

DEMOCRATIC REPUBLIC OF MADAGASCAR
MINISTRY OF INDUSTRIES, ENERGY AND MINES

GROUNDWATER DEVELOPMENT STUDY
IN
SOUTH-WESTERN REGION
OF
THE DEMOCRATIC REPUBLIC OF MADAGASCAR

VOLUME 5
DATA BOOK

JULY 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

S	S	S
C	R	(3)
91-065(5/5)		

JICA LIBRARY



1092180(7)

22693

DEMOCRATIC REPUBLIC OF MADAGASCAR
MINISTRY OF INDUSTRIES, ENERGY AND MINES

GROUNDWATER DEVELOPMENT STUDY
IN
SOUTH-WESTERN REGION
OF
THE DEMOCRATIC REPUBLIC OF MADAGASCAR

VOLUME 5
DATA BOOK

JULY 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

GROUNDWATER DEVELOPMENT STUDY
IN
SOUTH-WESTERN REGION
OF
THE DEMOCRATIC REPUBLIC OF MADAGASCAR

LIST OF REPORT

- VOLUME 1 SUMMARY REPORT
VOLUME 2 MAIN REPORT
VOLUME 3 SUPPORTING REPORT (1)
VOLUME 4 SUPPORTING REPORT (2) -- DATABASE MANUAL
VOLUME 5 DATA BOOK

国際協力事業団

22693

マイクロ
フィルム作成

TABLE OF CONTENTS

1. Socioeconomic Data
2. Meteorological Data
3. Hydrological Data
4. Results of the Geophysical Prospecting
(Calculation Sheet)
5. VLF Magnet Telluric Survey
6. Test Drilling and Pumping Test

1. SOCIOECONOMIC DATA

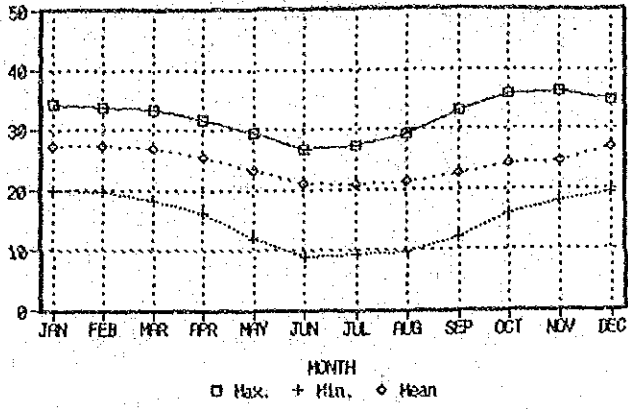
Socioeconomic and Sector Background

Collected Reference Materials

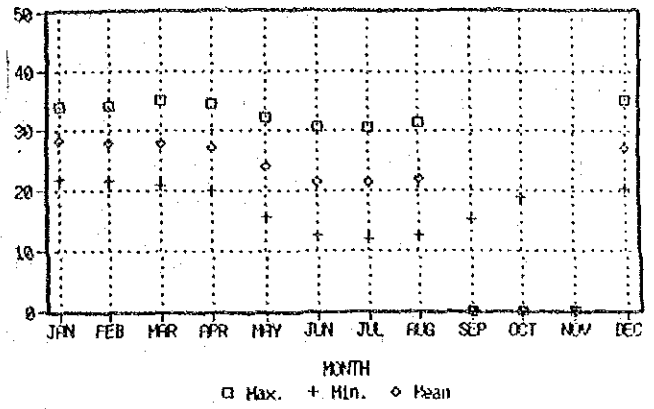
1. Presidence de la Republique, Direction Generale de la Banque des Donnees de L'Etat. Inventaire Socio-Economique 1976-1986 Tome I, Fevrier 1988.
2. _____ .Inventaire Socio-Economique 1976-1986 Tome II, Fevrier 1988.
3. _____ .Bulletin Mensuel de Statistique (Edition Speciale), No. 372 a 377, Mars a Aout 1987.
4. _____ .Bulletin Mensuel de Statistique (Edition Speciale), No, 378 a 383, Septembre a Fevrier 1988.
5. _____ .Situation Economique Au 1er. Janvier 1988, n.d.
6. Ministere de L'Economie et du Plan. Rapport Economique et Financier Anee 1989, n.d.
7. Ministere de L'Industrie de L'Energie et des Mines. Investir a Madagascar!, n.d.
8. Journal Officiel de la Republique Democratique de Madagascar. Loi No. 86-009 Relative au Plan quinquenal 1986-1990, No. 1755, 26 Jolay 1986.
9. JIRAMA. Baremes Tarifaires Eau - Janvier 1990, 17 Janvier 1990.
10. GREA-AE, PNUD/Banque mondiale. Secteur Eau et Assainissement, Rapport sur la situation actuelle, Document de Travail, Nairobi, octobre 1989.
11. Andriamihaja, L. L'organisation financiere de Madagascar, n.d.
12. Rasoloniaina, Frederic. Organisation Administrative, n.d.

2. METEOROLOGICAL DATA

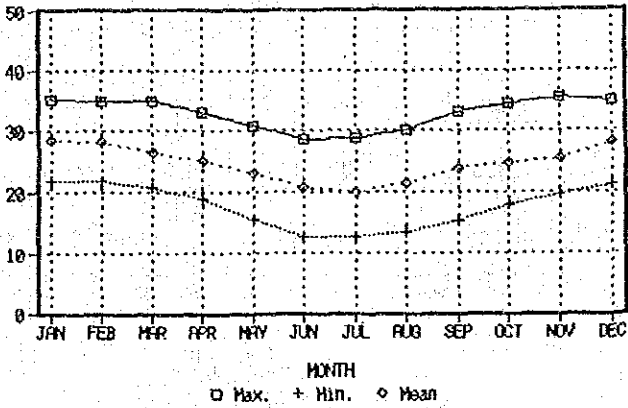
MONTHLY TEMPERATURE
MOROMBE STATION in 1969-1988



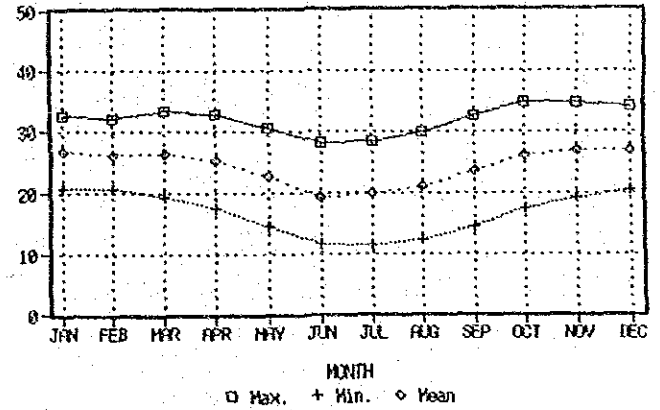
MONTHLY TEMPERATURE
BERORONA STATION in 1969-1974



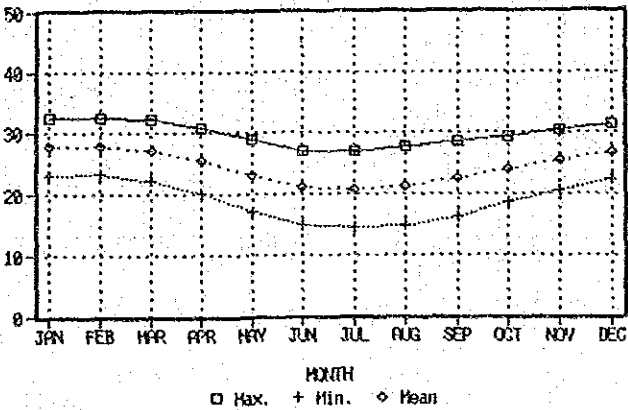
MONTHLY TEMPERATURE
BETICKY SUD STATION in 1969-1988



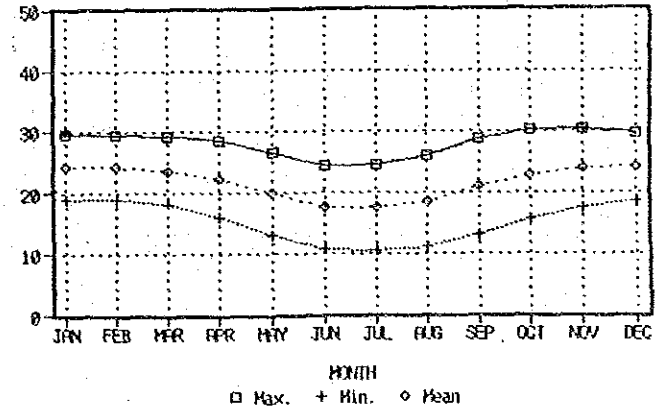
MONTHLY TEMPERATURE
MBAZOMBON STATION in 1969-1975



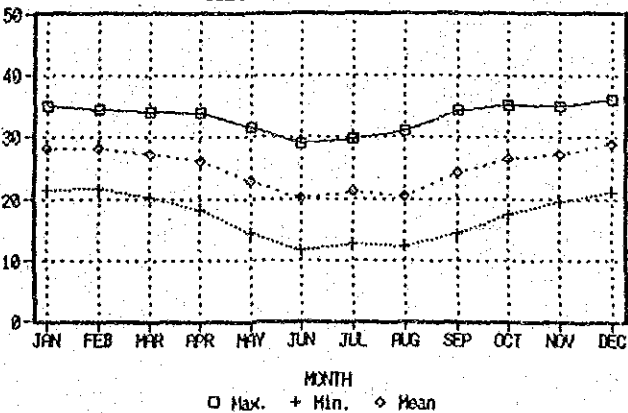
MONTHLY TEMPERATURE
TORILALA STATION in 1969-1988



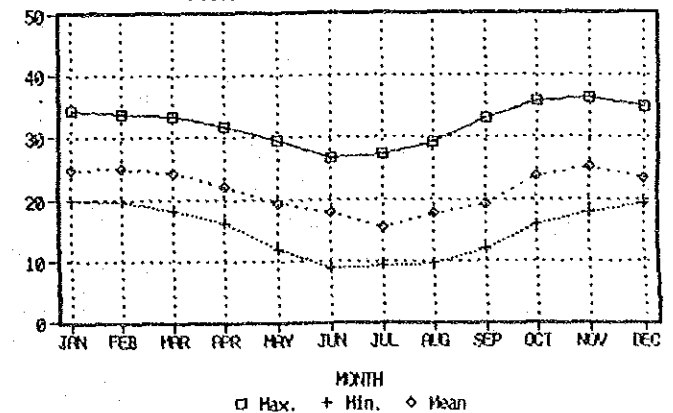
MONTHLY TEMPERATURE
RANAHIA STATION in 1969-1988



MONTHLY TEMPERATURE
BEZAHA STATION in 1970-1988

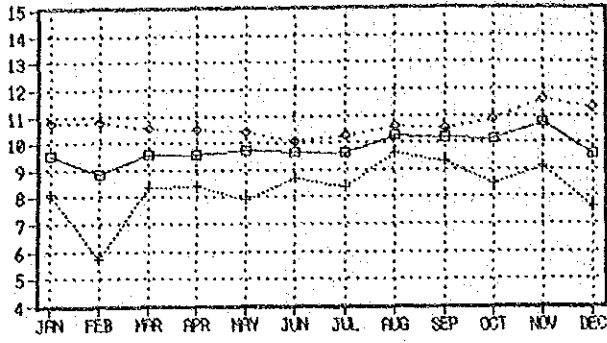


MONTHLY TEMPERATURE
SAKARANA FOREST STATION in 1969-1987

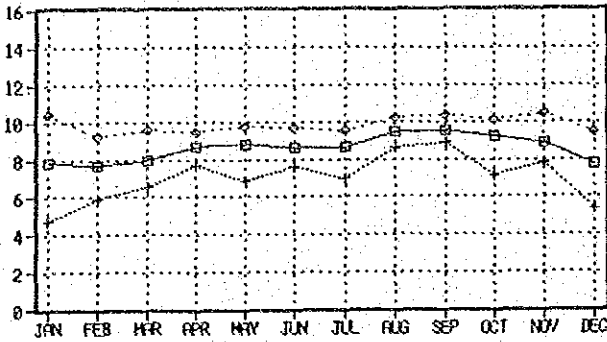


COLLECTED RECORD; TEMPERATURE

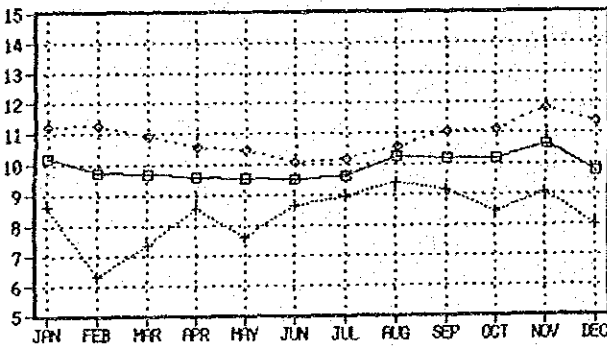
MONTHLY SUNSHINE HOURS
MORONBE STATION in 1969-1988



□ MEAN + MIN. ◇ MAX.
MONTHLY SUNSHINE HOURS
RANOHIRA STATION in 1969-1988

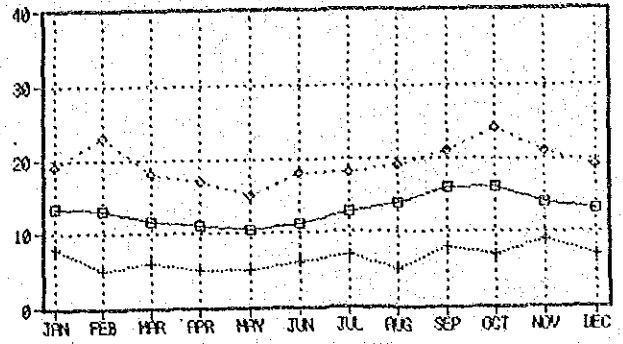


□ MEAN + MIN. ◇ MAX.
MONTHLY SUNSHINE HOURS
TOLIARA STATION in 1969-1988

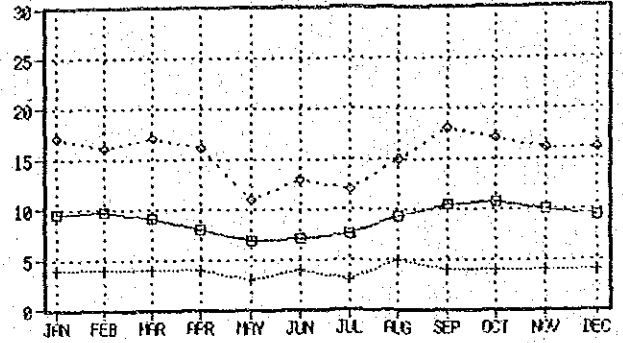


□ MEAN + MIN. ◇ MAX.

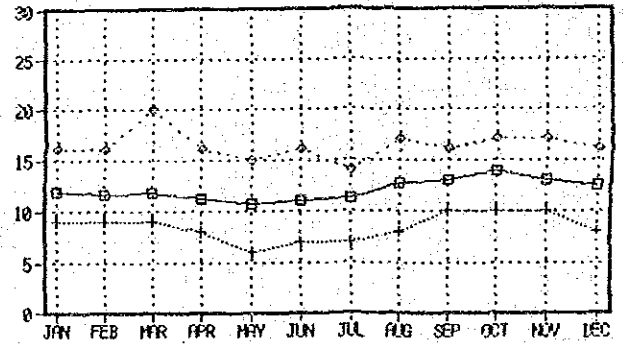
MONTHLY WIND VELOCITY
MORONBE STATION in 1969-1988



□ MEAN + MIN. ◇ MAX.
MONTHLY WIND VELOCITY
RANOHIRA STATION in 1969-1988



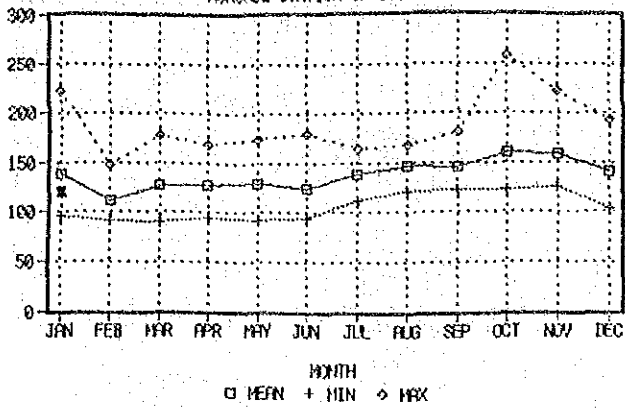
□ MEAN + MIN. ◇ MAX.
MONTHLY WIND VELOCITY
TOLIARA STATION in 1969-1988



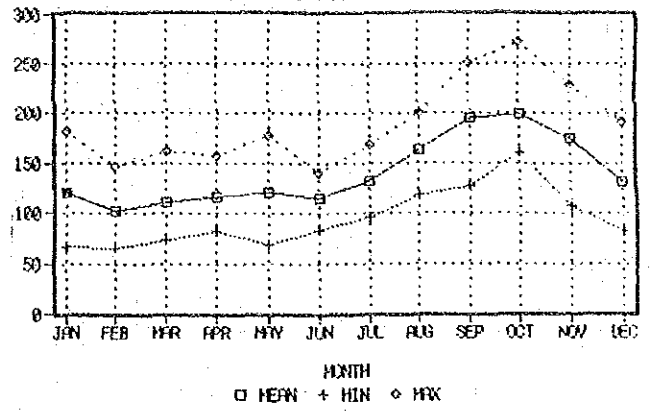
□ MEAN + MIN. ◇ MAX.

