	7280.8	252.	7.99	2170.0	75.1	0.2
1958-59	216.3	6822.0	236.	7.49	1980.0	68.5	0.4
1959-60	203.1	6407.8	222.	7.03	1925.0	66.6	0.2
1960-61	146.1	4608.7	159.	5.06	1135.0	39.3	0.5
1961-62	246.1	7763.9	269.	8.52	3120.0	108.0	0.0
1962-63	219.5	6924.7	240.	7.60	1980.0	68.5	0.0
1963-64	164.4	5187.6	180.	5.69	1200.0	41.5	0.0
1964-65	270.2	8521.8	295.	9.35	2855.0	98.8	0.0
1965-66	259.2	8175.4	283.	8.97	2290.0	79.2	
1966-67	267.5	8438.7	292.	9.26	2659.0	92.0	0.0
1967-68	265.1	8361.7	289.	9.17	2013.0	69.7	2.3
1968-69	74.8	2359.4	82.	2.59	766.0	26.5	0.0
1969-70	170.3	5370.8	186.	5.89	970.0	33.6	0.0
1970-71	133.6	4215.5	146.	4.63	1304.0	45.1	0.0
1971-72	125.2	3950.9	137.	4.34	-1.0	-1.0	0.0
1972-73	----	----	----	----	405.0	14.0	
1973-74	----	----	----	----	792.0	27.4	
1974-75	167.1	5270.7	182.	5.78	2239.0	77.5	0.0

GAUGING STATION/STATION DE JAUGEAGE.... MATAM
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 230000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
19 3- 4	10.0	80.0	502.0	1760.0	2905.0	1155.0	477.0	206.0	126.0	72.0	38.0	14.0	612.0
19 4- 5	8.0	15.0	505.0	2803.0	2887.0	1166.0	568.0	273.0	148.0	85.0	47.0	20.0	710.4
19 5- 6	10.0	155.0	736.0	2726.0	2416.0	2582.0	1192.0	380.0	197.0	114.0	61.0	30.0	883.2
19 6- 7	12.0	95.0	958.0	4111.0	4964.0	1939.0	838.0	472.0	251.0	145.0	80.0	40.0	1158.7
19 7- 8	10.0	80.0	265.0	764.0	2209.0	1218.0	564.0	347.0	182.0	109.0	61.0	28.0	486.4
19 8- 9	8.0	54.0	541.0	1918.0	3561.0	1672.0	514.0	240.0	131.0	72.0	43.0	18.0	731.0
19 9-10	8.0	190.0	882.0	2497.0	4005.0	1584.0	653.0	269.0	145.0	82.0	47.0	20.0	865.1
1910-11	8.0	80.0	445.0	1880.0	3017.0	1359.0	476.0	223.0	119.0	65.0	40.0	16.0	644.0
1911-12	8.0	80.0	540.0	1403.0	2483.0	980.0	419.0	234.0	125.0	67.0	40.0	16.0	532.9
1912-13	8.0	80.0	524.0	1639.0	2406.0	1432.0	437.0	242.0	134.0	74.0	44.0	18.0	586.5
1913-14	10.0	80.0	331.0	757.0	1030.0	696.0	253.0	124.0	61.0	28.0	10.0	4.0	282.0
1914-15	10.0	80.0	560.0	1374.0	1489.0	1061.0	379.0	210.0	115.0	65.0	41.0	16.0	450.0
1915-16	10.0	65.0	544.0	1941.0	2718.0	1471.0	361.0	197.0	108.0	57.0	35.0	12.0	626.5
1916-17	4.0	3.0	530.0	1622.0	2922.0	1915.0	427.0	220.0	123.0	66.0	39.0	16.0	657.2
1917-18	8.0	14.0	184.0	1783.0	3455.0	1556.0	407.0	188.0	101.0	55.0	33.0	11.0	649.5
1918-19	10.0	120.0	683.0	2728.0	5259.0	2977.0	723.0	333.0	205.0	122.0	65.0	30.0	1104.5
1919-20	8.0	93.0	361.0	1699.0	2256.0	1201.0	394.0	210.0	117.0	67.0	39.0	15.0	538.3
1920-21	8.0	80.0	461.0	2135.0	4127.0	1885.0	819.0	298.0	164.0	100.0	52.0	23.0	846.0
1921-22	8.0	80.0	407.0	1134.0	2271.0	857.0	293.0	156.0	84.0	52.0	27.0	10.0	448.2
1922-23	8.0	27.0	407.0	2734.0	5880.0	4236.0	1078.0	341.0	170.0	100.0	53.0	23.0	1254.7
1923-24	10.0	50.0	542.0	1675.0	3556.0	1835.0	658.0	274.0	146.0	79.0	42.0	18.0	740.4
1924-25	8.0	113.0	1358.0	3428.0	4923.0	3494.0	952.0	385.0	213.0	132.0	73.0	33.0	1259.3
1925-26	12.0	65.0	289.0	1880.0	3038.0	2558.0	816.0	338.0	192.0	114.0	63.0	30.0	782.9
1926-27	8.0	93.0	449.0	1651.0	1657.0	1035.0	686.0	267.0	134.0	73.0	44.0	18.0	509.5
1927-28	10.0	50.0	642.0	2313.0	4435.0	3176.0	1072.0	386.0	210.0	117.0	64.0	30.0	1042.0
1928-29	10.0	30.0	344.0	2508.0	4937.0	2342.0	792.0	247.0	133.0	75.0	37.0	15.0	955.8
1929-30	10.0	194.0	756.0	2492.0	4521.0	1947.0	502.0	225.0	124.0	68.0	37.0	15.0	907.5
1930-31	8.0	112.0	561.0	2668.0	3773.0	2279.0	675.0	303.0	170.0	101.0	55.0	25.0	894.1
1931-32	8.0	113.0	670.0	2074.0	2711.0	2414.0	597.0	280.0	156.0	89.0	48.0	17.0	764.7
1932-33	8.0	86.0	731.0	2679.0	3677.0	1690.0	485.0	233.0	138.0	75.0	45.0	19.0	822.1
1933-34	8.0	101.0	1112.0	3177.0	3991.0	1461.0	440.0	210.0	115.0	67.0	36.0	12.0	894.1
1934-35	10.0	14.0	241.0	1887.0	3598.0	1447.0	490.0	234.0	130.0	73.0	45.0	19.0	682.3
1935-36	8.0	80.0	918.0	3227.0	5424.0	3046.0	774.0	305.0	155.0	87.0	49.0	18.0	1174.2
1936-37	8.0	57.0	569.0	3569.0	7411.0	3477.0	877.0	343.0	184.0	103.0	70.0	26.0	1391.1
1937-38	8.0	80.0	276.0	1580.0	3117.0	1533.0	508.0	237.0	131.0	72.0	42.0	17.0	633.4
1938-39	8.0	80.0	412.0	1789.0	3929.0	2348.0	957.0	302.0	156.0	88.0	50.0	21.0	845.0
1939-40	1.6	2.8	326.0	1767.0	2283.0	1444.0	467.0	229.0	126.0	68.0	41.0	16.0	564.2
1940-41	8.0	34.0	192.0	1261.0	1269.0	1126.0	603.0	211.0	115.0	63.0	39.0	15.0	411.3
1941-42	8.0	80.0	243.0	1122.0	2168.0	848.0	276.0	137.0	73.0	37.0	14.0	6.0	417.6
1942-43	8.0	80.0	321.0	1819.0	1902.0	587.0	316.0	144.0	77.0	38.0	25.0	8.0	443.7
1943-44	8.0	80.0	350.0	1840.0	3036.0	2081.0	522.0	203.0	109.0	62.0	36.0	14.0	695.0
1944-45	8.0	80.0	214.0	792.0	1549.0	686.0	329.0	166.0	91.0	50.0	29.0	10.0	333.6

1945-46	8.0	80.0	296.0	2401.0	4708.0	2690.0	559.0	204.0	111.0	63.0	36.0	14.0	930.8
1946-47	8.0	80.0	203.0	2275.0	3119.0	2122.0	677.0	274.0	140.0	78.0	42.0	17.0	752.9
1947-48	8.0	80.0	191.0	1709.0	2894.0	1403.0	390.0	192.0	106.0	58.0	33.0	12.0	589.6
1948-49	4.0	27.0	547.0	1727.0	2860.0	1323.0	579.0	246.0	110.0	58.0	33.0	12.0	627.1
1949-50	5.0	6.0	197.0	1701.0	2042.0	873.0	234.0	126.0	70.0	40.0	20.0	10.0	443.6
1950-51	4.0	2.5	478.0	2344.0	5825.0	3908.0	1068.0	330.0	170.0	84.0	40.0	11.9	1188.7
1951-52	3.7	31.0	347.0	1524.0	2605.0	3376.0	1850.0	521.0	230.0	126.0	63.0	22.2	891.5
1952-53	7.1	8.6	442.0	1437.0	2352.0	3278.0	836.0	297.0	154.0	73.0	34.0	9.6	744.0
1953-54	3.1	70.0	746.0	1577.0	2740.0	1335.0	487.0	222.0	140.0	78.0	37.0	11.0	620.5
1954-55	7.1	223.0	895.0	3355.0	4641.0	2053.0	735.0	413.0	219.0	122.0	72.0	35.0	1064.1
1955-56	19.7	131.0	586.0	3108.0	4254.0	3222.0	875.0	374.0	222.0	136.0	75.0	35.0	1086.4
1956-57	15.6	31.0	412.0	1999.0	4502.0	2791.0	728.0	308.0	177.0	100.0	59.0	22.3	928.7
1957-58	5.7	150.0	598.0	2413.0	4017.0	3216.0	1098.0	390.0	209.0	127.0	65.0	25.0	1026.1
1958-59	6.3	110.0	576.0	2782.0	4688.0	2249.0	816.0	446.0	248.0	151.0	91.0	41.0	1017.0
1959-60	14.6	111.0	582.0	1983.0	4119.0	1663.0	519.0	236.0	143.0	84.0	43.0	15.9	792.7
1960-61	4.9	36.0	739.0	1870.0	2657.0	1447.0	532.0	233.0	126.0	76.0	39.0	15.0	647.9
1961-62	3.1	48.0	701.0	2778.0	4631.0	1912.0	493.0	230.0	126.0	74.0	38.0	13.3	920.6
1962-63	4.1	51.0	436.0	2113.0	3620.0	1951.0	632.0	290.0	152.0	91.0	42.0	16.5	783.2
1963-64	4.2	4.2	336.0	1729.0	2649.0	2066.0	737.0	257.0	136.0	71.0	36.0	13.9	669.9
1964-65	4.1	106.0	567.0	2371.0	4817.0	2915.0	660.0	292.0	176.0	102.0	48.0	21.3	1006.6
1965-66	8.0	74.0	455.9	2554.0	4514.0	3068.0	856.0	318.2	177.4	99.2	46.0	18.6	1015.7
1966-67	8.0	39.4	291.4	1304.0	2756.0	3850.0	1514.0	385.1	186.7	102.4	56.3	29.8	876.9
1967-68	15.5	65.8	443.6	2241.0	4010.0	3615.0	407.6	414.3	223.6	134.7	76.6	34.5	973.5
1968-69	16.1	39.8	381.6	1014.0	1896.0	1052.0	346.2	179.2	88.0	44.6	21.0	9.0	423.9
1969-70	8.0	74.0	623.4	1645.0	3294.0	2625.0	1307.0	271.6	170.5	87.6	48.5	18.6	847.7
1970-71	8.0	17.4	207.1	2158.0	2870.0	1171.0	334.0	151.8	87.6	56.2	22.1	18.6	591.8
1971-72	8.0	74.0	442.5	2162.0	3298.0	1248.0	330.0	143.4	58.6	83.0	46.0	18.6	659.3
1972-73	8.0	73.5	246.3	749.0	1114.0	1078.0	253.6	107.9	50.4	18.8	46.0	18.6	313.6
1973-74	31.1	86.1	316.4	1653.0	1657.0	609.0	194.2	75.2	28.7	11.0	9.8	18.6	390.8
1974-75	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
AVG/MOYEN	8.5	72.6	495.2	2046.2	3356.5	1970.4	635.4	264.0	142.5	81.0	45.0	18.8	761.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MATAM
RIVER/COURS D EAU..... SENEGAL
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 230000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
19 3- 4	612.0	19302.6	84.	2.66	3160.0	13.7	
19 4- 5	710.4	22403.7	97.	3.09	3740.0	16.3	
19 5- 6	883.2	27854.1	121.	3.84	3360.0	14.6	
19 6- 7	1158.7	36542.3	159.	5.04	7700.0	33.5	
19 7- 8	486.4	15339.6	67.	2.11	2740.0	11.9	
19 8- 9	731.0	23052.8	100.	3.18	3795.0	16.5	
19 9-10	865.1	27283.8	119.	3.76	4550.0	19.8	
1910-11	644.0	20309.1	88.	2.80	3265.0	14.2	
1911-12	532.9	16806.0	73.	2.32	2965.0	12.9	
1912-13	586.5	18495.8	80.	2.55	2960.0	12.9	
1913-14	282.0	8893.1	39.	1.23	1180.0	5.1	
1914-15	450.0	14191.2	62.	1.96	2000.0	8.7	
1915-16	626.5	19759.9	86.	2.72	3060.0	13.3	
1916-17	657.2	20727.0	90.	2.86	3520.0	15.3	
1917-18	649.5	20485.2	89.	2.82	4120.0	17.9	
1918-19	1104.5	34834.1	151.	4.80	6370.0	27.7	
1919-20	538.3	16976.8	74.	2.34	2920.0	12.7	
1920-21	846.0	26679.4	116.	3.68	4640.0	20.2	
1921-22	448.2	14136.0	61.	1.95	2700.0	11.7	
1922-23	1254.7	39569.7	172.	5.46	7480.0	32.5	
1923-24	740.4	23349.7	102.	3.22	3980.0	17.3	
1924-25	1259.3	39714.3	173.	5.48	5860.0	25.5	
1925-26	782.9	24690.0	107.	3.40	3320.0	14.4	
1926-27	509.5	16070.2	70.	2.22	2030.0	8.8	
1927-28	1042.0	32863.1	143.	4.53	4890.0	21.3	
1928-29	955.8	30143.1	131.	4.16	5420.0	23.6	
1929-30	907.5	28621.5	124.	3.95	5200.0	22.6	
1930-31	894.1	28198.4	123.	3.89	4130.0	18.0	
1931-32	764.7	24117.1	105.	3.33	3690.0	16.0	
1932-33	822.1	25927.8	113.	3.57	3960.0	17.2	
1933-34	894.1	28198.4	123.	3.89	4530.0	19.7	
1934-35	682.3	21518.0	94.	2.97	4450.0	19.3	
1935-36	1174.2	37031.1	161.	5.11	6450.0	28.0	
1936-37	1391.1	43871.8	191.	6.05	8200.0	35.7	
1937-38	633.4	19975.4	87.	2.75	3450.0	15.0	
1938-39	845.0	26647.9	116.	3.67	4550.0	19.8	
1939-40	564.2	17795.2	77.	2.45	3055.0	13.3	
1940-41	411.3	12971.8	56.	1.79	2380.0	10.3	
1941-42	417.6	13171.5	57.	1.82	2710.0	11.8	
1942-43	443.7	13994.1	61.	1.93	2920.0	12.7	
1943-44	695.0	21920.1	95.	3.02	3360.0	14.6	
1944-45	333.6	10522.5	46.	1.45	1740.0	7.6	
1945-46	930.8	29354.7	128.	4.05	5420.0	23.6	

1946-47	752.9	23743.9	103.	3.27	3660.0	15.9	
1947-48	589.6	18595.7	81.	2.56	3530.0	15.3	
1948-49	627.1	19778.3	86.	2.73	3200.0	13.9	
1949-50	443.6	13991.4	61.	1.93	3020.0	13.1	
1950-51	1188.7	37489.4	163.	5.17	7000.0	30.4	
1951-52	891.5	28116.7	122.	3.88	4000.0	17.4	2.5
1952-53	744.0	23463.5	102.	3.23	4050.0	17.6	2.7
1953-54	620.5	19568.3	85.	2.70	3140.0	13.7	1.4
1954-55	1064.1	33559.8	146.	4.63	5860.0	25.5	2.7
1955-56	1086.4	34263.0	149.	4.72	4560.0	19.8	13.0
1956-57	928.7	29288.7	127.	4.04	5180.0	22.5	6.5
1957-58	1026.1	32360.4	141.	4.46	4650.0	20.2	0.7
1958-59	1017.0	32072.9	139.	4.42	6410.0	27.9	3.0
1959-60	792.7	25001.4	109.	3.45	4610.0	20.0	10.0
1960-61	647.9	20432.4	89.	2.82	2930.0	12.7	0.6
1961-62	920.6	29032.5	126.	4.00	5710.0	24.8	0.5
1962-63	783.2	24699.5	107.	3.41	3740.0	16.3	1.2
1963-64	669.9	21127.2	92.	2.91	3070.0	13.3	1.4
1964-65	1006.6	31744.6	138.	4.38	5620.0	24.4	1.1
1965-66	1015.7	32033.4	139.	4.42	4870.0	21.2	
1966-67	876.9	27654.7	120.	3.81	4270.0	18.6	
1967-68	973.5	30700.8	133.	4.23	4450.0	19.3	
1968-69	423.9	13369.9	58.	1.84	2675.0	11.6	
1969-70	847.7	26735.1	116.	3.69	3676.0	16.0	
1970-71	591.8	18663.5	81.	2.57	3089.0	13.4	
1971-72	659.3	20792.9	90.	2.87	3494.0	15.2	
1972-73	313.6	9892.0	43.	1.36	1422.0	6.2	
1973-74	390.8	12325.5	54.	1.70	2475.0	10.8	
1974-75	----	----	----	----	5560.0	24.2	0.2

GAUGING STATION/STATION DE JAUGEAGE.... OUALIA
RIVER/COURS D EAU..... BAKOYE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 85600.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1951-52	0.7	6.0	44.0	263.0	455.0	474.0	186.0	59.0	31.0	19.3	8.8	2.8	129.1
1952-53	0.5	6.0	84.0	214.0	541.0	445.0	79.0	36.0	22.0	11.4	8.5	1.7	120.7
1954-55	0.6	28.0	262.0	1065.0	977.0	360.0	103.0	47.0	26.0	14.1	6.7	2.1	240.9
1955-56	0.9	17.8	78.0	593.0	821.0	345.0	92.0	42.0	23.1	12.2	4.9	1.3	169.2
1956-57	0.3	12.8	128.0	446.0	1081.0	549.0	102.0	43.0	23.4	12.9	5.8	1.5	200.4
1957-58	0.3	53.0	117.0	913.0	934.0	554.0	145.0	55.0	31.0	17.5	7.9	2.7	235.8
1958-59	0.5	31.0	75.0	1288.0	954.0	501.0	143.0	67.0	40.0	23.1	13.1	5.0	261.7
1959-60	2.3	15.9	78.0	638.0	847.0	259.0	66.0	32.0	18.9	10.2	3.9	1.3	164.3
1960-61	0.3	17.7	246.0	358.0	729.0	258.0	84.0	40.0	20.7	8.3	2.0	0.5	147.0
1962-63	0.8	57.0	279.0	810.0	652.0	277.0	73.0	31.0	15.5	7.1	1.7	0.4	183.7
1963-64	0.2	8.3	80.0	298.0	481.0	378.0	89.0	26.0	12.2	5.8	1.9	0.4	115.0
1964-65	0.1	40.0	164.0	693.0	1382.0	440.0	89.0	45.0	24.0	13.0	5.1	1.3	241.3
1965-66	0.2	23.0	84.9	766.5	939.4	389.7	97.4	40.5	24.1	12.4	5.0	1.6	198.7
1966-67	1.9	10.2	51.8	320.0	898.9	885.8	181.9	60.7	32.7	19.2	8.3	2.7	206.1
1967-68	1.2	9.6	135.5	496.4	1163.0	549.0	139.5	61.2	37.0	20.0	9.2	3.6	218.7
1968-69	1.2	2.6	204.1	394.7	624.9	154.7	55.6	28.1	13.8	6.4	2.0	0.3	124.0
1969-70	0.1	14.0	197.0	375.0	999.0	488.0	215.0	55.0	28.0	14.0	5.0	2.0	199.3
1970-71	0.6	4.4	83.7	446.0	535.0	153.0	41.5	18.6	8.3	2.8	1.1	0.2	107.9
1971-72	0.0	10.8	172.0	-1.0	-1.0	274.0	43.0	17.2	5.2	1.4	0.5	0.1	-1.0
1972-73	0.0	23.9	41.2	140.0	103.0	31.8	11.8	0.6	0.2	0.0	0.0	0.0	29.3
1973-74	0.0	27.8	128.0	460.0	217.0	36.8	8.0	1.3	0.3	0.1	0.0	0.0	73.2
1974-75	0.0	4.8	263.0	-1.0	-1.0	166.0	-1.0	11.2	3.4	1.1	0.3	0.1	-1.0
AVG/MOYEN	0.5	19.2	136.1	548.8	766.7	362.2	97.3	37.1	20.0	10.5	4.6	1.4	167.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... OUALIA
RIVER/COURS D EAU..... BAKOYE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 85600.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1951-52	129.1	4072.3	48.	1.51	1015.0	11.9	
1952-53	120.7	3808.2	44.	1.41	2130.0	24.9	0.1
1954-55	240.9	7598.8	89.	2.81	1656.0	19.3	
1955-56	169.2	5337.9	62.	1.98	1302.0	15.2	0.2
1956-57	200.4	6322.1	74.	2.34	1763.0	20.6	
1957-58	235.8	7438.2	87.	2.76	2000.0	23.4	
1958-59	261.7	8253.7	96.	3.06	2900.0	33.9	0.1
1959-60	164.3	5183.7	61.	1.92	1368.0	16.0	1.6
1960-61	147.0	4637.1	54.	1.72	1899.0	22.2	
1962-63	183.7	5793.4	68.	2.15	1352.0	15.8	0.1
1963-64	115.0	3628.7	42.	1.34	1044.0	12.2	0.0
1964-65	241.3	7612.0	89.	2.82	2930.0	34.2	0.0
1965-66	198.7	6266.9	73.	2.32	1260.0	14.7	0.0
1966-67	206.1	6501.9	76.	2.41	1515.0	17.7	0.3
1967-68	218.7	6899.0	81.	2.56	1747.0	20.4	0.3
1968-69	124.0	3911.5	46.	1.45	1148.0	13.4	0.0
1969-70	199.3	6286.4	73.	2.33	1508.0	17.6	0.2
1970-71	107.9	3403.7	40.	1.26	948.0	11.1	0.0
1971-72	----	----	----	----	-1.0	-1.0	0.0
1972-73	29.3	926.3	11.	0.34	185.0	2.2	0.0
1973-74	73.2	2310.8	27.	0.86	1024.0	12.0	0.0
1974-75	----	----	----	----	-1.0	-1.0	

GAUGING STATION/STATION DE JAUGEAGE.... TOUKOTO
RIVER/COURS D EAU..... BAKOYE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 16500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1952-53	0.3	3.0	93.0	276.0	360.0	320.0	90.0	31.0	11.4	4.5	5.7	1.1	99.6
1954-55	3.5	27.0	140.0	571.0	504.0	251.0	93.0	33.0	15.0	10.1	6.3	3.0	138.0
1956-57	0.7	16.0	49.0	230.0	423.0	355.0	101.0	34.0	11.8	6.4	3.0	0.9	102.5
1957-58	0.1	33.0	55.0	361.0	398.0	316.0	106.0	47.0	29.0	15.5	9.3	1.8	114.3
1958-59	0.8	17.3	37.0	443.0	387.0	256.0	78.0	44.0	36.0	29.0	21.7	8.0	113.1
1959-60	0.7	7.3	35.0	251.0	301.0	142.0	33.0	12.5	6.3	2.6	0.9	0.2	66.0
1963-64	0.1	3.5	44.0	153.0	208.0	287.0	79.0	26.0	12.2	4.5	1.8	0.2	68.2
1964-65	0.1	31.0	91.0	321.0	693.0	321.0	62.0	37.0	19.9	10.0	3.5	1.0	132.5
1965-66	0.1	15.3	36.2	300.0	351.0	209.4	60.5	29.2	18.6	9.1	2.8	0.6	86.0
1966-67	0.3	5.8	33.7	225.5	405.5	453.0	100.0	42.6	22.5	13.5	5.8	1.5	109.1
1967-68	0.7	7.9	58.2	174.3	620.5	310.9	89.1	40.9	26.0	17.0	6.9	1.7	112.8
1968-69	0.6	5.0	62.4	165.1	288.2	100.3	40.3	22.7	11.6	4.6	0.8	0.1	58.4
1969-70	0.0	15.8	74.4	166.9	625.0	323.0	134.6	44.6	24.5	14.3	5.5	2.0	119.2
1970-71	0.6	4.1	30.0	203.0	376.0	122.0	35.0	18.0	8.0	3.0	1.3	0.2	66.7
1971-72	0.0	3.8	82.6	326.0	401.0	121.0	33.2	16.0	6.7	2.7	0.7	0.0	82.8
1972-73	0.0	18.9	22.6	72.4	99.1	26.8	7.8	2.3	0.6	0.0	0.0	0.0	20.8
1973-74	0.0	5.7	33.7	184.0	108.0	28.0	7.7	-1.0	0.1	0.0	0.0	0.0	-1.0
1974-75	0.0	0.0	65.3	326.0	294.0	97.1	26.0	8.8	2.6	1.1	0.2	0.0	68.4
AVG/MOYEN	0.4	12.2	57.9	263.8	380.1	224.4	65.3	28.7	14.5	8.2	4.2	1.2	88.4

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... TOUKOTO
RIVER/COURS D EAU..... BAKOYE
COUNTRY/PAYS..... MALI
BASIN/BASSIN..... SENEGAL
KM2 AREA OF WATER SHED/BASSIN VERSANT. 16500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1952-53	99.6	3143.0	190.	6.04	595.0	36.1	
1954-55	138.0	4354.3	264.	8.37	1030.0	62.4	0.8
1956-57	102.5	3234.5	196.	6.22	620.0	37.6	0.2
1957-58	114.3	3604.8	218.	6.93	555.0	33.6	
1958-59	113.1	3568.2	216.	6.86	965.0	58.5	0.3
1959-60	66.0	2082.6	126.	4.00	605.0	36.7	0.3
1963-64	68.2	2153.1	130.	4.14	660.0	40.0	0.0
1964-65	132.5	4179.8	253.	8.03	970.0	58.8	0.2
1965-66	86.0	2714.1	164.	5.22	530.0	32.1	0.5
1966-67	109.1	3441.8	209.	6.61	910.0	55.2	0.4
1967-68	112.8	3558.5	216.	6.84	1100.0	66.7	0.8
1968-69	58.4	1844.0	112.	3.54	558.0	33.8	0.0
1969-70	119.2	3759.6	228.	7.23	862.0	52.2	0.1
1970-71	66.7	2105.5	128.	4.05	490.0	29.7	0.0
1971-72	82.8	2611.4	158.	5.02	623.0	37.8	0.0
1972-73	20.8	658.3	40.	1.27	158.0	9.6	0.0
1973-74	----	----	----	----	378.0	22.9	0.0
1974-75	68.4	2157.8	131.	4.15	1400.0	84.8	

GAUGING STATION/STATION DE JAUGEAGE.... GOULOUMBO
RIVER/COURS D EAU..... GAMBIE
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 42000.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1953-54	-1.0	-1.0	360.0	684.0	1340.0	943.0	280.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1954-55	-1.0	-1.0	271.0	773.0	1610.0	1080.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1955-56	-1.0	-1.0	355.0	1350.0	1930.0	1420.0	200.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1956-57	-1.0	-1.0	285.0	852.0	1540.0	1290.0	300.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1958-59	-1.0	-1.0	300.0	926.0	1460.0	1190.0	350.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1959-60	-1.0	-1.0	280.0	716.0	1480.0	810.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960-61	-1.0	-1.0	250.0	395.0	745.0	542.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961-62	-1.0	-1.0	-1.0	976.0	1870.0	1400.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962-63	-1.0	-1.0	325.0	869.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964-65	-1.0	-1.0	400.0	1040.0	1670.0	1620.0	350.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965-66	-1.0	-1.0	300.0	777.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966-67	-1.0	-1.0	250.0	430.0	968.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967-68	-1.0	-1.0	150.0	634.0	1200.0	1520.0	924.0	100.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968-69	-1.0	-1.0	-1.0	350.0	926.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969-70	-1.0	-1.0	-1.0	661.0	1030.0	995.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970-71	3.0	20.0	122.0	926.0	874.0	226.0	71.0	27.0	13.0	7.5	5.0	2.5	191.4
1971-72	15.7	27.4	-1.0	587.0	707.0	320.0	88.3	32.4	9.5	6.5	3.7	16.6	-1.0
1972-73	2.5	35.4	136.0	446.0	449.0	207.0	90.9	35.6	15.5	7.8	4.2	2.5	119.3
1973-74	5.4	36.0	79.0	755.0	797.0	205.0	78.0	28.0	13.0	7.5	5.0	2.5	167.6
1974-75	2.2	18.8	264.0	832.0	1142.0	757.0	160.0	60.4	21.1	12.7	7.8	5.9	273.6
AVG/MOYEN	5.7	27.5	257.9	748.9	1207.6	907.8	262.9	47.2	14.4	8.3	5.1	6.0	291.6

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GOULOUMBO
RIVER/COURS D EAU..... GAMBIE
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 42000.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1953-54	----	----	----	----	1430.0	34.0	
1954-55	----	----	----	----	1830.0	43.6	
1955-56	----	----	----	----	2040.0	48.6	
1956-57	----	----	----	----	1800.0	42.9	
1958-59	----	----	----	----	1710.0	40.7	
1959-60	----	----	----	----	1660.0	39.5	
1960-61	----	----	----	----	1072.0	25.5	
1961-62	----	----	----	----	2160.0	51.4	
1962-63	----	----	----	----	-1.0	-1.0	
1964-65	----	----	----	----	2030.0	48.3	
1965-66	----	----	----	----	-1.0	-1.0	
1966-67	----	----	----	----	-1.0	-1.0	
1967-68	----	----	----	----	1680.0	40.0	
1968-69	----	----	----	----	1150.0	27.4	
1969-70	----	----	----	----	1250.0	29.8	
1970-71	191.4	6036.5	144.	4.56	1150.0	27.4	
1971-72	----	----	----	----	952.0	22.7	1.5
1972-73	119.3	3764.3	90.	2.84	713.0	17.0	2.2
1973-74	167.6	5285.9	126.	3.99	1100.0	26.2	2.0
1974-75	273.6	8630.0	205.	6.52	1220.0	29.0	

GAUGING STATION/STATION DE JAUGEAGE.... KEDOUGOU
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7550.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1970-71	1.0	13.9	123.0	484.0	437.0	115.0	45.0	22.7	12.8	7.2	3.5	2.2	105.6
1971-72	2.3	6.1	53.0	282.0	312.0	91.8	31.2	14.9	7.9	4.1	1.7	0.4	67.2
1972-73	0.0	33.7	87.4	288.0	239.0	107.0	40.5	22.3	11.3	6.0	2.6	0.5	69.8
1973-74	0.8	9.0	71.3	368.0	324.0	91.6	34.0	16.0	8.7	4.8	1.9	0.4	77.5
1974-75	0.0	8.4	139.3	443.3	427.1	202.8	50.9	22.6	12.2	6.7	2.8	0.7	109.7
AVG/MOYEN	0.8	14.2	94.8	373.0	347.8	121.6	40.3	19.6	10.5	5.7	2.5	0.8	86.0