COLLECTED RECORD; WIND VELOCITY
; SUNSHINE HOURS

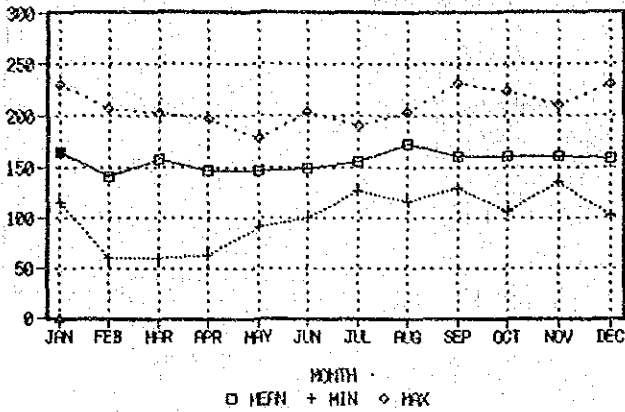
MONTHLY MEAN EVAPORATION
MURORBE STATION IN 1969-1988



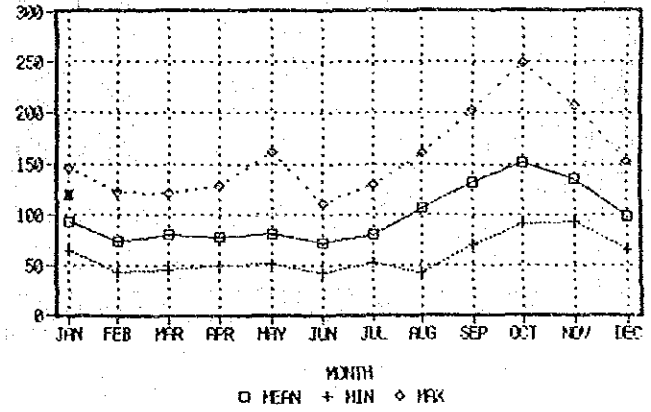
MONTHLY MEAN EVAPORATION
RUMPHIRA STATION IN 1969-1988



MEAN MONTHLY EVAPORATION
TULEAR STATION IN 1969-1988

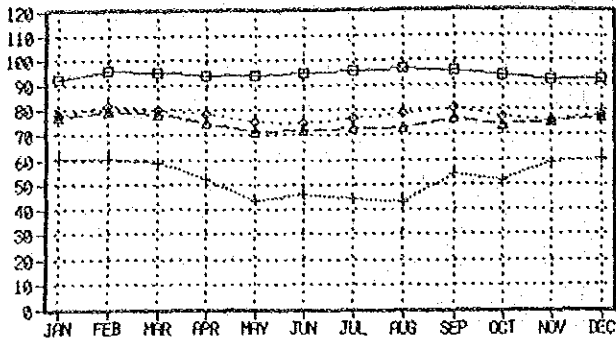


MONTHLY MEAN EVAPORATION
SPEKAWAH FOREST STATION IN 1969-1987



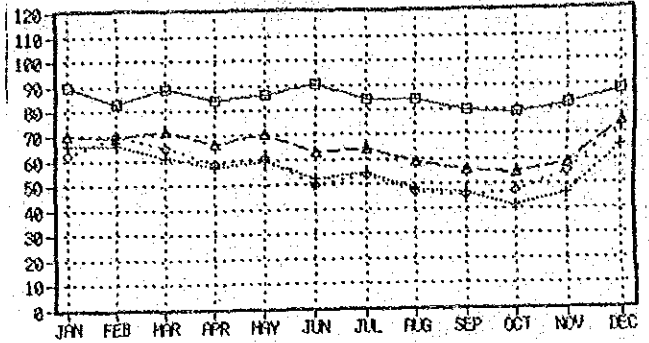
COLLECTED RECORD; EVAPOORATION

MONTHLY RELATIVE HUMIDITY
MOROMBE STATION in 1969-1988



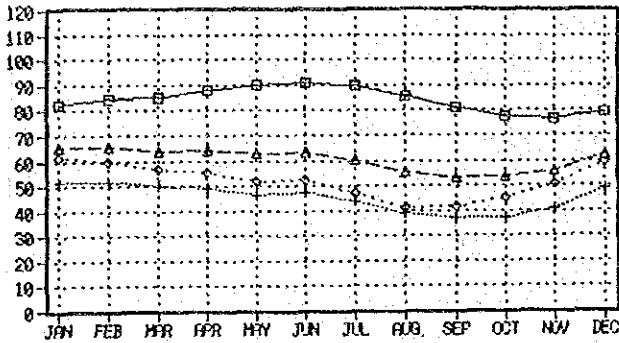
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
BEROROH SUD STATION in 1969-1974



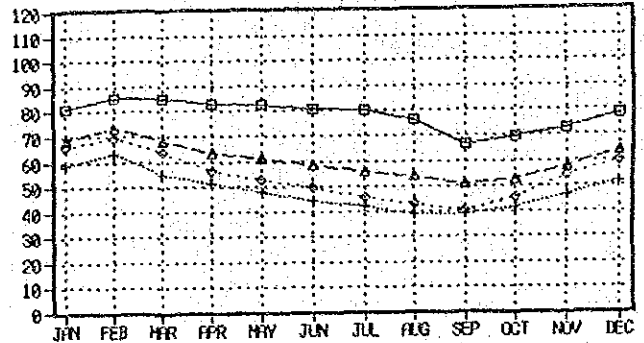
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
BETILOKY SUD STATION in 1969-1988



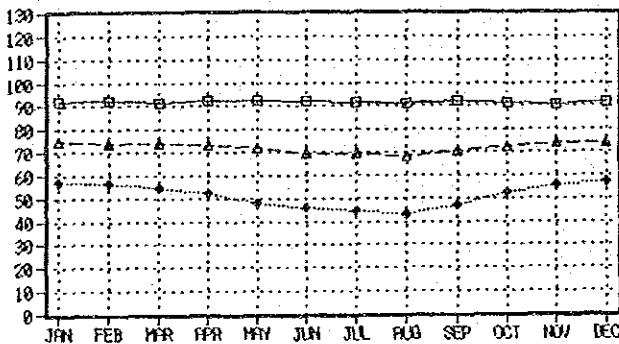
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
PARAZORO STATION in 1969-1988



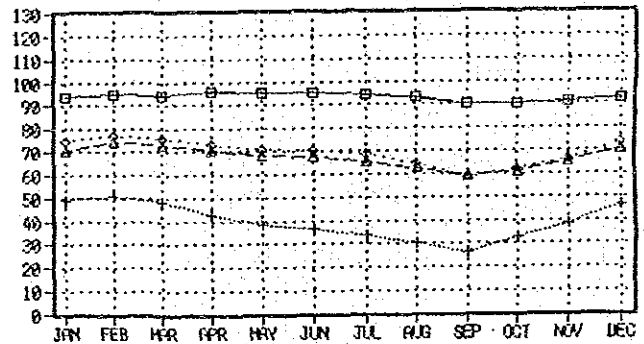
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
TULEFA STATION in 1969-1988



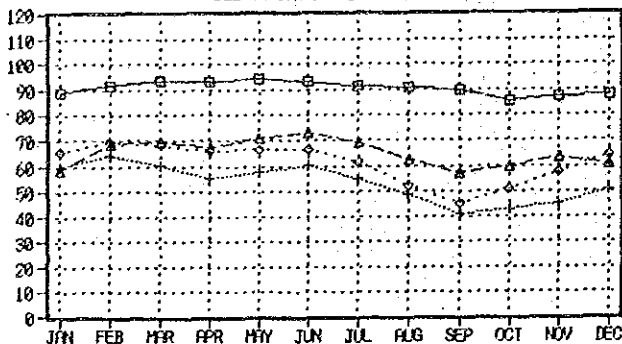
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
RANOHIRA STATION in 1969-1988



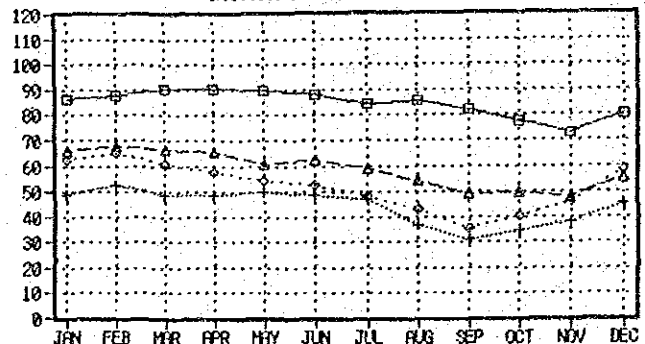
□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
BEZAMA STATION in 1970-1988



□ 7:00 + 12:00 ◇ 17:00 △ Mean

MONTHLY RELATIVE HUMIDITY
SAKARANA STATION in 1969-1987



□ 7:00 + 12:00 ◇ 17:00 △ Mean

COLLECTED RECORD; RELATIVE HUMIDITY

COLLECTED RECORD; RELATIVE HUMIDITY

MONTHLY RELATIVE HUMIDITY TOLIARA STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	78	79	74	79	72	70	70	83	70	76	73	75
1970	80	78	71	70	67	65	68	83	71	72	74	72
1971	76	78	77	74	73	67	71	67	72	69	69	77
1972	73	75	75	74	75	72	70	73	72	74	77	73
1973	71	71	70	68	69	67	68	65	73	73	75	75
1974	74	74	71	72	74	71	68	70	69	72	70	80
1975	77	76	72	74	71	69	70	65	69	71	77	51
1976	74	78	74	75	72	69	68	77	73	72	74	64
1977	76	76	78	73	71	71	69	68	70	70	73	78
1978	72	74	70	76	74	75	68	69	71	71	70	75
1979	73	73	71	-	-	-	-	-	68	70	73	77
1980	72	45	68	72	69	68	67	66	68	71	71	73
1981	76	78	75	69	65	72	70	65	72	69	76	74
1982	78	72	77	75	73	69	68	69	65	66	72	72
1983	71	78	75	73	72	70	70	69	71	74	76	75
1984	75	77	74	71	74	58	66	66	66	74	76	72
1985	73	69	74	71	70	71	66	64	74	76	72	75
1986	72	72	74	72	72	66	68	69	67	74	77	79
1987	75	77	77	76	74	74	78	73	77	81	80	79
1988	78	82	83	81	76	77	76	75	74	78	76	79
AV	75	74	74	73	72	70	70	68	71	73	74	74

MONTHLY RELATIVE HUMIDITY MORONBE STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	79.33	81.66	75.66	78.66	73.66	66.33	67.33	64	68	75	72.66	77.33
1970	81	72	67.66	66.66	68	67.33	67	68.33	73	71	77.66	76.33
1971	79	81.33	27.33	75.33	73	68.33	79.66	68.33	72	72.66	73.33	79.33
1972	77.33	82	78.33	74.66	-	72.33	70	72	69	75.66	69.66	74.33
1973	74	76.66	75.33	70.33	71	67.33	-	-	73	72.33	-	-
1974	-	-	-	-	78	74	69.33	67.33	74.33	73.66	75.66	80.33
1975	76.33	79.66	75	74.66	71	68.66	68	67	73	78.66	76.66	82.66
1976	78.33	82.66	78.66	78.33	76	72.33	69.66	76.66	71	72	75	76
1977	81.33	80.33	81.33	74	72.66	72	71.33	69.33	73.33	74	75	77
1978	76	78	73	76.66	71	75	69.66	71.33	73.33	74.66	72.66	75.66
1979	76	82.33	78.33	71.33	72.33	71.33	70	72.66	76.33	78	77	81.66
1980	80.33	78.33	79.66	78.66	74	76.66	73.66	72.66	77	73	73.66	-
1981	75.33	-	-	-	70	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	75.33
1987	76.66	77	77	74.66	69	67.33	73.66	-	-	71.33	75	73.66
1988	-	-	-	-	-	72.33	-	-	-	-	-	-
AV	77.08	79.22	78.33	74.88	71.33	71.91	72.44	72.66	76.66	74.11	75.22	76.88

MONTHLY RELATIVE HUMIDITY RANOHIRA STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	75.33	77	72	73.66	71.66	67.66	64.33	-	-	61.66	65.66	72.66
1970	79	75.33	70.33	67.33	62.33	65	63	60.33	58.66	58.33	70.33	67
1971	76	80	75	69.66	69.66	68	65.66	61.33	-	-	65.66	72.33
1972	74.66	78.33	77.66	69.33	71.66	69.33	68.33	64	-	-	65.33	67
1973	71.33	77.33	74.33	73	67.66	68.33	71	67.66	58	55.33	68.33	77.33
1974	71.66	77.33	74	75.66	77.33	75.66	-	64.66	-	60.33	65	-
1975	26.66	78.33	72.66	72.66	69	69.33	-	60.33	-	57.66	60.66	73
1976	66.33	71	69.33	74.33	68.66	67.66	65.66	67.33	57.33	60.66	56.66	69.33
1977	74.66	70	76	69	65.66	67.33	67.33	65	59.33	59.33	63.33	67
1978	66.33	67	70.66	71.66	65.33	67.66	68.66	62.33	-	69.33	69.66	75
1979	77	77.66	-	-	72	69	63	61	-	-	69	76.33
1980	72.66	66	67	66	67	64	66	61	-	-	64.33	70.66
1981	67.66	76.66	75	68.33	-	68	64.66	-	-	66.66	66.33	71.33
1982	83	75	81	77.66	73.66	70	67.33	-	-	64	62.66	61.33
1983	62.66	73.33	71.33	66.66	64	65.33	63.66	-	-	54.66	59.66	72.33
1984	76.66	80.33	75.66	69.66	65.66	67.33	63.66	64.66	61.33	64.33	68	73
1985	67.66	66.66	73	-	67.66	67.33	63.33	65	60.33	62.66	69	74
1986	68.66	76.66	71.66	67.66	67	65	63.66	60	-	66	71	77
1987	76.66	70.66	72	72	67.33	66.66	68.66	60.66	57.33	60	59.66	62.66
1988	71.66	69.33	65.66	63.66	61.66	60	59.33	54.66	-	56.66	62.33	63.66
AV	70.41	74.2	72.85	70.44	68.15	67.43	65.40	62.5	58.90	61.10	65.13	70.68

MONTHLY RELATIVE HUMIDITY
SAKARAMA FOREST STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	73	77.33	74.66	70.66	66.33	57.66	57	51.66	45.66	48	42	59.33
1970	68	63.66	60.66	57.33	54	57.33	49.66	45.66	43.66	44.66	52.66	57.66
1969	67	73.66	66.66	61.33	62.66	61.33	54.66	51	43.66	47.33	62	62.66
1972	68.66	71.66	72	64.33	64.33	71.66	62.66	65	51.66	55.33	58	56.33
1973	60.66	63.66	62	67.66	71.33	73.33	67.66	56.66	49.66	46.33	35	57
1974	52.33	64.66	58.33	62	70.66	65.66	62.66	61	63.66	58.33	-	-
1975	-	-	67.66	63	63.33	60.66	-	-	-	-	25	14.33
1976	66.66	69	66.66	72.33	66	61.66	61.33	63	47	46.66	51.33	63.33
1977	69	67.66	75.33	66.66	68	59.33	48.66	45.33	46	51.66	51.33	64.33
1978	63.33	62.66	61.66	66.66	45	-	61	-	-	51	47.33	60.33
1979	61	67.66	68.33	64	62	62.66	61.33	55	49	47.33	55.33	71
1980	63.33	-	60.66	65.33	63	57.33	56	48.33	52	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	53.66	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	67.33	77.66	70.66	65.66	29.33	-	-	48.66	-	-	-	40.33
1987	75.66	66.33	-	69.33	62.66	62.66	63.33	55.66	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	65.84	67.79	66.56	65.45	60.61	62.61	58.83	53.91	49.2	49.66	48	55.15

MONTHLY RELATIVE HUMIDITY
ANKAZOABO SUD STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	73	77.33	70.66	72.33	65.66	63	56.66	54.33	48.33	-	56.33	66.33
1970	79.33	73.33	64	60	57	58	53	60.33	53.33	53.66	58.33	61.33
1971	73.66	76.33	73.66	65	63.33	58	57.66	52	-	57.66	67	62.66
1972	66.66	78	73.66	62	64.33	69	56.33	51	-	59.66	51	52.33
1973	56.66	66.66	64	58.66	62	55	56.66	57.33	51.66	54.33	55	71.33
1974	65.33	72.33	64.33	66.66	64.66	59.33	57.33	53.33	51	54	58.33	68
1975	67	70.33	67	59.66	56.33	54	55	51	50	16	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	55	-	-	-	-	-
1988	-	-	-	-	54	53	-	-	-	-	-	-
AV.	68.80	73.47	68.19	63.47	60.91	58.66	55.95	54.19	50.86	52.72	57.66	63.66

MONTHLY RELATIVE HUMIDITY
BERORONA STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	70.66	63.66	67.66	65.66	-	-	58	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	72.33	63	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	68.33	67.33	64	66.66	62	-	-	-	76
1974	69.66	74.66	75.66	68	73.66	61.33	68	55.66	55.33	54.66	58.33	73.66
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	70.16	69.16	71.09	66.25	70.5	62.66	64.22	58.83	55.33	54.66	58.33	74.83

MONTHLY RELATIVE HUMIDITY
RETSIOKY STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	68.66	73	64.66	67.66	62.66	62.66	58	48.33	45.66	51.66	44.66	59.66
1970	66	66	61	61	54.33	57	52.66	45	41.33	46	50	53.33
1971	65.66	68.66	61.33	61.33	59.66	57.66	54	49.66	43.33	49.66	50.66	56.66
1972	62.33	70.33	67.33	59	62.33	67.33	59.66	58	49.66	52.33	54.66	43.66
1973	53.66	59.33	56.33	57	63	58.66	61.33	58.33	56.33	48.66	58	69
1974	61.33	64.66	59.66	66.66	75	67.33	68.33	56.66	52	52.33	55	66.66
1975	69.33	67.33	60	61	61.33	60.33	60	52.33	47	50.66	39	69.66
1976	62	66	63.66	66.33	62.66	62.33	56.66	60	49	52.66	51.66	61.33
1977	69.33	63.66	74	68.66	63.33	62.66	59.66	57.66	53	48.33	58.33	63.66
1978	65.66	64	60	70	63	65.66	62.33	56	58.33	50	51.66	66.66
1979	52.33	61.33	57.66	58	63.33	61	59.33	52	54	54	60.33	69.66
1980	63.66	60	58.33	62	35.33	37.33	64.33	52.33	33	31.33	58.66	67.66
1981	65	69	68.66	60	64.33	69.33	58	57.66	64	64.33	58.66	66
1982	74.66	39.66	72	74.66	69.33	32.33	60.33	56.66	27.33	28.66	57	56.33
1983	58.66	67	63.33	67.33	62.33	66	62.33	58.33	24.66	53	30	36
1984	69	73.33	69.66	65.66	62.33	62.66	63	56.66	56	53	31	34
1985	65.33	30.66	67	61	60.33	66.33	58	57.33	57.66	55.66	62.33	62.66
1986	36.66	69	35.66	60.33	59	60.66	63	56.66	59.66	14	39	40
1987	66.33	60	64.66	46.66	60.33	65.33	63	53.33	54.66	59	26.66	60.33
1988	66.33	58.33	61.33	67	58.66	64.33	63	59	55	58.33	60	62.66
AV	65.37	65.43	63.95	64.13	62.85	62.47	60.16	55.16	53.17	53.38	55.96	62.35

MONTHLY RELATIVE HUMIDITY
HIZAHIA STATION IN 1969-1988 (MEAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	73.66	71	64.66	64.33	62	63.33	58.33	53	56.33	57	62.66	65
1971	73.33	53	73	66.33	71	69.33	65.66	54.66	55.66	58	55	65.33
1972	75.33	79.66	79.66	72	72.66	75	64.66	61.33	55.33	60	58.66	53.66
1973	63.33	66	-	-	51.33	67.66	68.33	61	62.33	59	70	73.33
1974	73.33	81.66	-	-	-	-	-	-	-	61	-	68.66
1975	-	76.33	72.66	69	70	70.66	70.33	63.66	57.66	62	-	54
1976	51	-	-	57	76.33	74	72.33	70.66	46	62.66	69.66	47.33
1977	32	52	57	76.33	74	75.66	69.33	51.66	65.66	-	-	-
1978	56.66	-	-	58.33	74	82	81.66	71.33	67	-	-	50.66
1979	30	-	-	-	73	76.33	73.33	69.66	-	-	-	50
1980	51.33	-	-	-	-	73.33	74	-	-	-	-	-
1981	-	-	-	67.66	75	78	76.33	-	-	-	-	-
1982	-	-	-	75.33	79.33	-	-	71.66	-	-	63.66	68
1983	62	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	50	59.33	-	-
1987	-	-	-	-	-	-	-	-	54.66	-	-	-
1988	-	-	-	-	-	-	55.33	51.66	-	-	-	71
AV	58.36	68.52	69.4	67.37	70.78	73.21	69.13	62.30	57.06	59.87	63.27	60.63

MONTHLY RELATIVE HUMIDITY
TOLIARA STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	96	97	93	95	93	94	92	88	93	93	90	83
1970	95	94	92	91	91	90	93	88	94	92	90	89
1971	93	93	93	94	93	90	94	91	92	88	87	92
1972	90	93	92	95	93	91	90	91	91	90	92	89
1973	86	85	86	85	88	87	90	90	92	91	91	91
1974	92	92	90	89	93	92	91	91	91	90	88	96
1975	93	92	90	91	92	91	92	90	91	92	94	93
1976	93	95	93	94	92	92	90	95	96	93	93	88
1977	95	94	94	93	93	93	93	91	91	91	91	96
1978	89	93	90	95	94	94	89	92	91	90	89	90
1979	91	91	89	91	89	88	90	91	89	84	90	91
1980	90	86	86	92	91	89	88	88	91	90	89	90
1981	93	94	94	90	87	93	93	88	92	91	93	92
1982	92	91	93	95	93	93	92	93	90	86	90	92
1983	97	95	92	93	94	92	93	89	93	91	91	92
1984	93	86	92	92	94	92	90	90	87	93	92	88
1985	91	88	91	91	93	93	91	90	95	91	90	93
1986	88	90	94	91	94	88	90	92	87	91	92	94
1987	91	95	94	95	95	97	97	95	97	97	94	93
1988	94	96	98	98	98	97	97	96	96	96	91	94
AV.	92.1	92.5	91.8	92.5	92.5	91.9	91.75	90.95	91.95	91	90.85	91.85

MONTHLY RELATIVE HUMIDITY
TOLIARA STATION IN 1969-1988 (AT 12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	59	59	54	61	49	44	45	38	45	57	54	57
1970	64	61	49	45	40	38	40	37	44	49	57	53
1971	57	62	58	52	50	42	46	40	50	49	50	61
1972	55	54	55	49	54	50	45	51	50	56	61	55
1973	51	55	53	49	49	44	43	38	51	52	58	58
1974	56	54	50	53	51	46	42	45	46	53	50	64
1975	59	59	51	55	47	45	45	36	44	48	57	60
1976	54	60	52	55	50	44	44	57	47	49	54	33
1977	56	56	61	50	47	46	43	44	47	48	54	60
1978	54	55	49	56	51	54	46	44	50	51	50	58
1979	53	53	51	49	42	46	46	46	46	53	56	62
1980	54	49	49	50	46	45	44	41	44	50	51	55
1981	59	60	54	45	41	51	45	39	51	45	57	56
1982	63	52	60	54	50	43	42	42	39	42	52	52
1983	58	60	57	51	48	45	46	46	47	56	61	57
1984	56	53	54	48	51	43	41	41	43	54	58	55
1985	54	49	56	51	44	48	40	37	49	57	48	56
1986	56	53	53	51	48	42	43	44	45	55	61	63
1987	58	57	60	55	51	49	57	49	54	64	65	64
1988	62	67	66	62	51	55	53	51	50	54	60	62
AV.	57.05	56.4	54.6	52.05	48	46	44.8	43.2	47.1	52.1	55.7	57.05

MONTHLY RELATIVE HUMIDITY
TOLIARA STATION IN 1969-1988 (AT 17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	79	80	75	80	74	72	73	64	73	78	75	76
1970	81	78	73	73	71	68	70	67	75	75	74	73
1971	77	79	79	76	76	70	74	70	75	71	71	78
1972	73	77	77	79	79	75	75	76	76	77	78	74
1973	74	72	71	69	71	69	71	67	77	75	76	77
1974	75	75	72	73	77	74	71	73	71	74	73	80
1975	78	77	74	75	73	72	73	68	71	72	70	-
1976	75	79	76	77	74	71	70	79	75	75	75	71
1977	77	77	79	75	74	74	72	69	72	71	74	79
1978	73	75	71	77	77	78	70	72	73	73	72	76
1979	74	74	72	-	-	-	-	-	70	73	74	77
1980	73	-	70	74	71	71	69	68	70	72	73	75
1981	77	79	78	71	67	74	72	67	74	71	77	74
1982	79	74	79	77	75	72	71	71	67	69	74	73
1983	79	79	76	75	74	72	72	71	73	74	77	75
1984	77	81	75	73	76	69	68	67	68	76	77	73
1985	75	70	75	72	72	73	68	66	77	80	77	75
1986	72	73	76	73	74	66	70	72	69	75	78	80
1987	76	78	77	78	77	75	80	75	81	83	80	81
1988	78	84	84	83	78	78	78	77	77	78	77	81
AV.	76.1	76.89	75.35	75.26	74.21	72.26	71.94	70.47	73.2	74.6	75.55	76.21

MONTHLY RELATIVE HUMIDITY
HORONBE STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	95	96	95	97	96	93	93	90	96	95	92	93
1970	95	91	89	91	93	91	93	95	98	93	95	95
1971	96	96	-	95	94	93	94	93	93	94	92	94
1972	94	95	96	96	-	95	94	95	92	94	90	93
1973	91	94	95	92	94	93	-	-	95	94	-	-
1974	-	-	-	-	96	96	94	94	98	94	95	95
1975	93	95	94	94	95	95	94	94	96	95	95	97
1976	96	97	97	97	96	95	94	96	94	93	93	92
1977	96	97	96	94	96	95	94	94	95	93	94	94
1978	93	91	92	94	94	95	92	97	94	92	91	92
1979	91	97	96	91	96	97	94	97	95	96	95	95
1980	95	95	96	98	97	98	98	96	96	94	90	-
1981	90	-	-	-	91	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	92
1987	93	95	94	92	93	90	95	-	-	92	91	90
1988	-	-	-	-	93	94	-	-	-	-	-	-
AV.	92.25	95.66	95.33	93.66	94	94.75	95.66	96.5	95.5	94	92	92.33

MONTHLY RELATIVE HUMIDITY
HORONBE STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	63	67	55	59	49	37	40	30	44	56	50	60
1970	66	52	45	40	39	38	37	38	44	48	60	57
1971	61	65	-	53	50	42	45	41	49	50	54	63
1972	60	68	59	50	-	47	43	46	43	56	49	55
1973	56	58	54	47	45	39	-	-	49	48	-	-
1974	-	-	-	-	57	48	41	38	47	52	56	65
1975	59	61	55	53	44	39	38	35	46	64	53	67
1976	59	66	58	58	53	47	41	54	43	48	55	59
1977	65	61	65	51	45	44	45	41	47	53	55	58
1978	57	61	51	57	43	50	44	40	49	56	53	58
1979	60	65	58	49	44	43	41	43	54	57	64	66
1980	63	59	60	55	46	51	43	43	54	48	55	-
1981	58	-	-	-	44	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	58
1987	60	57	59	53	41	42	49	-	-	50	58	57
1988	-	-	-	-	43	48	-	-	-	-	-	-
AV.	60.25	60.33	59	52.33	43.6	46	44.33	43	54	51.66	59	60.33

MONTHLY RELATIVE HUMIDITY
HORONBE STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	80	82	77	80	76	69	69	72	64	74	76	79
1970	82	73	69	69	72	73	71	72	77	72	78	77
1971	80	83	82	78	75	70	73	71	74	74	74	81
1972	78	83	80	78	77	75	73	75	72	77	70	75
1973	75	78	77	72	74	70	-	-	75	75	-	-
1974	-	-	-	-	81	78	73	70	78	75	76	81
1975	77	80	76	77	74	72	72	72	77	77	82	84
1976	80	85	81	80	79	75	74	80	76	75	77	77
1977	83	83	83	77	77	77	75	73	78	76	76	79
1978	78	79	76	79	76	80	73	77	77	76	74	77
1979	77	85	81	74	77	74	75	78	80	81	72	84
1980	83	81	83	83	79	81	80	79	81	77	76	-
1981	78	-	-	-	75	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	76
1987	77	79	78	79	73	70	77	-	-	72	76	74
1988	75	81	79	77	73	75	74	-	-	78	78	78
AV.	78	81.5	80.25	78.25	75.4	75	76.5	78.5	80.5	77	75.5	78

MONTHLY RELATIVE HUMIDITY
RANOHIRA STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	97	96	96	98	97	96	95	-	-	91	91	95
1970	96	96	93	94	93	95	94	90	92	89	96	93
1971	95	97	96	97	97	96	95	94	-	-	94	96
1972	96	97	97	96	97	97	97	95	93	95	92	91
1973	95	96	97	96	98	97	99	95	92	86	95	97
1974	91	97	95	98	99	98	-	96	-	95	95	-
1975	-	93	95	97	96	97	-	94	-	89	90	92
1976	90	93	93	97	95	95	95	96	90	88	87	92
1977	94	91	96	94	94	95	95	95	90	88	89	91
1978	92	92	91	99	96	95	95	94	-	94	96	98
1979	97	97	-	96	97	93	94	91	-	94	96	98
1980	94	92	92	93	95	94	93	94	-	-	91	92
1981	93	97	96	95	87	96	96	-	-	93	94	91
1982	98	94	98	98	97	95	95	-	-	91	89	88
1983	88	95	94	93	94	94	92	-	-	72	73	87
1984	95	97	96	94	95	96	94	97	93	93	92	84
1985	91	90	96	-	96	96	94	93	89	94	93	94
1986	92	96	93	94	96	95	94	93	87	94	94	96
1987	97	94	96	97	96	97	97	91	87	90	86	90
1988	93	92	89	92	90	91	89	84	-	85	88	88
AV.	94.05	94.9	94.68	95.78	95.25	95.4	94.61	93.25	90.33	90.05	91.05	92.42

MONTHLY RELATIVE HUMIDITY
RANOHIRA STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	52	55	45	46	43	36	30	-	-	32	43	48
1970	59	52	45	38	30	32	30	26	28	29	43	39
1971	55	60	52	40	39	37	34	27	-	-	37	47
1972	50	55	59	40	45	40	40	34	28	32	38	36
1973	47	57	49	48	35	36	39	38	25	26	41	54
1974	48	55	51	50	52	50	-	32	-	25	34	-
1975	-	54	48	45	40	38	-	25	-	26	30	51
1976	41	46	43	48	39	38	33	36	24	33	27	44
1977	53	47	53	41	36	37	37	34	28	30	36	41
1978	43	40	48	43	33	38	39	30	-	44	42	54
1979	55	56	-	48	42	39	25	28	-	44	42	54
1980	49	38	39	38	35	31	35	27	-	-	35	46
1981	41	52	50	39	42	37	31	-	-	38	37	46
1982	65	53	60	54	46	41	36	-	-	35	33	33
1983	35	49	46	38	33	34	33	-	-	33	47	56
1984	56	60	51	42	33	35	31	31	28	35	42	61
1985	42	41	47	-	36	36	30	35	30	30	42	51
1986	43	54	47	38	36	32	31	25	21	35	45	55
1987	54	45	45	44	36	35	38	30	29	30	33	33
1988	49	45	40	35	32	28	29	26	-	28	36	38
AV.	49.31	50.7	48.31	42.89	38.15	36.5	33.38	30.25	26.55	32.5	38.15	46.68

MONTHLY RELATIVE HUMIDITY
RANOHIRA STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	77	80	75	77	75	71	68	-	-	62	63	75
1970	82	78	73	70	64	68	65	65	58	57	72	69
1971	78	83	77	72	73	71	68	63	-	-	66	74
1972	78	83	77	72	73	71	68	63	-	-	66	74
1973	72	79	77	75	70	72	75	70	57	54	69	81
1974	73	80	76	79	81	79	-	66	-	61	66	82
1975	80	82	75	76	71	73	-	62	-	58	62	76
1976	68	74	72	78	72	70	69	70	58	61	56	72
1977	77	72	79	72	67	70	70	66	60	60	65	69
1978	70	69	73	73	67	70	72	63	-	70	71	73
1979	79	80	-	-	77	75	70	64	59	-	69	77
1980	75	68	70	67	71	67	70	62	-	-	67	74
1981	69	81	79	71	-	71	67	-	-	69	68	74
1982	86	78	85	81	78	74	71	-	-	66	66	63
1983	65	76	74	69	65	68	66	-	-	59	59	74
1984	79	84	80	73	69	71	66	66	63	65	70	74
1985	70	69	76	-	71	70	66	67	62	64	72	77
1986	71	80	75	71	69	68	66	62	54	60	74	80
1987	79	73	75	75	70	68	71	61	56	60	60	65
1988	73	71	68	64	63	61	60	54	-	57	63	65
AV.	75.05	77	75.57	73.05	70.84	70.4	68.38	64.41	58.55	61.73	66.2	73.4

MONTHLY RELATIVE HUMIDITY
SAKARANA FOREST STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	92	92	95	95	96	94	94	88	81	79	63	78
1970	85	87	87	81	84	87	83	81	82	76	73	77
1971	88	92	88	86	88	85	85	85	82	78	77	83
1972	89	81	89	83	88	85	82	83	86	79	80	79
1973	86	82	84	84	82	81	80	94	86	78	76	82
1974	78	85	81	86	86	83	84	80	78	80	-	-
1975	-	-	92	90	93	92	-	-	-	-	75	-
1976	87	90	96	94	92	93	89	92	84	72	73	79
1977	85	83	91	93	90	90	58	58	82	74	72	83
1978	96	80	92	93	91	-	86	-	-	77	69	76
1979	81	91	91	91	91	89	87	91	79	73	72	86
1980	83	-	90	91	92	88	88	84	81	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	90	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	86	90	96	97	-	-	-	93	-	-	-	-
1987	94	94	-	96	95	95	91	91	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	86.15	87.69	90.15	90.21	89.84	88.25	83.91	85.25	82.1	77.6	73	80.33

MONTHLY RELATIVE HUMIDITY
SAKARANA FOREST STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	52	62	52	50	46	33	36	30	26	30	30	43
1970	52	50	44	38	36	38	32	23	23	25	36	39
1971	48	57	47	47	46	46	36	32	21	28	59	17
1972	49	59	51	49	47	62	50	51	34	42	14	39
1973	39	17	44	53	66	69	62	36	28	28	29	37
1974	32	17	42	50	61	55	50	49	57	44	-	-
1975	-	-	49	47	49	43	-	-	-	-	-	-
1976	50	51	48	57	50	43	47	44	30	31	36	46
1977	57	55	65	50	52	41	42	38	26	50	32	47
1978	47	49	42	46	44	-	42	-	-	32	32	16
1979	47	50	51	47	44	47	49	37	33	31	43	56
1980	50	40	44	50	47	40	38	29	33	39	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	53	70	53	44	41	-	-	-	-	-	-	53
1987	60	50	-	52	42	43	47	34	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	48.92	52.84	48.84	48.57	50.07	48.83	46.75	36.63	31.2	34.54	37.88	45.3

MONTHLY RELATIVE HUMIDITY
SAKARANA FOREST STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	75	78	77	67	57	46	41	37	30	35	33	57
1970	67	60	51	50	42	47	34	30	26	33	49	57
1971	65	72	65	51	54	53	43	36	28	36	50	58
1972	68	72	73	61	58	68	56	61	35	45	50	51
1973	57	62	58	66	66	70	61	40	35	33	-	52
1974	47	62	52	50	65	59	54	54	56	51	-	-
1975	-	-	62	52	48	47	-	-	-	-	-	43
1976	63	66	56	66	56	49	48	53	27	37	45	65
1977	65	65	70	57	62	47	46	40	30	31	50	63
1978	57	59	51	61	-	-	55	-	-	44	41	59
1979	55	62	63	54	51	52	48	37	35	38	51	71
1980	57	51	48	55	50	44	42	32	42	42	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	71	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	63	73	63	56	47	-	-	53	-	-	-	68
1987	73	55	-	60	51	50	52	42	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	62.46	61.92	60.69	57.57	54.46	52.66	48.25	42.91	35.4	40.45	46.12	58.54