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KEDOUGOU
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 7550.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1970-71	105.6	3330.4	441.	13.99	1130.0	149.7	0.7
1971-72	67.2	2121.8	281.	8.91	756.0	100.1	0.0
1972-73	69.8	2203.0	292.	9.25	756.0	100.1	0.0
1973-74	77.5	2445.3	324.	10.27	795.0	105.3	0.0
1974-75	109.7	3460.5	458.	14.53	864.0	114.4	

GAUGING STATION/STATION DE JAUGEAGE.... MAKO
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1970-71	0.5	13.7	131.0	527.0	493.0	122.0	49.3	26.1	14.9	7.2	2.7	0.8	115.6
1971-72	1.4	7.2	57.3	349.0	376.0	117.0	37.1	17.9	8.1	3.4	1.0	0.1	81.2
1972-73	0.0	27.8	93.0	306.0	273.0	115.0	42.8	25.1	12.8	5.2	1.7	0.4	75.2
1973-74	0.1	13.1	77.8	458.0	428.0	103.0	37.2	18.5	8.8	3.7	1.1	0.3	95.7
1974-75	0.1	7.6	155.1	524.0	524.4	244.0	55.0	23.9	12.2	6.2	2.3	0.6	129.6
AVG/MOYEN	0.4	13.8	102.8	432.8	418.8	140.2	44.2	22.2	11.3	5.1	1.7	0.4	99.5

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... MAKO
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 10500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1970-71	115.6	3648.1	347.	11.02	1150.0	109.5	0.7
1971-72	81.2	2563.6	244.	7.74	875.0	83.3	0.0
1972-73	75.2	2372.5	226.	7.17	802.0	76.4	0.0
1973-74	95.7	3021.1	288.	9.12	1010.0	96.2	0.0
1974-75	129.6	4087.5	389.	12.34	1034.0	98.5	0.0

GAUGING STATION/STATION DE JAUGEAGE.... SIMENTI
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20500.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1970-71	0.0	8.5	137.0	837.0	660.0	173.0	62.1	25.6	11.7	5.4	2.4	0.5	160.2
1971-72	0.1	10.3	77.2	516.0	571.0	169.0	44.7	15.8	7.0	3.3	0.9	0.1	117.9
1972-73	0.0	21.0	119.0	392.0	360.0	141.0	50.5	23.4	10.0	4.8	1.3	0.2	93.5
1973-74	0.2	12.3	89.4	690.0	648.0	132.0	43.2	15.3	7.2	3.4	0.7	0.1	136.8
1974-75	0.0	12.7	247.0	781.0	870.0	458.0	80.9	29.1	12.3	5.9	2.0	0.3	208.2
AVG/MOYEN	0.0	12.9	133.9	643.2	621.8	214.6	56.2	21.8	9.6	4.5	1.4	0.2	143.3

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... SIMENTI
RIVER/COURS D EAU..... GAMBIA
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... GAMBIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 20500.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1970-71	160.2	5054.1	247.	7.82	1160.0	56.6	
1971-72	117.9	3719.6	181.	5.75	1020.0	49.8	0.0
1972-73	93.5	2951.7	144.	4.57	776.0	37.9	0.0
1973-74	136.8	4314.6	210.	6.67	1180.0	57.6	
1974-75	208.2	6567.8	320.	10.16	1200.0	58.5	0.0

GAUGING STATION/STATION DE JAUGEAGE.... CHIROMAWA
RIVER/COURS D EAU..... KANO
COUNTRY/PAYS..... NIGERIA
BASIN/BASSIN..... HADEJIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6975.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1964-65	1.0	6.3	64.8	239.1	215.6	22.3	3.3	0.8	0.3	0.7	0.1	0.0	46.1
1965-66	30.0	73.0	56.1	122.4	199.9	8.5	1.5	0.5	1.3	0.0	0.0	0.0	41.1
1966-67	24.5	23.9	11.3	198.8	295.7	39.1	4.6	1.0	0.4	0.2	0.1	0.0	49.9
1967-68	1.1	8.0	43.6	135.0	125.2	21.0	3.1	0.8	0.3	0.1	0.0	0.0	28.1
1968-69	20.6	29.6	114.8	131.3	54.6	7.0	0.9	0.1	0.0	0.0	0.0	0.1	29.9
1969-70	2.7	26.1	98.7	143.7	146.6	35.7	6.4	1.1	0.2	0.0	0.0	0.0	38.4
1970-71	7.0	10.0	49.8	242.4	216.0	12.7	2.0	0.8	0.2	0.3	0.5	0.0	45.1
AVG/MOYEN	12.4	25.2	62.7	173.2	179.0	20.8	3.1	0.7	0.3	0.1	0.1	0.0	39.8

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... CHIROMAWA
RIVER/COURS D EAU..... KANO
COUNTRY/PAYS..... NIGERIA
BASIN/BASSIN..... HADEJIA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 6975.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1964-65	46.1	1456.7	209.	6.62	660.0	94.6	0.0
1965-66	41.1	1296.1	186.	5.89	1213.0	173.9	0.0
1966-67	49.9	1575.7	226.	7.16	745.0	106.8	0.0
1967-68	28.1	888.7	127.	4.04	382.0	54.8	0.0
1968-69	29.9	943.4	135.	4.29	854.0	122.4	0.0
1969-70	38.4	1212.1	174.	5.51	442.0	63.4	0.0
1970-71	45.1	1423.5	204.	6.47	765.0	109.7	0.0

GAUGING STATION/STATION DE JAUGEAGE.... GASHUA
RIVER/COURS D EAU..... K.YOBE
COUNTRY/PAYS..... NIGERIA
BASIN/BASSIN..... K.YOBE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 62160.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1963-64	0.2	0.5	32.5	86.7	119.7	27.8	80.4	14.2	2.8	0.9	0.3	0.1	30.5
1964-65	0.2	0.5	34.8	88.6	169.2	354.9	216.1	47.7	10.5	2.9	1.4	0.6	77.2
1965-66	0.4	3.2	58.0	89.9	125.7	148.0	82.6	25.7	4.5	1.5	0.7	0.3	45.0
1966-67	0.2	38.9	46.6	76.8	117.4	172.9	128.1	43.6	9.6	2.5	1.0	0.5	53.1
1967-68	0.2	0.2	22.6	83.8	123.2	157.3	60.2	15.7	3.4	1.3	0.5	0.2	39.0
1968-69	0.2	41.4	88.7	116.3	132.1	100.2	15.0	2.8	0.8	0.2	0.1	0.1	41.4
1969-70	0.1	0.0	36.6	110.1	128.6	139.4	106.0	27.1	4.7	1.9	1.1	0.4	46.3
1970-71	0.3	0.3	32.1	103.6	133.4	155.0	126.9	33.4	5.3	2.8	0.6	0.1	49.4
AVG/MOYEN	0.2	10.6	43.9	94.4	131.1	156.9	101.9	26.2	5.1	1.7	0.7	0.2	47.7

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... GASHUA
RIVER/COURS D EAU..... K.YOBE
COUNTRY/PAYS..... NIGERIA
BASIN/BASSIN..... K.YOBE
KM2 AREA OF WATER SHED/BASSIN VERSANT. 62160.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1963-64	30.5	962.1	15.	0.49	142.6	2.3	0.0
1964-65	77.2	2437.2	39.	1.24	392.5	6.3	0.0
1965-66	45.0	1420.4	23.	0.72	161.1	2.6	0.2
1966-67	53.1	1676.9	27.	0.86	194.9	3.1	0.2
1967-68	39.0	1231.4	20.	0.63	171.5	2.8	0.1
1968-69	41.4	1308.4	21.	0.67	133.6	2.1	3.9
1969-70	46.3	1461.2	24.	0.75	142.5	2.3	1.1
1970-71	49.4	1560.5	25.	0.80	165.2	2.7	6.1

GAUGING STATION/STATION DE JAUGEAGE.... KOLDA
RIVER/COURS D EAU..... CASAMANCE
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... CASA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3700.0

**

I. AVERAGE MONTHLY DISCHARGE/DEBIT MOYEN MENSUEL (M3/S)

WATER YEAR / ANNEE HYDRO	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	AVG
1967-68	0.1	0.6	2.4	12.5	33.4	33.0	10.6	4.4	3.0	2.4	1.6	0.9	8.7
1968-69	1.6	0.4	1.6	2.5	4.8	7.7	2.1	1.1	0.9	0.6	0.4	0.2	2.0
1969-70	0.1	0.1	2.7	9.5	46.5	13.7	5.1	2.5	1.7	1.1	0.7	0.5	7.0
1970-71	0.3	1.2	3.0	13.7	10.1	3.3	1.4	0.9	0.6	0.4	0.3	0.1	2.9
1971-72	0.0	0.4	6.9	12.0	12.4	6.2	2.1	1.2	0.9	0.5	0.3	0.1	3.6
1972-73	0.1	0.1	0.9	4.0	3.8	1.9	0.8	0.4	0.2	0.1	0.0	0.0	1.0
1973-74	0.0	0.3	3.0	8.7	8.2	3.1	1.1	0.5	0.3	0.2	0.1	0.0	2.1
AVG/MOYEN	0.3	0.5	2.9	9.0	17.0	9.8	3.3	1.6	1.1	0.8	0.5	0.3	3.9

-1. INDICATES NO RECORDED VALUE/ -1. INDIQUE UNE LACUNE

GAUGING STATION/STATION DE JAUGEAGE.... KOLDA
RIVER/COURS D EAU..... CASAMANCE
COUNTRY/PAYS..... SENEGAL
BASIN/BASSIN..... CASA
KM2 AREA OF WATER SHED/BASSIN VERSANT. 3700.0

II. DISCHARGE/ECOULEMENT

WATER YEAR ANNEE HYDRO	AVG.AN.DISCH. DEBITS MOY.AN M3/SEC	ANNUAL VOLUME VOLUME ANNUEL M3*MILLION	RUNOFF LAME D EAU ECOULEE(MM)	SPECIFIC RUNOFF DEBIT SPECIFIQUE (L/S/KM2)	MAX DAILY FLOOD CRUE MAX JOUR (M3/S)	SPECIFIC FLOOD CRUE SPECIFIQUE (L/S/KM2)	ABS MIN DISCH. ETIAGE (M3/S)
1967-68	8.7	277.2	75.	2.38	45.8	12.4	0.5
1968-69	2.0	64.2	17.	0.55	13.9	3.8	0.3
1969-70	7.0	223.0	60.	1.91	113.0	30.5	0.1
1970-71	2.9	94.1	25.	0.81	32.0	8.6	0.1
1971-72	3.6	114.1	31.	0.98	14.8	4.0	0.0
1972-73	1.0	33.7	9.	0.29	8.4	2.3	0.0
1973-74	2.1	68.2	18.	0.58	16.0	4.3	0.0

ANNEXES DU CHAPITRE 6

APPENDICES TO CHAPTER 6

RESSOURCES DES TERRES

LAND RESOURCES

6-1 Liste des 390 unités cartographiques de la carte des sols OUA/IFAN, montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 390 mapping units of the OAU/IFAN soils map, showing soil units contained in each and their capability.

6-2 Liste des 166 unités cartographiques de la carte des sols au 1:5.000.000 de la FAO, couvrant le Tchad, le Cameroun, l'Empire Centrafricain, et montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 166 mapping units of the FAO 1:5 million soils map covering Chad, the Cameroon and Central African Empire, showing soil units contained in each and their capability.

6-3 Etude du cas No. 1 : Haute-Volta

Case study No. 1 : Upper Volta

6-4 Etude du cas No. 2 : Nigeria

Case study No. 2 : Nigeria

Tableaux/Tables

6-3

Tableau 1. Définitions des 12 groupes de potentialité des sols contenus dans le rapport de la FAO sur l'onchocercose (FAO, 1973)

Table 1. Definitions of the 12 soil capability groupings included in the FAO onchocerciasis report (FAO, 1973)

Tableau 2. Catégories de sols, selon le système français, contenues dans les 12 classes de potentialité agrologique du rapport de la FAO sur l'onchocercose

Table 2. French Soil Orders represented in the 12 FAO onchocerciasis report capability groupings

6-4

Tableau 1. Récapitulation des risques de colmatage et sommaire de l'utilisation des terres des dépôts éoliens ainsi que des dépôts fluviaux plus anciens et plus jeunes

Table 1. Summary of liability to sealing and of land use of Eolian deposits and of older and younger river deposits

Figures

6-3

Figure 1. Carte de reconnaissance pédologique de la zone de Ouahigouya, Haute-Volta

Reconnaissance Soils Map of Ouahigouya area, Upper Volta

Figure 2. Carte pédologique simplifiée de la Haute-Volta

Simplified Soils Map of Upper Volta

Figures (suite/cont'd)

6-4

Figure 1. Carte des potentialités des sols du Nigeria (FAO, 1966)

Nigeria. Soils Map showing capabilities (FAO, 1966)

Figure 2. Dépôts quarternaires dans le bassin versant Rima-Sokoto (Sombroek et Zonneveld, 1971)

Quaternary deposits in the Rima-Sokoto river basin (Sombrodk and Zonneveld, 1971)

6 - 1 Liste des 390 unités cartographiques de la carte des sols OUA/IFAN, montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 390 mapping units of the OAU/IFAN soils map, showing soil units contained in each and their capability.

ANNEXE 6-1

Dans le tableau suivant:

l'arrangement d'ensemble suit la clef de la carte des sols dans l'atlas IFAN/OUA et indique à son tour chacune des dix sous-classifications des sols;

la première colonne donne le symbole d'identification de l'unité cartographique sur la carte IFAN/OUA. Le même symbole apparait également sur la carte de la FAO;

la seconde colonne énumère les unités de sol, telles que définies dans le Tableau 6-2 et comprises dans chacune des unités cartographiques;

la troisième colonne indique la classification du CIEH pour les potentialités des sols pour chacune des unités en question, comme montré sur le Tableau 6-1;

la quatrième colonne récapitule en un ou deux chiffres les classifications données dans la troisième colonne pour les potentialités des sols. Le premier chiffre réfère à la potentialité de l'unité de sol dominant, tandis que le second chiffre récapitule la potentialité des sols associés si ceux-ci diffèrent du sol dominant. Cette récapitulation au moyen d'un ou deux chiffres est indiquée par le type de nuancement utilisé sur la carte du CIEH pour les potentialités des sols.

APPENDIX 6-1

In the following table:

the general arrangement follows the key to the soils map in the IFAN/OAU atlas, giving the soils of each of the ten orders in turn;

the first column gives the identifying symbol of the mapping unit on the IFAN/OAU map. The same symbol also appears on the FAO map;

the second column lists the soil units, as defined in Table 6-2, included within each of these mapping units;

the third column gives the CIEH soil capability classification for each of these soil units, as listed in Table 6-1;

the fourth column gives the one or two figure summary of the soil capability ratings given in column three. The first figure is the capability of the dominant soil unit; the second figure summarizes the capability of the associated soils if different from that of the dominant soil. This one or two figure summary is indicated by the type of shading used on the CIEH soil capability map.

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
1 SOLS MINERAUX BRUTS RAW MINERAL SOILS			
	Sables éoliens Eolian sands		
SS	1A	5	5
	Sur roches variées On various rocks		
Y1	1B 1A	5,5	5
Y4	1B 1A 5C	5,5,3	5+3
Y5	1B 1C 1A	5,5,5	5
Y6	1B 1A 10A	5,5,5	5
Y7	1B 1A 10A 2	5,5,5,4	5
Y8	1B 1A	5,5	5
Yg2	1B 5	5,3	5+3
Yh9	1B 1C 1A 5	5,5,5,3	5+3
Yh10	1B 2A 5 1E	5,5,3,5	5+3
I1	1C	5	5
I2	1C 1B	5,5	5
I3	1C 2C	5,4	5+4
I4	1C 2I	5,2	5+2
I5	1C 2C 7	5,4,4	5+4
I6	1C 2C 8	5,4,3-4	5+4
I7	1C 8O ou/or 8P	5, 2-3	5+3
I8	1C 7B 2I	5,4,2	5+4
I9	1C 7D ou/or 7E	5,3	5+3
I10	1C 8C 7E	5,3,3	5+3
I11	1C 8	5,3	5+3
I12	1C 8Q-R	5,3	5+3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
1 SOLS MINERAUX BRUTS RAW MINERAL SOILS			
	Sur roches variées On various rocks		
I13	1C 8G L ou/or R	5,3	5+3
I14	1C 8A ou/or G	5, 2-3	5+3
I15	1C 8A ou/or G 8T	5,2-3,2	5+2
I16	1C 8G ou/or R	5,3	5+3
I17	1C 8 indurés/indurated	5,4	5+4
I18	1C 10C 7A	5,5,4	5+4
	Sur cuirasse On cuirasse		
I19	1D 5BCD	5,3	5+3
I20	1D 6A	5,1	5+1
I21	1D 5A 7E	5,2,3	5+2
I22	1D 7E	5,3	5+3
I23	1D 7E 4E	5,3,4	5+3
I24	1D 7C ou/or G	5,2-3	5+2
I25	1D 7G 2C	5,3,4	5+3
I26	1D 7E 7H	5,3,4	5+3
I27	1D 8 (hydromorphes) (hydromorphic)	5,2	5+2
	sur matériaux non différenciés on non-differentiated materials		
I28	1E 2CDE	5,4	5+4
I29	1E 2CDE 8O ou/or P	5,4,2-3	5+3
I30	1E 2CDE 7A ou/or B	5,4,4	5+4
I31	1E 6A	5,1	5+1
I32	1E 2CDE 7E	5,4,3	5+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
1 SOLS MINERAUX BRUTS RAW MINERAL SOILS			
	sur matériaux non différenciés on non-differentiated materials		
I 33	1E 7E 7A ou/or B	5, 3, 4 ou/or 3	5+3
I 34	1E 7E 7G	5, 3, 3	5+3
I 35	1E 7H	5, 4	5+4
I 36	1E 7G 8 (hydromorphes) (hydromorphic)	5, 3, 2	5+3
I 37	1E 7 vertique/vertic	5, 3	5+3
I 38	1E 8 G-P	5, 3	5+3
I 39	1E 8A ou/or C 2C-E	5, 2-3, 4	5+3
I 40	1E 8G ou/or Q 8H	5, 3, 3	5+3
I 41	1E 8A-F	5, 3-4	5+3
I 42	1E 8A-F 2 andosolique andosolic	5, 3-4, 3	5+3
I 43	1E 9	5, 2	5+2
2 SOLS PEU EVOLUES IMMATURE SOILS			
	Sur roches variées On various rocks		
R 1	2A	5	5
	Sur sables éoliens On eolian sands		
Re 1	2B	5	5
Re 42	2B 5F 2J	5, 5, 5	5
	Sur matériau graveleux On gravelly material		
Re 24	2C 1D	4, 5	4+5
Re 32	2C 5B-D 1D	4, 3, 5	4+3
Re 33	2C 1C-E 7D-H	4, 5, 3	4
Re 34	2C, 7 1C-E	4, 3, 5	4+3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
2 SOLS PEU EVOLUES IMMATURE SOILS			
	Sur matériau graveleux On gravelly material		
Re 35	2C 5FG ou/or 7AB	4,4-5,4	4
Re 36	2C 7AB 9D 1C-E	4,4,1,5	4
Re 37	2C 6A 7AB 1C-E	4,1,4,5	4+1
Re 40	2C 7G 9BC	4,3,1-2	4+2
Re 45	2C 7D-H 1D 9D	4,3,5,1	4+3
Re 49	2C 1C-E 7A-C	4,5,2-4	4
Re 50	2C 8G-W 7D-H	4,3,3	4+3
Rd 6	2C 7D-H 8G-W 1C-E	4,3,3,5	4+3
Rd 7	2C 7E	4,3	4+3
	Sur matériau caillouteux On pebbly material		
Rd 1	2D	4	4
	Sur grès argileux et sur quartzites/On clayey sandstones and on quartzites		
Rd 3	2E	4	4
	Sur sables éoliens On eolian sands		
Re 39	2F 1B 2B	4,5,5	4+5
Re 43	2F 9BC 10	4,1-2,5	4+2
	Sur matériau sableux grossier On coarse sandy material over granite		
Q 17	2G	4	4
	Sur argile limoneuse à sable limoneux/On sandy clay to loamy sand material		
Re 38	2H 4 7AB	3,4,4	3+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
2 SOLS PEU EVOLUES IMMATURE SOILS			
	Sur alluvions sableuses On sandy alluvium		
Jd 1	2I	2	2
Rd 8	2I 9B-D	2,1-2	2
Rd 16	2I 9BC	2,1-2	2
Rd 17	2I 8 sableux/sandy	2,3	2+3
	Sur alluvions de sable ou de sable limoneux/On sand or loamy sand alluvium		
Jc 1	2I	2	2
Jd 3	2I 8G-W 9D	2,3,1	2
	Sur dépôts marins ou lacustres de textures variées/On marine or lake deposits of various textures		
Yh 2	2J 10A	5	5
Yg 3	2J 10A 5 salés/salinated	5,5,5	5
3 ANDOSOLS	Sur matériau de base dérivé de roches ignées/On basic material derived from igneous rocks		
Tv 11	3A	1	1
Hh 9	3A 4 1C-E	1,4,5	1+4
Th 2	3A 1C-E	1,5	1+5
Tv 12	3A 8	1,3	1
Tm 3	3A 9BC	1,1-2	1+2
4 VERTISOLS	Sur alluvions d'argile On clay alluvium		
Vp 8	4A 4B 9 sableux/sandy	3,4,2	3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
4 VERTISOLS			
	Sur alluvions d'argile On clay alluvium		
Vc 1	4B	4	4
Vc 8	4B 4D	4,4	4
Vc 9	4B 4A-C (1)	4,3	4+3
Vc 13	4B 5CD	4,3	4+3
Vc 16	4B 5A-E 7D	4,2-3,3	4+3
Vp 9	4B 2I	4,2	4+2
Vp 19	4B 7E	4,3	4+3
	Sur alluvions d'argile On clay alluvium		
Vp 1	4C	4	4
	Sur alluvions d'argile On clay alluvium		
Vc 15	4D 9 sableux/sandy 7AB 10	4	4
	Sur matériau d'argile On clay material		
Vc 1	4E	4	4
Vc 4	4E 7E	4,3	4+3
Vc 5	4E 9 salés/salinated 9	4,5,1-2	4+2
Vc 6	4E 9	4,1-2	4+2
Vc 9	4E 4 solonetzique/solonetzic	4,5	4+5
Vc 10	4E 9D	4,1	4+1
Vc 11	4E 1C-E	4,5	4+5
Vc 12	4E 4 solonetzique/solonetzic	4,5,2	4
Vp 10	4E 6B	4,2	4+2
Vp 11	4E 7Ab 7D-H	4,4,3	4
Vp 12	4E 10CD 7G	4,5,3	4
Vp 23	4E 7G	4,3	4+3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
4 VERTISOLS			
	Sur matériau d'argile On clay material		
Vc 20	4E 6B 7G	4,2,3	4+2
Vc 14	4F 2	4,4	4
5 SOLS SEMI-ARIDES BRUNS ET BRUNS ROUGEATRES BROWN AND REDDISH BROWN SUBARID SOILS			
	Sur alluvions d'argile On clay alluvium		
Bv 7	5C 5A	3	3
	Sur matériau dérivé de la marne argileuse/On clay marl-derived material		
Bk 4	5D	3	3
	Sur sable limoneux On loamy sand material		
Be 27	5E 2C-E	2+4	2+4
Be 28	5E 2J 7AB	2,5,4-5	2+5
	Sur sables éoliens On eolian sands		
Qc 1	5F	5	5
Qc 6*	5F 7B 10CD	5,4,5	5+4
Qc 7	5F 9 10	5,1-2,5	5+2
	Sur sables éoliens On eolian sands		
Q11	5G	4	4
Q16*	5G 5F	4,5	4+5
Q14	5G 2C 9D	4,4,1	4

* Contient des formations d'ergs tant récentes qu'anciennes (5F et 5G)
Contains both recent and ancient Erg formations (5F and 5G)

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
5 SOLS SEMI-ARIDES BRUNS ET BRUNS ROUGEATRES BROWN AND REDDISH BROWN SUBARID SOILS			
	Sur sables éoliens On éolian sands		
Q110	5G 7D-H 2E	4,3,4	4+3
Q111	5G 2C	4	4
Q112	5G 2C-E 1D 2 F-I	4,4,5,3-4	4
Qc 3*	5G 5F 5A	4,5,2	4
6 SOLS BRUNS EUTROPHES EUTROPHIC BROWN SOILS			
	Sur matériau argileux, parfois graveleux/On clay material, sometimes gravelly		
Be 1	6A	1	1
Be 3	6A 4E 1C-E	1,4,5	1+4
Be 7	6A 1C-E 9BC	1,5,1-2	1+4
Be 25	6A 6B 6 hydromorphes/hydromorphic 4AB	1,2,2,3-4	1+2
Be 26	6A 6B 6 hydromorphes/hydromorphic 4AB 8A-F	1,2,2,3-4,3-4	1+2
Be 42	6A 6B 1C-E	1,2,5	1+2
	Sur matériau d'argile On clay material		
Bv 1	6B	2	2
Bv 2	6B 4E 1C-E	2,4,5	2+4
Bv 3	6B 10CD	2,5	2+5
Bv 4	6B 4BE 2C 1C-E	2,4,4,5	2+4
Bv 5	6B 2C 1C-E	2,4,5	2+4
Bv 6	6B 6A 4E	2,1,4	2+1

* Contient des formations d'ergs tant récentes qu'anciennes (5F et 5G)
Contains both recent and ancient Erg formations (5F and 5G)

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
6 SOLS BRUNS EUTROPHES EUTROPHIC BROWN SOILS			
	Sur matériau d'argile On clay material		
Bv 8	6B 6 hydromorphe/hydromorphic	2,2	2
Lc 5	6C 4E	2,4	2+4
7 SOLS FERRUGINEUX TROPICAUX TROPICAL FERRUGINOUS SOILS			
	Sur sables éoliens On eolian sands		
Qc 1	7A	4	4
Qc 4	7A 7B	4,4	4
Qc 7	7A 9 10	4,1-2,5	4+2
Qc 10	7A 1C-E	4,5	4+5
Qc 13	7A 10	4,5	4+5
Qc 14	7A 1D 5	4,5,3	4
	Sur sables éoliens On eolian sands		
Q1 1	7B	4	4
Q1 3	7B 9D 2C-E 6	4,1,4,1-2	4+1
Q1 5	7B 7D-H 9	4,3,1-2	4+2
Q1 6	7B 7A	4,4	4
Q1 8	7B 6 2C-E	4,2,4	4+2
Q1 11	7B 2C	4,4	4
Q1 12	7B 2C-E 1D 2I	4,4,5,2	4
Q1 13	7B 9BC	4, 1-2	4+2
Q1 14	7B 9 Salés/salinated	4,5	4+5
Q1 16	7B 7A 2BF	4,4,4	4
Q1 17	7B 1C-E	4,5	4+5

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
7 SOLS FERRUGINEUX TROPICAUX *TROPICAL FERRUGINOUS SOILS*			
	Sur sables éoliens On eolian sands		
Q118	7B 7B à base vertique/ with vertic basis 1C-E	4,3,5	4+3
Q119	7B 6	4,1-2	4+1
Q121	7B 7A 9D	4,4,1	4+1
	Sur matériau sableux On sandy material		
Je 33	7C	2	2
	Sur matériau graveleux, remanié, dérivé du schiste/On reworked, schist derived, gravelly material		
Lp 7	7D 9D 7H	3,1,4	3+1
	Sur matériau d'argile sableuse dérivée de l'altération du granite		
	On sandy clay material derived from the weathering of granite		
Lf 1	7E	3	3
Lf 11	7E 8AG	3, 3-4	3
Lf 18	7E 2C	3,4	3+4
Lf 20	7E 1D 7G	3,5,3	3
Lf 24	7E 2C	3,4	3+4
Lf 25	7E 7G 6A	3,3,1	3+1
Lf 26	7E 7H 9D 1C-E	3,4,1,5	3
Lf 31	7E 1C-E 6A	3,5,1	3
Lf 32	7E 1C-E	3,5	3+5
Lf 34	7E 9D	3,1	3+1
Lf 42	7E 9D 2BF	3,1,4	3+1
Lf 45	7E 7H	3,4	3+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
7 SOLS FERRUGINEUX TROPICAUX TROPICAL FERRUGINOUS SOILS			
	Sur matériau d'argile sableuse dérivée de l'altération du granite On sandy clay material derived from the weathering of granite		
Lf 46	7E 8AG	3,3-4	3
Lf 49	7E 8A 1C-E	3,2,5	3
Lf 52	7E 7H 7G	3,4,3	3
	Sur matériau kaolinitique non différencié/On undifferentiated kaolinitic material		
Af 15	7E 8CK	3,3	3
L 2	7E 6A	3,1	3+1
L 3	7E 1C-E	3,5	3+5
	Sur des argiles plus ou moins sablo-graveleuses dérivées des schistes/Over more or less gravelly sandy clays derived from schists		
Lf 35	7E 2C	3,4	3+4
Lf 36	7E 6A 2C	3,1,4	3+1
Lp 4	7E 1D 2C	3,5,4	3+4
	Sur matériau dérivé des grès Over sandstone derived material		
Lf 27	7E 8A-F 1C-E	3,3-4,5	3
Lf 40	7E 2C-E	3,4	3+4
Lf 41	7E 9D 1C-E	3,1,5	3+1
Lf 43	7E 7A-C 9D	3,2-4,1	3+2
Lf 48	7E 7H 7DF 1C-E	3,4,3,5	3
	Sur matériau de limon sableux On sandy loam material		
Lp 8	7F 8BDF	3,4	3+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
7 SOLS FERRUGINEUX TROPICAUX TROPICAL FERRUGINOUS SOILS			
	Sur matériau de limon sableux On sandy loam material		
Lf 53	7F 7H	3,4	3+4
Lf 54	7F 7H 8A	3,4,2	3
Lf 55	7F 7H 8C	3,4,3	3
	Sur matériau dérivé de schiste graveleux/On gravelly schist derived material		
Lf 37	7G 7H	3,4	3+4
Lf 38	7G 7H 9D 6A	3,4,1,1	3+1
Lf 27	7G 1C-E	3,5	3+5
	Sur matériau dérivé des grès On sandy material derived from sandstones		
Lg 13	7G 8A-P 2	3,3,4	3
Lg 14	7G 9BC 7E	3,1-2,3	3+2
	Sur gneiss fondamental ou roches non différenciées/Over basement complex or non-differentiated rocks		
Lg 20	7G 10CD	3,5	3+5
Lg 21	7G 7D-H 10	3,3,5	3
Lg 23	7G 10 7H 1C-E	3,5,4,5	3+5
Lg 24	7G 7D sur sables/on sand 10	3,3,5	3+5
Lg 25	7G 7D sur sables/on sand 2	3,3,4	3
Lg 26	7G 9	3,1-2	3+2
Lg 28	7G 7E 7H	3,3,4	3
Lp 5	7G 1C-E 7E	3,5,3	3+5
Lp 6	7G 7E	3,3	3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
7 SOLS FERRUGINEUX TROPICAUX TROPICAL FERRUGINOUS SOILS			
	Sur matériau de gneiss fondamental altéré/Over weathered basement complex material		
Lf 39	7H 2C 9D	4,4,1	4+1
Lg 8	7H 7G 7E	4,3,3	4+3
Lp 2	7H 7G 2C 1D	4,3,4	4+3
Lp 9	7H 2 1D	4,4,5	4
Lp 10	7H 7G 8C	4,3,3	4+3
Lf 30	7H 7G	4,3	4+3
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur matériau de sable limoneux On loamy sand material		
Ne 14	8A 8HO	2,2-3	2
	Sur matériau dérivé des roches basiques/On material derived from basic rocks		
Lp3	8B 7E	2,3	2+3
	Sur sables limoneux dérivés de roches sédimentaires On loamy sands derived from sedimentary rocks		
Lf 7	8C 9	3,1-2	3+2
Lf 8	8C 7H	3,4	3+4
Lf 13	8C 8E 1C-E 8C	3,3,5	3
Nd 9	8C 7E	3,3	3
Nd 28	8C 7E 9	3,3,1-2	3+2