MONTHLY RELATIVE HUMIDITY
ANKAZOABO SUD STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	84	87	88	90	84	82	80	80	71	-	72	79
1970	89	86	82	80	77	83	76	78	72	70	74	74
1971	84	90	89	86	84	82	83	75	64	73	79	78
1972	79	86	88	84	84	91	80	78	59	69	67	66
1973	72	80	83	76	84	73	79	75	65	70	70	82
1974	79	85	82	86	82	83	80	76	68	73	75	81
1975	80	83	82	79	77	69	77	71	66	63	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	86	-	-	-	-	-
1988	-	-	-	-	87	83	-	-	-	-	-	88
AV.	81	85.28	84.85	83	82.37	80.75	80.12	76.14	66.42	69.66	72.83	78.28

MONTHLY RELATIVE HUMIDITY
ANKAZOABO SUD STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	62	68	56	59	52	51	43	39	35	38	46	55
1970	70	64	54	48	44	43	41	44	42	43	46	51
1971	64	63	62	52	50	43	43	39	34	47	58	53
1972	58	73	63	50	52	50	41	37	33	38	42	43
1973	45	58	51	48	50	45	44	48	45	46	43	64
1974	56	66	53	54	53	45	45	41	43	46	43	57
1975	58	60	56	48	45	45	43	40	42	36	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	38	-	56
1987	59	-	-	-	-	38	38	-	-	-	-	37
1988	53	53	44	-	36	38	-	24	-	-	-	-
AV.	58.33	63.12	54.87	51.28	47.75	44.22	42.25	39	39.14	41.5	46.33	52

MONTHLY RELATIVE HUMIDITY
ANKAZOABO SUD STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	73	77	68	68	61	56	47	44	39	41	51	65
1970	79	70	56	52	50	48	42	59	46	48	55	59
1971	73	76	70	57	56	49	47	42	34	53	64	57
1972	63	75	70	52	57	66	48	38	33	45	44	48
1973	53	62	58	52	52	47	47	40	45	47	52	68
1974	61	66	58	60	59	50	47	43	42	43	57	66
1975	63	68	63	52	47	48	45	42	42	39	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	48	-	-
1987	-	-	-	-	-	44	41	-	-	-	-	55
1988	64	62	68	-	39	38	-	28	-	-	-	-
AV.	66.12	69.5	63.87	56.14	52.62	49.55	45.5	43.12	40.14	45.5	53.83	59.71

MONTHLY RELATIVE HUMIDITY
BERORONA STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	80	60	87	81	73	-	72	-	-	-	-	89
1970	94	-	86	87	89	92	-	88	84	82	91	90
1971	91	92	91	85	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	91	90	85	91	88	90	83	-	-	-	87
1974	85	89	91	83	92	91	91	81	75	76	71	85
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	89.5	83	89	81.2	86.25	90.33	84.33	84	79.5	79	82.5	87.75

MONTHLY RELATIVE HUMIDITY
BERORONA STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	62	63	58	60	-	-	52	-	-	-	-	-
1970	-	-	-	59	-	59	-	-	-	-	-	-
1971	74	72	61	55	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	59	56	52	56	53	-	-	-	67
1974	62	63	61	53	63	46	56	43	46	41	46	63
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	66	66	61	57.2	59.5	52.33	54.66	48	46	41	46	65

MONTHLY RELATIVE HUMIDITY
BERORONA STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	62	68	58	56	-	-	50	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	65	49	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	61	55	52	51	50	-	-	-	74
1974	62	72	72	68	66	47	57	43	45	47	55	73
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	62	70	65	58.5	60.5	49.5	53.66	46.5	45	47	55	73.5

MONTHLY RELATIVE HUMIDITY
BETSIOKY SUB STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	83	87	87	91	90	91	88	77	77	75	64	73
1970	81	83	79	83	82	84	86	71	66	68	70	68
1971	79	84	82	87	88	87	86	79	73	75	72	71
1972	78	84	89	89	92	91	92	91	79	75	75	63
1973	70	78	82	80	90	92	93	86	84	72	75	81
1974	79	85	82	87	96	92	90	87	83	75	78	81
1975	85	86	84	89	92	88	92	84	74	77	79	81
1976	83	84	81	91	90	93	86	91	75	74	79	78
1977	84	81	90	88	90	92	87	86	79	73	75	76
1978	86	85	77	90	94	92	91	87	84	78	69	78
1979	86	80	79	82	87	85	86	83	79	79	77	80
1980	82	81	82	83	-	-	90	80	-	-	78	85
1981	83	86	89	81	87	92	88	85	89	88	78	84
1982	85	-	89	92	92	-	90	87	-	-	86	85
1983	85	92	88	94	89	93	91	91	-	77	-	-
1984	85	91	89	93	90	90	94	87	89	74	-	-
1985	83	-	90	87	90	97	91	88	89	84	86	83
1986	-	87	-	93	94	94	92	86	84	-	-	-
1987	85	87	89	86	89	92	93	87	81	88	-	89
1988	86	79	90	91	89	91	87	90	89	88	84	85
AV.	82.52	84.44	85.15	87.85	90.05	90.88	89.85	85.3	80.82	77.64	76.56	79.05

MONTHLY RELATIVE HUMIDITY
BETSIOKY STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	55	61	49	51	45	44	41	33	29	35	32	46
1970	58	55	47	45	38	42	35	31	28	31	34	40
1971	54	56	48	46	43	39	38	33	26	33	35	44
1972	50	59	54	42	44	49	42	42	31	39	42	31
1973	43	46	43	44	46	43	45	43	40	30	45	56
1974	55	56	50	61	71	58	52	42	38	43	48	63
1975	58	55	48	47	45	45	41	36	30	32	38	57
1976	45	47	50	49	43	42	40	42	31	38	31	47
1977	58	48	61	51	42	45	43	42	38	35	44	51
1978	52	47	49	56	47	49	46	36	43	27	39	56
1979	-	50	44	42	49	46	44	34	39	38	47	59
1980	50	47	41	48	50	54	49	37	46	45	43	51
1981	50	54	54	47	51	55	42	43	48	47	42	50
1982	61	57	61	66	54	45	44	41	40	41	40	39
1983	40	49	48	50	47	53	46	41	36	38	38	47
1984	51	57	58	49	47	45	44	39	36	35	37	44
1985	46	43	51	46	42	50	42	42	40	36	45	49
1986	52	54	50	41	40	41	47	41	48	42	51	56
1987	55	45	46	54	45	50	47	36	40	40	37	39
1988	52	51	45	51	43	51	52	43	37	39	45	49
AV.	51.84	51.85	49.85	49.3	46.6	47.3	44	38.85	37.2	37.2	40.65	46.7

MONTHLY RELATIVE HUMIDITY
BETSIOKY SUB STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	68	71	58	61	53	53	45	35	31	45	38	60
1970	59	60	57	55	43	45	37	33	30	39	46	52
1971	64	66	54	51	48	47	38	37	31	41	45	52
1972	59	68	59	46	51	62	45	41	39	43	47	37
1973	48	54	44	47	53	41	46	46	45	44	54	70
1974	50	53	47	52	58	52	63	41	35	39	39	56
1975	65	61	48	47	47	48	47	37	37	43	-	71
1976	58	67	60	59	55	52	44	47	41	46	45	59
1977	66	62	71	67	58	51	49	45	42	37	56	64
1978	59	60	54	64	48	56	50	45	48	45	47	66
1979	71	54	50	50	54	52	48	39	44	45	57	70
1980	59	52	52	55	56	58	54	40	53	49	55	67
1981	62	67	63	52	55	61	44	45	55	58	56	64
1982	78	62	66	66	62	52	47	42	42	45	45	45
1983	51	60	54	58	51	52	50	43	38	44	52	61
1984	68	72	62	55	50	53	51	44	43	50	56	58
1985	67	49	60	50	49	52	41	42	44	47	56	56
1986	58	66	57	47	43	47	50	43	47	-	66	64
1987	59	48	59	-	47	54	49	37	43	49	43	53
1988	61	45	49	59	44	51	50	44	39	48	51	54
AV.	61.75	60	56.85	55.26	51.9	52.25	46.85	41.35	41.5	45.31	50.68	59.3

MONTHLY RELATIVE HUMIDITY
BEZABA STATION IN 1969-1988 (AT 7:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	88	88	86	87	89	88	87	82	85	80	81	82
1971	87	90	91	89	93	91	90	86	88	83	81	85
1972	89	92	91	89	94	93	93	90	86	87	81	73
1973	81	82	-	-	96	89	87	85	67	85	87	90
1974	83	94	-	-	-	-	-	-	-	84	-	87
1975	-	92	95	93	95	94	93	94	89	91	91	92
1976	91	93	96	96	97	97	95	96	94	92	94	95
1977	96	97	97	97	98	98	97	97	97	-	-	95
1978	94	-	96	97	95	95	98	97	92	-	-	87
1979	90	-	-	-	88	91	90	87	-	-	-	87
1980	89	91	-	91	-	92	90	-	-	-	87	-
1981	91	94	93	93	96	97	98	-	-	-	-	-
1982	-	94	95	96	98	-	-	97	87	-	92	88
1983	87	93	94	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	88	83	-	-
1986	-	-	-	-	-	-	-	-	91	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	74	88	-	-	-	90
AV.	89	91.66	93.6	92.8	94.45	93.18	91	90.81	89.45	85.62	87.12	87.58

MONTHLY RELATIVE HUMIDITY
BEZABA STATION IN 1969-1988 (12:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	65	63	54	52	47	50	43	42	42	42	50	50
1971	65	69	62	50	61	57	52	40	38	42	33	50
1972	60	66	68	59	59	64	52	47	40	42	45	41
1973	54	55	-	-	58	57	53	48	44	42	54	61
1974	68	68	-	-	-	-	-	-	-	46	-	53
1975	-	65	57	52	51	56	54	48	39	43	-	-
1976	-	-	-	-	57	58	58	54	44	46	50	47
1977	-	-	-	62	62	62	54	58	46	-	-	-
1978	-	-	-	-	56	72	69	54	53	-	-	-
1979	-	-	-	-	61	64	61	53	-	-	-	-
1980	-	-	-	-	-	58	62	-	-	-	-	-
1981	-	-	-	51	56	63	62	-	-	-	-	-
1982	-	-	-	62	61	-	-	57	-	-	41	46
1983	47	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	29	41	-	-
1987	-	-	-	-	-	-	-	-	33	-	-	-
1988	-	-	-	-	-	-	41	34	-	-	42	56
AV.	59.83	64.33	60.25	55.42	57.45	60.09	55.08	48.63	40.8	43	45	50.5

MONTHLY RELATIVE HUMIDITY
BEZABA STATION IN 1969-1988 (17:00)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	-	-	-	-	-	-	-	-	-	-	-	-
1970	66	62	54	54	50	52	45	41	42	49	57	63
1971	68	-	66	60	59	60	55	38	41	49	51	61
1972	77	81	80	68	65	68	49	47	40	51	47	47
1973	55	61	-	-	-	57	65	50	56	50	69	69
1974	67	83	-	-	-	-	-	-	-	53	-	66
1975	-	72	66	62	61	62	64	49	45	52	-	70
1976	62	-	-	75	75	67	61	62	-	50	65	-
1977	-	59	74	70	62	67	57	-	54	-	-	-
1978	76	-	-	78	71	79	78	63	56	-	-	65
1979	-	-	-	-	70	74	69	69	-	-	-	63
1980	65	-	-	-	-	70	70	-	-	-	-	-
1981	-	-	-	59	73	74	69	-	-	-	-	-
1982	-	-	-	68	76	-	-	61	-	-	58	70
1983	52	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	33	54	-	-
1987	-	-	-	-	-	-	-	-	40	-	-	-
1988	-	-	-	-	-	-	51	42	-	-	57	67
AV.	65.55	69.66	68	66	66.5	66.36	61.33	52.2	45.22	51	57.71	64.1

COLLECTED RECORD; TEMPERATURE

MONTHLY TEMPERATURE (MAX.) TOLIARA STATION IN 1969-1988

YEAR	MONTHLY TEMPERATURE (MAX.)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	32.3	32.7	32.6	30.4	28.4	26.2	26.9	28.4	27.2	29.9	30.5	31.4
1970	31.7	31.6	32.3	30.1	29.5	28.3	27.4	29.1	29.4	29.2	29.9	31.6
1971	32	31	31.2	31.4	28.4	26.7	27.1	27.9	28.5	29.2	29.2	30.6
1972	32.1	32.2	31.3	30.8	29.4	25.4	26.4	26.2	28.4	29.1	28.8	31.8
1973	32.9	31.9	32.8	31	28.1	26.6	26.7	28.2	27.6	29.8	29.6	30.8
1974	32	31.9	32.5	29.7	28.5	27.2	27.1	27.2	27.4	28.1	30.7	30.6
1975	31.7	30.9	31.4	30.5	28.3	27.2	26.1	27.7	27.9	28.7	30.4	30.9
1976	32.6	32	32.8	30.9	28.7	27.2	26.6	25.8	28.6	29.8	31.2	32
1977	32.9	33.1	31.2	30.5	28.9	27.3	27.3	27	29.1	30.2	30.5	32.3
1978	34.1	33.5	34.2	30.4	28.1	27	25.9	28.7	28.3	30.4	31	31.4
1979	31.8	33.4	33.1	30.6	29.4	26.6	26.7	27.2	28.8	29.3	29.8	30.7
1980	32.6	-	33	31.3	28.7	26.2	26.8	28.1	29	29.6	32	32.3
1981	33.1	32.4	31.8	30.6	29.2	25.3	25.5	27.4	28.2	27.9	30	31.1
1982	31.7	33.5	31.3	30	27.9	28.6	28.4	27.6	28.6	29.5	30.3	31
1983	32.8	33	33.2	31.6	30.3	29.1	28.3	27.6	29.2	29.1	31.3	31.9
1984	33.4	31.8	32	31.5	29.5	27.8	28.1	27.1	28.5	29.9	30.6	31.8
1985	33.3	34.1	31.5	29.9	28.9	26.7	27.2	29.1	29.9	30.1	31.7	31.1
1986	32.7	32.8	32.5	31.5	29.1	26.5	26.4	27.3	28.1	28.5	30.3	31.1
1987	31.4	32.5	31.4	30.6	28.9	25.9	25.8	28.1	29.7	28.5	30.8	32.6
1988	33.4	32.8	32.5	31.8	30.3	28.2	27.9	28.4	29.3	30.2	29.6	30.6
AV.	32.52	32.47	32.23	30.75	28.92	27	26.93	27.70	28.58	29.35	30.41	31.38

MONTHLY TEMPERATURE (MIN.) TOLIARA STATION IN 1969-1988

YEAR	MONTHLY TEMPERATURE (MIN.)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	23.2	23.5	22.2	21.1	17.3	14.1	14.5	15.3	14.3	19.7	20.6	22.7
1970	23.3	23.4	20.9	18.3	16.1	14.9	13.8	15.2	16.4	18.6	20.6	22.4
1971	22.7	23	21.5	20.3	17	14	14.3	14.5	15.4	18.2	19.4	21.3
1972	22.3	23.2	21.7	19.2	18.2	14.8	14.3	14.3	16.1	18.2	18.5	22.1
1973	23.5	23.4	22.8	20.8	17	15	14.4	15.4	16.6	19	20.9	22.1
1974	22.6	22.4	22.4	20.1	18.3	15.8	14.8	14.4	15.4	18.2	21.2	22.7
1975	23.1	22.1	21.1	20.2	16.6	15.5	14.3	14.5	15.2	17.7	19.8	22
1976	22.6	22.9	22.6	20.8	17.4	14.8	13.9	14.4	15.5	18.5	20.2	22.1
1977	23	23.3	22	18.8	16.5	14.5	14.9	14	17.1	19	20.4	23
1978	24	23.5	23	19.7	15.8	16	13.6	15.1	16.8	19.8	20.1	22.2
1979	21.1	23.2	22.6	19.4	17.3	14.6	15.1	14.8	17.3	18.7	20.1	22
1980	22.2	-	22.1	20	17	14	14.5	15	17.3	18.4	21.3	23.2
1981	23.7	23.1	21.4	19	17.5	14	12.8	13.8	17.2	17.5	20.7	22.2
1982	23.4	23.5	22.6	20	17.2	16.1	15.7	14.4	16	18.1	20.1	21.1
1983	23	23.7	22.8	20.8	18.7	17.2	15.6	15	16.4	18.5	20.6	23
1984	24.1	23.5	22.1	20.5	17.8	16.1	15.6	15.1	16.5	18.9	21.2	22.6
1985	22.8	23.7	22.1	19.9	16.7	15.2	14.6	16	18.1	19.5	20.8	22
1986	23.6	23.4	22.6	20.4	16.9	13.7	13.6	14.4	15	18.9	20.6	22.2
1987	22.8	23.1	21.8	20.7	17	13.5	15.2	15.4	17.8	17.9	21	23.5
1988	23.8	23.1	22.2	21.4	17	15.3	14.9	15	15.8	19.3	19.7	20.9
AV.	23.03	23.21	22.12	20.07	17.16	14.95	14.52	14.8	16.31	18.63	20.39	22.26