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur matériau de limon sableux dérivé de différentes roches du gneiss fondamental/On sandy *loam material derived from* varied basement complex rocks		
Lf 15	8C 10	3,5	3+5
Lf 50	8C 2 10	3,4,5	3+4
Lf 51	8C 8A	3,2	3+2
Lf 60	8C 8A	3,2	3+2
Lf 61	8C	3	3
Lf 62	8C 8K	3,3	3
Lf 63	8C 8BDF	3,4	3+4
Lf 64	8C 1C-E	3,5	3+5
	Sur roches variées On various rocks		
Lf 12	8D 2 1C-E	4,4,5	4
Nd 3	8E 1C-E	3,5	3+5
Nd 7	8E 1C-E 8C	3,5,3	3+5
Ne 6	8E 8G-P 1C-E	3,3,5	3
	Sur matériau dérivé d'argile schisteuse/On clay schist-derived material		
Ap 20	8F 8(hydromorphe/hydromorphic) 1C-E	4,5	4+5
Ap 23	8F 8G 1C-E	4,3,5	4+3
	Sur sables limoneux dérivés de roches sédimentaires/On loamy sands derived from sedimentary rocks		
Af 13	8G 8N	3,4	3+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur matériau de gneiss fondamental altéré On weathered basement complex material		
Nd 6	8G 8G (hydromorphe/hydromorphic)	3,2	3+2
Ao 60	8F 8K 8N	3,3,3	3
	Sur limons sableux On sandy loams		
Af 18	8H 8K 8N	3,3,4	3
Af 25	8H 8M	3,3	3
Nd 25	8H 8M 1C-E	3,3,5	3
	Sur matériau de gneiss fondamental altéré/On weathered basement complex material		
Ao 1	8I	3	3
Ao 10	8I 1C-E 8M	3,5,3	3
Ao 46	8I 8G 8M	3,3,3	3
Ao 48	8I 8G 8N	3,3,4	3
Ao 49	8I 2 1C-E	3,4,5	3+4
	Sur matériau dérivé d'argile schisteuse/On clay schist derived material		
Nd 14	8I 8M	3,3	3
	Sur matériau d'argile sableuse dérivé de roches sédimentaires On sandy clay material derived from sedimentary rocks		
Af 11	8I 8A-F 7H	3,3-4,4	3+4
	Sur roches basiques altérées On weathered basic rocks		
Bh 8	8J 3A	1,1	1

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur matériau d'argile sableuse dérivé de roches sédimentaires On sandy clay material derived from sedimentary rocks		
Nd 1	8K	3	3
Nd 5	8K 8G 1C-E	3,3,5	3
Nd 15	8K 8M 8N	3,3,4	3
Nd 17	8K 9BC	3,1-2	3+2
Nd 22	8K 1C-E	3,5	3+5
	Sur limons sableux venant de roches métamorphiques et non différenciées On sandy loams from metamorphic and undifferentiated rocks		
Ne 1	8K	3	3
Ne 3	8K 1C-E 8G	3,5,3	3+5
Ne 16	8K 8G 8I	3,3,3	3
Ne 17	8K 1C-E	3,5	3+5
Ne 18	8K 1C-E	3,5	3+5
Ne 19	8K	3	3
Ne 21	8K 8O	3,2	3+2
	Sur sables limoneux On loamy sands		
Af 2	8K 7D-H	3,3-4	3
Nd 8	8K 8G	3,3	3
Nd 16	8K 8G (hydromorphe/hydromorphic)	3,3	3
	Sur sables limoneux On loamy sands		
Ao 11	8L 8G 1C-E	3,3,5	3
Ao 13	8L 2 1C-E	3,4,5	3+4
Ao 29	8L 1C-E 8O	3,1,2	3+1

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur sables limoneux On loamy sands		
Ao 30	8L 8G 8O	3,3,2	3
Ao 43	8L 1C-E	3,5	3+5
	Sur matériau dérivé d'argile schisteuse/On material from clay schists		
Af 12	8M 8hydromorphes/hydromorphic 8N	3,2,4	3+2
Af 23	8M 8O	3,2	3+2
Af 24	8M 8G	3,3	3
	Sur matériau dérivé de roches granitiques/On material derived from granite rocks		
Af 16	8M 8K	3,3	3
Af 26	8M 8O	3,2	3+2
Af 30	8M 7 1C-E	3,3,5	3
Ao 59	8M 8G 8K	3,3,3	3
	Sur matériau dérivé du schiste On schist derived material		
Ap 15	8N 8M 1C-E	4,3,5	4
Ap 16	8N 8M	4,3	4+3
Ap 22	8N 7D-H 1C-E	4,3,5	4
	Sur matériau dérivé du granite On granite derived material		
Bf 2	8O 8G	2,3	2+3
Bf 3	8O 1C-E	2,5	2+5
Bf 4	8O 8J	2,1	2+1
Bf 5	8O 6	2,1-2	2
Bf 6	8O 8G	2,3	2+3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur gneiss fondamental On basement complex		
Af 1	8P	3	3
Af 4	8P 8K 1C-E	3,3,5	3
	Sur sables limoneux dérivés du gneiss fondamental/On loamy sands derived from the basement complex		
Fr 6	8Q 8G 8K	3,3,3	3
Nd 10	8Q 8G	3,3	3
Nd 12	8Q 1C-E 8O	3,5,2	3+4
	Sur sables limoneux dérivés de roches variées/On loamy sands derived from various rocks		
Nd 18	8Q 9D	3,1	3+1
Nd 19	8Q 9 8K	3,1-2,3	3+2
Nd 20	8Q 2GI	3,2-4	3
Nd 21	8Q 8K	3,3	3
	Sur sables limoneux dérivés du gneiss fondamental/On loamy sands derived from the basement complex		
Fo 1	8R	3	3
Fo 9	8R 8G-P	3,3	3
Fo 14	8R 8V	3,3	3
Fo 20	8R 1C-E	3,5	3+5
Fo 26	8R 8U	3,4	3+4
Fo 33	8R 9A	3,2	3+2
Fo 35	8R 9BC	3,3-4	3
Fo 36	8R 8S	3,4	3+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur sables limoneux dérivés du gneiss fondamental/On loamy sands derived from the basement complex		
Fo 37	8R 1C-E 8S	3,5,4	3+4
Fo 38	8R 8S 9	3,4,1-2	3
Fo 39	8R 8S 8W	3,4,3	3
Fo 40	8R 8A-F 1C-E	3,3-4,5	3+4
Fo 45	8R 8U 9A	3,4,2	3
Fo 46	8R 8G-P 9A	3,3,2	3
	Roches non différenciées Non differentiated rocks		
Fp 2	8S 1C-E	4,5	4+5
Fp 3	8S 1C-E 2	4,5,4	4
Fp 4	8S 8Q 8R	4,4,3	4+3
Fp 5	8S 9A	4,2	4+2
Fp 6	8S 8 lessivés/leaching	4,4	4
	Sur matériau argileux dérivé de roches basiques/On clay material derived from basic rocks		
Fh 1	8T	2	2
Fh 6	8T 8W	2,3	2+3
Fh 7	8T 8 lessivés/leaching 9A	2,3,2	2+3
Nh 3	8T 1C-E	2,5	2+5
	Sur matériau sableux au sable limoneux/On sandy to loamy sand material		
Fx 1	8U	4	4
Fx 7	8U 8V 8Q	4,3,3	4+3
Fx 8	8U 8K	4,4,3	4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
8 SOLS FERALLITIQUES FERALLITIC SOILS			
	Sur matériau sableux au sable limoneux/On sandy to loamy sand material		
Fx 11	8U 9A	4,2	4+2
Qf 20	8U 9A podsols	4,2,5	4+2
	Matériau argileux dérivé du gneiss fondamental/Clay material derived from the basement complex		
Af 5	8V 8G 8K	3,3,3	3
Af 28	8V 8NS	3,3-4	3
Af 29	8V 8N 2 sables/sands	3,4,5	3+4
Ao 7	8V 8Q	3,3	3
Fo 41	8V 8NS 1C-E	3,4,5	3+4
Fx 12	8V 8NS 9	3,3,1-2	3
	Matériau dérivé d'argile schisteuse Clay, schist-derived material		
Ap 17	8V 8NS	3,4	3+4
Ap 18	8V 8W	3,3	3
Nd 27	8V 8NS 1C-E	3,4,5	3+4
	Sur produits altérés de granite On granite weathering products		
Bf 7	8W 8T	3,2	3+2
	Sur matériau dérivé du schiste On schist-derived material		
Ao 45	8W 8Q	3,3	3
9 SOLS HYDROMORPHES HYDROMORPHIC SOILS			
	Alluvions d'argile/Clay alluvium		
Gd 21	9A 2G-I sols organiques/organic soils	2,2-4,2	2+3

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
9 SOLS HYDROMORPHES HYDROMORPHIC SOILS			
	Texture variée/Varied texture		
Od10	9A 2G-I 9B-E	2,2-4,1-2	2
Gh4	9A 2G-I sols organiques/organic soils	2,2-4,3	2+3
Gh8	9A 8O	2,2	2
	Alluvions d'argile Clay alluvium		
Je 45	9B 2G-I	2,2-4	2+3
Gd16	9B 2 10	2,4,5	2+4
	Sables/Sands		
Ge5	9C 7A-C	1,2-4	2+3
	Texture variée/Varied texture		
Gh1	9C	1	1
Ge1	9C 10CD	1,5	1+5
Ge10	9C 10	1,5	1+5
G 4	9C 2	1,4	1+4
G 5	9C 7DH 4	1,3,4	1+3
G 6	9C 2 10 4	1,4,5,4	1+4
Wd2	9C 8QR	1,3	1+3
	Roches métamorphiques et granitiques/Metamorphic & granite rocks		
Lg15	9D	1	1
	Matériau d'argile Clay material		
Je 21	9D	1	1
Je 37	9D 9C 4	1,1,4	1
J 2	9D 2F-I	1,2-4	1+3
J 4	9D 9 8Q-W	1,1-2,3-4	1+2

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
9 SOLS HYDROMORPHES HYDROMORPHIC SOILS			
	Matériau d'argile Clay material		
Ge 2	9D 2F-I 9A	1, 2-4, 2	1+2
Je 32	9D 4	1, 4	1+4
	Matériau de sable limoneux Loamy sand material		
G2	9D	1	1
Lg 3	9D 2C	1, 4	1+4
Lg 5	9D 7A-C	1, 2-4	1+3
Lg 7	9D 4C	1, 4	1+4
Lg 9	9D 6 7A-C 2C	1, 1-2, 2-4, 4	1+2
Lg 10	9D 2C 6B	1, 4, 2	1+4
Lg 11	9D 9BC	1, 1-2	1
Lg 12	9D 7A-C 2C	1, 2-4, 4	1+3
J3	9D 7G	1, 3	1+3
	Matériau limoneux polygénétique ou matériau sablonneux/Polygenetic silty or sandy material		
Je 1	9D	1	1
	Colluvion sableuse Sandy colluvium		
G 3	9D 2F-H	1, 4	1+4
	Alluvion et colluvion variées Varied alluvium and colluvium		
Bg 1	9D	1	1
Bg 2	9D 2F-H 9BC	1, 4, 1-2	1+4
G 1	9D 4	1, 4	1+4
Je 34	9D 6 7A-C	1, 1-2, 2-4	1+2
Je 35	9D 2 10	1, 4, 5	1+4

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
9 SOLS HYDROMORPHES HYDROMORPHIC SOILS			
	Alluvion et colluvion variées Varied alluvium and colluvium		
Je 36	9D 9BC 10	1,1-2,5	1+2
	Sur matériau de sable limoneux On loamy sand material		
Lg 1	9E	1	1
10 SOLS HOLOMORPHES HALOMORPHIC SOILS			
	Sur alluvion lacustre d'argile On clay lacustrian alluvium		
Zt 1	10A	5	5
Zo 4	10A 10CD	5,5	5
	Sur alluvion grossière dominante On dominantly coarse alluvium		
Zo 6	10A 5EG	5,2-4	5+3
	Alluvion de texture variée Varied texture alluvium		
Zg 7	10A 9A 7A-C	5,2,2-4	5+2
Je 22	10A 10 hydromorphe/hydromorphic 9D	5,5,1	5+1
	Sédiments fluvio-marins Fluvio-marine sediments		
Jt 2	10B 2 salins/saline 9A	5,5,2	5+2
Jt 3	10B 9A salés/salinated	5,5	5
Jt 4	10B 9A 9A salés/salinated	5,2,5	5+2
Jt 5	10B 9A salés/salinated 9A	5,5,2	5+2
	Limons sableux à argiles sableuses dérivés du granite ou de migmatites Sandy loams to clays derived from granite or migmatites		
Ws 3	10C	5	5

Symbole d'unité cartographique (1) Mapping unit symbol	Unités de sol (2) Soil units	Classement du CIEH pour les potentialités des unités de sol (3) CIEH capability ratings of soil units	Récapitulation des potentialités (4) Summary of capability
10 SOLS HOLOMORPHES HALOMORPHIC SOILS			
	Limons sableux à argiles sableuses dérivés du granite ou de migmatites Sandy loams to clays derived from granite or migmatites		
Ws 2	10C 9D	5,1	5+1
Ws 4	10C 1C-E	5,5	5
Ws 8	10C 6B 7A	5,2,4	5+2
Ws 9	10C 2C	5,4	5+4
Ws 10	10C 4	5,4	5+4
Ws 11	10C 9BC 4A-C	5,1-2,4	5+2
Ws 12	10C 7A-C 2C	5,2-4,4	5+3
	Matériau de limon sableux à argile Sandy loam to clay material		
Ws 5	10D 9BC 4A-C	5,1-2,4	5+2
Ws 6	10D 4A-C	5,4	5+4

6 - 2 Liste des 166 unités cartographiques de la carte des sols au 1:5.000.000 de la FAO, couvrant le Tchad, le Cameroun, l'Empire Centrafricain, et montrant les unités de sol contenues dans chaque carte ainsi que leurs potentialités.

List of the 166 mapping units of the FAO 1:5 million soils map covering Chad, the Cameroon and Central African Empire, showing soil units contained in each and their capability.

APPENDIX 6-2

This appendix lists the mapping units, shown in the FAO 1:5 million soils map which cover the territories of Tchad, the Cameroons and the Central African Republic. These three territories are not covered in the OAU/IFAN soils map used as a basis for soil capability interpretation for the rest of West Africa, and the FAO mapping units have therefore been used instead, but the French mapping units assessed as equivalent, as set out in column two, were taken as the basis for the capability classification.

In the following table:

the general arrangement follows the order of the soil mapping units listed (in alphabetical order) in the FAO 1:5 million soils map;

the first column gives the identifying symbol of the mapping unit;

the second column lists first the major soil and then, in order of importance, any minor soils within the mapping unit, in terms of the French classification used for the IFAN/OAU map, as listed in Table 6-1 (Volume 1, Chapter 6);

the third column gives the CIEH soil capability classification for each of these soil units, as defined in Table 6-4 (Vol. 1, Chap. 6);

the fourth column gives the one or two figure summary of the soil capability ratings given in column three. The first figure is the capability of the dominant soil unit; the second figure summarizes the capability of the associated soils if different from that of the dominant soil. This one or two figure summary is indicated by the type of shading used on the CIEH soil capability map (Volume 2, Map No. 6-1).

ANNEXE 6-2

La présente annexe énumère les unités cartographiques montrées dans la carte des sols au 1:5.000.000 de la FAO, carte qui couvre les territoires du Tchad, du Cameroun et de l'Empire Centrafricain. Ces trois pays ne sont pas pris en compte dans la carte de l'OUA/IFAN employée comme base de l'interprétation des potentialités des sols pour le reste de l'Afrique de l'Ouest, et les unités cartographiques de la FAO ont donc été préférablement utilisées, tandis que les unités cartographiques du système français, évaluées en tant qu'équivalences comme précisé dans la deuxième colonne, ont été considérées comme le fondement de la classification des potentialités.

Dans le tableau suivant:

l'arrangement d'ensemble suit la nomenclature des unités cartographiques des sols énumérées (par ordre alphabétique) dans la carte pédologique au 1:5.000.000 de la FAO;

la première colonne indique le symbole d'identification de l'unité cartographique;

la seconde colonne tout d'abord identifie les sols principaux, puis, par ordre d'importance, tout sol secondaire dans l'unité cartographique, en fonction de la classification française utilisée pour la carte IFAN/OUA, comme montré dans le Tableau 6-1 (Vol. 1, Chap. 6);

la troisième colonne donne la classification du CIEH pour les potentialités de chacune de ces unités de sol, comme défini dans le Tableau 6-4 (Volume 1, Chapitre 6);

la quatrième colonne récapitule en un ou deux chiffres les classifications données dans la troisième colonne pour les potentialités des sols. Le premier chiffre réfère à la potentialité de l'unité de sol dominant, tandis que le second chiffre récapitule la potentialité des sols associés si ceux-ci diffèrent du sol dominant. Cette récapitulation au moyen d'un ou deux chiffres est indiquée par le type de nuancement utilisé sur la carte du CIEH pour les potentialités des sols (Volume 2, Carte No. 6-1).

(1)		(2)	(3)	(4)
A	ACRISOLS			
Af	Acrisols ferriques Ferric Acrisols			
Af 17		8G, 7GH	3,3-4	3
Af 31		8G, 8OW	3,2-3	3
Ao	Acrisols orthiques Orthic Acrisols			
Ao 1		8I	3	3
Ao 7		8V, 8Q	3,3	3
B	CAMBISOLS			
Bc	Cambisols calciques Calcic Cambisols			
Bc 8		6A, 5E	1,2	1 + 2
Be	Cambisols eutriques Eutric Cambisols			
Be 30		6A/5E, 8Q	1/2,3	1 + 3
Be 45		6A/5E, 3A	1/2,1	1
Bh	Cambisols humiques Humic Cambisols			
Bh 8		8J, 3A	1,1	1
Bv	Cambisols vertiques Vertic Cambisols			
Bv 8		6B, 6 hydromorphe/ hydromorphic	2,2	2
F	FERRALSOLS			
Fh	Ferralsols humiques Humic Ferralsols			
Fh 1		8T	2	2

(1)		(2)	(3)	(4)
Fo	Ferralsols orthiques Orthic Ferralsols			
Fo 1		8R	3	3
Fo 2		8R, 8U	3,4	3 + 4
Fo 8		8R, 8, 7	3,3,3	3
Fo 9		8R, 8G-P	3,3	3
Fo 14		8R, 8V	3,3	3
Fo 21		8R, 1, 2DE	3,5,4	3 + 5
Fo 22		8R, 8	3,3	3
Fo 26		8R, 8U	3,4	3 + 4
Fo 28		8R, 9B	3,2	3 + 2
Fo 32		8R, 9B, 8U	3,2,4	3 + 2
Fo 33		8R, 9A	3,2	3 + 2
Fo 35		8R, 9BC	3, 2	3 + 2
Fp	Ferralsols plinthiques Plintic Ferralsols			
Fp 2		8S, 1	4,5	4 + 5
Fp 7		8S, 8G-I, 7E-H	4,3,3-4	4 + 3
Fp 8		8S, 8G-I, 2D	4,3,4	4 + 3
Fr	Ferralsols rhodiques Rhodic Ferralsols			
Fr 2		8Q, 8J/T, 1, 2DE	3,1-4,5,4	2 + 5
Fr 6		8Q, 8G, 8K	3,3,3	3
Fr 8		8Q, 8EK, 2DE	3,3,4	3
Fx	Ferralsols xanthiques Xanthic Ferralsols			
Fx 1		8U	4	4
Fx 8		8U, 8X	4,3	4 + 3
Fx 9		8U, 9ABC	4,2-1	4 + 2
Fx 10		8U, 8R	4,3	4 + 3

(1)		(2)	(3)	(4)
G	GLEYSOLS			
G	Gleysols non différenciés Undifferentiated Gleysols			
G 2		9D	1	1
Gd	Gleysols dystriques Dystric Gleysols			
Gd 5		9B, 2I	2,2	2
Gd 6		9B, 8R, 2I	2,3,2	2 + 3
Gd 14		9B, 9 plinthique plinthic, 2I	2,3,2	2 + 3
Gd 16		9B, 2, 10	2,4,5	2 + 4
Ge	Gleysols eutriques Eutric Gleysols			
Ge		9C	1	1
Ge 1		9C, 10CD	1,5	1 + 5
Ge 16		9C, 5FG, 4	1,4-5,4	1 + 4
Ge 22		9C, 9BD, 7G	1,2,3	1 + 2
Gh	Gleysols humiques Humic Gleysols			
Gh 1		9C	1	1
Gh 4		9A, 2G-I, + sols organiques organic soils	2,3,2	2 + 3
Gh 8		9A, 8O	2,2	2
Gh 11		9A, 8U	2,4	2 + 4
H	PHAEOZOMS/PHAEOZEMS			
Hh	Phaeozoms hapliques Haplic Phaeozems			
Hh		3A	1	1
I	LITHOSOLS			
I		1A à/to E	5	5

(1)	(2)	(3)	(4)
Complexes of I			
I - Bc - Tv	1, 6A, 3A	5, 1, 1	5 + 1
I - Bf	1, 8	5, 3	5 + 3
I - Lc - Pe	1, 6C, 2	5, 2, 4	5 + 2
I - Lf	1, 7E	5, 3	5 + 3
I - Lp	1, 7E, 7H	5, 3, 4	5 + 3
I - Lv	1, 7 vertique/vertic	5, 3	5 + 3
I - Nd	1, 8	5, 3	5 + 3
I - Nh - Rd	1, 8T, 2	5, 2, 4	5 + 2
I - Rd	1, 2	5, 4	5 + 4
I - Rd - So	1, 2, 10	5, 4, 5	5 + 4
I - Re	1, 2	5, 4	5 + 4
I - Y	1, 1B	5, 5	5
J FLUVISOLS			
J Fluvisols non différenciés Undifferentiated Fluvisols			
J 1	9D	1	1
J 2	9D, 2F, I	1, 4, 2	1 + 3
Jc Fluvisols calcaires Calcareous Fluvisols			
Jc 28	2I, 7, 4	2, 3, 4	2 + 3
Jc 29	2I, 4	2, 4	2 + 4
Jc 30	2I, 4, 10A	2, 4, 5	2 + 4
Je Fluvisols eutriques Eutric Fluvisols			
Je 13	9 BCD	1-2	1
Je 28	9 BCD, 10CD	1-2, 5, 5	1 + 5
Je 30	9 BCD, 7, 4	1-2, 3, 4	1 + 3
Je 31	9 BCD, 7	1-2, 3	1 + 3
Je 32	9D, 4	1, 4	1 + 4
Je 35	9D, 2, 10	1, 4, 5	1 + 4
Je 48	9 BCD, 7	1-2, 3	1 + 3

(1)		(2)	(3)	(4)
L	LUVISOLS			
L	Luvisols non différenciés Undifferentiated Luvisols			
L 2		7E, 6A	3, 1	3 + 1
Lc	Luvisols chromiques Chromic Luvisols			
Lc 5		6C, 4E	2, 4	2+4
Lf	Luvisols ferriques Ferric Luvisols			
Lf 1		7E	3	3
Lf 12		8D, 2, 1C-E	4,4,5	4
Lf 30		7H, 7G	4, 3	4 + 3
Lf 32		7E, 1 C-E	3, 5	3 + 5
Lf 41		7E, 9D, 1C-E	3, 1, 5	3 + 1
Lf 48		7E, 7H, 7DF, 1C-E	3,4,3,5	3
Lf 65		8, 4, 1	3,4,5	3 + 4
Lg	Luvisols gleyiques Gleyic Luvisols			
Lg 2		7G, 7E	3	3
Lg 4		9CD	1	1
Lg 15		9D, 9C	1, 1	1
Lg 20		7G, 10CD	3, 5	3 + 5
Lg 33		7G, 9BCD, 7E	3,1-2,3	3 + 1
Lg 34		7G/9D, 4, 9C	3/1, 4, 1	3
Lg 35		7G/9D, 7E	3/1, 3	3
Lg 36		7G, 9BCD, 7E	3, 1-2, 3	3+1
Lp	Luvisols plinthiques Plinthic Luvisols			
Lp 4		7E, 1D, 2C	3, 5, 4	3 + 5
N	NITOSOLS			
Nd	Nitosols dystriques Dystric Nitosols			

(1)	(2)	(3)	(4)
Nd 1	8K	3	3
Nd 6	8G, 8G hydromorphe hydromorphic	3, 2	3 + 2
Nd 8	8K, 8G	3, 3	3
Nd 10	8Q, 8G	3, 3	3
Nd 11	8Q, 7	3, 3	3
Ne Nitosols eutriques Eutric Nitosols			
Ne 1	8K	3	3
Ne 3	8K, 1C-E, 8G	3, 5, 3	3 + 5
Ne 17	8K, 1C-E	3, 5	3 + 5
Ne 26	8K, 8Q, 8T	3,3,2	3 + 2
Nh Nitosols humiques Humic Nitosols			
Nh 3	8T, 1C-E	2, 5	2 + 5
O HISTOSOLS			
Od Histosols dystriques Dystric Histosols			
Od 11	9A	2	2
Q ARENOSOLS			
Qc Arenosols cambiques Cambic Arenosols			
Qc 1	5F	5	5
Qc 4	7A, 7B	4	4
Qc 10	7A, 1C-E	4,5	4 + 5
Qc 11	7A, 10CD	4,5	4 + 5
Qc 12	7A, 4	4,4	4
Qc 13	7A, 10	4,5	4 + 5
Qc 15	7A, 2	4,4	4
Qc 16	7A, 10, 4	4,5,4	4 + 5
Qc 17	7A, 10	4,5	4 + 5
Qc 18	7A, 9D	4,1	4 + 1

(1)		(2)	(3)	(4)
Qf	Arenosols ferriques Ferric Arenosols			
Qf 1		8U	4	4
Qf 4		8U, 8R, 8	4,3,3	4 + 3
Qf 17		8U, 9BCD	4, 1-2	4 + 1
Qf 18		8U, 10, 4	4,5,4	4 + 5
Qf 19		8U, 9BCD	4, 1-2	4 + 1
Qf 21		8U, 8, 2	4,3,4	4 + 3
Q1	Arenosols luviques Luvic Arenosols			
Q1 11		7B/5G 2C	4/4, 4	4
Q1 18		7B, 1C-E	4,5	4 + 5
Q1 22		7B/5G	4/4	4
Q1 23		7B/5G, 1, 9BD	4/4,5,1-2	4 + 1
Q1 24		7B/5G, 7, 9	4/4, 3, 1-2	4 + 3
R	REGOSOLS			
Rd	Regosols dystriques Dystric Regosols			
Rd 12		2CDE, 8	4,3	4 + 3
Rd 17		2I, 8 sableux sandy	2,3	2 + 3
Rd 18		2CDE, 1, 7	4,5,3	4 + 5
Re	Regosols eutriques Eutric Regosols			
Re 1		2B	5	5
Re 33		2C, 1C-E, 7D-H	4,5,3	4
Re 39		2F, 1B, 2B	4,5,5	4 + 5
Re 40		2C, 7G, 9BC	4,3,1-2	4 + 2
Re 2		2, 10, 1	4,5,5	4 + 5
S	SOLONETZ			
So	Solonetz orthique Orthic Solonetz			

(1)		(2)	(3)	(4)
So 8		10CD, 5F	5, 5	5
So 9		10CD, 4, 10	5,4,5	5 + 4
T	ANDOSOLS			
Th	Andosols humiques Humic Andosols			
Th 2		3A, 1C-E	1, 5	1 + 5
Tm	Andosols molliques Mollic Andosols			
Tm 3		3A, 9BC	1, 1-2	1 + 2
Tv	Andosols vitriques Vitric Andosols			
Tv 11		3A	1	1
Tv 12		3A, 8	1, 3	1 + 3
V	VERTISOLS			
Vc	Vertisols chromiques Chromic Vertisols			
Vc 1		4E ou/or 4B	4	4
Vc 9		4E, 4 solonetzique solonetzic	4, 5	4 + 5
Vc 13		4B, 5CD	4, 3	4 + 3
Vc 14		4F, 2	4, 4	4
Vp	Vertisols pelliques Pellic Vertisols			
Vp 1		4C	4	4
Vp 8		4A, 4B, 9 sableux sandy	3,4,2	3
Vp 9		4B, 2I	4, 2	4 + 2
Vp 10		4E, 6B	4, 2	4 + 2
Vp 11		4E, 7AB, 7D-H	4,4,3	4
Vp 12		4E, 10CD, 7G	4,5,3	4 + 5
Vp 13		4, 9CD, 5F	4,1,5	4 + 1
Vp 17		4, 5FG	4,4-5	4
Vp 19		4B, 7E	4,3	4 + 3

(1)	(2)	(3)	(4)
Vp 23	4E, 7G	4, 3	4 + 3
Vp 24	4, 10	4, 5	4 + 5
Vp 25	4, 10	4, 5	4 + 5
Vp 26	4, 9BD	4, 1-2	4 + 1
W PLANOSOLS			
W Planosols non différenciés Undifferentiated Planosols			
W2	9A, 10CD	2, 5	2 + 5
We Planosols eutriques Eutric Planosols			
We 2	9A, 10CD	2, 5	2 + 5
Ws Planosols solodiques Solodic Planosols			
Ws 2	10C, 9D	5, 1	5 + 1
Ws 10	10C, 4	5, 4	5 + 4
Ws 11	10C, 9BC, 4A-C	5,1-2,4	5 + 2
X XEROSOLS			
Xh Xerosols hapliques Haplic Xerosols			
Xh 14	1B, 2	5, 4	5 + 4
Y YERMOSOLS			
Y 12	1B	5	5 + 1
Z SOLONCHAKS			
Z 1	10A	5	5
Z 4	10A, 4E, 10C	5,4,5	5 + 4
Z 6	10A, 7, 4	5,3-4,4	5 + 4
Zo Solonchaks orthiques Orthic Solonchaks			
Zo 4	10A, 10CD	5,5	5
Zo 5	10A, 10CD	5,5	5
Zo 6	10A, 5EG	5,2-4	5 + 3

6 - 3 Etude du cas No. 1 : Haute Volta (page 1)

Case study No. 1 : Upper Volta (page 21)

ANNEXE 6-3

On dispose pour la Haute-Volta d'une plus grande quantité d'informations sur les sols que pour la plupart des pays de la savane. C'est ainsi qu'à propos des investigations dont il est question ici, la documentation ci-après énumérée a été prise en compte:

(a) Les cartes des sols et comptes rendus connexes couvrant l'ensemble du pays à l'échelle 1:500.000 et publiés par l'ORSTOM*.