MONTHLY TEMPERATURE (MEAN.) TOLIARA STATION IN 1969-1988

YEAR	MONTHLY TEMPERATURE (MEAN.)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	27.75	28.1	27.4	25.75	22.85	20.15	20.7	21.85	20.75	24.8	25.55	27.05
1970	27.5	27.5	26.6	24.2	22.8	21.6	20.6	22.15	22.9	23.9	25.25	27
1971	27.35	27	26.35	25.85	22.7	20.35	20.7	21.2	21.95	23.7	24.3	25.95
1972	27.2	27.7	26.5	25	23.8	20.1	20.35	20.25	22.25	23.65	23.65	26.95
1973	28.2	27.65	27.8	25.9	22.55	20.8	20.55	21.8	22.1	24.4	25.25	26.45
1974	27.3	27.15	27.45	24.9	23.4	21.5	20.95	20.8	21.4	23.15	25.95	26.65
1975	27.4	26.5	26.25	25.35	22.45	21.35	20.2	21.1	21.55	23.2	25.1	26.45
1976	27.6	27.45	27.7	25.85	23.05	21	20.25	20.1	22.05	24.15	25.7	27.05
1977	27.95	28.2	26.6	24.65	22.7	20.9	21.1	20.5	23.1	24.6	25.45	27.65
1978	29.05	28.5	28.6	25.05	21.95	21.5	19.75	21.9	22.55	25.1	25.55	26.8
1979	26.45	28.3	27.85	25	23.35	20.6	20.9	21	23.05	24	24.95	26.35
1980	27.4	-	27.55	25.65	22.85	20.1	20.65	21.55	23.15	24	26.65	27.75
1981	28.4	27.75	26.6	24.8	23.35	19.65	19.15	20.6	22.7	23.7	25.35	26.65
1982	27.55	28.5	26.95	25	22.55	22.35	22.05	21	22.3	23.8	25.2	26.05
1983	27.9	28.35	28	26.2	24.5	23.15	21.95	21.3	22.8	23.8	25.95	27.45
1984	28.75	27.65	27.05	26	23.65	21.95	21.85	21.1	22.5	24.4	25.9	27.2
1985	28.05	28.9	26.8	24.9	22.8	20.95	20.9	22.55	24	24.8	26.25	26.55
1986	28.1	28.1	27.55	25.95	23	20.1	20	20.85	21.55	23.7	25.45	26.65
1987	27.1	27.8	26.6	25.65	22.95	19.7	20.5	21.75	23.75	23.2	25.9	28.05
1988	28.6	27.95	27.35	26.6	23.65	21.75	21.4	21.7	22.55	24.75	24.65	25.75
AV.	27.78	27.84	27.17	25.41	23.04	20.97	20.72	21.25	22.44	23.99	25.4	26.82

MONTHLY TEMPERATURE (MAX.)
MORONBE STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	31.5	31.4	32.5	30.8	29.2	27.7	28.5	29.7	27.9	30.3	30.9	30.8
1970	31.1	32.1	32.3	30.6	29.9	28.8	27.9	29.3	29.6	30.1	30.7	31.7
1971	31.5	30.3	30.5	30.9	28.5	27	27.1	27.8	28.1	29	29.3	29.7
1972	31.4	29.6	30.9	30.8	29.7	25.8	27.1	26.9	28.7	29.3	29.6	32.1
1973	32.7	31.7	32.6	31.5	28.7	28.1	-	-	27.8	30.2	-	-
1974	-	-	-	-	28	27.1	27.2	27.7	28.2	29	30.7	30.2
1975	31.3	30.1	31.1	30.6	28.9	28.5	27.1	28	29.1	29.2	30.1	31.3
1976	32.2	31	32.4	31.1	29.1	27.7	27.4	26.1	29.1	29.9	31.7	31.5
1977	31.5	32	30.7	30.3	29	27.5	28.1	28.2	29.6	30.6	30.6	32.2
1978	31.6	31.6	32.1	30.8	29	27.3	27	28	29	29.6	30	31.3
1979	31.1	31.6	32.1	30.8	29	27.3	27	28	29	29.6	30	31.3
1980	31.8	32.6	32.4	31.5	29.9	27.4	27.6	28.2	29.1	30	31.9	-
1981	32.8	31.3	31.8	30.6	28.9	-	-	-	-	-	-	-
1982	30	31.9	30.7	30	28.4	-	-	28.4	28.9	29.6	29.4	-
1983	31.4	32.1	32	30.5	29.5	28.9	28.4	27.1	28.7	29.8	-	-
1984	30.1	28.9	28.9	28.1	27.8	25.4	25.4	-	-	-	29.8	30.8
1985	31.4	32.7	30.7	29.8	30.7	-	-	-	-	-	-	-
1986	-	32	31.9	-	29.8	27.8	27	28	29.1	28.8	30.5	31.5
1987	31.8	32.7	32.3	31.5	30.9	27.2	27	-	29.7	29.4	31.5	32.9
1988	32.9	32.1	32.5	32	30.9	28.5	28.5	28.5	-	30.6	30.6	30.4
AV.	31.67	31.45	31.6	30.66	29.29	27.52	27.39	27.99	28.85	29.70	29.83	31.26

MONTHLY TEMPERATURE (MIN.)
MORONBE STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	23.2	24	22.2	20.8	16.7	13.5	14.6	15.3	14	19.6	20.6	22.6
1970	23.5	22.6	21.2	18.4	15.8	15.1	14	15.3	16.9	18.7	20.7	22.6
1971	23	22.9	21.7	20.3	17.1	13.3	14.8	14	15.2	17.9	18.9	21.3
1972	22.3	23.1	21.4	19.1	18	14	14	13.4	15.9	18.3	18.7	22.4
1973	23.6	22.7	22.7	20.5	16.1	14.2	-	-	16.1	19.3	-	-
1974	-	-	-	-	17.8	15.6	14.2	13.5	15.2	18	20.6	22.6
1975	22.6	21.8	21	19.5	16	14.5	13.3	14.3	16	17.8	19	22.1
1976	22.3	22.8	22.6	20.5	16.7	14.2	14.3	14.8	15.7	18.7	20.7	22.3
1977	23.1	23.4	21.9	18.6	16.7	14.5	14.5	15.1	16.7	18.9	20.3	23.1
1978	24	23.7	22.7	19.8	15.9	15.8	13.8	14.8	16.8	20.2	20.5	22.6
1979	22	23.4	22.6	19.7	16.8	14.7	15	15.4	18.1	18.5	20.8	22.7
1980	22.6	22.8	22.5	20.7	17.8	14.7	15	15.4	17.9	19	22.3	-
1981	24.2	23.6	21.7	19.2	16.6	-	-	-	-	-	-	-
1982	23.7	23.2	23	19.9	17.2	-	-	15.4	16.7	18.9	20.3	-
1983	22.5	23.9	22	19	17.7	16.4	15.5	14	15.9	17.8	19.4	-
1984	22.7	23	20.5	17.3	16.7	13.1	12.9	-	-	-	21.8	23
1985	22.6	22.8	-	-	22.4	-	-	-	-	-	-	-
1986	-	22.7	22.2	-	16.5	13.2	12.5	12.9	14.3	18.7	20.2	22.1
1987	22.5	22.7	21.9	20.2	16.9	13.1	14.1	-	17.5	17.4	21	23.9
1988	23.8	23.4	23	21.8	17	15.4	15.5	14.3	-	19.4	20.5	21.8
AV.	23.01	23.07	22.04	19.72	17.12	14.42	14.25	14.52	16.18	18.65	20.37	22.50

MONTHLY TEMPERATURE (MEAN.)
MORONBE STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	27.35	27.7	27.35	25.8	22.95	20.6	21.55	22.5	20.95	24.95	25.75	26.7
1970	27.3	27.35	26.75	24.5	22.85	21.95	20.95	22.3	23.25	24.4	25.7	27.15
1971	27.25	26.6	26.1	25.6	22.8	20.15	20.95	20.9	21.65	23.45	24.1	25.5
1972	26.85	26.35	26.15	24.95	23.85	19.9	20.55	20.15	22.3	23.8	-	27.25
1973	28.15	27.2	27.65	26	22.4	21.15	-	-	21.95	24.75	-	-
1974	-	-	-	-	22.9	21.35	20.7	20.6	21.7	23.5	25.65	26.4
1975	26.95	25.95	26.05	25.05	22.45	21.5	20.2	21.15	22.55	23.5	24.55	26.7
1976	27.25	26.9	27.5	25.8	22.9	20.95	20.85	20.45	22.4	24.3	26.2	26.9
1977	27.3	27.7	26.3	29.45	22.85	21	21.3	21.65	23.15	24.75	25.45	27.65
1978	28.8	27.65	27.4	25.3	22.45	21.55	20.4	21.4	22.9	24.9	25.25	26.95
1979	26.55	27.5	27.35	25.25	22.9	21	21	21.7	23.55	24.05	25.1	27
1980	27.2	27.7	27.45	26.1	23.85	21.05	21.3	21.8	23.5	24.5	27.1	-
1981	28.5	27.45	26.75	24.9	22.75	-	-	-	-	-	-	-
1982	26.85	27.55	26.85	24.95	22.8	-	-	21.9	22.8	24.25	24.85	-
1983	26.95	28	27	24.75	23.8	22.65	21.95	20.55	22.3	23.8	9.7	-
1984	26.4	25.95	24.7	22.7	22.25	19.25	19.15	-	-	-	25.8	26.9
1985	27	27.75	-	-	26.55	-	-	-	-	-	-	-
1986	-	27.35	27.05	-	23.15	20.5	19.75	20.45	21.7	23.75	25.35	26.8
1987	27.15	27.7	27.1	25.85	23.9	20.15	20.55	-	23.6	23.4	26.25	28.4
1988	28.35	27.75	27.75	26.9	23.95	21.95	22	21.4	-	25	25.55	26.1
AV.	27.34	27.26	26.84	25.52	23.20	20.97	20.82	21.26	22.51	24.17	24.54	26.88

MONTHLY TEMPERATURE (MAX.)
RANOHIRA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	29.3	29.2	30.3	29.3	-	23.5	25.3	-	-	32.6	33.1	30.3
1970	28	29.1	28.6	27.5	27.2	24.9	25.1	26.5	29.5	31	29.8	30.1
1971	28.2	27.8	28.6	29.3	26.4	23.9	25	25.8	-	-	28.9	29.4
1972	29.1	27.8	27.7	28.5	27.2	22.5	23.9	25.3	28.3	29.6	29.4	31.7
1973	30.8	29	30	27.8	26.7	24.7	23.9	25	29.1	32.1	30.3	28.2
1974	29.9	28.7	28.5	27.8	25.6	23.8	-	26.1	-	30.8	31	28.2
1975	29.2	28.4	28.9	29.2	25.9	24.9	-	25.6	-	29.8	31.2	28.8
1976	30.6	29.7	30	28.6	26.1	24.3	24.2	25.3	28.3	28.7	32.7	30.3
1977	29.2	29.8	28.7	27.8	27	25.3	25	26.2	29.5	31.3	30.7	31.1
1978	31.4	32.2	28.7	28.3	27.6	25.7	23.3	27.5	28.7	32	31.3	29.5
1979	30.3	29.6	-	-	26.1	23.6	23.9	26.9	29.3	-	30	28.8
1980	29.2	31.3	30.5	29.5	26.3	24.4	24	25.7	28.4	30.7	31.1	29.5
1981	31.8	29.1	28.7	28.5	25.3	23.3	23.5	26.3	-	27.5	30.2	30
1982	27.5	29.2	27.9	27.2	24.9	25.1	24.7	25.7	27.2	29.1	30.7	30.7
1983	31.7	30.4	30.3	29.4	27.9	25.8	24.9	24.8	28.6	29.9	32	29.4
1984	28.6	28.4	28.8	28.7	27.3	25	24.8	24.7	28	28.9	29.7	29.5
1985	30.9	31	29.7	28.1	26.5	24.6	25.3	26.2	29.4	30.5	28.8	28.7
1986	30.6	29.2	29.9	29	26.5	22.8	23.4	26.4	29	28.8	29.3	29
1987	28.7	29.9	30.2	28.4	27	23.3	24.8	25.9	29.7	29.2	31.2	32.3
1988	29.6	30.5	30.2	30.6	-	26.6	25.5	26.8	29.4	30.7	29	28.9
AV.	29.73	29.51	29.27	28.60	26.52	24.40	24.47	25.93	28.82	30.16	30.52	29.72

MONTHLY TEMPERATURE (MIN.)
RANOHIRA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	19	19.7	18.3	17.5	-	9.3	10.9	-	-	16.7	17.9	18.9
1970	19.3	19	17.2	13.9	12.1	10.6	9.8	11.2	12	14.2	17.1	18
1971	18.4	18.7	17.6	15.8	12.7	10	10.8	10.3	-	-	15.6	17.4
1972	17.9	18.5	17.4	15.1	14.6	8.8	10.4	10.6	12.3	15.2	16.1	18.4
1973	19.2	18.9	18.6	16.1	12.9	11	10.3	10.8	12.8	16.2	18.5	18.6
1974	18.5	18.8	17.8	16.1	14.3	11.6	-	11.2	-	15.5	17.9	19
1975	19.1	18.8	17.7	17	12.6	11.8	-	11.2	-	15.6	17.7	18.8
1976	18.5	18.8	18.3	17	13.5	10.5	10.3	11.9	12.8	15.2	16.3	18.8
1977	19.4	19.3	18.4	15.3	13.2	11.1	11.1	10.9	13.8	16.4	17.5	19.2
1978	19.8	19.7	18.1	15.9	12.9	12.3	10.4	12	13.7	16.9	17.6	18.7
1979	18.4	19.1	-	-	12.7	9.9	11.1	11.1	14	-	17.7	18.6
1980	18.7	18.9	18.3	16.4	13.3	9.8	10.9	11.4	13.5	15.4	18.2	18.9
1981	19.9	19.5	18.2	15	13.7	9.8	8.9	10.7	-	14.5	17.6	18.2
1982	19.3	19	18.3	16	13	12.8	11.4	11	12.5	15.1	17.3	17.9
1983	19	19.8	19	16.6	14.2	12.6	11.7	10.8	12.6	15.2	17.7	18.9
1984	19.1	19.4	17.8	16	13.2	11.2	10.8	10.3	12.5	15.4	17.1	18.6
1985	19.3	18.9	18	14.7	12.3	10.9	10.5	12	14.8	15.8	17.2	18
1986	18.5	19	17.8	16.4	12.8	8.9	9.1	11.4	12.3	16	17.7	18.6
1987	19.1	18.6	17.8	16.4	13.2	9.3	11.3	11.5	14.7	15.7	17.9	20.1
1988	20.1	19.3	18.3	17.4	-	12.1	10.7	11.3	13.1	16.6	17	17.7
AV.	19.02	19.08	18.04	16.03	13.17	10.71	10.56	11.13	13.16	15.64	17.48	18.56

MONTHLY TEMPERATURE (MEAN.)
RANOHIRA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	24.15	24.45	24.3	23.4	-	16.4	18.1	-	-	24.65	25.5	24.6
1970	23.65	24.05	22.9	20.7	19.65	17.75	17.45	18.85	20.75	22.8	23.45	24.05
1971	23.3	23.25	23.1	22.55	19.55	16.95	17.9	18.05	-	-	22.25	23.1
1972	23.5	23.15	22.55	21.8	20.9	15.65	17.15	17.95	20.3	22.4	22.75	25.05
1973	25	23.95	24.3	21.95	19.8	17.85	17.1	17.9	20.95	24.15	24.4	23.4
1974	24.2	23.75	23.15	21.95	19.95	17.7	-	18.65	-	23.15	24.45	23.6
1975	24.15	23.6	23.3	23.1	19.25	18.35	-	18.4	-	22.7	24.45	23.8
1976	24.55	24.25	24.15	22.8	19.8	17.4	17.25	18.6	20.55	21.95	25.5	24.55
1977	24.3	24.55	23.55	21.55	20.1	18.25	18.05	18.55	21.65	23.85	24.1	25.15
1978	25.6	25.95	23.4	22.1	20.25	19	16.85	19.75	21.2	24.45	24.45	24.1
1979	24.35	24.35	-	-	19.4	16.75	17.5	19	21.65	-	23.85	23.7
1980	23.95	25.1	24.4	22.95	19.8	17.1	17.45	18.55	20.95	23.05	24.65	24.2
1981	25.85	24.3	23.45	21.75	19.5	16.55	16.2	18.5	-	21	23.9	24.1
1982	23.4	24.1	23.1	21.6	18.95	18.95	18.05	18.35	19.85	22.1	24	24.3
1983	25.35	25.1	24.65	23	21.05	19.2	18.3	17.8	20.6	22.55	24.85	24.15
1984	23.65	23.9	23.3	22.35	20.25	18.1	17.7	17.5	20.25	22.15	23.4	24.05
1985	25.1	24.95	23.85	21.4	19.4	17.75	17.9	19.1	22.1	23.15	23	23.35
1986	24.55	24.1	23.85	22.7	19.65	15.85	16.25	18.9	20.65	22.3	23.5	23.8
1987	23.9	24.25	24	22.4	20.1	16.3	18.05	18.7	22.2	22.45	24.55	26.2
1988	24.85	24.9	24.25	24	-	19.35	18.1	19.05	21.25	23.65	23	23.3
AV.	24.37	24.3	23.66	22.31	19.85	17.56	17.51	18.53	20.99	22.90	24	24.14

MONTHLY TEMPERATURE (MAX.)
SAKARANA FOREST STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	33.8	33.4	34	32	33	26	27.8	29.1	32.7	37.3	37.8	35.5
1970	33.3	33.9	33.5	30.9	30	27.6	28	30.7	34.2	35.3	35.8	35.3
1971	33.6	32.2	32.8	32.3	28.4	26.4	27.6	28.9	32.8	34.7	34.6	-
1972	33.9	31.6	31.4	31.3	29.2	23.7	-	29.2	32.2	35	36.7	39.6
1973	37.8	35.4	36.1	32.7	28.3	26.4	26.1	28.5	33.4	37.7	36.5	34.8
1974	36.2	33.7	33.1	30.4	26.2	25.1	26.5	28.6	-	-	-	32.1
1975	32.7	31.6	32.3	32.1	28.6	27.7	-	28.2	32	-	36.8	-
1976	35	34.5	34.2	30.6	28.3	27.8	26.7	27.3	33.2	34.2	37.6	34.1
1977	33.3	31.3	31	30.5	29.5	28.8	28	29.2	33.5	36.3	35.4	34.5
1978	35.7	35.6	34.3	31.8	29.6	-	26.8	-	-	36.1	35.9	35.1
1979	34.4	34.7	33.9	31.3	29.9	27.8	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1986	34.9	33.4	34.2	33.7	31	-	-	-	-	-	-	33.3
1987	32.3	35.1	-	33.4	32.3	27.9	28.9	32	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	34.37	33.8	33.4	31.76	29.56	26.83	27.37	29.17	33	35.82	36.34	34.92

MONTHLY TEMPERATURE (MIN.)
SAKARANA FOREST STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	20.2	21	19.1	18.1	12.4	8.4	9.1	8	8.4	16.8	18.2	19.9
1970	20.5	20.1	17.4	14.7	11.9	8.0	8.8	10.2	11.8	14.7	17.8	19.5
1971	19.8	20.3	18.6	16.3	-	9	-	9.2	11.3	14.9	15.9	17.8
1972	18.5	19.7	18.2	15	13.8	10.1	10	10.7	12	15.2	16.2	19.8
1973	20.3	18.3	18.6	15.6	12.2	9.1	9.8	9.8	12.7	15.7	17.7	18.2
1974	19.6	19.6	17.7	16.1	13.2	10.1	10.4	11.2	12.3	15.5	17.8	19.6
1975	20.3	19.2	17.7	16.9	11.7	10.3	-	9.4	12.1	-	19.3	-
1976	19.8	19.8	19.2	18.2	12.6	8.7	9.5	10.8	12.3	16.1	18.2	-
1977	-	-	-	-	-	7.5	8.3	8.4	12.7	16.3	18.9	20.4
1978	21.2	21.1	18.9	16.5	11.4	-	8.6	-	-	17.7	18.2	19.2
1979	19.1	19.4	18.5	15.4	11.7	9.2	9.8	8.4	13.7	-	-	-
1980	19	18.7	17.7	15.8	11.8	8.4	8.4	9.5	13.3	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	19.1	-	-	9.4	7.6	9.2	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	19.84	19.69	18.32	16.23	12.00	8.94	9.263	9.6	12.08	15.87	17.82	19.3

MONTHLY TEMPERATURE (MEAN.)
SAKARANA FOREST STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	27	27.2	26.55	25.05	22.7	17.2	18.45	18.55	20.55	27.05	28	27.7
1970	26.9	26.7	25.45	22.8	20.95	18.25	18.4	20.45	23	25	26.8	27.4
1971	26.7	26.25	25.7	24.3	14.2	17.7	13.8	19.05	22.05	24.8	25.25	8.9
1972	25.9	25.65	24.8	23.15	21.5	16.9	5	19.95	22.1	25.1	26.45	29.7
1973	29	26.85	27.35	24.15	20.25	17.75	17.95	19.15	23.05	26.7	27.1	26.5
1974	27.9	26.65	25.4	23.25	19.7	17.6	18.45	19.9	6.15	7.75	8.9	25.85
1975	26.5	25.4	25	24.5	20.15	19	-	18.8	22.2	-	28.05	-
1976	27.9	27.15	26.7	24.4	20.45	18.25	18.1	19.05	22.75	25.15	27.9	17.05
1977	16.65	17.15	15.5	15.25	14.75	18.15	18.15	18.8	23.1	26.3	27.15	27.15
1978	28.45	28.35	26.6	24.15	20.5	-	17.7	-	-	26.9	27.05	27.15
1979	26.75	27.05	26.2	23.35	20.8	18.5	4.9	4.2	6.85	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1986	17.45	16.7	17.1	16.85	15.5	-	-	-	-	-	-	16.65
1987	16.15	24.1	-	16.7	20.85	17.75	19.05	16	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	24.82	25.01	24.36	22.14	19.40	17.91	15.15	17.62	19.18	23.86	25.26	23.43

MONTHLY TEMPERATURE (MAX.)
ANKAZOABO SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	31.8	31.8	33.6	33.3	30.3	27.3	29.8	29.8	32.7	36.6	37.4	34.6
1970	32	33.1	33.5	32.7	30.5	29.1	28.4	30.8	33.6	34.4	34.6	34.1
1971	31.6	31.3	32.4	33.6	-	28	29.4	30.3	33.1	-	33.6	33.2
1972	32.2	-	-	32.2	31.3	25.6	28.3	29.7	31.8	33.8	34.9	37
1973	35	32.5	34.1	32.8	30.4	29.1	27.4	29.3	32.6	35.7	33.4	31.1
1974	32.8	30.8	32.6	31.8	30.1	27.8	27.4	28.9	31.7	34.1	34.3	31.4
1975	31.9	31.4	33.2	34	30.1	28.9	28.2	30.1	32.7	34.4	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	37.6
1988	33.6	33.5	34.5	-	31.5	29.7	-	30.9	-	-	-	-
AV.	32.61	32.05	33.41	32.91	30.6	28.18	28.41	29.97	32.6	34.83	34.7	34.14

MONTHLY TEMPERATURE (MIN.)
ANKAZOABO SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	21.3	22.5	20.5	19.3	15.4	-	11.9	12.4	13.2	18.5	20.4	21.1
1970	21.3	20.7	18.9	16.7	14.1	12.3	11.3	13.5	14.8	17.8	-	-
1971	20.7	20.8	19.5	18	14.1	11.3	11.9	12	14.9	17.3	18.4	20.3
1972	20.3	20.4	19.6	17.1	15.9	11.6	11.9	12	15.4	17.3	18.1	21.5
1973	21.7	20.7	20.2	18.1	14.3	12.3	11.9	12.1	14.3	18.7	20.2	19.7
1974	20.7	20.2	19.3	16.6	16.1	12.4	11.5	12.8	14.9	17.2	19	19.6
1975	20.2	19.6	18.7	17.5	13.4	11.7	10.2	11.4	13.9	16.6	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	16.8	-	20.3
1987	-	20.1	-	-	-	9.9	-	-	-	-	-	20.9
1988	19.8	-	18.7	-	13.5	11.8	-	-	-	-	-	-
AV.	20.75	20.62	19.42	17.61	14.6	11.66	11.51	12.31	14.48	17.52	19.22	20.48

MONTHLY TEMPERATURE (MEAN.)
ANKAZOABO SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	26.55	27.15	27.05	26.3	22.85	13.65	20.85	21.1	22.95	27.55	28.9	27.85
1970	26.65	26.9	26.2	24.7	22.3	20.7	19.85	22.15	24.2	26.1	-	-
1971	26.15	26.05	25.95	25.8	-	19.65	20.65	21.15	24	-	26	26.75
1972	26.25	-	-	24.65	23.6	18.6	20.1	20.85	23.6	25.55	26.5	29.25
1973	28.35	26.6	27.15	25.45	22.35	20.7	19.65	20.7	23.45	27.2	26.8	25.4
1974	26.75	25.5	25.95	24.2	23.1	20.1	19.45	20.85	23.3	25.65	26.65	25.5
1975	26.05	25.5	25.95	25.75	21.75	20.3	19.2	20.75	23.3	25.5	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	26.67	26.28	26.37	25.26	22.65	19.1	19.96	21.07	23.54	26.25	26.97	26.95

MONTHLY TEMPERATURE (MAX.)
BEROROKA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	UNIT: C	
											NOV	DEC
1969	34.2	33.7	35.5	35	-	-	30.8	-	-	-	-	35.8
1970	32.6	-	35.2	34.1	32.6	31.2	30.8	-	-	-	-	35.8
1971	33.7	34.2	34.8	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	34.5	35.7	34.6	32.5	30.8	30.4	31.4	-	-	-	34.3
1974	35.6	34.1	34.2	34.5	32	29.7	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	34.02	34.12	35.08	34.55	32.36	30.56	30.66	31.4	-	-	-	35.3

MONTHLY TEMPERATURE (MIN.)
BEROROKA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	UNIT: C	
											NOV	DEC
1969	22.2	22.4	21	20.2	-	-	13.3	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	21.5	20.9	20.4	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	20.3	15	13.1	10.8	12.6	-	-	-	20
1974	21.2	21	20.6	18.5	16.3	12.1	11.9	12.6	15.1	18.9	-	20.7
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	21.7	21.63	20.83	19.85	15.65	12.0	12	12.6	15.1	18.9	-	20.35

MONTHLY TEMPERATURE (MEAN.)
BEROROKA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	UNIT: C	
											NOV	DEC
1969	28.2	28.05	28.25	27.6	-	-	22.05	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	27.85	27.85	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	27.45	23.75	21.95	20.6	22	-	-	-	27.15
1974	28.4	27.55	27.4	26.5	24.15	20.9	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	28.3	27.81	27.83	27.18	23.95	21.42	21.32	22	-	-	-	27.15

MONTHLY TEMPERATURE (MAX.)
BETSIOKY SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	35.7	35.7	36.7	35.2	31.9	-	-	-	-	-	-	35.4
1970	33.2	33.9	34.7	32	31.2	28.7	29.1	31.4	34.3	35	36.2	35.7
1971	33.2	33	33.6	34.4	30.2	27.9	29.6	30.6	33.2	34.1	33.6	34.3
1972	34.5	32.5	32.8	33.3	32.1	26.8	28.8	29.4	33.4	34.3	34.1	38.9
1973	36.8	35.4	36.4	33.5	31.7	29.8	29.5	30.2	33.5	36.6	35.4	33.4
1974	35.1	34.7	35.2	32.3	28.7	28.6	28.6	30.9	31.7	34.6	35.7	32.6
1975	33.2	32.9	33.9	34.2	30.4	29.6	28.1	30.5	33.5	34.4	36.5	33.2
1976	36.4	34.9	35.5	33.3	30.4	28.5	28.5	29.5	33.8	34.2	37.7	35.8
1977	35	35.9	-	-	-	29.7	28.5	28.7	33.2	35.4	-	34.7
1978	35.4	35.8	35.4	31.9	30.4	28.4	27.7	32.2	32.5	36.3	36.7	34.1
1979	35.3	35.4	36.1	32.7	30.3	27.8	28.7	32.4	33.5	36.6	34.7	33.7
1980	35.4	37.8	36.8	33.7	30.7	28.7	28.1	29.6	33.8	34.5	36	34.6
1981	36.4	34.4	33.2	32.7	30.3	27.5	27.4	30.3	32.1	31.3	35.5	34.7
1982	33.4	34.9	33	30.9	28.9	29.9	28.9	29.9	31.4	33.4	34.9	35.8
1983	37.3	36.1	35.3	33.3	31.6	30.4	29.3	28.5	32.7	33.4	36.1	34.9
1984	35.1	33.3	32	31.9	30.2	28.9	29.5	22.7	31.6	34.5	35.4	36
1985	35.4	36.8	34.1	32.2	30.2	27.8	26.5	30.7	33.3	34.4	35.1	34.2
1986	35	33.6	35.4	34	31	27.5	-	31.4	32.6	32.8	33.4	33
1987	33.2	35.3	35.7	32.5	31.5	27.2	28	30.9	33	33.1	36.4	38
1988	34.3	34.8	35.3	33.7	31.9	29.8	29.8	30.5	33	34.5	34.1	33.7
AV.	34.96	34.85	34.79	33.03	30.76	28.6	28.7	30.01	32.95	34.38	35.41	34.83

MONTHLY TEMPERATURE (MIN.)
BETSIOKY SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	21.7	22.3	21	20.2	15.9	12	12.9	13.4	13.8	19.6	20.2	21.9
1970	22.3	20.9	-	16.9	15.2	13.8	12.7	-	-	-	-	21.7
1971	21.2	21.3	20.3	19.1	15.9	12	12.9	13.1	14.7	17.5	18.3	20.3
1972	21	21.4	19.9	17.7	15.9	12	12.3	12.6	15.1	17.8	17.9	21.7
1973	22.5	21.9	20.9	18.7	14.4	11.6	11.9	13.2	14.5	18	20	20.6
1974	21.2	21.1	20.6	18.4	14.4	12.6	12.1	12.5	14.3	17.9	19.8	21
1975	21.6	20.9	19.8	18.9	15.1	13.2	12	13.2	14.8	18.9	20.1	21.3
1976	21.9	21.7	21.1	19.1	15.6	12.6	12.9	13.3	15.5	17.3	19.4	20.7
1977	21.9	23	20.6	17.1	15.1	12.7	13.6	13.2	16.6	19	20.3	21.8
1978	21.8	21.7	21.3	18.6	14.4	14.1	12.1	13.2	15.8	19.5	-	21.1
1979	20.9	21.9	21.2	18.3	15	13.2	12.6	14.2	16.3	18.3	19.4	20.7
1980	21.3	21.4	19.8	19.3	15.2	11.8	12.5	14.1	15	16.9	20.6	21.6
1981	22.7	22.6	19.9	18	15.6	11.6	11.4	13.3	15.8	16.1	20.1	20.9
1982	21.6	21.9	21.1	18.8	16.2	13.8	13.6	13.7	14.5	-	19.5	20.9
1983	21.8	22.1	21.8	19.9	16.9	15.2	14.4	13.7	16.1	17.8	19.7	21.3
1984	22.5	21.6	20.3	18.6	16	13.7	13.6	12.7	15	17.8	19.5	21
1985	22.6	21.7	20.6	18.4	15.3	12.7	12.6	14.6	17.1	18.5	20	20.4
1986	21.6	21.1	20.9	18.9	15.3	11.5	11.9	13.3	14	-	19.4	20.9
1987	21.5	21.7	20.7	19.7	16	11.8	13.6	13.9	17	17.9	19.8	21.9
1988	22.2	21.7	20.7	20.3	15.6	14.2	14.2	14.2	15.9	18.6	19.1	20.5
AV.	21.79	21.69	20.65	18.74	15.45	12.80	12.79	13.44	15.35	17.96	19.61	21.11

MONTHLY TEMPERATURE (MEAN.)
BETSIOKY SUD STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	28.7	29	28.85	27.7	23.9	-	-	-	-	-	-	28.65
1970	27.75	27.4	27.35	24.45	23.2	21.25	20.9	15.7	17.15	17.5	18.1	28.7
1971	27.2	27.15	26.95	26.75	23.05	19.95	21.25	21.85	23.95	25.8	25.95	27.3
1972	27.75	26.95	26.35	25.5	24	19.45	20.55	21	24.25	26.05	26	30.3
1973	29.65	28.65	28.65	26.1	23.05	20.7	20.7	21.7	24	27.3	27.7	27
1974	28.15	27.9	27.9	25.35	22.05	20.6	20.35	21.7	23	26.25	27.75	26.8
1975	27.4	26.9	26.85	26.55	22.75	21.4	20.05	21.85	24.15	25.65	28.3	27.25
1976	29.15	28.3	28.3	26.2	23	20.55	20.7	21.4	24.65	25.75	28.55	28.25
1977	28.45	29.45	10.3	8.55	-	21.2	21.05	20.95	24.9	27.2	10.15	28.25
1978	28.8	28.75	28.35	25.25	22.4	21.25	19.9	22.7	24.15	27.9	18.35	27.6
1979	28.1	28.65	28.65	25.5	22.65	20.5	20.65	23.3	24.9	27.45	27.05	27.2
1980	28.35	29.6	28.3	26.5	22.95	20.25	20.3	21.85	24.4	25.7	26.3	28.1
1981	29.55	28.5	26.55	25.35	22.95	19.55	19.4	21.8	23.95	23.7	27.8	27.8
1982	27.5	28.4	27.05	24.85	22.55	21.85	21.25	21.8	22.95	16.7	27.2	28.35
1983	29.55	29.1	28.55	26.6	24.25	22.8	21.85	21.1	24.4	25.6	27.9	28.1
1984	28.8	27.45	26.15	25.25	23.1	21.3	21.55	17.7	23.3	26.15	27.45	28.5
1985	29	29.25	27.35	25.3	22.75	20.25	20.55	22.65	25.2	26.45	27.55	27.3
1986	28.3	27.35	28.15	26.45	23.15	19.5	5.95	22.35	23.3	16.4	26.4	26.95
1987	27.35	28.5	28.2	26.1	23.75	19.5	20.8	22.4	25	25.5	28.1	29.95
1988	28.25	28.25	28	27	23.75	21.9	22	22.35	24.45	26.55	26.6	27.1
AV.	28.37	28.27	26.34	25.06	23.11	20.72	19.98	21.37	23.79	24.71	25.53	27.97

MONTHLY TEMPERATURE (MAX.)
BEZAHIA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969												
1970	32.8	34.4	34.8	34.4	32.2	30.3	29.9	32.2	35	35.6	36.3	37.1
1971	34.3	32.8	33.4	34.7	30.6	28.7	30.3	30.9		34.9	34.3	35.4
1972	34.9	32.6	32.6	34.2	31.4	26.5	29.1	30.2	33.8	34.6	34.5	40.2
1973	37.6	36.3				29.5	29.6	31.3	34.2	37.2		35
1974	33.8	34								35.8		31.6
1975		35.1					29.4	30.7	34.8			35.3
1976	36.6		36	33.3	31.1	29.6	28.9	30.1	34.6	34.9		36.9
1977	31.5	36.8	34.3	33.1	32.4	29.5	29.8	31	35.6			
1978												
1979						28.7		31.7				
1980	36											
1981												
1982												
1983												
1984												
1986									33.4	33.4		
1987									34.5			
1988							30.3	31.5			33.2	34
AV.	35.06	34.57	34.22	34	31.54	28.97	29.66	31.06	34.36	35.2	35.07	36.08

MONTHLY TEMPERATURE (MIN.)
BEZAHIA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969												
1970	22.8	22.6	20.9	17.2	14	12.1	11.3	13.6	15.7	18.7	21	22.3
1971	22.3	22.2	21.1	20.2	14.1	10.7	12.3	11.8		17.9	19.3	20.5
1972		21.5	20.6	17.7	16.1	12.2	11.8	12.5	14.5	17.8	18.1	22
1973	22.5	23.6					15.7		15.5	18.3	19.4	20.6
1974	21.6	21.8								17.9		
1975								11.3	13.6	16.1		20.6
1976	20.6		20.2	18.3	13.3				12.6	15.7	19.7	
1977	19.7	20.2	18.7									
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1985												
1987												
1988												
AV.	21.58	21.81	20.3	18.35	14.37	11.66	12.77	12.3	14.38	17.48	19.56	21.2

MONTHLY TEMPERATURE (MEAN.)
BEZAHIA STATION IN 1969-1988

YEAR	UNIT: C											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969												
1970	27.8	28.5	27.85	25.8	23.1	21.2	20.6	22.9	25.35	27.15	28.65	29.7
1971	28.3	27.5	27.25	27.45	22.35	19.7	21.3	21.35		26.4	26.8	27.95
1972		27.95	26.6	25.95	23.75	19.35	20.45	21.35	24.15	26.2	26.45	31.1
1973	30.05	29.15					22.65	15.65	24.85	27.75		27.8
1974	27.7	27.9								26.85		
1975								21	23.7			27.95
1976	28.6		28.1	25.8	22.2				23.6	25.3		
1977	27.1	28.5	26.5									
1978												
1979												
1980												
1981												
1982												
1983												
1984												
1986												
1987												
1988												
AV.	28.25	28.15	27.26	26.25	22.85	20.08	21.25	20.45	24.33	26.60	27.3	28.9