(b) La récapitulation ("Rapport de synthèse") des travaux susvisés (Boulet et autres, 1969) qui donne la description des principaux sols et qui contient une carte des sols au 1:2.000.000. Par ailleurs, elle contient, à cette même échelle de 1:2.000.000, une carte des "régions agricoles" qui correspond presqu'à une une carte des potentialités des sols.

(c) Les cartes à l'échelle 1:500.000 et le rapport y afférent, basées sur les cartes des sols au 1:500.000 de (a) ci-dessus, et qui indiquent les ressources en sols de la Haute-Volta en termes d'unités agronomiques (Boulet, 1976). Les cinq cartes montrent essentiellement la profondeur et la texture du sol, ainsi que la division de la Haute-Volta en quatre zones climatiques. Bien que le rapport narratif ("Notice des cartes de ressources en sols de la Haute-Volta") fournisse des informations plus détaillées sur les sols et leurs propriétés agronomiques, il ne place pas cependant ces sols dans des classes de potentialités.

(d) Une carte en couleurs, à l'échelle 1:3.000.000, montrant "la valeur agricole des sols", carte annexée à l'atlas joint au rapport de la FAO, "Contrôle de l'onchocercose dans la région du bassin

---

*(Boulet, 1968; Boulet and Leprun, 1969; Kaloga, 1969; Leprun and Moreau, 1968; Rieffel and Moreau, 1969.)

de la Volta, 1973"). Cette carte divise les sols en six catégories avec une classification pour les valeurs agricoles allant de néant à très bonne.

(e) Une carte en noir et blanc, à l'échelle d'environ 1:4.000.000, intitulée "potentialité des sols", contenue dans le volume de cartes sur feuilles mobiles connu sous le nom de "Cartographie des pays du Sahel" (Ministère de la Coopération, 1976). Il s'agit en l'occurrence d'une carte simplifiée des sols représentant sept groupes principaux de sols, soit les sols salés et sodiques, les sols d'érosion et cuirasses, les sols subarides, les sols hydromorphes, les sols ferrugineux et ferralitiques, les argiles noires tropicales, les sols bruns tropicaux. Des notes très brèves portant sur la valeur agricole de chaque groupe sont portées dans la légende, mais aucune tentative n'est faite afin de classer les sols selon leurs potentialités.

(f) De courtes annotations (non datées) venant de l'IRAT et définissant les "unités aptes à l'exploitation agricole" en Haute-Volta en fonction des unités du paysage géomorphologique qui sont aisément identifiables sur les photographies aériennes.

Parmi les documents ci-dessus, ceux sous les rubriques (a), (b), (c) et (d) se sont révélés ceux se rapportant davantage aux présentes tâches, et ils ont donc été étudiés en détail. Les notes afférentes aux items (b), (c) et (d) et à leur relation avec la carte des potentialités des sols établie par le CIEH sont indiquées dans les paragraphes suivants, tandis que la Figure 1 représente une partie de la carte pédologique de base au 1:500.000 de l'ORSTOM, ((a) ci-dessus), montrant les sols de la zone de Ouahigouya.

KEY

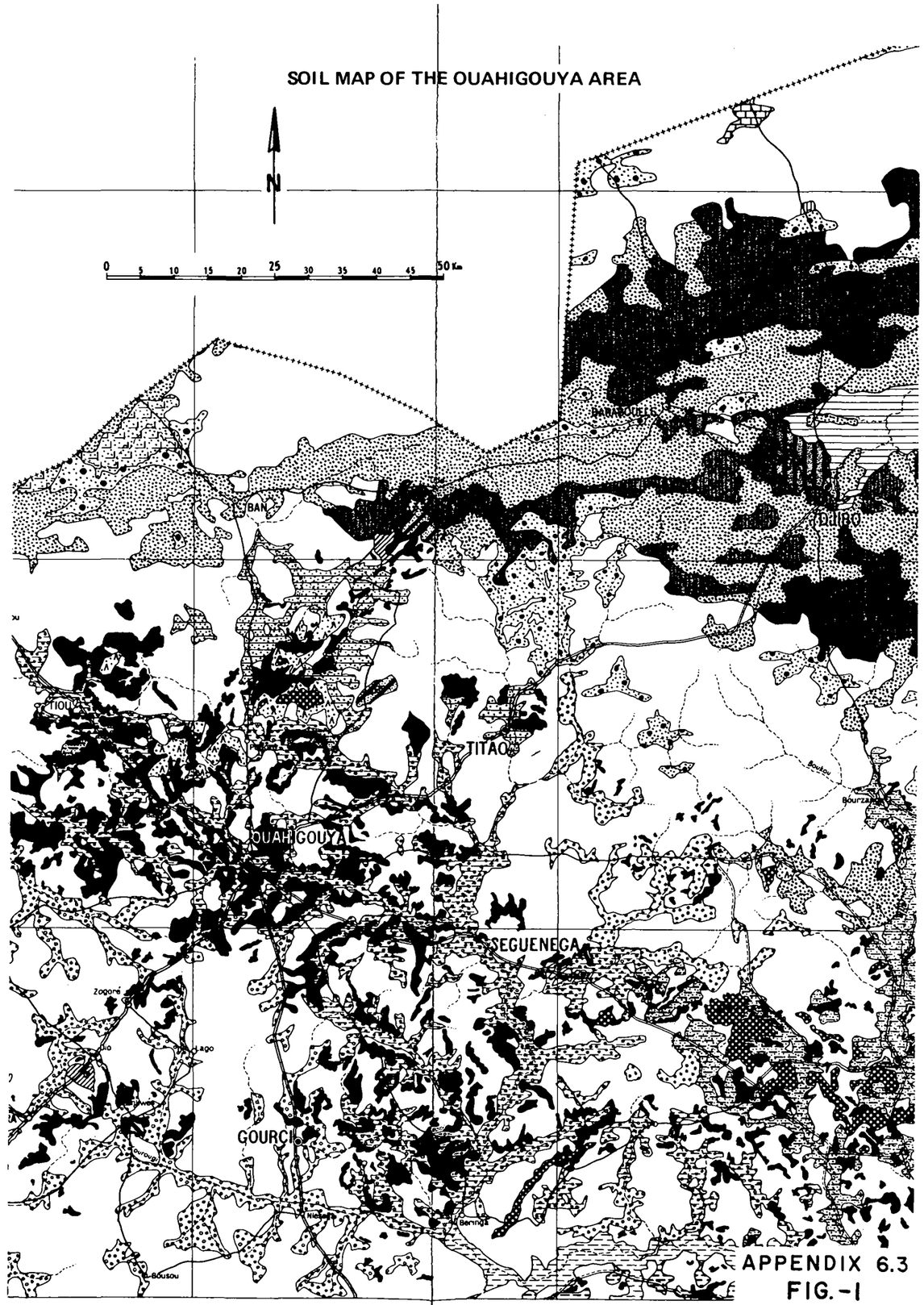
1. SOLS MINERAUX BRUTS D'EROSION LITHOSOLS	1. RAW MINERAL SOILS LITHOSOLS
OVER FERRUGINOUS CRUSTS	(IFAN UNIT 1D) (CIEH CAPABILITY 5)
OVER VARIOUS ROCKS	(IFAN UNIT 1C) (CIEH CAPABILITY 5)
2. SOLS PEU EVOLUES D'EROSION SOLS REGIQUES	2. IMMATURE SOILS REGOSOLS
GRAVELLY REGOSOLS ASSOCIATED WITH LITHOSOLS OVER FERRUGINOUS CRUSTS (IFAN UNIT 2C ASSOCIATED WITH 1D) (CIEH CAPABILITY 4 + 5)	
7. SOLS FERRUGINEUX TROPICAUX	7. TROPICAL FERRUGINOUS SOILS
SLIGHTLY DESATURATED, MODAL, OVER EOLIAN SANDS (IFAN UNIT 7B) (CIEH CAPABILITY 4)	
SLIGHTLY DESATURATED, ASSOCIATED WITH GRAVELLY SOILS (IFAN UNITS PROBABLY 7C AND E) (CIEH CAPABILITY 2 + 3)	
DESATURATED, CONCRETIONARY (IFAN UNIT 7E) (CIEH CAPABILITY 3)	
9. SOLS HYDROMORPHES SOLS A TACHES ET CONCRETIONS	9. HYDROMORPHIC SOILS MOTTLED AND CONCRETIONARY
WITH PSEUDOGLEY, ON LOAMY SAND COLLUVIUM AND ALLUVIUM (IFAN UNIT 9D) (CIEH CAPABILITY 1)	
WITH PSEUDOGLEY, ASSOCIATED WITH SHALLOW SANDY CLAY GRAVELLY FERRUGINOUS SOILS (IFAN UNITS 9D AND 7E) (CIEH CAPABILITY 1)	
10. SOLS HALOMORPHES	10. HALOMORPHIC SOILS
DEGRADED STRUCTURE, SOLONETZ, WITH COLUMNAR B HORIZON (IFAN UNIT 10C) (CIEH CAPABILITY 5)	

APPENDIX 6.2, MAP 1

KEY TO THE 1: 500,000 SOIL MAP OF THE OUAHIGOUYA AREA showing the main soils included in the section reproduced.

THE DARK PATCHES ARE ALL SHALLOW SOILS OVER FERRUGINOUS CRUSTS (CIEH CAPABILITY RATING 5) AND THE UNSHADED AREAS ARE THE SHALLOW VERY GRAVELLY SOILS OF THE "PARKING LOTS", WHICH ARE SUCH A STRIKING FEATURE OF THE AREA, ASSOCIATED WITH SHALLOW SOILS OVER FERRUGINOUS CRUSTS (CIEH CAPABILITY RATING 4 + 5). THE MAP ILLUSTRATES THAT THE SOIL PATTERN IS RELATIVELY COMPLEX, AND THAT ONLY THE BROAD FEATURES OF THE AREA SURVIVE REDUCTION TO THE 1: 5 MILLION SCALE. MOST OF THE AREA IS GRADED 4 OR 5 IN THE CIEH CLASSIFICATION OF CAPABILITY, BUT THERE ARE SMALL AREAS OF HYDROMORPHIC SOILS (CAPABILITY 1) WHICH ARE THE MOST PRODUCTIVE IN THE AREA.

SOIL MAP OF THE OUAHIGOUYA AREA



APPENDIX 6.3
FIG.-1

"Rapport de synthèse" sur les sols de la Haute-Volta, et projet de la carte des potentialités des sols préparé par le CIEH en fonction du rapport de synthèse en question.

Le rapport de synthèse est un précis utile des études de sols entreprises jusque là dans le pays, précis rédigé par des pédologues ayant participé aux travaux et possédant conséquemment une profonde connaissance des sols concernés.

Au lieu d'une carte des sols comme telle, le rapport contient quatre cartes distinctes des sols, chacune à l'échelle 1:2.000.000, et chacune montrant la distribution d'un important groupe de sols ou (comme dans un cas) de deux groupes de sols. Les sols ainsi représentés sur des cartes individuelles regroupent:

1. Des vertisols
2. Des sols bruns eutrophes
3. Des sols ferrugineux tropicaux peu lessivés et des sols subarides bruns rougeâtres (ces sols sont représentés ensemble sur une seule carte)
4. Des sols ferrugineux tropicaux lessivés

Une cinquième carte, à la même échelle de 1:2.000.000, indique les "régions agricoles", mais en réalité c'est une carte simplifiée des sols fournissant dans la légende quelques indications à propos de la potentialité des sols, mais sans qu'il y ait de texte à l'appui de la carte. Cette carte montre:

(a) les secteurs comportant une proportion élevée de sols lourds (les vertisols et les sols bruns eutrophes sont ici combinés, bien qu'ils soient indiqués séparément sur les cartes des sols accessoires);

(b) les aires où ces sols lourds ont été limités en raison d'un manque d'eau ou d'un facteur pédologique comme une couverture de sable, ou la salinité;

(c) les périmètres comprenant une forte proportion de sols profonds, à texture moyenne, avec capacité d'échange peu élevée, et fertilité faible (sols ferrugineux et sols hydromorphes non saturés);

(d) les zones comprenant surtout des sols saturés, ou des sols susceptibles d'être saturés (ce groupe ne s'étend que sur des étendues très restreintes);

(e) et (f) les secteurs constitués principalement de sables éoliens, répartis entre ceux à même de supporter uniquement des parcours et ceux, de texture moins grossière, qui sont cultivables;

(g) les aires de peu ou d'aucune valeur agricole, et

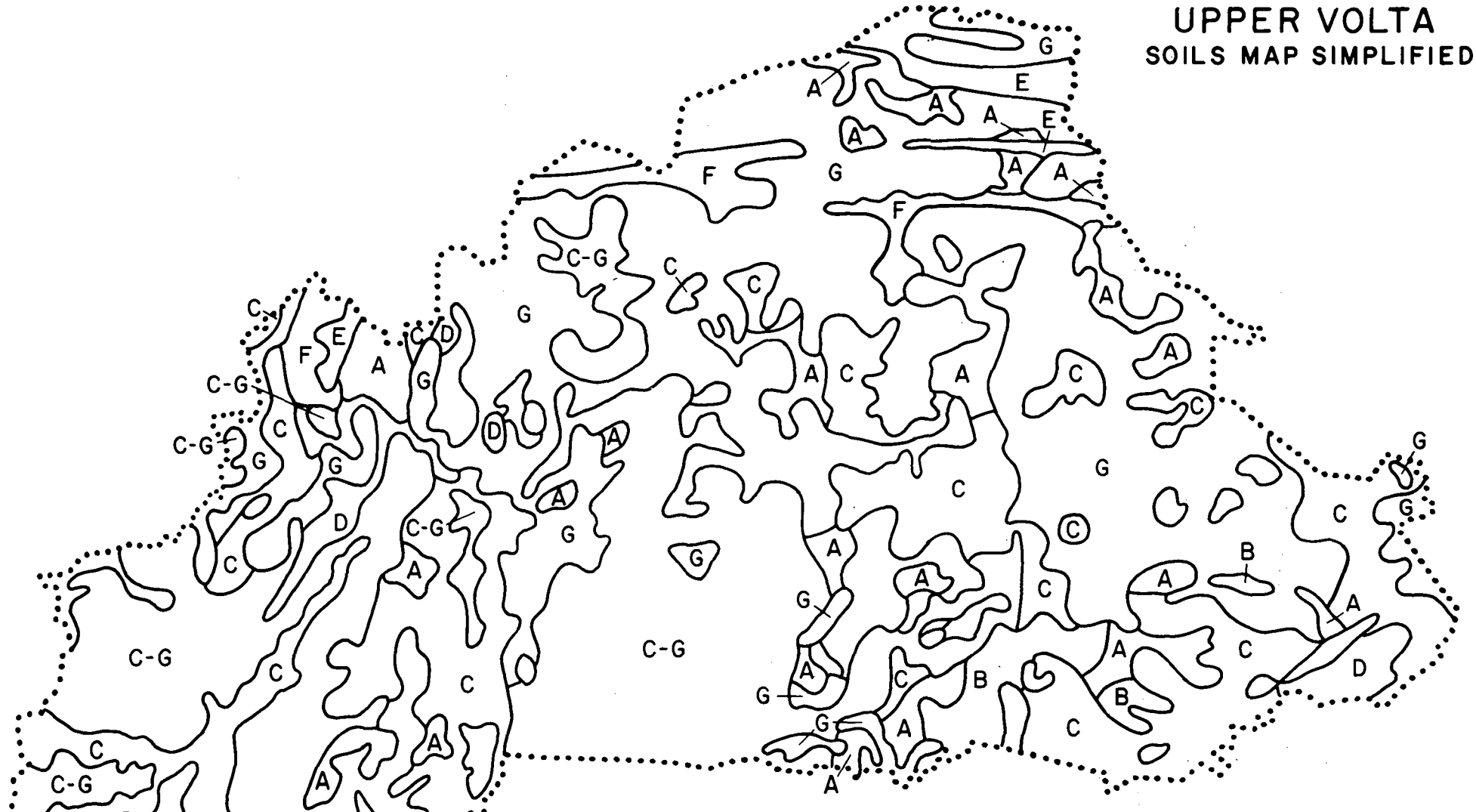
(h) les périmètres où (c) et (g) se juxtaposent étroitement doivent être cartographiés ensemble.

Les unités (g) et (h) correspondent à celles possédant de loin les plus grandes superficies. Un plan superposable transparent est fourni et peut être placé sur la carte des "régions agricoles" afin d'indiquer les principaux secteurs affectés par le dépeuplement résultant de l'onchocercose.

Un projet de carte pédologique basée sur ce qui précède, mais simplifiée de manière à pouvoir être réduite à l'échelle 1:5.000.000, a été préparée par le CIEH à titre d'exercice (Figure 2) visant à:

(a) utiliser les renseignements donnés comme matériaux de source directe en vue de l'établissement d'une carte des potentialités des sols de la Haute-Volta, devant être comparée par la suite avec les cartes pédologiques de ce pays obtenues par interprétation des cartes des sols au 1:5.000.000 de la FAO et de l'OUA/IFAN.

UPPER VOLTA
SOILS MAP SIMPLIFIED



E	EOLIAN SANDS, COARSE (PASTURE ONLY)
F	EOLIAN SANDS, FINER, LOW-MODERATE FERTILITY
G	DOMINANTLY LITTLE OR NO AGRICULTURAL VALUE
C-G	C AND G IN JUXTAPOSITION
C	DEEP SOILS, MEDIUM TEXTURED, LOW CEC AND FERTILITY (WITH SOME D)
A	HEAVY SOILS, HIGH CEC, HIGH PERCENTAGE SATURATION
B	AS A, BUT LIMITED BY SOIL FACTORS (SALINITY, COVERING OF SAND, ETC.)
D	SOILS WHICH ARE, OR CAN BE, FLOODED (MEDIUM TO HEAVY TEXTURE)

APPENDIX 6.3
FIG.-2

(b) vérifier dans quelle mesure la réduction de l'information de l'échelle de 1:2.000.000 à 1:5.000.000 a conduit à des pertes dans l'information et dans les détails.

La méthode suivie dans le tracé du projet de carte des potentialités des sols a été celle décrite ci-après:

(a) Les aires de "peu ou d'aucune valeur agricole" ont été séparées des autres unités, puis un dessin simplifié a été préparé à partir des périmètres aptes à l'agriculture, en vue de réduction à l'échelle 1:5.000.000.

(b) De la même façon, une délinéation simplifiée, se prêtant à la réduction, a été préparée pour les secteurs décrits comme étant les unités C et G en juxtaposition, c'est-à-dire pour les secteurs où les sols profonds mais généralement pauvres (unité C) se trouvent étroitement associés avec des sols de peu ou d'aucune valeur agricole (unité G).

(c) Finalement, une carte simplifiée des sols a été préparée en deux étapes: les cartes simplifiées, établies comme dit ci-dessus, ont été fusionnées au titre d'une première étape, puis toutes les superficies des unités de sol restantes de suffisante envergure pour être réduites à l'échelle 1:500.000 ont été introduites, tout en effectuant les ajustements nécessaires, cela en vertu d'une seconde étape. Cette opération a conduit à l'établissement d'une carte des sols basée sur la carte au 1:2.000.000 simplifiée de manière à permettre de la réduire à l'échelle 1:5.000.000, et la comparaison entre cette carte simplifiée et celle originelle a donné la possibilité d'évaluer le degré de la perte des détails en résultant.

Il est évident que la carte définitive convenant à la réduction simplifie

la carte originelle des sols. La perte des détails, a-t-on constaté, affecte tout particulièrement:

(a) Les sols hydromorphes qui sont largement distribués mais qui se présentent rarement en unités individuelles de taille suffisante pour être montrées sur des cartes à échelle plus petite, et

(b) des superficies dispersées de vertisols et de sols bruns eutrophes qui, bien qu'apparaissant clairement sur la carte au 1:2.000.000, sont cependant trop restreintes pour continuer d'exister après la réduction au 1:5.000.000.

Bien entendu, la carte définitive ainsi obtenue (voir sous ce couvert) demeure néanmions une carte des sols. Pour la convertir en une carte des potentialités des sols il faudrait assigner des classes de potentialité aux unités cartographiques des sols. Cette démarche équivaudrait à une simplification plus poussée, et donc à la perte de certaines informations.

La carte au 1:3.000.000 de la "valeur agricole des sols" dans le rapport de la FAO intitulé "Contrôle de l'onchocercose dans la région du bassin de la Volta (FAO, 1973).

Le rapport en question classe les sols de la Haute-Volta dans 12 groupes de potentialité (voir Tableau 1). Une annexe énumère les unités cartographiques individuelles comprises dans chacun de ces 12 groupes de potentialité, et elle donne un exposé des méthodes utilisées. Les auteurs soulignent non seulement que cette classification n'est pas, cependant, aussi exacte que le laisserait penser le nombre élevé de classes, mais également qu'il s'est produit parfois des différences contradictoires d'opinion parmi les auteurs consultés, quant à la valeur des différents sols cartographiés et analysés par ces derniers. Les informations de base employées dans cette compilation sont à des échelles différentes; d'ailleurs, certaines cartes à échelle plus grande utilisent des systèmes de

TABLEAU 1

DEFINITIONS DES 12 GROUPES DE POTENTIALITE DES SOLS CONTENUS DANS LE RAPPORT DE LA FAO SUR L'ONCHOCERCOSE.

(FAO, 1973)

Classe	Valeur Agricole	Remarques
I	Nulle	Pas utilisée à des fins agricoles
II	Nulle à médiocre	Utilisée occasionnellement
III	Médiocre à nulle	Les sols III à IV b sont traditionnelle-
IV a	Médiocre	ment utilisés pour les cultures vivrières
IV b	Médiocre à moyenne	mais leur rapport monétaire est très faible.
V	Moyenne à médiocre	Les classes IV b à VI sont des sols relati-
VI	Moyenne	vement profonds;les rendements varient de
VII	Moyenne à bonne	moyens à bons et les améliorations de
VIII	Bonne à moyenne	moyennes à considérables.
IX	Bonne	Les classes VIII à X possèdent des potentia-
X	Bonne à très bonne	lités similaires à celles des classes pré-
XI	Très bonne	cédentes, mais elles fournissent de meilleurs rendements. Elles sont également à même de supporter certaines variétés de riz.
		Les sols de la classe XI sont destinés à une intensive utilisation (maraîchage, riz), et ils ne réclament pas de grandes améliorations.

classification autres que ceux des cartes à plus petite échelle, cela même au sein d'un même pays. La conception de la valeur agricole a été prise en termes de la production existante en fonction des méthodes appliquées, et elle n'a pas tenu compte des résultats susceptibles d'être obtenus si appel était fait à des interventions majeures comme notamment les engrais, les insecticides, la mécanisation.

L'examen de la liste étendue des sols et des unités cartographiques assignées à chacune des 12 classes de potentialité montre plutôt que des unités cartographiques similaires, qu'il est difficile de séparer des informations données, sont placées dans deux classes, et parfois dans plusieurs classes. Cette situation résulterait peut-être des opinions contradictoires dont il est question plus haut à propos de différents auteurs travaillant dans des secteurs différents sur des sols plutôt semblables. Les résultats, cependant, prêtent à confusion. Il devient alors difficile de se rendre compte de la raison qui fait que des unités cartographiques déterminées ont été assignées à des classes spécifiques. Souvent même, il ne s'avère pas possible, en fonction des renseignements donnés, d'introduire en toute confiance les unités cartographiques dans les 72 unités cartographiques utilisées dans la carte au 1:5.000.000 de l'IFAN/OUA.

Si, par exemple, les unités cartographiques utilisées dans le présent rapport sont simplement affectées, en fonction du sol dominant, à l'une des 10 catégories de sols du système français, alors on constate que (cf. Tableau 2):

(a) chacun des 12 groupes de potentialité des sols utilisés contient des sols appartenant à au moins 3 des 10 catégories et que deux groupes réunissent entre eux pas moins de 8 catégories de sols;

(b) chaque catégorie de sols (sauf les andosols qui ne sont pas présents) tombe dans un nombre considérable de groupes de potentialité, avec l'une de ces catégories, les sols ferrugineux

Tableau 2. CATEGORIES DE SOLS, SELON LE SYSTEME FRANCAIS, CONTENUES DANS LES 12 CLASSES DE POTENTIALITE AGROLOGIQUE DU RAPPORT DE LA FAO SUR L'ONCHOCERCOSE

Catégorie de sols (système français)	CLASSES DE POTENTIALITE DES SOLS												Total
	I	II	III	IVa	IVb	V	VI	VII	VIII	IX	X	XI	
1 Sols minéraux bruts	x		x	x			x		x	x			6
2 Sols peu évolués	x	x	x	x	x	x	x	x	x		x		10
3 Andosols													0
4 Vertisols				x			x	x	x	x		x	6
5 Bruns subarides		x		x			x	x	x				5
6 Sols bruns eutrophes				x		x	x	x	x	x	x	x	8
7 Sols ferrugineux	x	x	x	x	x	x	x	x	x	x	x	x	12
8 Sols feralli-tiques	x						x		x	x			4
9 Sols hydromorphes	x			x		x	x	x	x	x	x	x	9
10 Sols halomorphes	x		x	x	x								4

tropicaux, tombant dans chacune des 12 catégories de potentialité.

Les sols isohumiques subarides de la catégorie 5, et les sols bruns eutrophes de la catégorie 6, que l'on s'attendrait à posséder des potentialités relativement bien définies, sont répartis dans cinq classes (II à VIII) et huit classes (IVa à XI), respectivement. Ce qui peut-être surprend encore davantage c'est la variation dans la classification des sols de la catégorie 1, "sols minéraux bruts" et de ceux de la catégorie 2, "sols peu évolués", auxquels de nombreux auteurs n'accordent que de faibles valeurs. Les sols minéraux bruts apparaissent dans six classes, allant de I à IX, tandis que les sols peu évolués apparaissent dans pas moins de neuf classes, de I à X.

On pourrait se demander quel sol minéral brut serait placé dans une classe aussi élevée que la classe IX (alors que la classe XI représente celle la plus élevée). Il s'agit des sols minéraux bruts, d'origine non climatique,d'érosion; de *lithosols associés à des vertisols lithomorphes modaux* et à des *lithosols sur grès*. Cependant, selon les définitions des classes de potentialité, les sols de la classe IX, à laquelle les sols susvisés sont affectés, sont des sols généralement profonds donnant des rendements relativement satisfaisants pour les cultures traditionnelles; ce qui ne cadre pas avec la conception générale des lithosols. Ces sols correspondraient vraisemblablement à l'unité 1C de la carte 1:5.000.000 de l'OUA/IFAN, tandis que dans la classification du CIEH ils sont placés dans la Classe 5, sols sans valeur agricole.

Pareillement, on peut s'interroger sur le fait que des sols peu évolués aient été placés dans la Classe X (soit une classe au-dessous de la catégorie la plus élevée). Les sols en question correspondent à des sols peu évolués, d'apport, hydromorphes, sur alluvions sableuses à sablo-limoneuses. Ces sols correspondent à l'Unité 2C de la carte de l'OUA/IFAN. Si ces sols sont des sables, il est peu probable qu'ils méritent d'être placés dans une classe aussi élevée, bien que l'on puisse s'attendre à ce que les sables limoneux soient

un peu plus productifs. Cependant, si on considère les classes de potentialité assignées aux sols hydromorphes en général on constate que ces derniers sont assignés à pas moins de neuf des onze classes, depuis celle la plus faible (classe 1) à la plus élevée (classe XI). Cette variation reflète-t-elle les "opinions contradictoires" des différents auteurs? Il se peut que ces interprétations soient correctes, mais qu'elles le soient ou pas elles indiquent certainement qu'il faut davantage d'informations que ce qui figure sur une carte à petite échelle si on doit entreprendre l'évaluation de ces sols avec un certain degré de confiance.

Semblablement, dans le même compte rendu à propos de l'onchocercose, un éventail très étendu de potentialités est attribué aux sols ferrugineux de la catégorie 7 - en fait, ces sols apparaissent dans chaque classe de potentialité de I à XI, tandis que dans la classification du CIEH, utilisant cinq classes, la plupart de ces sols tombent dans les classes 3 ou 4.

En conséquence, il est difficile de comprendre ou de vérifier les renseignements contenus dans ledit rapport, renseignements paraissant souvent arbitraires. Néanmoins, ce document demeure digne d'attention ne serait-ce du fait qu'il constitue vraisemblablement la tentative de la classification de potentialité la plus détaillée, en termes du nombre de classes, jamais entreprise pour l'Afrique Occidentale. Le rapport semble illustrer une fois de plus les très grandes difficultés rencontrées lorsque l'on désire interprêter en termes de potentialité les unités taxonomiques de sols généralement cartographiées à des échelles moyennes ou à des échelles plus petites.

Les cinq feuilles cartographiques au 1:500.000 des ressources en sols de la Haute-Volta et le rapport narratif connexe (Boulet, 1976).

Cet important rapport ainsi que le jeu de cartes ont été reçus et examinés après que l'étude du reste des documents énumérés ci-dessus ait été achevée et après que la carte pédologique simplifiée mentionnée plus haut ait été tracée.

Le document en question comprend:

(a) Cinq feuilles cartographiques (Nord, Ouest-Nord, Ouest-Sud, Centre-Sud, Est-Sud) intitulées "Ressources en sols. Carte au 1:500.000 des unités agronomiques déduites de la carte pédologique".

(b) Un exposé narratif de 97 pages, par R. Boulet, intitulé "Notice des cartes de ressources en sols de la Haute-Volta".

Les cartes donnent une interprétation directe (ce qui est rare en Afrique Occidentale francophone) des cartes pédologiques publiées à la même échelle, et elles prennent en compte tant les sols que le climat dans la définition des unités agronomiques délimitées.

Climat

Quatre zones agro-climatiques ont été définies pour le pays. Ce sont par ordre croissant de la précipitation:

(a) La zone agro-climatique septentrionale (zone sahélienne). La précipitation est moins de 550 à 600 mm. La végétation se caractérise par des steppes à épineux sur les sols lourds et par la savane arbustive sur des sols plus légers.

(b) La zone agro-climatique de transition
La précipitation se situe entre 600 et 800 mm. La végétation comprend des savanes arborées claires sur des sols plus profonds et des arbustes sur ceux moins profonds. La zone souffre souvent de déficits d'eau. Les cultures entreprises dépendent partiellement de la texture du sol, le millet et les arachides étant produits sur des sols sableux, au moins à la surface, le manioc et le sorgho sur des sols imparfaitement drainés de texture légère à moyenne, et le coton et le sorgho sur les sols les plus lourds.