COLLECTED RECORD; RAINFALL

MEAN RAINFALL DISTRIBUTION TOLIARA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	73.1	40	2.1	31.7	41.3	18.2	1.7	0	0	0	9.3	88.1	303.8
1970	108.7	21.2	0	5.8	0	0.1	0	0	0	16	2.0	11	165.6
1971	177.7	100.1	50.9	0	52.8	0	0	0	0	2.1	24.3	44.7	460.6
1972	117.2	107.7	70.8	5.7	10.6	59.2	3.5	0.3	22.8	5	10.7	0	413.5
1973	62.5	21.4	5	34	3.6	0	0.5	1.5	0	0.2	118.3	298.8	455.8
1974	75.5	38.5	89.8	5.6	40.5	33.1	0	0	25.8	2.8	2.5	371	685.1
1975	114.7	38.2	14.4	0	15.9	0	12.4	0	0	41.5	0.4	226.1	463.6
1976	28.2	118.7	28.1	38	21.9	16.6	1.5	39.8	1.2	43.9	8.5	23.4	369.8
1977	187.9	214.4	15.5	0	2.6	1.3	10.9	0.1	1.2	6.7	5.7	117.1	572.4
1978	8.3	90.6	18.6	44.2	6.8	54.5	0.1	0	9	7.3	14.5	100.7	354.6
1979	5.9	23.2	30.8	10.2	2.5	3.8	33	0	3.5	0	145.8	22.4	281.1
1980	23.6	6.7	3	33.6	7.5	5	0	6.2	29.1	0	8.8	162.4	285.9
1981	74.9	128.4	14.8	0.6	4.9	38.4	2.1	0	11.4	21.6	50.2	15.5	392.8
1982	195.2	97.2	135.4	32.9	13.9	0	2.1	0	0	30.6	0.3	26.6	534.2
1983	0	114.1	4.9	11.7	15.2	0.2	5.9	16.9	0	3.8	0	39.4	212.1
1984	38.7	129.3	12.7	61.2	1.2	4	0	16.7	0	9	10	140.3	423.1
1985	26.8	0	96	1.5	0.4	7.8	0.6	0	0.5	3.4	30.9	80.1	248
1986	26.7	74	37.3	0	10.1	6.3	0	0.1	0.3	20.8	53.2	43.4	272.2
1987	207.3	12.2	45.9	39.2	0	21.5	12.7	4.3	25.3	9.7	1.3	15	394.4
1988	73.8	124.2	75.4	10.1	0	0.1	0	0	4.7	0	14.7	76.4	379.4
AV.	81.35	75.00	37.97	18.3	12.58	13.50	4.8	4.295	8.24	11.22	25.61	90.52	383.4

MEAN RAINFALL DISTRIBUTION MOROHRE STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	121.6	216	6.7	0.5	19.1	0.8	0	0	0	0	0.3	151.3	515.3
1970	146.1	3.8	1.2	0	0	0	0	0	0	0.5	18.9	0.5	171
1971	134.2	311.9	255.9	0	13.7	-	0	0	0	0.9	1.5	217.4	-
1972	30.1	217.7	39.1	0	1.3	27	0.4	0	0.1	22.9	1.9	4.2	344.7
1973	218.9	98.5	3.5	38.9	0.7	0.2	0	-	1.8	0	43.9	267.1	-
1974	79.3	52.8	109.6	31.6	87	21.6	0.8	0.6	7.6	2.2	4.5	404.2	801.8
1975	22.9	193.9	12.6	0	24.9	0	0.1	0	0	0	3.2	75.9	333.5
1976	124.1	202.6	5	2.7	11.5	0	0.6	20	0	1.3	0	82.9	450.7
1977	190.9	180.8	50.7	0.2	20.6	0	6.8	0	0.5	19.4	7.9	47.7	525.5
1978	49.5	90.9	53.4	34.7	0	18.7	4.2	0	0	0	0.3	269.1	520.8
1979	11.4	67.5	5.6	45.2	0	0	3.7	0	0	0	12.6	11.9	157.9
1980	74.7	2.3	0	0	0	0	1.3	2.6	11.6	0	0.7	-	-
1981	15.8	83.4	16.2	1.5	4.7	-	-	-	-	-	-	-	-
1982	158.1	85.3	215.5	0	0	-	-	0	0	34	0	-	-
1983	20.5	49.2	0	0	0	0	0	0	0	0	-	-	-
1984	63.4	212	0	0	0	0	0	-	-	-	31.4	0	-
1985	0	0	21	0	30.9	-	-	-	-	-	-	-	-
1986	-	159.8	170.6	-	1.7	12	0	2	0	109.5	39	16.2	-
1987	235	38.5	51	0.2	0	0	2.2	-	-	0	26.2	0.1	-
1988	157.9	70.1	67.9	308	0	0	0	0	0	-	4	40.4	-
AV.	97.6	118.3	54.27	24.39	10.75	5.018	1.182	1.68	1.35	11.91	12.26	79.44	418.2

MEAN RAINFALL DISTRIBUTION RANOHIRA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	296.3	251.5	132.0	119.3	19.8	1.8	2.7	0	0	40.4	23.7	223.2	1111.
1970	291.8	143	43.9	5	1.5	0	0	0	0	7.1	195.7	132.5	820.3
1971	205.1	298.2	181.2	6.8	12.5	8.6	9.5	0	17.9	85.7	65.6	446.1	1337.
1972	436	125.8	166.3	4.4	64.9	4.1	7.3	5.4	34.2	95.4	124	100	1167.
1973	202.8	223.8	227.6	2.5	0.7	0.2	15.6	8.6	0	0.5	75.2	299.2	1036.
1974	116.9	211.1	120.8	64.7	48.8	10.3	6.4	0.4	14.5	51.3	42.6	464.1	1151.
1975	227.6	257.1	112.1	73.7	15.5	0.3	5.3	0	0.4	69.6	115.9	199.4	1076.
1976	57.8	197.5	58.3	70.5	17.6	0	4.2	24.5	10.8	121.2	17.6	165	745
1977	324.6	102.8	161.1	3.1	8.2	0	0.2	0	4.1	56.1	89	78	827.2
1978	117.2	137.2	101	27.7	0	0.2	13.7	0	0	42.7	62.3	288.3	790.3
1979	207.1	115.9	153.2	27.2	17.6	0	2	9.9	13.2	14.9	126.7	164.8	852.5
1980	127.2	45.4	121.1	11.5	56.4	0.8	0.2	0	23.6	20.7	253.7	223.2	883.8
1981	70.1	279.2	131.1	12.6	31.6	3.9	0.2	0	59.3	98.2	158.1	322.6	1166.
1982	482.4	218.7	422	158.4	2.6	0.9	0.5	0	0	32.8	71.9	115.5	1505.
1983	84.1	187.3	79.1	18.1	0	0.1	0.4	3.2	21	73.3	18.6	282	767.2
1984	328.1	387	105.7	18.1	5.8	5.8	0	53.1	3.4	70.9	94	241.9	1313.
1985	78.1	31	93.2	20	0.9	0	0.2	6	15.1	123.8	106.5	116.6	591.4
1986	85.2	206.3	68.9	11.9	0	0.5	0	8.4	0	147.5	180.3	268.5	987.5
1987	294.8	79.5	76	24.7	0.4	1.2	9.5	0.8	37.7	50.4	196.9	771.9	-
1988	126.4	97.7	47.2	3.4	0	0	0	0	0.7	53.4	100.8	102.4	532
AV.	208.4	179.8	130.1	34.18	15.24	1.935	3.895	6.015	12.79	62.79	105.9	211.6	972.8

MEAN RAINFALL DISTRIBUTION
SAKARANA FOREST STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	342	148.1	82.6	14.3	29.1	0.9	1.5	0	0	29.2	13.3	263.4	924.7
1970	372.6	74	30.1	25.5	0	0	0	0	0	30.5	89.6	156.1	778.1
1971	475.9	245.8	181.8	14.4	31	0	14.5	0	3.8	47.1	55.7	301.5	1371.
1972	319.7	225.2	222.1	0	58.7	31	0	2.2	27.5	45.4	36.5	21	989.3
1973	164.3	174.2	91.3	101.5	2.3	4.3	45.5	7.1	12.1	9.2	63.6	297.6	973.2
1974	218	100.8	245	80.7	19	66.4	0	0	21.7	110.9	118.8	306.6	1287.
1975	188.9	165.5	50.3	64.8	14.8	0	6.3	0	0	41	108.2	0	639.8
1976	143.6	174.7	82.5	100.7	7.9	0	4.3	13	4.9	72	14.8	155.3	773.7
1977	104.2	91.7	143.2	10.2	8	4	3.5	0	9.8	11.9	145.2	184.5	719.2
1978	84.5	215.7	35.3	49.1	0	0	0	0	0	39.2	6.8	203.2	633.8
1979	98	359.7	0	6.2	3.3	0	10	0	0	16.5	117	177.8	788.5
1980	118.2	41.8	5.5	19.5	16.3	1	3.5	0	0	4	60.5	247.8	518.1
1981	176	-	-	-	-	-	-	-	-	4	10.2	9.2	-
1982	67.4	19.8	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	104.4	97.7	160.1	20	0	0	0	128	0	0	0	141.8	652
1987	299.7	18.7	60	48.2	0	0	3.5	0	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-
AV.	204.8	143.7	99.27	39.65	13.6	7.685	6.614	10.73	6.138	35.45	64.63	189.6	822.0

MEAN RAINFALL DISTRIBUTION
ANKAZDARO SUD STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	279.8	136.5	62.7	8	12.4	0	3.5	0	0	0	57.8	107.1	667.8
1970	302.6	72.2	17.2	8.3	0	0	0	0	0	68.4	99.6	82.4	650.7
1971	246.2	242.6	134.2	0	21.1	0	1.5	0	38.2	32.9	19.9	203.1	939.7
1972	253.8	152.5	140.1	0	16.3	2.1	18.3	0	1.3	30.8	1.6	40.9	657.7
1973	208.7	95.1	24.7	2.8	0	0	19.7	2.5	1.7	3.9	21.1	100.1	780.6
1974	116.4	123.3	108.9	20.3	30.2	11.1	0	0	8.1	38.7	107.5	274.2	836.7
1975	174.8	19.6	136.4	13.2	21.2	0	0	0	0	15.6	9.5	187.3	577.6
1976	45.2	43.9	25.5	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	43.5	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	17.9	-	-	-
1987	79.3	71.8	-	-	0	0	-	-	-	-	-	32.2	-
1988	236.8	106.2	61.2	0	0	0	-	0	-	6	-	-	-
AV.	194.3	106.3	75.24	6.575	11.24	1.466	6.142	0.312	7.042	27.13	45.28	165.9	647.1

MEAN RAINFALL DISTRIBUTION
BERORONA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	215.6	263.6	186.5	32.3	9.9	0	0	-	-	-	-	279	-
1970	281.3	34.3	95.7	19.5	0	0	-	-	0	30.2	185.5	90.3	-
1971	241.4	127.5	87.5	0	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	398.4	323.7	157.8	0	0	0	0	1.4	-	-	-	152.9	-
1974	167.7	92.3	69.8	36.4	19.9	16.5	0	0	7.9	17.2	37.3	312.7	465
1975	247.7	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-
AV.	258.6	168.2	119.4	17.64	7.45	4.125	0	0.7	3.95	23.7	111.4	208.7	-

MEAN RAINFALL DISTRIBUTION
BETSIOKY SUD STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	233.8	261.8	55.2	17.3	32.9	4.9	3.3	0	0	21.1	11.1	150.7	792.1
1970	119.2	80.1	7.3	19.1	0	0	2.2	0	0	23	108.2	67.9	425
1971	306.4	182.9	67.3	0	21.1	0	0	0	0	34.9	40	102.3	754.9
1972	224.9	163.7	131.2	1.6	42.5	23.5	0	4.2	10.1	78.4	20.9	44.6	745.6
1973	149.7	72.7	123.8	7.4	2.7	0	54.1	4.3	0.7	29	75.7	313.6	833.7
1974	161.3	57	40.6	62.6	30.5	41.7	0	0.8	23.5	38.3	52.9	347.7	856.9
1975	381.5	28.3	20.8	1.1	24.9	0	2.4	0	0	19.4	52.9	425.6	956.9
1976	39.6	144.9	51.4	29.5	27.5	10.7	1.5	40.2	3.3	37.9	13.7	124.5	524.7
1977	195.9	127.8	107.3	32.6	17.5	0	10.9	0	5.7	5	107.1	118.2	728
1978	115.9	183.1	26.3	70.6	0.9	28.5	1.7	0	0	23.4	26.4	134.8	643.6
1979	18.7	88.9	59.5	27	13.8	1.9	13.5	0	0	2.3	175.5	189.5	590.6
1980	75.1	46.9	0	66.4	28.8	0	17	0.7	29.4	29	138.4	298.5	730.8
1981	128.9	240.5	63	0.3	7.3	7.2	1.9	0	42.3	45	85.5	101.2	721.1
1982	262.3	57	257.5	54.3	0.3	0	0.1	0	0.6	24.1	66.8	29.4	752.4
1983	17.5	151.2	20.8	41.1	12.3	0	1.6	13.3	14.7	21.2	12.8	104.4	410.9
1984	176.3	182.3	126.2	61.9	0	8.2	0	5	2.3	24.2	44.2	53.9	884.5
1985	289.5	0	83.4	7.8	1.8	15.9	0.5	0	37	29.1	193.9	81.3	740.2
1986	108.2	209.9	80.7	26.9	3.5	0.8	0	1.2	0.4	76.7	145.4	151.1	804.8
1987	168.7	7.2	94.9	11.1	1.2	5.4	3.7	0	24.6	45.1	15.8	118	496.7
1988	143.7	156.3	61.1	7.6	0	0	1.6	0	3.3	25.5	52.7	89.7	541.5
AV.	165.7	122.1	73.91	27.31	13.47	7.435	5.8	3.485	9.895	31.63	71.99	152.3	685.2

MEAN RAINFALL DISTRIBUTION
BEZANA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	242.4	42.3	57.5	15.3	0.4	0	0.6	0.7	0	35.4	81.6	66.2	522.4
1971	428.5	332.9	38.2	0	61.5	0	0.5	0.6	0	35	46	82.3	1026.
1972	320.9	210.6	208.5	8	99.7	82	0	7.7	16	157.4	34.6	34.1	1179.
1973	116.8	26.3	10.2	42.4	3	1.7	83.1	3.4	0	0	130.5	349.1	766.5
1974	119	126.5	96.2	57.5	18	24.7	0	0	25.2	8.5	76.4	197.4	749.4
1975	-	18.8	60.7	21	9.8	0	9.9	0	0	17.1	25.9	286.1	353.3
1976	39.6	154.6	38.5	110.9	39.9	4.7	2.2	18.8	4.3	41.7	25.2	149.9	630.3
1977	189.1	132.9	76.9	7.4	5	0	2.5	0	1.2	12.8	-	213	640.8
1978	227.1	144.4	87.3	11.9	0	11.7	12.4	0	3.9	10.4	62.1	197.2	768.4
1979	113.8	83.2	19.6	14.1	8.1	2	18	2	3	0	101.2	80.4	445.4
1980	124.7	77.7	14.9	24.8	41.5	0	2.3	0.5	0.7	31.5	123.5	151.3	593.4
1981	46.1	333.9	17.6	1.3	13.5	13.8	4.2	0	42.5	41	45	114.8	673.7
1982	307.8	88.4	139.3	72.5	1.2	1.8	1.9	0	12.5	9.5	30.5	54.7	720.1
1983	101.2	152.2	122.5	13.2	4.7	1	0	0	20.1	0	0	0	414.9
1984	114.2	274	95.3	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-
AV.	155.7	137.4	67.76	26.68	20.42	9.56	9.173	2.246	8.626	26.68	50.83	126.0	632.0

COLLECTED RECORD; SUNSHINE HOURS

MEAN MONTHLY DISTRIBUTION OF SUNSHINE HOURS TOLIARA STATION IN 1969-1988

YEAR	UNIT; hrs./day											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	9.54	8.99	9.98	8.68	9.76	9.52	8.55	10.58	10.40	9.98	10.79	8.67
1970	9.62	10.12	10.76	9.56	10.39	9.81	10.17	10.45	10.60	10.51	10.06	10.91
1971	8.78	9.27	9.08	10.57	9.36	10.05	9.95	10.50	10.37	10.49	10.13	9.44
1972	10.85	6.35	9.00	10.24	8.76	8.64	9.80	10.17	9.95	9.88	10.90	11.39
1973	11.10	8.38	10.90	9.39	9.87	9.84	9.24	10.26	10.08	10.85	9.06	9.44
1974	10.75	10.11	9.48	8.69	7.62	9.30	9.02	10.11	10.32	11.05	10.12	7.99
1975	9.27	9.50	10.38	9.97	9.91	9.63	9.66	10.52	10.48	10.13	11.56	9.80
1976	10.39	10.48	10.42	8.53	9.02	9.63	9.54	9.39	10.44	9.81	11.39	9.33
1977	9.68	9.86	9.36	10.51	9.35	10.91	9.52	10.01	10.01	11.13	10.45	10.02
1978	11.02	10.85	9.57	8.54	10.02	9.08	9.96	10.54	10.05	10.20	11.67	8.55
1979	11.25	10.14	9.74	9.95	8.88	9.27	8.95	10.06	9.32	10.26	9.93	9.55
1980	11.18	11.14	10.05	9.49	10.08	9.49	9.67	10.42	9.57	10.63	10.71	8.76
1981	11.25	8.09	9.13	9.30	9.15	8.95	10.07	10.13	9.15	8.99	10.48	10.92
1982	8.60	8.86	7.36	8.87	9.13	9.50	9.59	10.30	9.87	9.68	10.74	10.59
1983	10.38	9.91	10.56	10.08	8.97	9.69	9.21	9.81	10.27	10.51	11.02	9.55
1984	9.23	9.11	10.03	9.98	10.00	9.34	9.64	10.15	10.13	10.72	10.00	10.09
1985	11.08	11.26	8.96	9.23	9.00	9.58	9.68	10.45	11.05	9.74	10.52	9.38
1986	11.21	9.78	9.59	9.97	10.37	10.04	9.87	10.22	10.61	8.43	10.99	10.32
1987	9.58	11.24	9.94	9.98	10.45	9.28	9.35	10.41	10.07	10.65	11.84	11.30
1988	9.48	10.78	9.23	9.98	10.45	9.62	10.05	10.53	10.51	9.72	10.48	9.45
AV.	10.21	9.71	9.68	9.58	9.53	9.51	9.62	10.25	10.48	10.17	10.84	9.77
MIN.	8.60	6.35	7.36	8.53	7.62	8.64	8.95	9.39	9.15	8.43	9.06	7.99
MAX.	11.24	11.26	10.89	10.57	10.44	10.04	10.16	10.57	11.05	11.12	11.84	11.39