(c) La zone agro-climatique médiane.

C'est la plus étendue des quatre zones définies en Haute-Volta. La précipitation va de 800 à 1.200 mm. La végétation est typiquement représentée par la savane arborée. Tout un éventail de cultures adaptées y sont entreprises, relativement affectées par les insuffisances de pluies. Ces spéculations regroupent notamment les arachides, le coton, le sorgho, le maïs, le manioc et les ignames.

(d) La zone agro-climatique méridionale.

La précipitation se situe entre 1.200 et 1.500 mm et la végétation naturelle (bien modifiée actuellement par suite des longues périodes d'agriculture nomade) est composée de savane arborée passant progressivement à la savane arborée claire sur les sols plus profonds et sur ceux disposant d'un meilleur approvisionnement en eau.

Les unités agronomiques sont définies et cartographiées pour chacune des quatre zones agro-climatiques. Les limites de ces unités sont les mêmes que celles des unités cartographiques pédologiques de la carte des sols au 1:500.000 (à laquelle il est également fait référence dans le code), sauf que certaines des unités agronomiques regroupent deux unités cartographiques pédologiques ou davantage.

Les unités agronomiques de chacune des quatre zones agro-climatiques sont énumérées dans les légendes des cartes en fonction de (a) la profondeur, et (b) la texture.

La profondeur du sol dans les légendes est classée comme profonde (plus de 100 cm), moyenne (40 à 100 cm) ou peu profonde (moins de 40 cm). Quant à la texture du sol, elle prend en compte tant la texture du sol de

surface que celle de l'horizon B. Le coloriage, sur les cartes, des unités agronomiques avec sol profond ou moyennement profond reflète la texture, tout particulièrement celle de la couche arable, avec des couleurs marron pour les sols argileux, des couleurs orange pour les sols avec couche arable surjacente à des argiles, et des couleurs jaune pour les sols sableux, au moins dans la couche arable. Les couleurs bleu indiquent des sols mal drainés. Cependant, les sols peu profonds (moins de 40 cm) ne sont pas colorés sur la carte, de sorte que les endroits en blanc laissent à penser qu'il s'agit de secteurs avec faible valeur agricole.

Des tableaux fournissant des renseignements portant sur la fertilité du sol sont également donnés sur les feuilles cartographiques, tableaux qui indiquent le nombre d'unités cartographiques pédologiques de la carte pédologique originelle qui correspond aux unités agronomiques. Les tableaux en question renseignent, pour chaque unité agronomique, à propos des neuf facteurs ci-après affectant la fertilité.

P Profondeur réelle du sol - trois classes de profondeur, plus une quatrième classe pour les sols de profondeur variable.

T Texture des horizons A et B - trois classes, plus les affleurements rocheux.

D Drainage - cinq classes.

E Les relations hydrauliques, indiquant si l'alimentation en eau du sol est très insuffisante, insuffisante, satisfaisante, surabondante, en opposition ou inconnue.

CA Capacité d'échange fondée sur le total des bases échangeables (moins de 1 milliéquivalent par 100 grammes à plus de 20 milliéquivalents par 100 grammes) et sur le pourcentage de saturation.

CR Carences; n'est indiquée qu'une insuffisance en $P_2 O_5$, si toutefois elle existe.

CH Facteurs chimiques défavorables (sols avec alcali de sodium, présence de carbonate ou de sulfate de sodium).

MO Teneur en matière organique - trois classes (faible, moyenne, élevée).

PY Facteurs physiques défavorables (colmatage, contrastes marqués entre les textures, comme dans les planosols, présence d'abondants matériaux grossiers (concrétions de roches ferrugineuses ou de fragments rocheux), surtout haute susceptibilité à l'érosion).

Objectif des cartes

Les cartes établies ne prétendent pas assigner des valeurs de potentialité aux sols et conséquemment de les placer selon un ordre de mérite bien défini. Les fins visent plutôt à "traduire en termes agronomiques simples" les principaux éléments obtenus des cartes pédologiques au 1:500.000 établies en 1967-69. Cette "traduction" est destinée à donner une image concise des ressources en sols susceptibles d'être exploitées dans le pays, également à fournir des informations liées tant à l'aménagement de nouveaux secteurs qu'à l'amélioration de ceux déjà cultivés. Cependant, l'auteur souligne que cette traduction à partir de la carte pédologique ainsi que la nécessité de synthétiser les faits pédologiques en fonction de l'agronomie "ont entrainé la disparition d'une partie des informations par rapport aux cartes originelles". Comme indiqué plus haut, cette tâche complexe a été exécutée en délimitant les unités agronomiques (correspondant à une, deux, trois, ou davantages unités cartographiques originelles de sols) et en établissant des tableaux récapitulant, dans la mesure où ils sont connus, les plus importants facteurs affectant la productivité du sol. Quant à la division en quatre zones climatiques,

il a fallu l'adopter car il se peut que des sols possédant les mêmes propriétés agronomiques présentent des potentialités agricoles différentes, dépendant de la zone climatique dans laquelle ils se trouvent. Cependant, les sous-divisions climatiques ne suivent ni exactement ni constamment les isohyètes de la précipitation, bien qu'elles soient localement modifiées par les facteurs de sol et de végétation.

La carte des ressources en sols par rapport à la carte des potentialités au 1:5.000.000 du CIEH, (Carte 6-1, Volume 2 de ce rapport)

Le rapport Boulet (1976) ainsi que les cinq feuillets cartographiques représentent une importante et utile démarche dans l'interprétation de la carte pédologique, interprétation qui vise à aider ceux qui ne sont pas des experts en pédologie en appelant leur attention, au moyen de cartes, tableaux et textes, sur les propriétés des sols se rapportant directement à l'agriculture pratique, cela tout en mettant principalement l'accent sur la profondeur et la texture du sol.

Par rapport à la carte des potentialités des sols au 1:5.000.000 établie par le CIEH, on notera que:

(a) C'est là un exemple de carte à échelle moyenne (1:500.000) qui n'a pu être établie qu'en raison du fait que l'on disposait déjà d'une carte pédologique sûre à la même échelle. R. Boulet, qui a préparé les cartes des ressources en sols, a été également impliqué dans la préparation de la cartographie originelle des zones Centre-Nord et Est ainsi que du reste dans celle antérieure du "Rapport de synthèse", à l'échelle 1:2.000.000, dont il est fait mention ci-dessus. On notera que l'échelle au 1:500.000 représente, en termes linéaires, dix fois celle au 1:5.000.000 de la carte du CIEH, mais en termes de surface elle est 100 fois plus grande, de sorte que l'on obtient une centuple augmentation de la quantité d'espace disponible pour la représentation d'une surface terrestre et donc un accroissement au centuple dans la

somme de détails susceptibles d'être montrés.

(b) La carte des ressources en sols omet toute information pédologique ne présentant pas strictement un intérêt agronomique, pour se concentrer sur la texture, la profondeur et le drainage du sol, (ce qui est indiqué sur la carte elle-même), et pour renseigner, dans les tableaux, à propos d'autres propriétés comme la fertilité chimique générale du sol, son régime hydraulique, sa teneur en matière organique et toute caractéristique chimique ou physique préjudiciable. Par ailleurs, des notes supplémentaires sur la légende appellent l'attention sur les principales améliorations qu'il convient, pense-t-on, d'entreprendre. C'est ainsi, par exemple, que pour les sols sableux du secteur de Ouahigouya on a accordé la première priorité à la nécessité non seulement de cultiver les sols afin d'en accroître la porosité (et l'acceptation de l'eau) mais également d'utiliser des engrais, puis de considérer en seconde priorité d'augmenter les niveaux de matière organique.

(c) Comme dans le cas de l'étude de la FAO sur les sols nigérians examinée dans l'Annexe 6-4, on a envisagé le climat comme un facteur affectant la productivité du sol. Bien que la méthode utilisée ne soit pas paramétrique vu qu'aucune valeur numérique n'est suggérée ou donnée pour les neuf facteurs de productivité tabulés, il n'en demeure pas moins que, pareillement à l'étude susvisée de la FAO, on a pris systématiquement en compte les principaux facteurs considérés comme ayant une incidence sur la valeur agronomique des sols.

(d) Bien que l'auteur soit à même, à l'échelle utilisée, de présenter tout un volant d'informations, il n'en demeure

pas moins qu'en dehors du fait de suggérer une faible valeur pour certains sols en les laissant non colorés sur la carte, il ne s'occupe pas de placer les sols dans des classes de potentialité, donc d'opiner à propos de leur valeur. S'il est vrai que les classes de potentialité puissent faire l'objet de critiques du fait qu'elles correspondent forcément à des simplifications, elles obligent néanmoins les compilateurs à établir la valeur relative des sols. Les teintes colorées des sols, autres que celles associées aux sols peu profonds, mettent essentiellement l'accent sur la profondeur et la texture des sols, soit des propriétés qui, comme le souligne l'auteur, demeurent relativement permanentes et difficiles à modifier. Dans la zone climatique sahélienne de la Haute-Volta, dans l'extrême nord du pays, les sols ne se prêtant pas à la culture mais convenant toutefois comme parcours sont représentés en utilisant des pointillés colorés sur un fond blanc. Cependant, sur des cartes à échelles plus petites, y compris les cartes pédologiques au 1:5.000.000, on pourrait difficilement indiquer la profondeur et la texture des sols, vu que ce sont là des propriétés qui changent sur de courtes distances. En conséquence, bien que les renseignements fournis sur ces feuillets cartographiques au 1:500.000 soient de grande valeur pratique pour l'utilisateur, il convient cependant de reconnaître que cette valeur n'est pas la même que celle pour des informations qui pourraient être montrées sur un feuillet cartographique unique couvrant l'ensemble de l'Afrique Occidentale.

APPENDIX 6-3

There is a greater amount of soils information available for Upper Volta than for most Savanna countries. In the present investigation reference was made to the following:

(a) Soil maps and accompanying reports covering the whole of the country at a scale of 1:500,000 and published by ORSTOM*.

(b) A summary ("Rapport de synthèse") of the above work (Boulet et alia, 1969) which describes the main soils, and includes a soil map on the 1:2 million scale. It also includes, on the same scale, a map of "agricultural regions" which is almost a soil capability map.

(c) Maps at the 1:500,000 scale and accompanying report, based on the 1:500,000 soils maps (item (a), above) which indicates the soil resources of Upper Volta in terms of agronomic units (Boulet, 1976). The five maps show mainly soil depth and texture, with a division of Upper Volta into four climatic zones. The accompanying report ("Notice des cartes de ressources en sols de la Haute-Volta) gives more detailed information on the soils and their agronomic characteristics, but does not put them into capability classes.

(d) A coloured map showing "agricultural value of the soils", at a scale of 1:3 million, in the atlas which goes with the FAO 1973 onchocerciasis report ("Contrôle de l'onchocercose dans la région du bassin de la Volta"). This map divides the soils into six categories with agricultural values graded from nil to very good.

---

*(Boulet, 1968; Boulet and Leprun, 1969; Kaloga, 1969; Leprun and Moreau, 1968; Rieffel and Moreau, 1969.)

(e) A black and white map, at a scale of about 1:4 million, called "potentialité des sols", in the loose leaf volume of maps entitled "Cartographie des Pays du Sahel" (Ministère de la Coopération, 1976). This is a simplified soils map showing seven major soil groups: sols salés et sodiques (salinated and sodic soils); sols d'érosion et cuirasses (transported soils and bedrock); sols subarides (subarid soils); sols hydromorphes (hydromorphic soils); sols ferrugineux et ferralitiques (ferrugineous and ferralitic soils); argiles noires tropicales (tropical black clays); sols bruns tropicaux (tropical brown soils). Very brief notes on the agricultural value of each group are incorporated in the key but there is no attempt to put the soils into capability classes.

(f) Short notes issued by IRAT (undated) defining "cropping possibility units" in Upper Volta related to those geomorphological landscape units which are easily identified on air photographs.

Of the above, items (a), (b), (c) and (d) proved the most relevant to the present exercise and were studied in detail. Notes on items (b), (c) and (d) and on their relevance to the CIEH soil capability map are given in the following paragraphs. Figure 1 represents a section of the basic 1:500.000 ORSTOM soils map (item (a) above) showing the soils of the Ouahigouya area.

The "Rapport de synthèse" on the soils of Upper Volta, and the draft soil capability soil capability map drawn by CIEH based upon it.

The Rapport de Synthèse is a useful précis of the soil survey work carried out in the country until that time, written by soil surveyors who took part in the surveys and who, therefore, had a first hand knowledge of the soils of the country.

KEY

1. SOLS MINERAUX BRUTS D'EROSION
   LITHOSOLS

   OVER FERRUGINOUS CRUSTS

   OVER VARIOUS ROCKS

2. SOLS PEU EVOLUES D'EROSION
   SOLS REGIQUES

   GRAVELLY REGOSOLS ASSOCIATED WITH LITHOSOLS OVER FERRUGINOUS CRUSTS (IFAN UNIT 2C ASSOCIATED WITH 1D) (CIEH CAPABILITY 4 + 5)

7. SOLS FERRUGINEUX TROPICAUX

   SLIGHTLY DESATURATED, MODAL, OVER EOLIAN SANDS (IFAN UNIT 7B) (CIEH CAPABILITY 4)

   SLIGHTLY DESATURATED, ASSOCIATED WITH GRAVELLY SOILS (IFAN UNITS PROBABLY 7C AND E) (CIEH CAPABILITY 2 + 3)

   DESATURATED, CONCRETIONARY (IFAN UNIT 7E) (CIEH CAPABILITY 3)

9. SOLS HYDROMORPHES
   SOLS A TACHES ET CONCRETIONS

   WITH PSEUDOGLEY, ON LOAMY SAND COLLUVIUM AND ALLUVIUM (IFAN UNIT 9D) (CIEH CAPABILITY 1)

   WITH PSEUDOGLEY, ASSOCIATED WITH SHALLOW SANDY CLAY GRAVELLY FERRUGINOUS SOILS (IFAN UNITS 9D AND 7E) (CIEH CAPABILITY 1)

10. SOLS HALOMORPHES

    DEGRADED STRUCTURE, SOLONETZ, WITH COLUMNAR B HORIZON (IFAN UNIT 10C) (CIEH CAPABILITY 5)

1. RAW MINERAL SOILS
   LITHOSOLS

   (IFAN UNIT 1D) (CIEH CAPABILITY 5)

   (IFAN UNIT 1C) (CIEH CAPABILITY 5)

2. IMMATURE SOILS
   REGOSOLS

7. TROPICAL FERRUGINOUS SOILS

9. HYDROMORPHIC SOILS
   MOTTLED AND CONCRETIONARY

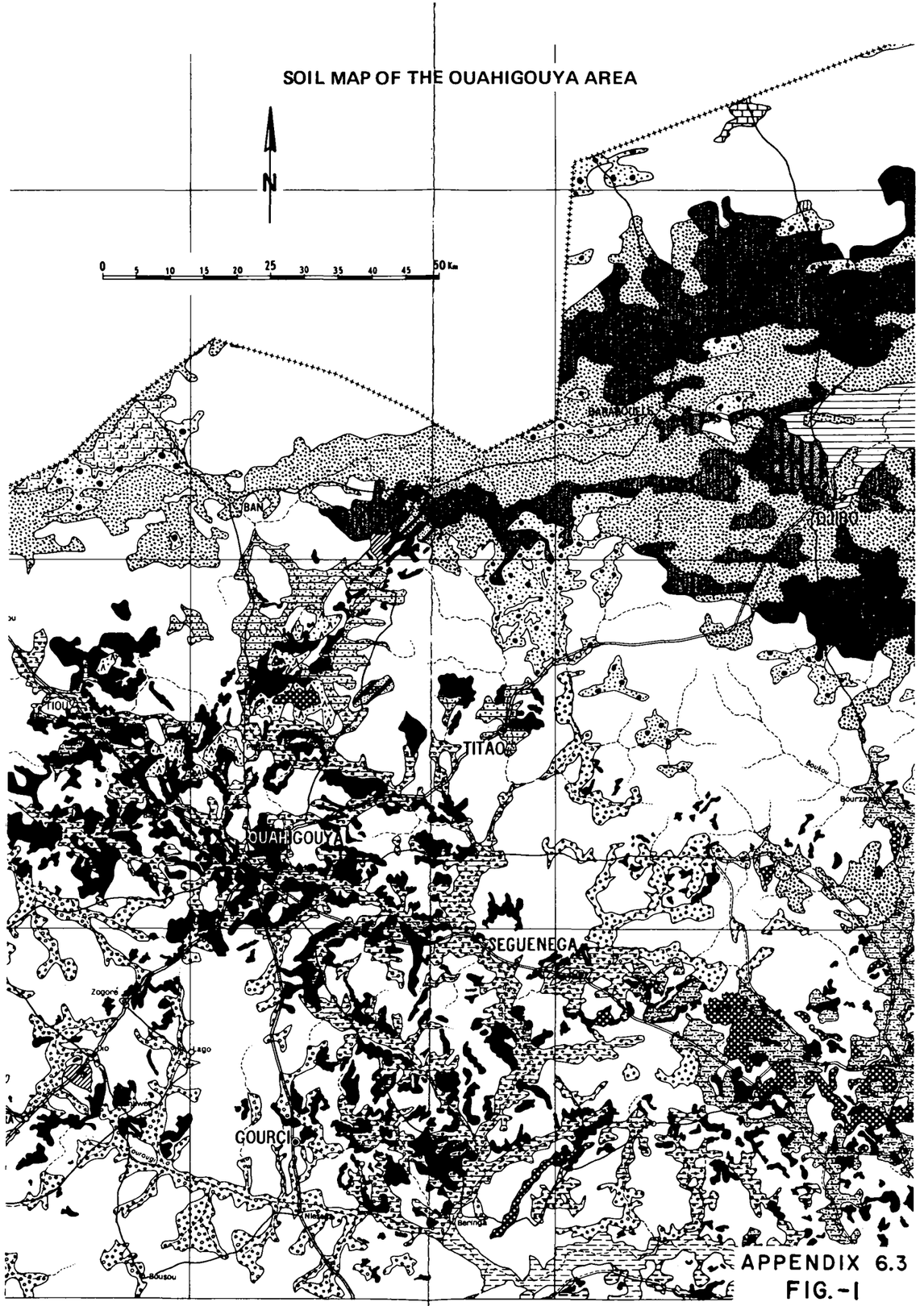
10. HALOMORPHIC SOILS

APPENDIX 6.2, MAP 1

KEY TO THE 1: 500,000 SOIL MAP OF THE OUAHIGOUYA AREA showing the main soils included in the section reproduced.

THE DARK PATCHES ARE ALL SHALLOW SOILS OVER FERRUGINOUS CRUSTS (CIEH CAPABILITY RATING 5) AND THE UNSHADED AREAS ARE THE SHALLOW VERY GRAVELLY SOILS OF THE "PARKING LOTS", WHICH ARE SUCH A STRIKING FEATURE OF THE AREA, ASSOCIATED WITH SHALLOW SOILS OVER FERRUGINOUS CRUSTS (CIEH CAPABILITY RATING 4 + 5). THE MAP ILLUSTRATES THAT THE SOIL PATTERN IS RELATIVELY COMPLEX, AND THAT ONLY THE BROAD FEATURES OF THE AREA SURVIVE REDUCTION TO THE 1: 5 MILLION SCALE. MOST OF THE AREA IS GRADED 4 OR 5 IN THE CIEH CLASSIFICATION OF CAPABILITY, BUT THERE ARE SMALL AREAS OF HYDROMORPHIC SOILS (CAPABILITY 1) WHICH ARE THE MOST PRODUCTIVE IN THE AREA.

SOIL MAP OF THE OUAHIGOUYA AREA



APPENDIX 6.3
FIG.-1

Instead of a soil map as such, the report gives four separate soil maps, each at a scale of 1:2 million, and each showing the distribution of one important group of soils or (in one case) two groups of soils. The soils thus shown on separate maps are:

1. Vertisols
2. Eutrophic brown soils
3. Little leached Tropical Ferruginous soils and Reddish-brown Subarid soils (shown together on one map)
4. Leached tropical Ferruginous soils

A fifth map on the same scale of 1:2 million gives "agricultural regions" but is in fact a simplified soils map with some indication in the legend on soil capability, but there is no supporting text to the map. This map shows:

(a) areas with a high proportion of heavy soils (Vertisols and Eutrophic Brown soils are here combined, though shown separately on the accompanying soil maps);

(b) areas where these heavy soils have been limited by lack of water or by a soils factor, such as a covering of sand, or salinity;

(c) areas with a high proportion of deep, medium textured, low cation exchange capacity of low current fertility (Ferruginous soils and non-inundated hydromorphic soils);

(d) areas of dominantly inundated soils, or soils which could be inundated (this group is very minor in extent);

(e) and (f) areas of mainly windblown sands, divided into those which can support only pasture and those, of less coarse texture, which are cultivable;

(g) areas of little or no agricultural value, and

(h) areas where (c) and (g) are in close juxtaposition, so that they have to be mapped together.

By far the most extensive of these are units (g) and (h). A useful transparent overlay is provided, which can be placed on the "agricultural regions" map to indicate the main areas affected by depopulation caused by onchocerciasis.

A draft soil map based on the above, but simplified so as to be suitable for reduction to the 1:5 million scale, was drawn up by CIEH as an exercise (Figure 2). The objects of this exercise included the following:

(a) to use the information given as direct source material for a soil capability map of Upper Volta, to be compared subsequently with soil capability maps of that country obtained by interpretation of the 1:5 million FAO and OAU/IFAN soil maps.

(b) to see to what extent reduction of the information from a scale of 1:2 million to 1:5 million resulted in a loss of information and detail.

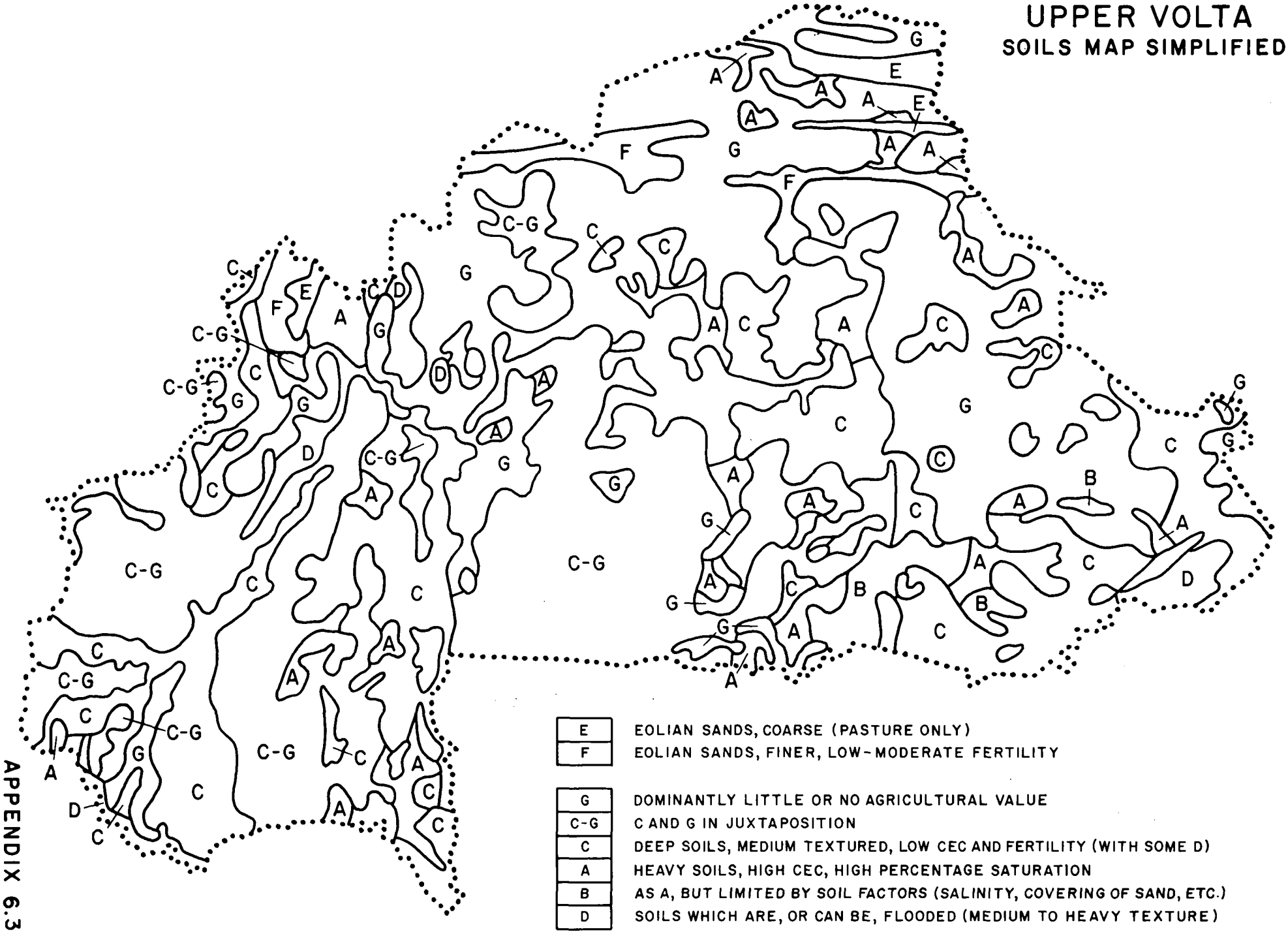
The method employed in drawing up the draft soil capability map was as follows:

(a) The areas of "little or no agricultural value" were separated from the other units and then a simplified outline was prepared from this suitable for reduction to the 1:5 million scale.

(b) In the same way a simplified outline, suitable for reduction, was prepared of those areas described as being units C and G in juxtaposition, i.e. areas where deep but generally poor soils (unit C) are closely mixed with soils of little or no agricultural value (unit G).

(c) Finally a simplified soil map was prepared in two stages: the simplified maps, prepared as described above, were amalgamated as a first stage, and then all the areas of the remaining

UPPER VOLTA
SOILS MAP SIMPLIFIED



E	EOLIAN SANDS, COARSE (PASTURE ONLY)
F	EOLIAN SANDS, FINER, LOW-MODERATE FERTILITY
G	DOMINANTLY LITTLE OR NO AGRICULTURAL VALUE
C-G	C AND G IN JUXTAPOSITION
C	DEEP SOILS, MEDIUM TEXTURED, LOW CEC AND FERTILITY (WITH SOME D)
A	HEAVY SOILS, HIGH CEC, HIGH PERCENTAGE SATURATION
B	AS A, BUT LIMITED BY SOIL FACTORS (SALINITY, COVERING OF SAND, ETC.)
D	SOILS WHICH ARE, OR CAN BE, FLOODED (MEDIUM TO HEAVY TEXTURE)

APPENDIX 6.3
FIG.-2

soil units large enough to be reduced to the 1:5 million scale were fitted in, with adjustments where necessary, as a second stage. The result of this exercise was a soils map based on the 1:2 million map simplified so as to allow it to be reduced to the scale of 1:5 million, and a comparison of this simplified map with the original enables an assessment to be made of the degree of loss of detail involved.

The final map suitable for reduction inevitably simplifies the original soil map. The loss of detail was found to affect, in particular:

(a) hydromorphic soils, which are widely distributed, but which rarely occur in individual unite large enough to be shown on the smaller scale maps, and

(b) scattered areas of vertisols and eutrophic brown soils which, though shown clearly on the 1:2 million map, are too small to survive reduction to 1:5 million.

The final map produced (attached) is, of course, still a soils map. To convert it from a soils map to a soil capability map it would be necessary to assign capability classes to the soil mapping units. This step would represent a further simplification, and loss of some information.

The 1:3 million "agricultural value of soils" map in the FAO report "Contrôle de l'Onchocercose dans la région du bassin de la Volta" (FAO, 1973).

This report puts Upper Volta soils into 12 capability groupings (see Table 1). An Appendix lists the individual mapping units included in each of these 12 capability groupings, and discusses the methods used. The authors point out that the classification is not, however, as exact as the large number of classes might suggest, and that there were sometimes contradictory differences of opinion among the authors consulted as to the value of the various soils they had mapped

Table 1. DEFINITIONS OF THE 12 SOIL CAPABILITY GROUPINGS INCLUDED IN THE FAO ONCHOCERCIASIS REPORT (FAO, 1973)

Capability Class	Agricultural value	Comments
I	Nil	Not used for agriculture.
II	Nil to poor	Occasionally used.
III	Poor to nil	Soils III to IVb are traditionally used
IVa	Poor	for subsistence crops but are of very low monetary value.
IVb	Poor to moderate	Classes IVb-VI are soils which are
V	Moderate to poor	relatively deep; yields are moderate
VI	Moderate	to good and necessary improvements
VII	Moderate to good	are moderate to large.
VIII	Good to moderate	Classes VIII to X have similar
IX	Good	aptitudes to the previous group but
X	Good to very good	give higher yields. Can also support some rice varieties.
XI	Very good	Class XI soils are for intensive use (market gardens, rice) and do not need major amendments.

and analysed. The basic material used in this compilation was on several scales, with some larger scale maps using different classification systems from smaller scale maps even in the same country. Agricultural value was conceived of in terms of existing production of crops using existing methods, and did not take into account what might be achieved if major inputs (fertilizers, insecticides, mechanization) were used.

An examination of the extensive list of soils and mapping units assigned to each of the 12 capability classes shows that rather similar mapping units, difficult to separate from the information given, are put into two or more classes, and sometimes into several classes. This may, perhaps, reflect the contradictory opinions referred to of various authors working in different areas on rather similar soils. The result, however, is confusing. It is difficult to see why mapping units have been assigned to particular classes. Often, the mapping units themselves cannot, on the information given, be fitted with confidence into the 72 mapping units used on the 1:5 million French IFAN/OAU map.

If, as an exercise, the mapping units used in this report are merely assigned to one of the 10 French soil orders to which the dominant soils belongs, then one finds (see Table 2):

(a) that each of the 12 soil capability groupings used contains soils of at least 3 of the 10 orders, and that two groupings have within them soils of not less than 8 orders;

(b) that each soil order (except the Andosols, which are not represented) falls into a considerable number of capability groupings, with one order, the Tropical Ferruginous soils, falling into every one of the 12 capability categories.

The Isohumic Subarid soils of order 5, and the Eutrophic Brown soils of order 6, which one might have expected to have relatively well defined capabilities, are spread over five classes (II to VIII) and eight classes (IVa to XI)

Table 2. FRENCH SOIL ORDERS REPRESENTED IN THE 12 FAO ONCHOCERCIASIS REPORT CAPABILITY GROUPINGS.

FRENCH SOIL ORDER	SOIL CAPABILITY GROUPINGS												
	I	II	III	IVa	IVb	V	VI	VII	VIII	IX	X	XI	Total
1 Sols minéraux bruts	x		x	x			x		x	x			6
2 Sols peu évolués	x	x	x	x	x	x	x	x	x		x		10
3 Andosols													0
4 Vertisols				x			x	x	x	x		x	6
5 Subarid Brown		x		x			x	x	x				5
6 Sols bruns eutrophes				x		x	x	x	x	x	x	x	8
7 Sols ferrugineux	x	x	x	x	x	x	x	x	x	x	x	x	12
8 Sols feralli-tiques	x						x		x	x			4
9 Sols hydromorphes	x			x		x	x	x	x	x	x	x	9
10 Sols halomorphes	x		x	x	x								4

respectively. What is, perhaps, even more surprising is the range of capability groupings assigned to soils of order 1, Raw Mineral Soils, and of order 2, Immature Soils, to which many authors assign only low ratings. The Raw Mineral Soils appear in six classes, ranging from I to IX. The Immature Soils appear in no less than nine classes, from I to X.

One might wonder what raw mineral soil could be placed in a class as high as IX (when XI is the highest class). The answer is given as non-climatic, erosional raw mineral soils: lithosols associated with lithomorphic vertisols and with lithosols over sandstones. According to the capability definitions, though, soils of class IX, to which these are assigned, are generally deep soils giving relatively good yields of traditional crops (see table). This does not fit in with the general conception of lithosols. These soils would presumably be unit 1C on the 1:5 million map, OAU/IFAN map, which, in the CIEH classification are put into class 5, soils without agricultural value.

In the same way, one might wonder what immature soil has been placed in class X (only one class below the very highest category). The soils in question are the immature depositional soils, hydromorphic, on sands to loamy sands. These would correspond to unit 2C on the OAU/IFAN map. If these soils are sands, it seems unlikely that they deserve such a high class, though the less light textured loamy sands can be expected to be somewhat more productive. However, if we look at the capability groupings given to the hydromorphic soils in general, we find that they are assigned to no less than nine of the eleven classes, ranging from the very lowest (class 1) to the very highest (class XI). Does this range reflect the "contradictory opinions" of various authors? These interpretations may possibly be correct, but correct or not they certainly suggest that we need much more information than is given on a small scale map if we are to assess these soils with any degree of confidence.

Similarly, the Ferruginous soils of order 7 are, in this onchocerciasis report, given a very wide range of capabilities - in fact, they appear in every

capability class from I to XI, whereas in the CIEH classification, using five classes, most of them appear in classes 3 or 4.

The information contained in this report is, therefore, difficult to understand or to check, often appearing arbitrary. It deserves attention nevertheless even if only because it is possibly the most detailed capability classification attempt, in terms of number of classes, yet to appear for West Africa. The report appears to illustrate once again the very great difficulties encountered when it is desired to interpret the taxonomic soil units generally mapped at the medium and smaller scales in terms of soil capability.

The five 1:500,000 map sheets of soil resources of Upper Volta and the accompanying explanatory report (Boulet, 1976).

This important report and set of maps was received and studied after the study of the remaining documents listed above had been completed, and after the simplified soil map, described above, had been drawn up.

The report consists of:

(a) Five map sheets (North, Northwest, Southwest, South-Central, Southeast) headed "Ressources en sols. Carte à 1:500,000 des unités agronomiques déduites de la carte pédologique" (Soil Resources. Map of agronomic units at 1:500,000 scale, based on the pedological map).

(b) An accompanying text, of 97 pages, by R. Boulet, entitled "Notice des cartes de ressources en sols de la Haute-Volta" (Report on Upper Volta Soils Resources Maps).

The maps represent a direct interpretation (such as is rare in francophone West Africa) of the soil maps published at the same scale, and takes account of both soils and climate in defining the "agronomic units" delineated.

Climate

Four agro-climatic zones are defined for the country. These, in order of increasing rainfall, are as follows:

(a) Northern agro-climatic zone (Sahelian zone).

Rainfall is less than 550 to 600 mm. Vegetation is spiny steppe on heavy soils and savanna with bushes on lighter soils.

(b) Transitional agro-climatic zone.

Rainfall is 600 - 800 mm. Vegetation is open savanna woodland on deeper soils but bush on shallower soils. The zone suffers from frequent water deficits. The crops grown depend partly on soil texture, with millet and groundnuts on soils which are sandy, at least at the surface, cassava and sorghum on imperfectly drained soils of light to medium texture, and cotton and sorghum on the heaviest soils.

(c) Median agro-climatic zone.

This is the most extensive, in Upper Volta, of the four zones defined. Rainfall is 800 - 1200 mm. Vegetation is typically wooded savanna. A range of adapted crops are grown, relatively affected by rainfall deficits. These crops include groundnuts, cotton, sorghum, maize, cassava and yams.

(d) Southern agro-climatic zone.

Rainfall is 1200 to 1500 mm and natural vegetation (now much modified by long periods of shifting cultivation) is wooded savanna grading into dry open savanna woodland on the deeper soils and those with the best water supply.

Agronomic units are defined and mapped for each of the four agro-climatic zones. The agronomic units have the same boundaries as the pedological mapping units of the 1:500,000 soils map (to which reference is also made in the key)

except that some of the agronomic units combine two or more of the pedological mapping units.

The agronomic units of each of the four agro-climatic zones are listed in the legends to the maps according to (a) depth and (b) texture.

Soil depth in the keys is classified as deep (over 100 cm), medium (40-100 cm) or shallow (less than 40 cm). Soil texture takes into account the texture of both the surface soil and of the B horizon. The colouring on the map of the deep and medium depth agronomic units reflects texture, particularly topsoil texture, with brown colours for clay soils, orange colours for soils with a loam topsoil over clay, and yellow colours for soils which are sandy, at least in the topsoil. Blue colours indicate poorly drained soils. However, the shallow soils (less than 40 cm) are not coloured on the map, so that blank areas suggest areas of low agricultural value.

Concise tables giving information affecting soil productivity are also given on the map sheets, which indicate the numbers of the pedological mapping units of the original pedological map which correspond to the agronomic units. These tables give, for each agronomic unit, information on the following nine factors affecting productivity:

P Effective soil depth - three depth classes plus a fourth class for soils of variable depth.

T Texture of the A and B horizons - three classes, plus rock outcrops.

D Drainage - five classes.

E Water relationships indicating whether the soil has a very deficient, deficient, good, over-abundant, contrasting or unknown water supply.

CA Exchange capacity based on the total exchangeable bases (five classes, from less than 1 m.e./100 g to over 20 m.e./100 g) and percentage saturation (five classes).

CR Deficiencies; only a deficit of P_2O_5, if present, is indicated.

CH Unfavourable chemical factors (sodium alkali soils, presence of sodium carbonate or sodium sulphate).

MO Organic matter content - three classes (low, average, high).

PY Unfavourable physical factors (sealing, abrupt A to B textural contrasts, as in Planosols, presence of abundant coarse material (ironstone concretions or rock fragments), particularly high susceptibility to erosion).

Aim of the maps

The maps produced do not attempt to give capability ratings to the soils and thus put them in a well-defined order of merit. Instead, the aim is merely to "translate into simple agronomic terms" the principal facts obtained from the 1:500,000 soils map prepared in 1967-69. This "translation" has the aim of providing a concise picture of the exploitable soil resources of the country, giving information relative to the development of new areas and to the improvement of those already cultivated. However, the author emphasizes that this translation from the pedological map, and the need to synthesize the pedological facts in relation to agronomy, "have resulted in some loss of information relative to the original maps". As indicated above, this complex task has been carried out by delineating agronomic units (corresponding to one, two, three or more of the original soil mapping units) and by providing tables summarizing, as far as they are known, the more important factors affecting soil productivity. The division into four climatic zones was made necessary because soils with the same agronomic properties might have different agricultural potentials depending on the climatic zone in which they occur. However,

the climatic subdivisions do not follow the rainfall isohyets exactly or consistently, but are locally modified by soil and vegetation factors.

The "soil resources" maps in relation to the CIEH 1:5 million soil capability map. (Map 6-1 Volume 2 of this report)

The Boulet (1976) report and five map sheets represent an important and useful exercise in soil map interpretation intended to help the non-soil scientist by drawing attention, in maps, tables and text, to the soil characteristics of direct relevance to practical agriculture, with particular emphasis on soil depth and texture.

In relation to the CIEH 1:5 million soil capability map, we may note that:

(a) These are examples of medium scale maps (1:500,000) which are made possible by the fact that a reliable soils map on the same scale was already available. R. Boulet, who prepared the soil resources maps, was
mapping of the Central, Northern and Eastern sections, and also with the earlier "Rapport de synthèse", at the 1:2 million scale, discussed above. A scale of 1:500,000 is, in linear terms, ten times the 1:5 million scale of the CIEH map, but in terms of areas it is 100 times as much, so that there is a 100-fold increase in the amount of space available for the representation of an area on the ground and a 100 fold increase in the amount of detail that can be shown.

(b) The soil resources map leaves out any pedological information not strictly of agronomic interest, concentrating on soil texture, depth and drainage, which are shown on the map itself, and giving an indication, in tables, of other properties such as the general chemical fertility of the soil, its water regime, organic matter content and any harmful

chemical or physical characteristics. Additional notes on the legend draw attention to the major improvements thought necessary. For the sandy soils of the Ouahigouya area, for example, the first priority is given as the need to cultivate the soil to increase its porosity (and water acceptance) and to use fertilizers, and second priority as the raising of organic matter levels.

(c) As in the case of the FAO study of Nigerian soils examined in Appendix 6-4, consideration has been given to climate as a factor affecting soil productivity. The method used is not parametric, since no numerical value is suggested or given for the nine productivity factors tabulated, but, as in the case of the FAO Nigerian study, there is some systematic consideration of the major factors held to affect the agronomic value of the soils.

(d) At the scale used the author is able to present a range of information on the soils, but apart from suggesting the low value of certain soils by leaving them uncoloured on the map he is not concerned with putting soils into capability classes and,therefore, with giving an opinion as to their value. Although capability classes may be criticized on the grounds that they are, of necessity, simplifications, they, nevertheless, force compilers to assess the relative value of soils. The colour shading of soils other than the shallow ones emphasizes primarily soil depth and texture, properties which, as pointed out by the author, are relatively permanent and difficult to modify. In the sahel climatic zone of Upper Volta, in the extreme north of the country, soils which are not suited to cultivation but which nevertheless are apt for pasture are also indicated, using coloured dot patterns on a white background.

On smaller scale maps, however, including soil maps at the 1:5 million scale, it would hardly be possible to indicate soil depth and texture, since these change over short distances. The information given on these 1:500,000 map sheets therefore, though of very great practical value to the user, is not such as could be shown on a single map sheet covering the whole of West Africa.

6 - 4 Etude du cas No. 2 : Nigeria (page 1)

Case study No. 2 : Nigeria (page 27)

ANNEXE 6-4

A l'occasion de la cartographie des sols entreprise dans le passé au Nigeria on a suivi dans une large mesure, tout particulièrement dans le nord du pays, le système de classification SPI de d'Hoore. Plus récemment, on a cependant essayé de classer les sols nigérians tant dans le système du "U.S. Seventh Approximation" que dans celui des unités cartographiques de la FAO.

Bien qu'un large éventail de publications sur les sols du Nigeria ait été consulté, on en a toutefois retenu deux au titre d'études représentatives, soit:

1. La partie intitulée "Ressources en sols du Nigeria" dans l'ouvrage "Développement agricole au Nigeria, 1965-1980", publié en 1966 par la FAO
2. Sombroek, W.G. et Zonneveld, I.S. 1971, "Champs d'anciennes dunes et dépôts fluviatiles dans le bassin versant du Rima-Sokoto (nord-ouest du Nigeria)". Institut des études pédologiques des Pays-Bas, Wageningen, précis no. 5 de l'étude des sols.

De ces deux références, la première a fait l'objet d'une étude affinée vu qu'elle constitue une tentative minutieusement entreprise en vue d'établir une évaluation quantitative et numérique des sols en fonction de paramètres sélectionnés dont chacun est défini et auquel une valeur numérique est attribuée. Ce travail de la FAO représente vraisemblablement l'étude la plus détaillée de cette nature jamais exécutée en Afrique Occidentale. En outre, elle indique ce que les auteurs ont considéré constituer les plus importants facteurs limitants pour les sols nigérians, qui avaient été classés et cartographiés selon le système d'Hoore.

Quant à la seconde publication, elle a été retenue car elle renseigne à propos des "sables de couverture" qui sont considérables dans les parties plus sèches de l'Afrique Occidentale (les arenosols de la classification FAO). Par ailleurs, elle contient une carte à l'échelle 1:500.000 susceptible d'être utilement comparée avec les cartes au 1:5.000.000 de la FAO et de l'IFAN. Cette comparaison, rappelons-le, sert à montrer la considérable quantité de détails importants, affectant souvent les potentialités des sols, qui se perdent dans des cartes à échelles plus petites.

Chapitre intitulé "Ressources en sols du Nigeria" dans l'ouvrage "Développement agricole au Nigeria, 1965-1980", (FAO, Rome, 1966)

Le chapitre en question contient une carte des sols au 1:5.000.000 indiquant l'actuelle productivité de ces derniers (c'est-à-dire une carte de la potentialité des sols). Les sols sont placés dans cinq classes, bien que les unités cartographiques soient en fait des combinaisons de classes. Le texte est digne d'attention, étant donné qu'il donne un exposé détaillé de la façon dont ces cinq classes ont été établies, en faisant appel à un système selon lequel sont multipliées entre elles les valeurs numériques des propriétés suivantes des sols considérées comme influençant les potentialités de ces derniers:

- P profondeur du sol
- T texture et structure
- N saturation en cations
- S salinité
- O matière organique
- A nature des minéraux argileux
- M réserves minérales
- D drainage
- H eau (précipitation, en prenant en compte "le nombre de mois pendant lesquels le sol reste déficient en eau pour la production des récoltes)

La productivité du sol se calcule donc selon PxTxNxSxOxAxMxDxH. Comme il s'agit ici d'une formule multiplicative, les facteurs les plus limitants (soit ceux avec les plus faibles valeurs numériques) l'emportent sur les autres. La même pondération n'est pas attribuée à tous les facteurs;pour certains de ces facteurs la valeur varie de 5 à 100, tandis que pour d'autres elle ne va que de 90 à 100. Ce qui signifie qu'il se peut que la valeur définitive soit réduite (dans le pire des cas) de jusqu'à 95% pour la première propriété, mais seulement de jusqu'à 10% pour la seconde.

La carte pédologique de base utilisée dans le présent rapport est la carte CCTA de d'Hoore, mise toutefois à jour à l'effet d'englober de plus récentes conclusions obtenues dans certains secteurs.

Sept sols principaux ont été cartographiés au Nigeria. Ces sols sont identifiés ci-dessous avec, pour chacun, un sommaire de leurs caractéristiques:

i. Les ferralsols dont la teneur en matières nutritives est souvent faible, mais qui possèdent des propriétés physiques stables, favorables et sont résistants à l'érosion. Ces sols, qui répondent bien aux engrais, se trouvent situés en grande partie dans la zone de forêt ("zone du palmier à huile et du caoutchoutier"), mais certains - phase de la savane - s'étendent le long des fleuves Niger et Bénoué.

ii. Les sols ferrugineux tropicaux généralement caractérisés, au Nigeria, par un horizon A surjacent à un horizon B avec davantage d'argile et une faible structure cuboïde subangulaire qui est souvent concrétionnée et/ou tachetée. Le CEC est faible, mais le pH et la saturation en cations sont assez élevés, reflétant ainsi les précipitations davantage modérées dans les zones de savane. L'horizon A légèrement structuré possède une faible capacité de rétention d'eau, et

ces sols sont bien davantage sensibles à l'érosion que les ferralsols (bien que leurs pentes soient en règle générale modérées). Ils sont dans une large mesure utilisés pour le millet (secteurs nord de la savane) et pour le sorgho (secteurs sud de la savane).

iii. Les sols alluviaux dont les horizons sont relativement peu développés ou peu différenciés. Ces sols sont formés dans des dépôts fluviaux, lacustres et marins relativement récents. L'humidité (mauvais drainage) conduit souvent à des marbrures du sous-sol et à une tendance à davantage de matière organique que les sols associés des terres hautes. La valeur de ces sols dépend de leur texture. Dans certains cas, cette valeur est réduite par la salinité. Les sols en question sont utilisés pour le riz, ou, lorsqu'ils sont convenablement drainés, par tout un assortiment de cultures vivrières. Ils sont généralement assez plats et conviennent donc pour l'irrigation, bien qu'ils puissent nécessiter un drainage afin d'abaisser la nappe aquifère. Ces sols se trouvent en majorité dans la zone de forêt (delta et parties basses du Niger), quoique de petits secteurs avec ces sols soient largement répandus dans la savane.

iv. Les sols bruns et bruns rougeâtres semi-arides qui sont en règle générale faiblement calcaires et se sont développés surtout à partir de sédiments sableux. Ces sols se manifestent dans la partie semi-aride du nord du pays et servent principalement comme terrains de parcours et pour le millet, avec des arachides cultivées localement.

v. Les vertisols qui se caractérisent par une texture lourde, de mauvaises propriétés physiques, une médiocre ouvrabilité, et par le fait qu'ils se fissurent profondément et

en largeur au séchage. Le CEC est élevé et la situation des matières nutritives généralement bonne, mais la mise en oeuvre de ces sols nécessite tant un matériel moderne pour les façons culturales que le recours à l'irrigation. Ces sols se présentent généralement dans des dépressions qui se sont développées à partir d'anciens dépôts lacustres.

vi. Les lithosols sont généralement des sols peu profonds d'ordinaire surjacents à un alios (couche ferrugineuse). En raison de leur faible profondeur ces sols ont peu de valeur agricole.

vii. Les sols salins et hydromorphes s'entendent essentiellement des sols autour du lac Tchad qui exigent d'être amendés et irrigués avant de pouvoir devenir productifs.

Le rapport contient deux cartes. L'une de ces cartes montre l'actuelle productivité des sols et représente une interprétation basée sur la fertilité naturelle et les méthodes traditionnelles. Elle est cependant décrite par les auteurs comme étant une "approximation grossière" vu qu'elle ne peut pas être plus précise que la carte de base de laquelle elle dérive". Quant à l'autre carte, c'est une carte des potentialités du sol qui est réputée être fondée sur les "résultats prévus par suite d'emploi de pratiques adéquates de mise en valeur du sol et qui reflète l'amélioration qui serait obtenue par l'introduction de la technologie moderne".

Attribution d'une valeur numérique aux paramètres du sol

Aux huit facteurs de sol et au facteur climatique (le nombre de mois pluvieux) sont assignées séparément des valeurs numériques, et la valeur du sol s'obtient en multipliant entre elles ces valeurs numériques, comme indiqué plus haut.

Ci-après sont données des informations supplémentaires à propos de ces évaluations individuelles:

H - eau

Variation: 5 à 100

Dépendant du nombre de mois pendant lesquels un sol reste sec, et donc reflète le climat (tel que montré par les cartes de la précipitation) plutôt que le sol lui-même.

Par exemple, H_4 (évaluation de 80 à 100) indique que le sol se trouve en-dessous du point de flétrissement pendant 3 à 5 mois, et H_3 (évaluation entre 50 et 70) pendant 6 à 8 mois. Les évaluations pour les cultures annuelles diffèrent légèrement de celles pour les espèces arboricoles.

Ces évaluations ouvrent cependant la porte à une certaine discussion. C'est ainsi qu'à un secteur avec six mois de pluie et six mois de sécheresse serait assignée une évaluation de 50, mais il se pourrait qu'un tel climat se prête parfaitement bien à un large éventail de cultures comportant un cycle végétatif de six mois au maximum.

D - drainage

Variation: 10 - 100 (cultures annuelles), 5 à 100 (cultures arboricoles)

L'évaluation maximale (100) s'applique aux sols convenablement drainés, avec une nappe aquifère profonde, ne comportant aucun horizon hydromorphe dans les 120 centimètres et aucune teneur excessive en eau rendant ces sols incultivables. Les évaluations les plus faibles (5 à 40) s'appliquent à des sols rendus non cultivables pendant au moins deux mois par suite d'un excès d'eau.

Un horizon hydromorphe à 60-120 cm (classe D3a) justifierait que le sol concerné soit évalué à 80-90, c'est-à-dire en appliquant une réduction allant jusqu'à 20%. Il apparait toutefois que dans certains cas l'eau à cette profondeur peut représenter un avantage si le sol reste humide plus longtemps qu'un autre sol bien drainé. Il semble donc qu'il se produit un certain chevauchement entre H, eau, et D, drainage.

P - profondeur réelle du sol

Variation: 5 à 100

Les sols pour les cultures vivrières bénéficient de l'évaluation 100 lorsque la profondeur desdits sols atteint 90 cm, et pour les sols de cultures arboricoles lorsque cette profondeur dépasse 120 cm. Les sols pour cultures vivrières, avec profondeur moindre que 30 cm, obtiennent une évaluation de 20.

En multipliant P par H on obtient une certaine idée de la quantité approximative d'eau retenue pendant l'année, mais ce résultat est modifié par T, texture (voir le prochain paragraphe), bien que T ne réfère en réalité qu'à l'horizon A.

T - texture et structure de l'horizon A

Variation: 10 à 100

L'évaluation maximale (100) est accordée aux sols avec "texture moyenne, équilibrée: limon, limon sableux et limon argilo-sableux".

Un sol légèrement texturé (défini comme "sable fin, sable limoneux ou sable et limon grossiers") est classé en tant que T4 et est évalué entre 40 et 50 s'il est de "structure stable" et entre 30 et 40 dans le cas de "structure instable".

Un sol fortement structuré ("à argile ou argile limoneuse"), se prêtant aux cultures vivrières, s'évalue entre 60 et 70 si la structure va de massive à prismatique, mais à 80 si la structure s'étend d'angulaire à grumeleuse, ou si elle est massive mais très poreuse.

Dans les deux cas précités, une évaluation plutôt faible est appliquée aux cultures arboricoles. La raison de cette situation n'apparait pas clairement, surtout compte tenu du fait que l'évaluation s'effectue en fonction uniquement de la texture de l'horizon A. Dans de nombreux sols de l'Afrique Occidentale l'horizon A repose souvent sur un horizon B contenant davantage d'argile.

Il semble qu'il existe une trop grande différence entre l'évaluation de seulement 40% pour un horizon A avec texture légère et structure stable, et l'évaluation de 100% pour une couche superficielle de limon.

N - saturation en cations

Variation: 40 à 100

L'évaluation maximale (100) s'applique à un sol saturé à plus de 75%, bien qu'un sol saturé en calcium (Ca) soit évalué à 80. Le taux décroît avec l'augmentation du lessivage pour atteindre 40 lorsque la saturation se situe au-dessous de 15%.

Il existe généralement une relation assez étroite entre le pourcentage de saturation et le pH. Etant donné que ce dernier est mesuré à bien moins de frais et bien plus facilement que le pourcentage de saturation, peut-être qu'il aurait été préférable d'exprimer ce paramètre en pH plutôt qu'en V (=S/T, ou TEB/CEC).

S - teneur en sels solubles

Variation: 5 à 100

L'évaluation maximale (100) s'applique aux sols avec moins de 0,2% de sels solubles totaux. L'évaluation se situe entre 5 et 15 si les sels solubles excèdent 1,0%, si le carbonate de soude est présent ou dépasse 0,6% du total des sels solubles y compris le carbonate de soude.

L'évaluation est modifiée par la texture, avec des taux plus faibles pour les sols plus légers et des taux plus élevés pour des sols à texture lourde et moyenne.

O - matière organique de l'horizon A_1

Variation: 70 à 100

L'évaluation maximale (100) s'applique aux sols dont la teneur en matière organique excède 5%. Les évaluations minimum (70 à 85) sont réservées aux sols contenant moins de 1% de matière organique. Les chiffres sont légèrement modifiés par les considérations se rapportant à H (eau) et D (profondeur). Une relation C/N dépassant 25 jointe à une teneur élevée en matière organique réduit l'évaluation à 70.

La réduction maximale susceptible d'être occasionnée à l'évaluation en raison d'une forte teneur en matière organique n'est que de 30%, de sorte que les auteurs considèrent qu'une faible teneur en matière organique constitue conséquemment un facteur limitant moindre que les divers autres paramètres envisagés

(y compris la structure et la texture de la couche arable).

A - capacité et nature de l'échange minéral de l'argile

Variation: 90 à 100

A ce paramètre est attribuée la plus faible variation de tous les paramètres, et on considère donc qu'il est le moins capable de réduire la productivité.

Un CEC de moins de 20 milliéquivalents par 100g de sol s'évalue à 90, tandis qu'un CEC dépassant 40 milliéquivalents s'évalue à 100.

Malgré la faible différence entre les évaluations on peut néanmoins se demander si le CEC plus élevé constitue nécessairement un avantage. Bien qu'il existe alors une plus grande capacité de rétention des cations et du NH_4, une plus grande quantité d'un cation déterminé, comme le K^+, se trouve à la disposition de la plante lorsque le CEC est faible par comparaison aux cas où il se situe à un niveau plus élevé.

M - réserves des minéraux altérables dans l'horizon B

Variation: 85 à 100

Un sol avec aucune ou de très faibles réserves minérales est évalué à 85, alors qu'un sol possédant de grandes réserves minérales venant de roches basiques ou calcaires est évalué à 100.

La variation indiquée semble être plutôt étroite. Les minéraux susceptibles d'altération représentent la fertilité en réserve et ils influencent le "pouvoir stabilisant" d'un sol, surtout si sa teneur en matière organique est faible ou a disparu. Les sols sur roches basiques avec réserves de minéraux tels que l'hornblende ou la biotite se rangent, si les autres paramètres sont assez favorables, parmi les plus productifs naturellement en Afrique Occidentale.

Commentaires sur les valeurs assignées aux paramètres du sol

La logique voudrait, semble-t-il, qu'au fur et à mesure de l'accroissement de la connaissance des sols de l'Afrique Occidentale, des systèmes numériques d'évaluation (comme celui exposé ici) devraient remplacer ceux

davantage subjectifs actuellement utilisés sur une plus grande échelle. Dans la pratique, cependant, il se pourrait que l'exactitude et la supériorité des systèmes numériques, compte tenu de l'état actuel de la connaissance, se révèlent davantage apparentes que réelles. Cette restriction résulte simplement du fait de l'insuffisance de la connaissance s'agissant de la corrélation entre les valeurs des paramètres individuels (comme la saturation en cations) et les rendements réels des récoltes. En effet, la productivité du sol subit l'influence de tant de facteurs interdépendants qu'il s'avère présomptueux d'assigner à chacun de ces facteurs une évaluation numérique, vu qu'il existe peu de travaux précis en plein champ sur lesquels ces évaluations pourraient être fondées. En conséquence, les évaluations représentent autant une "estimation réfléchie" que peut-être les évaluations de potentialité affectées au sol en fonction de l'expérience personnelle davantage subjective acquise à pied d'oeuvre.

La publication qui a fait l'objet de l'examen constitue certainement une audacieuse et prudente tentative visant à placer l'évaluation des potentialités sur une base saine et objective, mais plusieurs des valeurs ainsi assignées paraissent être contestables et non prouvées. Les très larges différences d'évaluation liées aux différences plutôt mineures dans la texture de la couche superficielle se justifient-elles? Faudrait-il assigner une plus forte évaluation à la présence ou à l'absence de minéraux altérables, ou encore au taux de matière organique, que ce qui est pris en compte ici? Devrait-on considérer également d'autres paramètres tels que la texture et la structure du sous-sol? Un sol avec 12 mois humides produit-il nécessairement deux fois plus qu'un sol avec seulement six mois de pluie? Il se pourrait que se manifeste un considérable désaccord entre différents chercheurs à propos de l'applicabilité des évaluations utilisées. C'est ainsi que dans un système dans lequel les évaluations individuelles sont multipliées entre elles, une évaluation assignée à l'un quelconque des neuf paramètres risque de grandement affecter l'ensemble du résultat - par exemple, une légère différence dans la texture de la couche arable peut réduire jusqu'à 60% l'évaluation totale d'un sol.

Unités d'aptitude

L'évaluation du sol idéal est de 100. Le rapport fait usage du concept de "l'unité d'aptitude" qui équivaut à un hectare de ce sol idéal avec une évaluation de 100. S'agissant du Nigeria, les auteurs ont trouvé que les sols avec aptitude au-dessous de 0,2 (c'est-à-dire avec une évaluation moindre que 20) ne conviennent pas généralement à l'agriculture (cultures vivrières) alors que l'évaluation des meilleurs sols se place au-dessus de 0,64.

Carte de l'actuelle productivité

Des valeurs approximatives d'aptitude ont été calculées pour 54 unités de sols de la carte pédologique de base (en fonction de la carte CCTA mais mise à jour). Les sols ont été divisés en cinq classes selon les évaluations de leurs potentialités. Aucun sol de première classe n'a été identifié (aptitude plus élevée que 0,64). La proportion, au Nigeria, de l'ensemble des sols des quatre autres classes se présente comme ci-après:

Seconde classe	5,5%
Troisième classe	31,7%
Quatrième classe	46,5%
Cinquième classe	16,3%

Les classes quatre et cinq (totalisant 62,8%) ont été considérées comme ayant une valeur discutable pour l'agriculture, ce qui donc laisse un total de 37,2% de terres (dans les classes 2 et 3) pour l'exploitation agricole.

On rappelera que dans les classes d'aptitude données dans les investigations du CIEH le facteur climatique n'est pas pris en compte dans l'évaluation des sols, de sorte que cette évaluation du CIEH reflète des potentialités intrinsèques du sol sans considérer la précipitation. Par contre, dans l'étude nigériane, un régime de six mois humides et de six mois de sécheresse donne

une évaluation de 70, de sorte qu'aucun sol dans cette zone climatique, même s'il répond à l'idéal à tous les autres points de vues (et donc obtenant 100 pour chacun des autres paramètres), ne peut atteindre une évaluation plus élevée que 70. De plus, dans un secteur avec quatre mois pluvieux aucun sol, même s'il possède par ailleurs toutes les caractéristiques de l'idéal, ne peut bénéficier d'une évaluation supérieure à 50. On pourrait avancer que pour des cultures à court cycle végétatif adaptées au régime pluvial local, l'eau ne constituerait pas un facteur limitant. En conséquence, il serait instructif d'établir une variante de carte des 54 unités de sols tout en ne considérant pas le facteur H qui se rapporte essentiellement à la précipitation. La carte en question servirait à indiquer dans une certaine mesure la potentialité d'irrigation, étant donné que c'est l'évaluation atteinte si les limitations d'eau sont éliminées.

Carte des potentialités du sol

Dans la relation utilisée pour établir l'ensemble des évaluations des aptitudes des sols, les auteurs ont considéré que certaines limitations restaient relativement constantes (c'est-à-dire difficiles à modifier) tandis que d'autres pouvaient être améliorées. Dans la première catégorie de ces limitations se rangent: P (profondeur du sol), T (texture et structure de la couche arable), A (capacité d'échange des cations), M (réserves minérales), et les facteurs d'ouvrabilité et d'érodabilité. D'autres facteurs peuvent être modifiés par l'homme au moyen d'interventions comme le drainage des sols, l'emploi des engrais et de la chaux, la récupération des sols salins, l'accroissement de la teneur en matière organique, et, bien entendu, l'irrigation.

Dans la pratique, on peut être amené à formuler des réserves quant à la praticabilité d'augmenter sensiblement la teneur en matière organique, ou à propos des avantages du chaulage, mais compte tenu desdites réserves, il apparaît intéressant de recalculer l'ensemble des évaluations des aptitudes en ayant recours à la formule modifiée suivante:

pl (potentiel futur) = N1 x S1 x O1 x D1 x Pc x Tc x Ac x Mc

dans laquelle le suffixe 1 indique une propriété corrigée du sol et le suffixe c une propriété constante du sol non susceptible de modification.

Lorsque ces nouveaux calculs sont appliqués aux 54 unités de sols, alors toute la courbe de distribution des classes 1 à 5 des sols se déplace vers la droite comme indiqué ci-après:

	Potentialité		
	Actuelle	Future	
Classe 1	Néant	3,4	cultivable
Classe 2	5,5	45,5	
Classe 3	31,7	30,3	
Classe 4	46,5	9,7	impropre à la culture
Classe 5	16,3	11,0	

Il résulte de ce déplacement que 79, 2% des terres deviennent cultivables au lieu de 37,2% comme à présent. Le seul facteur essentiel responsable de ce changement demeure le facteur eau, mais on part ici du postulat essentiel selon lequel l'approvisionnement en eau est assuré. Pareillement, les nouvelles évaluations pourraient être considérées comme indiquant les valeurs relatives des sols après les améliorations, mais sans tenir compte du facteur humidité.

Pour chacune des 54 unités de sols, on a calculé un coefficient d'aménagement C en utilisant $\frac{P1}{P}$.

Etant donné que pour l'ensemble du Nigeria l'unité d'aptitude moyenne est considérée égale à 17,7 et que la potentialité moyenne est de 45, en conséquence C pour tout le pays correspond à $\frac{45}{17,7}$ ou 2,55. Ce qui signifie qu'avec l'irrigation et d'autres améliorations, on pourrait obtenir une productivité 2 fois et demie plus grande que celle du moment. Il est évident que personne ne saurait envisager sérieusement d'irriguer tout le pays. A la page 12 du chapitre 1

du rapport, on souligne que "d'importants investissements dans l'irrigation seraient difficilement faisables, ou tout au moins pas sages, pendant un assez grand nombre d'années". Cependant, cette approche représente une tentative raisonnée visant à prévoir un plafond. Les stations de recherche comme l'IITA ont certainement obtenu des rendements dépassant de plus de 2 fois et demie les moyennes locales, mais la question de savoir si ces accroissements de rendement sont économiques dépend des prix de vente. On retiendra à ce propos qu'à l'occasion des essais de fertilisation entrepris par la FAO on a enregistré de nombreux cas où les augmentations de rendement ne se sont pas avérés économiques.

Par ailleurs, le rapport établit également une comparaison entre les évaluations calculées pour les unités d'aptitude et l'actuelle population.

Envergure des superficies peu utilisées au Nigeria

La plus grande partie de l'actuelle production agricole vient des centres de population où la pression exercée sur la terre a considérablement réduit les mises en jachère. Par contre, la région centrale (faisant politiquement partie de la région nord) n'apporte dans ce domaine qu'une faible contribution. L'une des principales conclusions du rapport est que cette région centrale devrait être développée. Les auteurs du document avancent que "l'ensemble de cette région bénéficie d'une précipitation modérément bonne, notamment supérieure à celle des secteurs intensivement exploités du point de vue agricole plus loin dans le nord", et ils soulignent que les cartes pédologiques montrent de vastes superficies de bonnes, ou de potentiellement bonnes, terres. Il se pourrait que les auteurs susvisés fassent montre d'un excès d'optimisme au sujet de la précipitation, vu que la distribution et la sûreté risquent de ne pas se comparer aussi bien avec celles vers le nord, mais ils reconnaissent que le "principal obstacle à la mise en valeur de la région centrale demeure la présence de la mouche tsé-tsé", et ils insistent pour que celle-ci soit éliminée,puis que soit immédiatement entreprise l'exécution d'un programme de développement agricole.

Evaluations des potentialités actuelles des unités de sols cartographiées

Comme indiqué plus haut, les unités de sols sont regroupées selon cinq classes de potentialité dans lesquelles les classes 4 et 5 prédominent et la classe 1 est absente, étant par ailleurs entendu que de vastes superficies sont cartographiées au titre d'une combinaison de deux classes de potentialité ou davantage. Par exemple, les aires dans le secteur de Kano-Kaduna sont représentées sur la carte pédologique en tant que Bc Ja Jc (lithosols sur cuirasses ferrugineuses, et sols ferrugineux tropicaux sur matériau sableux et sur roches acides crystallines), aires auxquelles ont été assignées une évaluation de potentialité de 5-4-3. (Cf. Figure 1.)

Les aperçus sur les unités cartographiques ainsi que l'évaluation suivante de leur potentialité indiquent non seulement la façon selon laquelle on est parvenu à établir les évaluations mais précisent également, pour chaque sol, les facteurs limitants que les auteurs du rapport considèrent les plus importants.(1)

Ab Lithosols sur cuirasses ferrugineuses

Classe 5

Principaux facteurs limitants: P1 = profondeur du sol = 5
T1c = caillouteux/rocheux = 60
N3 = modérément lessivés = 60

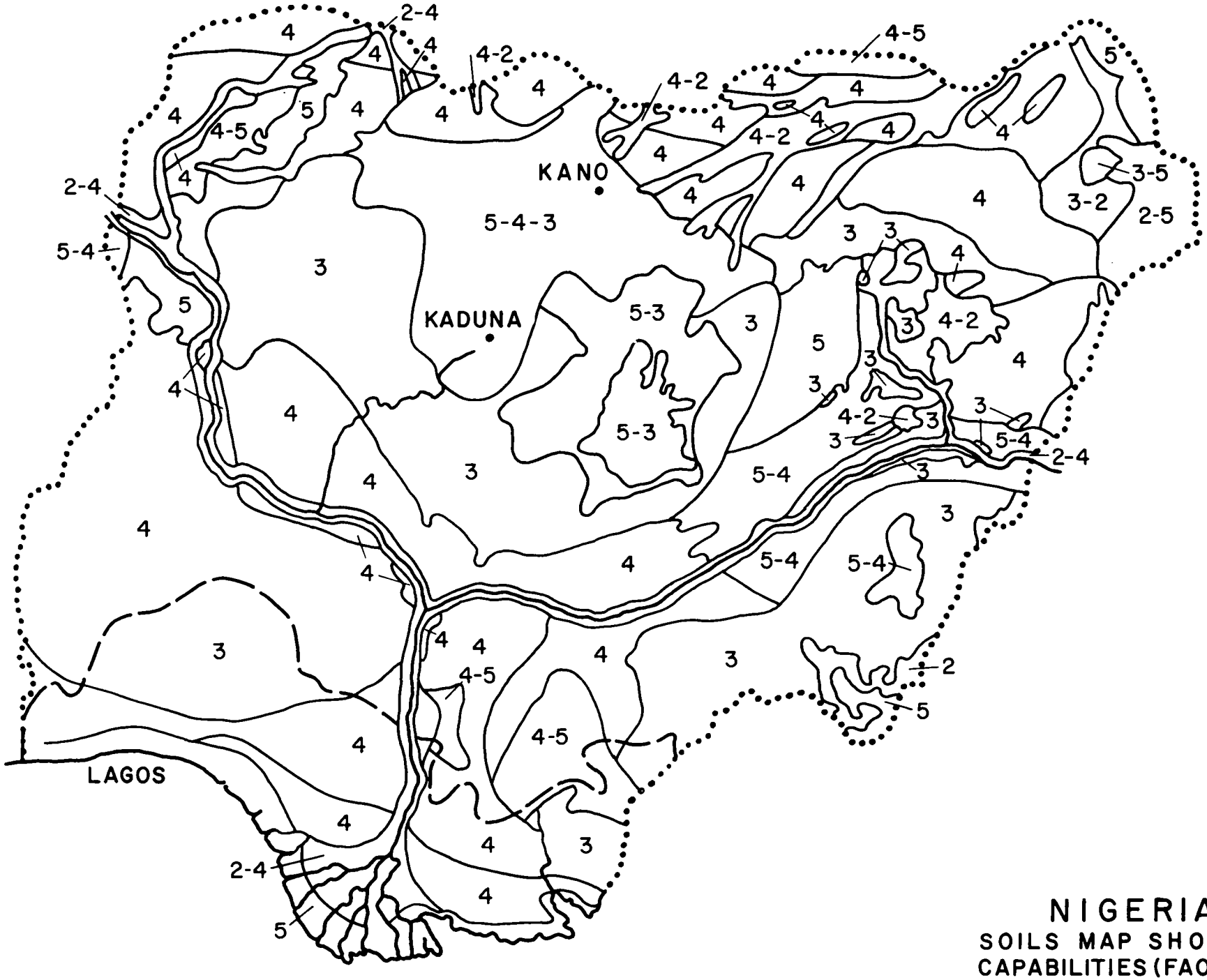
Bc Lithosols sur cuirasses ferrugineuses

Classe 5

Principaux facteurs limitants: Même que ci-dessus, sauf que
T1b = caillouteux,
rocheux, graveleux = 30

---

(1) Dans l'énumération des principaux facteurs limitants, les facteurs H, reflétant surtout le nombre de mois secs, ont été omis.



APPENDIX 6.4
FIG. - I

NIGERIA
SOILS MAP SHOWING
CAPABILITIES (FAO 1966)

Bd Lithosols - non différenciés

Classe 5

Principaux facteurs limitants: P2 = profondeur du sol = 20
T1a/b = caillouteux, pierreux, graveleux = 10/30
N2 = fortement lessivés = 50

Bh Régosols sur sédiments lâches

Classe 4

Principaux facteurs limitants: T4b = légèrement texturés, stables = 50
N3 = modérément lessivés = 60

Bo Sols alluviaux

Classe 2

Principaux facteurs limitants: T6a = structure massive à prismatique = 80
N4 = peu lessivés = 80

Dj Vertisols - non différenciés

Classe 5

Principaux facteurs limitants: T5a = structure massive à prismatique = 60
N6 = calcaires = 80
O1 = moins de 1% de O M = 85

Da Vertisols sur roches riches en minéraux ferromagnésiens

Classe 4

Principaux facteurs limitants: P3 = sol de 30 à 60 cm d'épaisseur = 50
T1c = argile avec 20 à 40% de pierres = 60

Db Vertisols sur roches calcaires

Classe 3

Principaux facteurs limitants: D2 = hydromorphes à 30-60 cm/incultivables par suite de la teneur excessive en eau = 40-80
T5a = structure de la couche arable, massive à prismatique = 60

Gb Sols bruns et bruns rougeâtres semi-arides - non différenciés

Classe 4

Principaux facteurs limitants: T4a = structure instable = 40
M2a = peu de minéraux altérables, issus des sables = 85

Ga Sols bruns semi-arides sur sédiments lâches

Classe 4

Principaux facteurs limitants: T4a = structure instable = 40

M2a = peu de minéraux altérables, issus des sables = 85

Hb Sols bruns eutrophes - non différenciés

Classe 2

Principaux facteurs limitants: aucune limitation majeure, avec toutes les évaluations (sauf H, nombre de mois secs allant de 90 à 100

Ja Sols ferrugineux tropicaux sur matériau sableux

Classe 3 dans le nord-est (secteur de Potiskum), mais

Classe 4 dans le nord (Kano-Kaduna) et dans le nord-ouest

Principaux facteurs limitants: dans les secteurs de la Classe 4, la texture légère représente le principal facteur limitant = T4a = 40.

Dans le secteur de la Classe 3, la texture est T6 moyennement lourde = 80/90.

Le lessivage est N3 = modéré = 60, ou

N4 = léger = 80

Profondeur = P4 (60 à 90 cm) = 80.

Jc Sols ferrugineux tropicaux sur roches acides cristallines

Classe 3 dans les secteurs de Kano-Kaduna et Jos, également dans le coin sud-ouest, mais

Classe 4 dans le secteur d'Ilorin.

Principaux facteurs limitants: N3 = modérément lessivés = 60

M1 (secteur d'Ilorin uniquement) = réserves minérables faibles à nulles = 85

P4 = modérément profond = 80 (60 à 90 cm)

Texture = moyennement lourde = 80 à 90.

Jd Sols ferrugineux tropicaux - non différenciés

Classe 4 dans l'extrême nord-ouest en association avec Ja, et dans le nord et le nord-est de Potiskum, mais

Classe 5 dans le nord-ouest, au sud de Sokoto

Principaux facteurs limatants: T2 = texture très grossière = 10 à 30 dans le secteur de la Classe 5 et dans le nord-est de Potiskum, autrement T4b = légèrement texturés mais stables = 50 N2 = fortement lessivés = 50 dans le secteur de la Classe 5, autrement N3 (=60) ou N4(=80).

La Ferralsols jaunes rouges sur sédiments sableux lâches

Classe 4, mais cartographiés uniquement dans la zone de forêt.

Lc Ferralsols jaunes - non différenciés

Classe 3, cartographiés uniquement dans la zone de forêt au nord de Calabar.

Ll Ferralsols rouges sur sédiments sableux lâches

Classe 4

Principaux facteurs limitants: N2 = fortement lessivés = 50 M1 = réserves faibles à nulles = 85

Ln Ferralsols rouges - non différenciés

Classe 4

Principaux facteurs limitants: N1 = fortement lessivés = 40 M1 = réserves faibles à nulles = 85

Na Sols hydromorphes

Classe 2 dans le secteur de Hadejia, mais

Classe 4 le long des rives du Niger

Principaux facteurs limitants: D2 = (hydromorphes à 30-60cm) = 40-80 dans les secteurs de la Classe 4, mais D3 (hydromorphes au-dessous de 60cm) = 80-90 dans les secteurs de la Classe 2. T5a = structure massive à prismatique = 60 dans les secteurs de la Classe 4, mais T7 = texture équilibrée = 100 dans les secteurs de la Classe 2.

Nb Sols organiques

Classe 5 (en bordure du lac Tchad)

Principaux facteurs limitants: D1 , rendus incultivables par suite d'une teneur excessive en eau = 10-40
T2c = humus non décomposé = 30

Mb Sols hydromorphes salins et alcalins

Classe 5

Principaux facteurs limitants: T3 = argile dispersée ou imperméable = 30, ou
T5 = argile massive à prismatique = 60
S6 ou S9 = total des sels solubles supérieur à 1% (ou plus élevé que 0,6% avec le carbonate de sodium) = 5 à 15.

Me Sols salins - non différenciés

Classe 5

Principaux facteurs limitants: mêmes que pour Mb, ci-dessus.

L'examen de ce qui précède indique que dans quelques cas, il se peut que la même unité cartographique (telle que Ja, Jc, Jd ou Na) soit assignée à deux secteurs, mais ces secteurs sont néanmoins placés dans des classes différentes de potentialité. C'est ainsi que l'unité cartographique est mise dans les deux classes 2 et 4. En conséquence, cette classification reflète une connaissance supplémentaire des propriétés des sols locaux au-delà de ce qui est montré sur la carte pédologique, et elle suggère qu'en certains cas au moins il ne conviendrait pas de fonder la classification des potentialités du sol uniquement sur les cartes taxonomiques à échelle plus petite. Quant aux différences entre les secteurs de la Classe 3 et ceux de la Classe 4 de l'unité cartographique Ja, elles représentent surtout des différences dans la texture de la couche arable, ce qui ainsi reflète le fait (déjà souligné plus haut) que ce seul facteur se trouve à même de modifier considérablement l'ensemble de l'évaluation. Dans ce cas particulier, l'évaluation de 80-90 du sol de structure T6 (texture moyennement lourde) est le double de l'évaluation 40 donnée à la texture T4a (structure instable et texture légère). Les sols hydromorphes des rives du Niger (Classe 4)

sont mis dans une classe plus basse par rapport aux sols hydromorphes du Hadejia en raison d'un drainage moins bon et d'une structure allant de massive à prismatique.

Les plus grandes superficies des meilleurs sols de la savane nigériane correspondent à l'unité Jc, sols ferrugineux tropicaux sur roches acides cristallines (c'est-à-dire sur granites, etc). Ces sols sont placés dans la Classe 3, ainsi que le sont les périmètres moins étendus de l'unité Ja avec des sols similaires mais sur matériau sableux. Les sols de la Classe 2, sont relativement restreints et sont cartographiés en association avec les sols plus pauvres.

Institut des Etudes Pédologiques des Pays-Bas, Wageningen: Précis no. 5 sur l'étude des sols: Sombroek, W.G. et Zonneveld, I.S. 1971. "Champs d'anciennes dunes et dépôts fluviatiles dans le bassin versant du Rima-Sokoto (nord-ouest du Nigeria).

L'étude susvisée prend en compte les loess ainsi que les dépôts de sable de couverture poussés par le vent, également les dépôts alluviaux plus anciens et plus jeunes du quaternaire transportés par les eaux, par rapport au climat. L'étude en question a été retenue en raison surtout du fait qu'elle contient une carte au 1:50.000 (et des secteurs sélectionnés cartographiés au 1:20.000) qui, lorsque comparée avec les cartes au 1:5.000.000 de la FAO et de l'IFAN, indique les différents sols et dépôts qui ont perdu leur identité dans la simplification nécessaire à l'échelle 1:5.000.000. Ces divers sols et dépôts possèdent, semble-t-il, des potentialités agricoles très differentes.

La même étude non seulement fait état de potentialités agricoles différentes pour de nombreux dépôts transportés par le vent et l'eau mais egalement suggère que le degré et la persistance du colmatage de surface ont une très grande incidence sur l'utilisation de la terre et la mesure selon laquelle les sols sont mis en valeur au titre des méthodes traditionnelles. Seulement les unités cartographiques, ou les portions de ces unités, où le colmatage s'avère

relativement prononcé ne sont pas en règle générale largement utilisées à des fins agricoles. Cette corrélation est mise en évidence dans le tableau ci-joint qui renseigne tant à propos des dépôts éoliens (sous forme de courtes citations empruntées à l'étude) qu'au sujet des unités cartographiques des dépôts plus anciens et plus jeunes transportés par les eaux (cela, sous la forme de notes concises).

Le rapport met donc l'accent, dans les secteurs cartographiés et décrits par Sombroek et Zonneveld, sur l'importance du degré de colmatage de la surface en relation avec la potentialité du sol. Cependant, le colmatage ne représente pas l'une des propriétés évaluées numériquement dans l'étude de la FAO sur le Nigeria (cf. le chapitre précédent); non plus il n'existe suffisamment d'information dans l'étude du CIEH pour permettre de considérer le colmatage d'une façon systématique. On pourrait avancer que les effets néfastes du colmatage se trouvent dans une certaine mesure limités à certains types de sols, mais il y a peu de doute que là où de sévères colmatages se produisent il se peut que l'agriculture soit rendue presqu'impossible. Parmi les dépôts éoliens, les sables de couverture de Sangiwa (en dépit de leur texture relativement grossière) sont ceux davantage soumis aux risques du colmatage et du compactage, et même lorsqu'ils sont labourés ces sols se colmatent à nouveau avec les premières averses. Presque tous ces périmètres ne sont pas cultivés et même la culture arboricole a échoué en raison du ruissellement et du manque de pénétration des eaux de pluie dans le sol. Pour les mêmes raisons, tous les dépôts fluviaux où le colmatage est élevé demeurent virtuellement inutilisés.

Sombroek fait une distinction entre les secteurs s'étendant vers le sud, au sud d'à peu près la latitude de Niamey, et les zones nord où les textures ont généralement une tendance à être plus légères. Dans les secteurs sud, ce sont les dépôts plus anciens (les ergs anciens) qui souffrent du colmatage et restent virtuellement inutilisés, tandis que les dépôts plus jeunes sont d'ordinaire soumis à une exploitation agricole intensive. Ceci

Tableau 1. Récapitulation des risques de colmatage et sommaire de l'utilisation des terres des dépôts éoliens ainsi que des dépôts fluviaux plus anciens et plus jeunes

Nom et symbole cartographique	Envergure du colmatage	Utilisation de la terre
(a) Dépôts éoliens		
Funtus b	Colmatage sous des conditions de végétation naturelle, mais après labourage restent friables pendant longtemps	Culture intensive pendant la saison humide
Sangiwa A ou a	Extrêmement sujets au colmatage de surface malgré la texture sableuse; le labourage ne produit aucun effet vu que la première averse occasionne à nouveau un colmatage complet	Agriculture pluviale virtuellement impossible (faible réussite des semis; taux élevé d'écoulement
Sokoto C ou c	Aucun colmatage de surface	Utilisée presque partout pour l'agriculture nomade
Zurmi D ou d	Un certain colmatage mais sans effets défavorables sur les cultures	La plus grande partie en cultures permanentes
Illela E ou e	Aucun colmatage	Utilisée surtout pour l'agriculture nomade
(b) Dépôts fluviaux plus anciens		
Tureta 1.1	Peu de colmatage	Souvent utilisée pour l'agriculture nomade de la saison humide
Bakalori 1.2	Colmatage de surface pas persistant	Utilisée dans une large mesure pour la mise en culture permanente de la saison humide
Rabah 2.1	Aucun colmatage	Utilisée presque partout pour la mise en culture permanente de la saison humide
Talata 2.2	Colmatage prononcé dans les parties argileuses, faible ailleurs	Parties argileuses laissées essentiellement inutilisées, le reste intensivement cultivé

(à suivre)

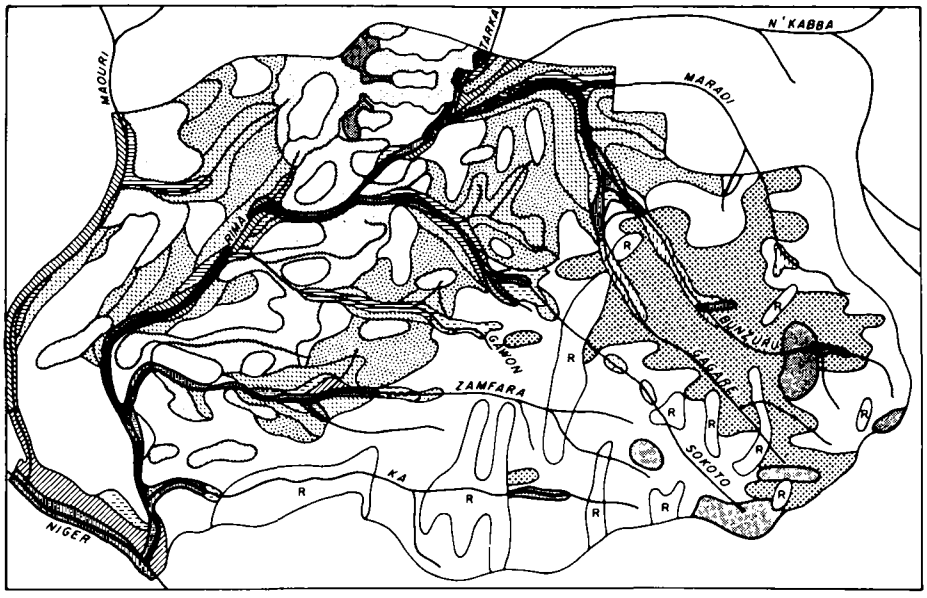
Tableau 1. (suite)

Kaura-Namoda 2.3	Aucun colmatage	Entièrement utilisée pour la mise en culture permanente de la saison humide
Zazagawa 3.1	Aucun colmatage	Utilisée pour la mise en culture intermittente de la saison humide
Bagudo 3.2	Forte tendance au colmatage, exception faite des secteurs s'élevant en hauteur	Laissée essentiellement inutilisée, exception faite des secteurs s'élevant en hauteur
(c) Dépôts fluviaux plus jeunes		
Argungu 4	Aucun colmatage	Presqu'au niveau de la mise en culture permanente
Diggi 5	Digues se colmatant fortement, terres du bassin se colmatant légèrement seulement	Levées virtuellement inutilisées; terres du bassin utilisées pour la culture du riz
Ambursa 6.1	Aucun colmatage	Cultivée partout où le drainage de la saison humide est possible
Kurukura et Gande 7.1 à 8.3	Colmatage sur les levées anciennes; le reste sans colmatage	Levées anciennes peu utilisées; le reste exploité en cultures diverses

ne s'harmonise pas avec l'expérience française dans le nord de la Haute-Volta où les ergs anciens ont davantage de corps, une consistance B de couleur, et sont cultivés, alors que les ergs plus jeunes, plus grossiers,ne sont pas mis en valeur.

La carte au 1:500.000 jointe au rapport montre de vastes zones de dépôts éoliens dans la partie est du bassin, également par endroits des dépôts éoliens et fluviaux en combinaison très diversifiée dans la partie nord-ouest de la moitié du bassin, avec Sokoto au centre. (Cf. Figure 2.)

Le secteur des dépôts généralement éoliens à l'est est cartographié en tant qu'unité Q16. Ce qui dans le système français correspond aux sols ferrugineux tropicaux sur sables éoliens, soit les unités 7A et 7B (sols peu différenciés et modaux) pour lesquelles une classification de potentialité de 4 a été suggérée dans cette étude. L'unité 7B, a-t-on pensé, se révélait davantage productive que l'unité 7A en absence de colmatage, mais compte tenu des informations dans l'étude nigériane, la même évaluation a été assignée aux deux unités. Dans le système FAO, ces unités semblent se mettre en corrélation dans une certaine mesure avec Qc(7A) et Q1(7B), bien que dans d'autres cas Qc et Q1 paraissent correspondre à 5F et 5G, soit les sols bruns rougeâtres sur sables éoliens. 5F est peu différencié et est surjacent à des ergs récents grossiers, tandis que 5G s'est développée dans les ergs anciens qui sont plus fins et ont une couleur et une structure B. L'expérience acquise dans le nord de la Haute-Volta révèle que 5F ne convient pas à l'agriculture, alors que 5G l'est, de sorte que ces unités ont été prises en tant que 5 et 4 respectivement dans la classification du CIEH. Cependant, il apparait que 5F et 5G risquent de se classer en tant que 7A et 7B. Quel que soit le classement d'ensemble donné à ces derniers, l'étude nigériane indique que la carte détaillée au 1:5.000.000 cache d'importantes différences dans la potentialité qui n'apparaissent pas à cette échelle mais qui se manifestent lorsque les sols sont cartographiés à des échelles plus grandes comme, par exemple, au 1:500.000 utilisée dans l'étude nigériane en question.



SANGIWA
ZURMI
SOKOTO
ILLELA
TURETA
BAKOLORI
GUSAU
RABAH
KAURA
TALATA
ZAZAGAWA
BAGUDO

COVERSANDS

OLDER AQUEOUS DEPOSITS

ARGUNGU
TUNGANTUDO
AMBURSA
DAGGI
KURUKURO-GANDE

YOUNGER AQUEOUS DEPOSITS

QUATERNARY DEPOSITS IN THE RIMA-SOKOTO RIVER BASIN, AS MAPPED BY SOMBROEK AND ZONNEVELD, 1971.

APPENDIX 6.4
FIG.-2

APPENDIX 6-4

Soil mapping in Nigeria in the past has made considerable use, particularly in the north, of the SPI soil classification system of d'Hoore (1964). More recently, however, attempts have been made to classify Nigerian soils in the framework of the U.S. Seventh Approximation and the FAO mapping units as well.

Although a wide range of soil publications on Nigeria were consulted, two in particular were selected as case studies. These were:

1. The chapter entitled "Soil Resources of Nigeria" in the book "Agricultural Development in Nigeria, 1965-1980", published by FAO in 1966.

2. Sombroek, W.G. and Zonneveld, I.S. 1971. Ancient dune fields and fluviatile deposits in the Rima-Sokoto river basin (N.W. Nigeria). Netherlands Soil Survey Institute, Wageningen, Soil Survey paper no. 5.

Of these two publications, the first was studied in detail because it represents a careful, detailed attempt to produce a quantitative, numerical rating for soils based on selected parameters each of which is defined and given a numerical value. This is probably the most detailed study of this kind yet carried out in West Africa. It also indicates what the authors considered to be the most important limiting factors for Nigerian soils, which were classified and mapped according to the system of d'Hoore.

The second publication was studied because it gives information on the "cover sands" which are extensive in the drier parts of West Africa (the Arenosols of the FAO classification) and includes a map on the 1:500,000 scale which can usefully be compared with the FAO and IFAN 1:5 million maps. Such a comparison serves to indicate the considerable amount of important detail, often affecting soil capability, which is lost in the smaller scale maps.

The chapter entitled "Soil Resources of Nigeria" in "Agricultural Development in Nigeria, 1965-1980" (FAO, Rome, 1966)

This chapter includes a soil map on the 1:5 million scale indicating the present productivity of the soils (i.e. a soil capability map). The soils are put into five classes though the actual mapping units are usually combinations of classes. The text is noteworthy because it gives a detailed account of how these five classes have been arrived at, making use of a numerical system which multiplies together numerical ratings for the following soil properties held to influence soil capability:

P soil depth
T texture and structure
N base saturation
S salinity
O organic matter
A nature of clay minerals
M mineral reserves
D drainage
H water (rainfall, taking into consideration "the number of months in which the soil remains water deficient for crop production).

Soil productivity is then calculated as PxTxNxSxOxAxMxDxH. As this is a multiplying formula, the most limiting factors (those with the lowest numerical ratings) overule the others. Not all factors are given equal weight. For some the possible range is 5 - 100, while for others it is only 90 - 100. This means that the final rating can be reduced (in the most adverse conditions) by up to 95% for the first property, but only by up to 10% for the second.

The basic soil map used in this report is the CCTA map of d'Hoore, updated to take into account more recent findings in some areas.

There are seven major soils mapped in Nigeria. They are listed below with a summary of their characteristics as given in the report:

i. Ferralsols are often low in nutrients but have stable, favourable physical properties and are resistant to erosion. They respond to fertilisers. Most are in the forest zone ("oilpalm and rubber belt") but some - the savanna phase - extend in a belt along the Niger and Benue rivers.

ii. Ferruginous tropical soils are often characterized, in Nigeria, by a sandy A horizon over a B with more clay and a weak subangular blocky structure which is often concretionary and/or mottled. CEC is low, but pH and base saturation are fairly high, reflecting the more moderate rainfalls of the savanna areas. The light textured A horizon has a low water holding capacity, and these soils are much more erodible than the Ferralsols (even though gradients are often moderate). They are used widely for millet (northern savanna areas) and for sorghum (southern savanna areas).

iii. Alluvial soils show relatively little horizon development or differentiation. They are formed in relatively recent river, lake and sea deposits. Wetness (poor drainage) is often reflected in subsurface mottles and in a tendency to have more organic matter than associated upland soils. The value of these soils depends on their texture. In some cases it is reduced by salinity. They are used for rice, or, when well drained, for a range of food crops. They are often fairly flat, and thus suited to irrigation, but may need drainage to lower the water table. Most are in the forest zone (delta and lower reaches of the Niger) but minor areas are widespread in the Savanna.

iv. Semi arid brown and reddish brown soils are often weakly calcareous and developed mainly from sandy sediments. They occur in the semi-arid northern part of the country and are mainly used for pasture and millet, with groundnuts grown locally.

v. Vertisols are characterized by heavy texture, poor physical properties and poor workability, and the fact that they often crack deeply and widely on drying. CEC is high and nutrient status often relatively good, but their use needs modern tillage equipment and, often, irrigation. They often occur in depressions, developed from old lake deposits.

vi. Lithosols are shallow soils usually over an ironpan layer (ferruginous crust). Because of their shallowness they have little agricultural value.

vii. Saline and hydromorphic soils refer mainly to soils around Lake Chad which need reclamation and irrigation before they can be productive.

The report gives two maps. One shows present soil productivity and is an interpretation based on natural fertility and traditional practices. It is nevertheless described by the authors as being a "rough approximation", since it "cannot be more accurate than the basic map from which it is derived". The second map given is a map of soil potentialities which is stated to be based on "predicted results from adequate soil management practices and reflects the improvement of soils that would be achieved by the introduction of modern technology".

Soil parameters given a numerical rating

Eight soil factors and one climatic factor (the number of wet months)

are assessed separately, given a numerical rating, and the value of the soil obtained by multiplying all these together, as indicated above.

The following notes give additional information on these individual ratings.

H - water

Range: 5 - 100

This is based on the number of months a soil is dry, and therefore reflects climate (as shown by the rainfall maps) rather than the soil itself. H4 (rating 80-100), for example, indicates the soil is below wilting point for 3-5 months, and H3 (rating 50-70) that it is below wilting point for 6-8 months. There are slightly different ratings for annual crops and for tree crops.

These ratings are somewhat open to discussion. An area with six months rain and six months drought would get a rating of 50, but such a climate might be very well suited to a wide range of crops with a growing season of up to six months.

D - drainage

Range: 10-100 (crops), 5 - 100 (trees).

The maximum rating (100) is for well drained soils with a deep water table, no hydromorphic horizon within 120 cm, and no waterlogging. The lowest ratings (5 - 40) are for soils waterlogged for at least two months.

A hydromorphic horizon at 60-120 cm (class D3a) would give a soil a rating of 80-90, i.e. a reduction of up to 20%. It appears however that in some cases water at this depth might be an advantage if the soil remains moist longer than a well drained one. There appears to be some overlap between H, water, and D, drainage.

P - effective soil depth

Range: 5 - 100.

The 100 rating is reached, for crops, when soil depth reaches 90 cm, and for

tree crops when it exceeds 120 cm. Less than 30 cm, for crops, gets a rating of 20.

P multiplied by H would give some idea of the approximate amount of water held during the year, but this would be modified by T, texture (considered next), though T here in fact refers only to the A horizon.

T - texture and structure of the A horizon

Range: 10 - 100

Maximum rating (100) is given to a soil of "average, balanced texture: loam, sandy loam and sandy clay loam".

A light textured soil (defined as "fine sand, loamy sand or coarse sand and silt") is classed as T4 and carries a rating of 40-50 if it is of "stable structure", but only 30-40 if of "unstable structure".

A heavy textured soil ("clay or silty clay") rates, for crops, at 60-70 if structure is massive to prismatic, but at 80 if angular to crumb in structure, or if massive but very porous.

In both these cases there is a rather lower rating for tree crops. It is not clear why this should be so, particularly as the rating is made with reference only to the texture of the A horizon. In many West African soils a light textured A is often underlain by a B with more clay in it.

There seems to be too much difference between the ratings for a stable structured light textured A horizon, rated at only 40%, and for a loam topsoil, rated at 100%.

N - base status

Range: 40 - 100

Maximum rating (100) is for a soil over 75% saturated, though a Ca saturated soil is rated at 80. The rate falls with increased leaching to reach 40 where saturation is below 15%.

There is generally a fairly close relationship between % saturation and pH. Since the latter is measured so much more cheaply and easily than the former, it might have been better to have expressed this parameter as pH rather than as V (= S/T, or TEB/CEC).

S - soluble salts content

Range: 5 - 100

Maximum rating (100) is for soils with less than 0.2% total soluble salts. The rating falls to 5 - 15 if soluble salts are over 1.0% if sodium carbonate is not present or over 0.6% total soluble salts including sodium carbonate.

The rating is modified by texture, with lower rates for lighter soils and higher rates for heavy and medium textured soils.

O - organic matter of the A1 horizon

Range: 70 - 100

Maximum rating (100) is for a soil with over 5% organic matter. Minimum ratings (70 - 85) are for soils with less than 1% organic matter. Figures are slightly modified by H (water) and D (depth) considerations. A C/N ratio of over 25 plus a high organic matter content reduce the rating to 70.

The maximum reduction in rating that can be given by a low organic matter content is only 30%, so that low organic matter is considered by the authors therefore to be less of a limiting factor than many other parameters considered (including topsoil structure and texture).

A - mineral exchange capacity and nature of the clay

Range: 90 - 100

This parameter is given the smallest range of all the parameters, and is therefore considered as having the least potential influence on reducing productivity.

A CEC of under 20 m.e. per 100g soil rates at 90. A CEC of over 40 m.e. rates as 100.

Small as this difference in ratings is, it is nevertheless debatable whether the higher CEC is necessarily an advantage. Although there is a greater capacity to hold cations and NH_4, a given amount of a particular cation, such as K+, is more available to the plant at a lower CEC than at a higher one.

M - reserve of alterable minerals in the B horizon,

Range: 85 - 100

A soil with no reserves, or very low reserves, is rated 85. A soil with large

reserves of minerals derived from basic or calcareous rocks is rated 100.

The range given seems rather narrow. Weatherable minerals represent reserve fertility and influence the "staying power" of a soil, particularly if its organic matter content is low or lost. Soils over basic rocks with reserves of minerals such as horneblende or biotite are often, if other parameters are fairly favourable, among the most naturally productive in West Africa.

Comments on the values assigned to the soil parameters.

It seems logical that, as knowledge of West African soils increases, numerical systems of assessment (such as the one discussed here) should supersede the more subjective ones at present more widely used. In practice, however, the accuracy and superiority of numerical systems may still, given the present state of knowledge, be more apparent than real. This is simply a result of the fact that we do not have sufficient experience in the correlation of values for individual parameters (such as base saturation) and actual crop yields. The productivity of the soil is affected by so many inter-relating factors that it is presumptuous to give each individual one a numerical rating since there is little precise field work on which these ratings can be based. The ratings are therefore as much an "informed guess" perhaps as are the capability ratings assigned to soils based more subjectively on first hand personal experience.

The publication examined represents a bold and thoughtful attempt to put capability assessment on a sound, objective basis, but many of the ratings assigned appear to be debatable and unproved. Are the very big rating differences associated with somewhat minor differences in topsoil texture justified? Should the presence or absence of reserves of weatherable minerals, or the amount of organic matter, be given a bigger weighting than is the case here? Should other parameters, such as the texture and structure of the subsoil, be taken into consideration as well? Does a soil with 12 wet months necessarily produce twice as much as one with only six? There might be very considerable

disagreement among different investigators as to the applicability of the ratings used. In a system which multiplies ratings together, a rating given any one of the nine parameters can greatly affect the overall result - a slight topsoil difference in texture for example can reduce the overall rating of a soil by up to 60%.

Capability units.

An ideal soil has a rating of 100. The report makes use of the concept of a "Capability Unit" (UC) equivalent to one hectare of such an ideal soil with a rating of 100. Applied to Nigeria, the authors found that soils below 0.2 UC (i.e. with a rating below 20) are not generally suited for agriculture (for crops) while the best soils had UC ratings of over 0.64.

The map of present productivity.

Approximate UC values were calculated for 54 soil areas of the basic soil map (based on the CCTA map but updated). Soils were divided into five classes based on their UC ratings. No first class soils were found (UC over 0.64). The proportions, in Nigeria as a whole, of soils of the other four classes were as follows:

Second class	5.5%
Third class	31.7%
Fourth class	46.5%
Fifth class	16.3%

Classes four and five (totalling 62.8%) were considered to be of questionable value for agriculture, leaving a total of 37.2% of the land (in classes 2 and 3) for cultivation.

In the capability classes given in the CIEH investigation, a climatic factor is not included in the soil rating, so that the CIEH ratings reflect intrinsic soil capabilities regardless of rainfall. In this Nigerian study, in contrast,

a six month wet/six month dry regime gives a rating of 70, so that no soil in this climatic zone, even if ideal from every other point of view (and therefore getting 100 for every other parameter) can get a rating higher than 70. In a zone with four wet months no soil, however ideal, can get a rating of more than 50. It could be argued that for short season crops adapted to the local rainfall regime, water would not be a limiting factor. It would be instructive, therefore, to produce an alternative map of the 54 soil areas leaving out the H factor reflecting mainly rainfall. This map would serve to indicate irrigation potentiality to some extent since it is the rating that is achieved if water limitations are removed.

Map of soil potentialities.

In the function used to give the overall UC ratings of soils some of the limitations are regarded by the authors as being relatively constant (i.e. difficult to modify) while others are capable of improvement. In the first category of fairly permanent limitations are: P (soil depth); T (texture and structure of the topsoil); A (exchange capacity); M (mineral reserves); and the workability and erodibility factors. Other factors can be modified by man through such activities as draining soils, using fertilizers and lime, reclaiming saline soils, building up organic matter contents and, of course, by irrigating.

In practice one might have reservations about the practicability of increasing organic matter by very much, or the advantages of liming, but with these reservations it appears instructive to recalculate the overall UC ratings using a modified formula:

p1 (future potential) = N1 x S1 x O1 x D1 x Pc x Tc x Ac x Mc

where the suffix 1 indicates a corrected soil property and the suffix c indicates a constant soil property not amenable to modification.

When these new calculations are applied to the 54 soil units, then the whole curve of distribution of the soil classes 1 - 5 shifts to the right, as follows:

	Potential		
	Present	Future	
Class 1	nil	3.4	cultivable
Class 2	5.5	45.5	
Class 3	31.7	30.3	
Class 4	46.5	9.7	non-cultivable
Class 5	16.3	11.0	

The effect of the shift would be that 79.2% can be cultivated as against 37.2% at present. The major single factor in the change is probably the water factor, but this makes the major assumption that water can be provided. Alternatively the new ratings could be considered as indicating the relative values of the soils after improvements, but disregarding the moisture factor.

For each of the 54 soil units a development coefficient C is calculated by taking $\frac{P1}{P}$.

For Nigeria as a whole, the average UC is stated to be 17.7, but the potential averages 45. Therefore C for the whole country is $\frac{45}{17.7}$ or 2.55. The implication of this is that with irrigation and other improvements, a productivity of 2 1/2 times the present one could be achieved. In practice, one cannot seriously think of irrigating the whole country. In Chapter 1 of the report it is agreed that "substantial investments in irrigation would hardly be practicable, or at least not wise, for quite a number of years". The approach does however represent a reasoned attempt to predict a ceiling. Research stations such as IITA have certainly produced maximum yields over 2 1/2 times the local averages, but whether yield increases are economic depends on selling prices. The FAO fertilizer trials indicated many instances of yield increases which were not economic.

The report also compares the calculated UC ratings with present population.

The extent of little used land in Nigeria.

Most of the present agricultural production comes from population nuclei where land pressure has much reduced fallows. The middle belt, in contrast (politically part of Northern Region) makes little contribution. A major conclusion of the report is that this region should be developed. The authors claim that "the whole of this belt has moderately good rainfall, notably superior to that of the densely farmed land further north", and note that the soil maps indicate extensive areas of good, or of potentially good land. It could be that the authors are over-optimistic about the rainfall, since distribution and reliability may not compare as well with that of the areas to the north, but they do recognize that the "main obstacle to the use of this central belt is the prevalence of tsetse", and they urge its elimination followed at once by a planned agricultural development.

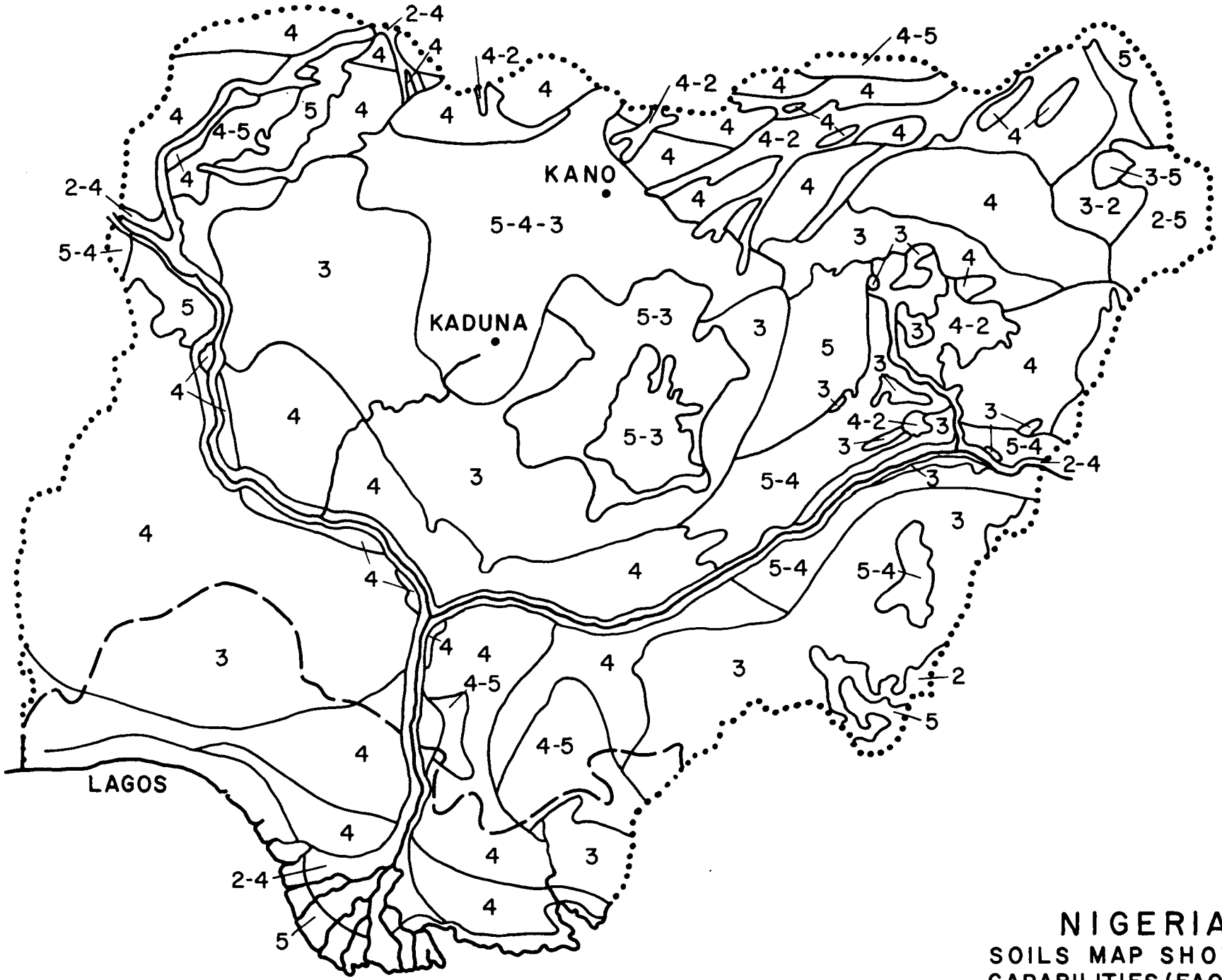
Present capability ratings of the soil units mapped.

As described above, soil units are put into five capability classes, with units 4 and 5 predominating, and unit 1 absent, but considerable areas are mapped as a complex of two or more capability classes. Areas in the Kano-Kaduna area, for example, are shown on the soil map as Bc Ja Jc (lithosols on ferruginous crusts, and ferruginous tropical soils on sandy material and on crystalline acid rocks) which are given the capability rating 5-4-3. (See Figure 1).

The outline of the mapping units and their capability ratings which follows indicates not only how the ratings are arrived at, but also what are, for each soil, the limiting factors considered most important by the authors of the report. (1)

---

(1) In the listing of major limiting factors, H factors, reflecting mainly the number of dry months, are omitted.



APPENDIX 6.4
FIG.-1

NIGERIA
SOILS MAP SHOWING
CAPABILITIES (FAO 1966)

Ab Lithosols on ferruginous crusts

Class 5

Main limiting factors: P1 = soil depth = 5

T1c = pebbly/rocky = 60

N3 = moderately leached = 60.

Bc Lithosols on ferruginous crusts

Class 5

Main limiting factors: as above, except T1b = pebbly,

stony, gravelly = 30

Bd Lithosols - undifferentiated

Class 5

Main limiting factors: P2 = soil depth = 20

T1a/b = pebbly, stony, gravelly = 10/30

N2 = strongly leached = 50

Bh Regosols on loose sediments

Class 4

Main limiting factors: T4b = light textured, stable = 50

N3 = moderately leached = 60

Bo Alluvial soils

Class 2

Main limiting factors: T6a = massive to prismatic structure = 80

N4 = slightly leached = 80

Dj Vertisols - undifferentiated

Class 5

Main limiting factors: T5a = massive to prismatic structure = 60

N6 = calcareous = 80

O1 = less than 1% O M = 85

Da Vertisols on rocks rich in ferromagnesian minerals

Class 4

Main limiting factors: P3 = soil 30-60 cm thick = 50

T1c = clay with 20-40% stones = 60

Db Vertisols on calcareous rocks

Class 3

Main limiting factors: D2 = hydromorphic at 30-60 cm/ waterlogging = 40-80

T5a = massive to prismatic topsoil structure = 60

Gb Semi arid brown and reddish brown soils - undifferentiated

Class 4

Main limiting factors: T4a = unstable structure = 40

M2a = weatherable minerals low, derived from sands = 85

Ga Semi arid brown soils on loose sediments

Class 4

Main limiting factors: T4a = unstable structure = 40

M2a = weatherable minerals low, derived from sands = 85

Hb Eutrophic brown soils - undifferentiated

Class 2

Main limiting factors: no important limitations, with all ratings (except H, number of dry months) 90 to 100

Ja Ferruginous tropical soils on sandy material

Class 3 in north-east (Potiskum area) but

Class 4 in north (Kano-Kaduna) and north-west.

Main limiting factors: in the Class 4 areas the main limiting factor is the light texture = T4a = 40.

In the class 3 area texture is

T6 = medium heavy = 80/90.

Leaching is N3 = moderate = 60

or N4 = slight = 80.

Depth = P4 (60-90 cm) = 80.

Jc Ferruginous tropical soils on crystalline acid rocks

Class 3 in Kano-Kaduna and Jos areas and in south-east corner, but Class 4 in Ilorin area.

Main limiting factors: N3 , moderately leached = 60
M1 (Ilorin area only) = low to nil mineral reserves = 85
P4 = moderately deep = 80 (60-90 cm)
Texture = medium heavy = 80/90.

Jd Ferruginous tropical soils - undifferentiated

Class 4 in extreme north-west in association with Ja, and north and north-east of Potiskum, but

Class 5 in the north-west, south of Sokoto.

Main limiting factors: T2 = very coarse texture = 10 - 30 in Class 5 area, and north-east of Potiskum, otherwise
T4b = light textured but stable = 50
N2 = strongly leached = 50 in Class 5 area, otherwise N3 (= 60) or N4 (= 80).

La Red-yellow ferralsols on loose sandy sediments

Class 4, but mapped only in forest zone

Lc Yellow ferralsols - undifferentiated

Class 3, mapped only in forest zone north of Calabar

Ll Red ferralsols on loose sandy sediments

Class 4

Main limiting factors: N2 = strongly leached = 50
M1 = low to nil reserves = 85

Ln Red ferralsols - undifferentiated

Class 4

Main limiting factors: N1 = strongly leached = 40
M1 = low or nil reserves = 85

Na Hydromorphic soils

Class 2 in Hadejia area, but

Class 4 along Niger banks

Main limiting factors: D2 (hydromorphic at 30-60 cm)
= 40-80 in Class 4 areas, but
D3 (hydromorphic below 60 cm)
= 80-90 in class 2 areas.
T5a = massive to prismatic structure = 60 in
Class 4 areas but
T7 = balanced texture = 100 in class 2 areas.

Nb Organic soils

Class 5 (bordering Lake Chad)

Main limiting factors: D1 = waterlogging = 10-40
T2c = non-decomposed humus = 30

Mb Hydromorphic saline and alkaline soils

Class 5

Main limiting factors: T3 = dispersed or impermeable clay = 30, or
T5 = massive to prismatic clay = 60
S6 or S9 = total soluble salts over 1% (or over
0.6% with sodium carbonate) = 5-15

Me Saline soils - undifferentiated

Class 5

Major limiting factors: as Mb, above

A study of the above indicates that in a few cases, two areas may be given the same mapping unit (such as Ja, Jc, Jd or Na) but are nevertheless put in different capability classes. The Na mapping unit, for example, is put both in Class 2 and in Class 4. This classification therefore reflects additional knowledge of local soil characteristics beyond what is shown on the soil map, and suggests that in some cases at least it is not satisfactory to base a soil capability classification merely on the smaller scale taxonomic maps. The differences between the Class 3 and Class 4 areas of mapping unit Ja are mainly differences in topsoil texture, reflecting the fact (pointed out above) that this factor alone is able to change the overall rating considerably. In this particular

case the T6 textured soil (medium heavy texture) with a rating of 80-90 is double the rating of 40 given the T4a texture (unstable structure and light texture). The hydromorphic soils of the Niger banks (Class 4) are downgraded in relation to the hydromorphic soils of the Hadejia area because of poorer drainage and a massive to prismatic structure.

The most extensive of the better soils of the Nigerian savanna areas are unit Jc, ferruginous tropical soils on crystalline acid rocks (i.e. on granites etc.). These are put into Class 3, as are less extensive areas of unit Ja, similar soils but on sandy material. The Class 2 soils are relatively inextensive and are mapped in association with poorer soils.

Netherland Soil Survey Institute, Wageningen: Soil Survey Paper no. 5: Sombroek, W.G. and Zonneveld, I.S. 1971. Ancient dune fields and fluviatile deposits in the Rima-Sokoto river basin (N.W. Nigeria).

This report studies wind blown loess and cover sand deposits, and water borne older and younger alluvial deposits of the Quaternary period in relation to climate. It was included in these case histories mainly because it provided a map at the 1:50,000 scale (and selected areas mapped at 1:20,000) which, when compared with the FAO and IFAN 1:5 million maps, indicated the varied soils and deposits which have lost their identity in the simplification necessary at the 1:5 million scale. These varied soils and deposits are, it appears, of very different agricultural capabilities.

The report not only indicates different agricultural capabilities for many of the wind and water borne deposits, but suggests that the degree and persistence of surface sealing has a very important influence on land use and the extent to which the soils are used under traditional practices. Only mapping units, or parts of mapping units, where sealing is relatively pronounced are not generally widely used for agriculture. This correlation is brought out in the table attached which gives information on the eolian deposits (in the form of

Table 1. Summary of liability to sealing and of land-use of Eolian deposits and of older and younger river deposits as described and mapped by Sombroek and Zonneveld (1971)

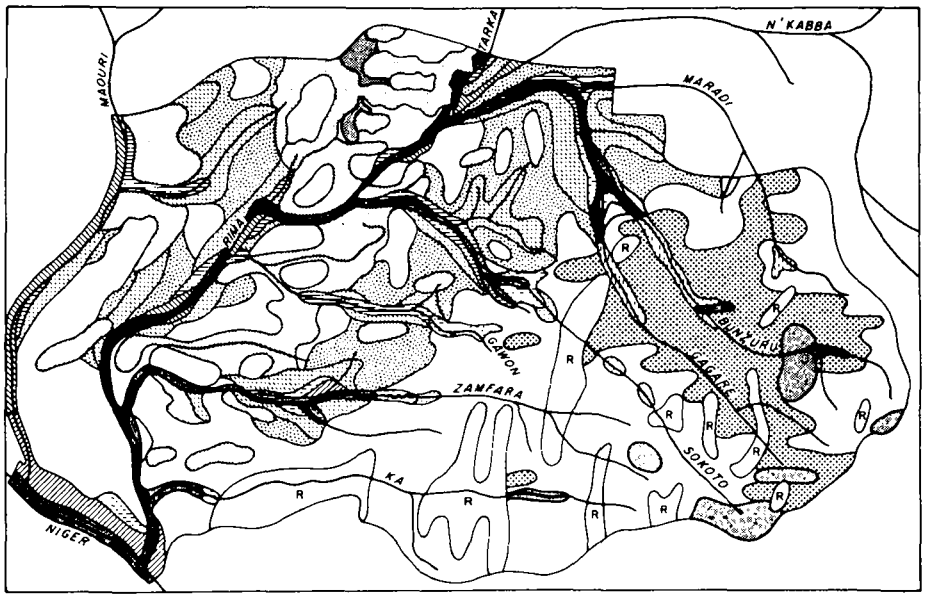
Name/map symbol	Extent of sealing	Land-use
(a)	EOLIAN DEPOSITS	
FUNTUA b	Sealing under natural vegetation, but friable for a long time after tillage	Intensive wet season cultivation
SANGIWA A or a	Extremely liable to surface sealing despite sandy texture; tillage has no effect as first shower causes complete resealing	Rainfed agriculture virtually impossible (poor seedling emergence; much run-off)
SOKOTO C or c	No surface sealing	Used nearly everywhere for shifting cultivation
ZURMI D or d	Some slight sealing but no adverse effects on crops	Mostly under permanent cultivation
ILLELA E or e	No sealing	Mostly used for shifting cultivation
(b)	OLDER RIVER DEPOSITS	
TURETA 1.1	Little sealing	Often used for wet season shifting cultivation
BAKALORI 1.2	Surface sealing not persistent	Largely used for permanent wet season cropping
RABAH 2.1	No sealing	Used almost everywhere for permanent wet season crops
TALATA 2.2	Strong sealing on clayey parts, little elsewhere	Clayey parts mostly unused, remainder intensively cropped
KAURA-NAMODA 2.3	No sealing	Fully used for permanent wet season cropping
ZAZAGAWA 3.1	No sealing	Used for intermittent wet season cropping
BAGUDO 3.2	Strong tendency to seal except on raised patches	Mostly unused except on raised patches
(c)	YOUNGER RIVER DEPOSITS	
ARGUNGU 4	No sealing	Near permanent cropping
DIGGI 5	Levees seal strongly, basin land only slightly	Levees virtually unused, basins used for rice
AMBURSA 6.1	No sealing	Cropped wherever wet season drainage possible
KURUKURA and Gande 7.1 to 8.3	Sealing on old levees, rest without sealing	Old levees little used, rest has varied cultivation

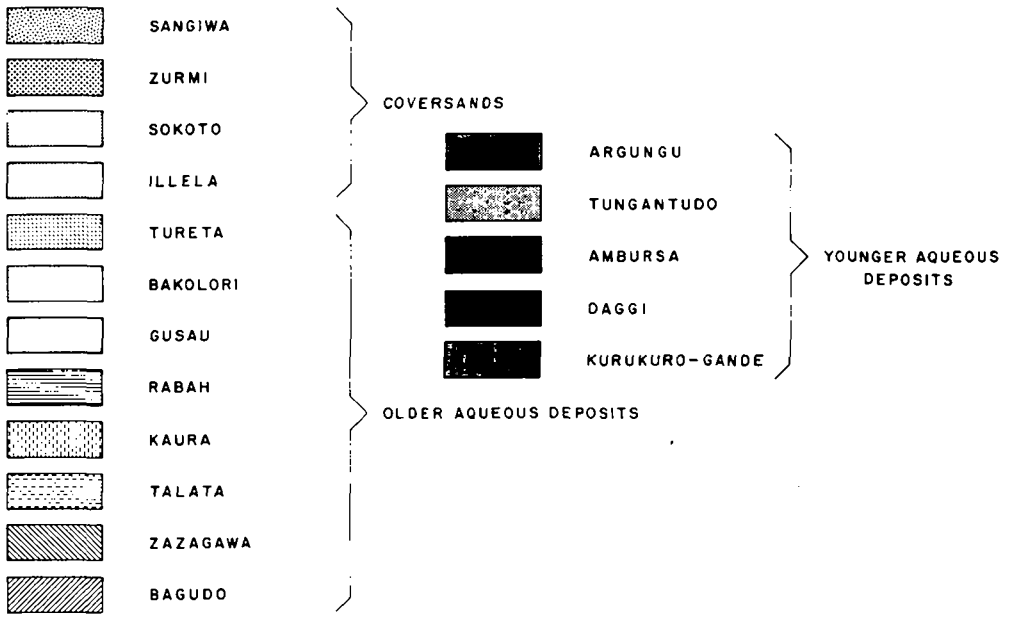
short quotations from the report) and on the mapping units of the older and younger water borne deposits (in the form of concise notes).

The report thus emphasizes the importance in the areas mapped and described by Sombroek and Zonneveld of the degree of surface sealing in relation to soil capability. However, sealing is not one of the properties assessed numerically in the FAO study of Nigeria (previous section), nor was sufficient information available on sealing for it to be considered systematically in the CIEH study. It might be argued that its bad effects are to some extent confined to certain types of soils, but there is little doubt that where severe sealing occurs it can make agriculture almost impossible. Of the eolian deposits, the Sangiwa coversands (in spite of being relatively coarse) are the most liable to surface sealing and compaction, and even if tilled these soils reseal with the first showers of rain. Almost all these areas are uncultivated and even tree crop establishment has failed due to runoff and lack of rainfall penetration into the soil. Similarly, all the river deposits where sealing is strong are virtually unused.

Sombroek distinguishes between the southern areas, south of about the latitude of Niamey, and the northern areas where textures generally tend to get lighter. In the southern areas it is the older deposits (erg anciens) which suffer from sealing and are virtually unused, whereas the younger deposits are usually intensively cropped. This is not in agreement with French experience in northern Upper Volta where the erg anciens have more body and a colour/consistency B, and are cultivated, whereas the younger, coarser ergs are unused.

The 1:500,000 map attached to the report shows considerable areas of eolian deposits in the eastern part of the basin, and very varied patchy mixed eolian and river deposits in the north-western half of the basin, with Sokoto at the center. (See Figure 2).





QUATERNARY DEPOSITS IN THE RIMA-SOKOTO RIVER BASIN, AS MAPPED BY SOMBROEK AND ZONNEVELD, 1971.

APPENDIX 6.4
FIG.-2

The area of generally eolian deposits in the east is mapped as unit Q1 6. In the French system this is shown as tropical ferruginous soils over eolian sands, units 7A and 7B (little differentiated and modal) for which capability classifications of 4 have been suggested in this study. Unit 7B was felt to be more productive than 7A when it did not suffer from sealing, but in view of the evidence in this Nigerian study both units were given the same rating. In the FAO system these units appear to correlate to some extent with Qc (7A) and Q1 (7B), though in other cases Qc and Q1 appear to correlate with 5F and 5G, the Reddish Brown soils over eolian sands. 5F is little differentiated and over the coarser erg recents, whereas 5G is developed in the erg anciens which are finer and have a colour and structural B. Experience in northern Upper Volta is that 5F is not suited to agriculture, whereas 5G is, so these have been given ratings 5 and 4 respectively in the CIEH classification. It appears, however, that 5F and 5G may grade into 7A and 7B. Whatever overall class is given to the latter, however, the Nigerian study indicates that the 1:5 million map hides important detailed capability differences not shown on that scale but shown when soils are mapped at larger scales such as, for example, the 1:500,000 scale used in this Nigerian study.