MEAN MONTHLY DISTRIBUTION OF SUNSHINE HOURS MOROMBE STATION IN 1969-1988

YEAR	UNIT; hrs./day											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	7.07	7.00	8.40	7.67	8.55	8.43	8.97	-	-	10.07	8.66	6.55
1970	5.94	7.37	8.31	9.17	9.77	8.94	9.34	8.60	10.29	9.86	7.81	8.73
1971	7.11	6.75	8.13	8.98	8.78	8.76	8.50	9.35	9.63	-	8.31	8.05
1972	7.87	6.32	7.03	9.15	8.06	8.26	7.99	8.05	9.23	8.79	-	-
1973	-	-	8.35	8.41	8.93	8.11	8.28	9.25	9.74	9.07	8.07	6.64
1974	9.15	6.96	7.53	8.26	6.86	7.88	8.96	9.64	10.01	9.15	8.27	5.36
1975	7.15	6.81	8.39	9.19	8.97	8.85	8.90	9.84	9.75	9.31	10.24	7.10
1976	9.06	8.44	9.58	8.28	8.63	8.92	8.14	8.86	9.15	8.75	10.45	7.05
1977	9.16	7.69	6.92	9.35	8.83	8.91	8.67	9.24	9.23	9.90	7.77	8.70
1978	8.28	8.85	7.85	7.98	9.26	7.64	7.77	10.22	9.39	8.72	9.50	7.63
1979	8.65	8.05	8.88	8.70	8.82	9.11	6.95	9.03	8.91	10.06	9.27	6.99
1980	8.06	9.20	8.36	8.87	9.57	8.86	8.63	-	8.83	9.61	9.60	9.01
1981	10.37	6.57	7.64	8.05	8.37	8.30	9.08	9.80	-	8.55	9.63	9.05
1982	4.71	7.42	6.57	8.39	8.19	8.62	8.73	10.04	9.08	9.54	9.22	9.44
1983	9.14	8.47	8.56	9.44	9.16	9.05	8.94	9.43	10.06	9.98	10.44	7.22
1984	7.05	5.93	7.15	9.26	8.96	7.97	8.92	-	9.17	9.36	8.28	7.72
1985	-	9.22	7.33	8.13	8.80	8.45	9.25	9.27	9.01	9.34	7.87	6.55
1986	9.21	6.61	8.77	8.34	8.99	9.66	8.97	9.39	10.09	7.14	8.10	8.28
1987	6.79	9.00	8.12	8.79	9.48	8.81	7.73	9.97	9.44	9.11	8.64	9.38
1988	6.47	8.65	7.88	9.24	-	-	9.49	10.07	10.32	8.86	7.77	7.68
AV.	7.85	7.85	7.99	8.69	8.79	8.81	8.61	9.46	9.52	9.22	8.84	7.74
MIN.	4.71	5.93	6.57	7.67	6.86	7.64	6.95	8.60	8.83	7.14	7.77	5.36
MAX.	10.37	9.22	9.58	9.44	9.77	9.66	9.49	10.22	10.32	10.07	10.45	9.44

MEAN MONTHLY DISTRIBUTION OF SUNSHINE HOURS RANOHIERA STATION IN 1969-1988

YEAR	UNIT; hrs./day											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	8.65	9.05	10.33	8.40	9.85	9.61	9.77	10.63	10.43	10.56	10.84	7.63
1970	8.50	10.71	10.24	9.55	10.22	10.06	10.07	10.14	10.35	10.56	10.08	10.06
1971	8.11	9.09	9.07	10.14	9.71	9.99	9.95	10.48	10.47	10.42	10.55	9.42
1972	10.20	5.70	9.11	9.73	9.45	9.62	9.81	10.50	9.95	8.63	11.20	11.19
1973	10.16	8.64	10.52	9.83	10.06	10.03	9.76	-	9.89	10.49	9.08	9.13
1974	10.23	8.75	8.34	9.30	7.91	9.04	9.00	10.21	10.17	10.86	10.60	8.22
1975	8.98	8.88	10.28	10.09	9.79	9.87	9.74	10.35	10.39	10.30	10.93	9.65
1976	9.69	9.33	10.09	8.92	9.58	9.78	9.45	9.60	10.39	10.05	11.61	8.45
1977	8.74	7.98	9.71	10.41	9.74	9.98	9.64	10.29	10.04	10.72	10.14	9.84
1978	9.90	10.19	9.10	9.22	10.01	8.87	9.65	10.22	9.84	9.91	11.19	8.03
1979	10.27	8.60	10.35	9.70	9.45	9.86	9.13	9.68	9.27	10.08	10.44	10.79
1980	10.77	8.48	10.05	8.49	9.69	8.68	8.36	10.53	9.99	10.63	11.28	-
1981	10.70	8.40	9.61	8.99	9.62	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	7.70	9.39	-	9.77	9.90	10.01	10.31	10.53	8.46	10.51	10.57
1987	10.04	10.76	8.51	10.49	10.43	9.09	9.48	-	-	10.67	11.44	11.29
1988	8.16	9.32	8.40	10.23	10.38	10.82	10.26	10.32	-	9.78	11.30	9.55
AV.	9.54	8.85	9.57	9.56	9.73	9.63	9.61	10.25	10.16	10.14	10.75	9.56
MIN.	8.11	5.70	8.34	8.40	7.91	8.68	8.36	9.60	9.27	8.46	9.08	7.63
MAX.	10.76	10.76	10.52	10.48	10.42	10.06	10.26	10.63	10.53	10.86	11.61	11.28

COLLECTED RECORD; WIND VELOCITY

MONTHLY MEAN WIND VELOCITY TOLIARA STATION IN 1969-1988

YEAR	UNIT: KM/HR											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	9	11	10	9	11	11	10	14	16	14	15	14
1970	15	16	20	16	15	16	14	15	14	17	13	15
1971	16	16	15	15	15	16	13	14	16	16	17	16
1972	15	15	14	14	12	13	14	12	13	14	16	14
1973	14	14	13	16	12	14	12	13	13	14	14	14
1974	12	12	12	11	10	10	11	12	12	14	10	8
1975	9	9	11	8	10	9	7	15	11	16	14	12
1976	11	9	9	11	13	12	13	13	12	14	12	13
1977	12	11	12	11	11	12	13	17	13	16	14	13
1978	14	13	13	12	12	11	14	11	13	10	13	11
1979	12	10	10	8	6	7	12	12	12	13	12	12
1980	14	9	12	10	10	10	11	13	12	14	11	12
1981	10	10	12	13	11	10	10	12	12	14	11	12
1982	10	10	10	9	9	8	9	10	15	13	12	11
1983	10	9	10	9	8	10	12	14	12	15	14	12
1984	12	9	10	9	8	9	11	13	14	13	12	12
1985	10	12	10	11	9	9	10	13	12	12	13	12
1986	10	14	9	8	8	11	9	8	11	10	11	10
1987	12	11	10	12	11	10	8	8	10	13	12	12
1988	11	-	-	-	-	-	-	-	-	-	-	-
AV.	12	12	12	11	11	11	11	13	13	14	13	12
MIN	9	9	9	8	6	7	7	8	10	10	10	8
MAX	16	16	20	16	15	16	14	17	16	17	17	16

MONTHLY MEAN WIND VELOCITY MORUHE STATION IN 1969-1988

YEAR	UNIT: KM/HR											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	10	13	11	10	11	12	13	16	14	15	17	15
1970	14	16	17	15	10	12	12	13	13	16	12	13
1971	14	15	13	15	15	17	15	19	21	20	19	18
1972	16	23	14	15	14	15	18	19	19	20	21	17
1973	19	16	14	15	15	18	-	-	21	20	-	-
1974	-	-	-	-	-	14	18	19	20	24	20	16
1975	17	19	18	17	15	-	16	18	20	23	-	19
1976	17	13	11	7	8	8	10	11	11	11	11	8
1977	10	11	8	7	8	7	10	10	18	11	9	7
1978	8	7	6	6	7	6	7	5	8	7	9	8
1979	9	5	7	5	5	7	10	11	-	15	14	11
1980	14	11	13	9	10	9	12	12	11	13	10	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	12	9	-	7	10	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	15	13	12
1988	14	10	10	11	11	10	12	13	-	-	-	-
AV.	13.5	13.15	11.61	11	10.46	11.15	12.75	13.83	16	16.15	14.09	13.09
MIN	8	5	6	5	5	6	7	5	8	7	9	7
MAX	19	23	18	17	15	18	18	19	21	24	21	19

MONTHLY MEAN WIND VELOCITY RANOHIRA STATION IN 1969-1988

YEAR	UNIT: KM/HR											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	8	10	6	5	6	7	7	-	-	4	5	4
1970	4	4	4	4	3	4	3	5	4	5	4	5
1971	6	7	9	9	7	10	8	11	12	12	12	11
1972	7	14	8	7	8	6	7	9	14	17	15	14
1973	15	14	13	16	11	-	-	-	12	15	15	13
1974	12	11	17	14	-	-	-	-	-	-	-	16
1975	17	14	14	7	-	6	9	15	18	14	13	12
1976	17	16	15	9	11	13	12	13	14	16	16	13
1977	16	16	11	12	10	10	10	12	10	11	12	12
1978	11	11	13	9	7	8	10	9	11	12	12	13
1979	11	12	9	9	8	11	11	8	11	11	11	9
1980	11	10	9	7	8	6	9	10	11	10	8	9
1981	7	7	6	7	6	5	6	7	9	12	10	8
1982	8	10	8	5	6	6	6	9	12	12	10	9
1983	7	7	6	7	7	7	8	-	9	11	9	9
1984	8	6	6	7	6	7	8	9	8	8	6	4
1985	5	6	-	-	4	4	5	6	6	6	5	5
1986	5	6	6	4	4	6	6	6	5	6	5	5
1987	5	4	4	5	5	5	3	10	12	14	13	-
1988	-	-	-	-	-	-	-	-	11	9	8	7
AV.	9.473	9.736	9.111	7.944	6.882	7.117	7.529	9.266	10.41	10.78	9.947	9.368
MIN	4	4	4	4	3	4	3	5	4	4	4	4
MAX	17	16	17	16	11	13	12	15	18	17	16	16

COLLECTED RECORD; EVAPORATION

MEAN MONTHLY EVAPORATION TOLIARA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	146.1	135.0	173.7	117.3	177.8	157.9	159.5	241.8	172.8	157.4	175.5	156.2
1970	144.3	150.3	202.1	153.5	156.8	180.4	137.9	166.0	129.8	162.9	137.4	169.0
1971	193.4	124.7	132.7	157.3	139.6	181.4	158.0	179.1	158.3	158.9	173.0	154.3
1972	162.8	132.1	119.8	134.6	108.8	125.2	139.1	141.0	147.4	141.6	157.3	157.0
1973	183.6	156.9	182.8	196.6	142.8	147.0	156.9	193.3	145.7	159.4	159.1	158.3
1974	163.4	151.3	173.8	153.9	129.0	131.6	152.8	187.4	174.5	170.1	167.5	141.4
1975	157.3	137.6	169.4	129.5	139.2	120.6	132.3	179.1	191.8	183.0	176.2	170.7
1976	195.9	169.0	201.4	174.5	172.2	164.0	181.2	136.5	166.1	193.3	190.2	230.2
1977	188.2	155.1	136.9	164.1	160.6	151.4	163.3	199.3	181.0	224.1	210.6	172.2
1978	230.7	163.2	193.3	131.2	126.7	117.1	145.2	142.9	147.0	146.1	159.7	145.1
1979	157.3	136.5	165.7	143.6	156.7	143.0	134.0	115.9	143.9	140.5	135.6	138.6
1980	180.2	-	171.3	126.7	146.0	125.6	150.6	166.6	145.0	162.0	143.1	133.9
1981	127.8	96.6	125.2	128.2	-	142.9	151.4	185.4	154.9	185.2	143.3	158.2
1982	138.9	148.0	132.9	142.8	155.1	143.6	172.2	175.1	231.6	197.1	168.6	185.7
1983	159.5	126.4	173.9	159.2	167.9	177.0	178.4	199.9	161.5	185.9	161.6	162.5
1984	160.0	109.9	162.3	162.9	139.9	115.5	190.1	186.4	163.0	116.7	140.7	199.4
1985	164.4	206.7	162.6	174.1	178.2	159.7	154.3	204.2	129.3	125.5	187.1	168.2
1986	171.8	171.3	158.7	162.4	143.8	187.9	177.5	157.2	193.4	146.0	145.4	107.5
1987	148.2	145.3	151.2	150.0	152.8	203.6	149.1	183.3	144.1	106.8	145.0	182.0
1988	115.6	59.7	59.4	62.7	90.9	99.5	126.2	142.8	133.9	141.4	138.9	145.9
AV.	164.5	140.8	157.5	146.3	145.7	148.7	155.5	173.2	160.8	160.3	160.8	157.8
	5.3	5.0	5.1	4.9	4.7	5.0	5.0	5.6	5.4	5.2	5.1	5.1
MIN	115.6	59.7	59.4	62.7	90.9	99.5	126.2	115.9	129.3	106.8	135.6	102.0
MAX	230.7	206.7	202.1	196.6	178.2	203.6	190.1	204.2	231.6	224.1	210.6	230.2

MEAN MONTHLY EVAPORATION HOROMBE STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	102.9	93.5	118.6	93.6	102.6	115.8	130.4	162.1	135.6	122.2	142.6	103.3
1970	95.1	141.8	177.2	168.4	147.8	135.6	150.5	145.0	134.2	187.2	126.0	166.0
1971	119.9	91.3	106.3	112.5	115.2	104.1	126.5	183.5	156.5	161.4	178.6	147.7
1972	133.6	105.8	107.5	124.5	114.6	108.7	144.1	146.3	148.3	137.0	181.2	147.4
1973	155.1	198.2	131.8	140.7	123.1	133.8	138.5	-	139.0	145.4	128.5	133.0
1974	138.3	105.1	130.9	109.3	92.4	97.7	125.9	148.1	145.3	157.5	147.6	114.0
1975	143.9	106.6	127.8	114.7	131.2	128.9	142.7	162.8	151.7	161.6	131.0	128.9
1976	142.5	101.9	129.8	122.8	125.9	131.0	148.0	120.4	141.6	152.1	157.1	125.0
1977	102.1	103.1	90.2	108.1	111.4	96.3	122.6	148.2	132.3	147.3	135.4	136.0
1978	142.9	113.3	135.1	99.6	131.3	94.5	140.8	124.9	136.0	137.1	171.9	138.6
1979	160.7	147.4	119.7	163.9	110.9	112.4	112.2	133.1	156.1	158.8	130.9	135.8
1980	162.0	115.7	130.9	126.0	173.5	98.3	135.8	139.9	121.7	168.0	125.6	-
1981	133.6	91.2	131.2	142.9	145.7	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	128.3	164.5	140.6	139.4	180.3	147.6	191.1	140.1
1987	127.0	108.4	135.0	154.0	173.0	179.3	146.6	-	-	257.6	205.3	192.5
1988	222.0	131.1	122.9	120.3	147.2	157.6	164.0	166.8	-	145.2	223.0	159.2
AV.	138.8	111.0	126.5	126.8	129.6	123.9	137.9	146.2	144.5	159.1	158.4	140.5
	4.5	4.0	4.1	4.2	4.2	4.1	4.4	4.7	4.8	5.1	5.3	4.5
MIN	95.1	91.2	90.2	93.6	92.4	94.5	112.2	120.4	121.7	122.2	125.6	103.3
MAX	222.0	147.4	177.2	168.4	173.5	179.3	164.0	166.8	180.3	257.6	223.0	192.5

MEAN MONTHLY EVAPORATION RANKHIRA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	120	97	113	100	100	126	138	-	-	249	245	167
1970	103	112	142	157	177	141	160	200	224	272	162	163
1971	120	83	112	145	130	127	144	175	-	-	193	150
1972	114	112	109	137	119	111	133	169	202	183	161	162
1973	134	76	87	98	109	99	96	127	127	247	163	84
1974	117	73	101	82	68	83	-	137	-	199	173	82
1975	96	73	103	97	108	102	-	141	-	194	185	105
1976	143	102	107	86	102	110	110	117	170	173	221	127
1977	98	98	-	95	119	108	121	154	191	200	169	151
1978	138	137	129	115	139	-	115	172	-	173	188	133
1979	131	110	-	-	118	99	125	154	197	-	-	96
1980	109	146	162	139	126	125	147	192	-	-	184	139
1981	165	85	97	136	-	-	136	-	-	167	176	136
1982	66	101	73	84	92	106	127	170	198	189	198	191
1983	181	114	125	149	170	138	168	181	207	229	229	136
1984	101	65	80	98	131	114	133	144	173	184	114	111
1985	133	142	97	106	114	107	138	156	171	175	107	100
1986	125	75	109	131	120	131	146	185	251	161	138	106
1987	78	115	107	115	135	120	107	185	214	190	178	165
1988	113	112	131	141	-	120	132	176	205	199	133	120
AV.	119	102	110	116	121	115	132	163	194	199	175	131
	3.8	3.6	3.6	3.9	3.9	3.8	4.3	5.3	6.5	6.4	5.8	4.2
MIN	66.0	65.4	73.2	81.9	68.1	83.0	95.6	117.2	126.5	160.5	107.2	82.2
MAX	181.2	146.3	161.6	157.0	176.9	141.1	168.4	200.0	251.2	272.1	228.9	191.3

MEAN MONTHLY EVAPORATION
SAKARARA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	64.5	52.7	59.4	56.8	58.3	66.2	80.8	108.6	127.9	145.1	149.5	96.7
1970	63.9	70.6	91.7	85.0	93.5	83.2	93.7	121.9	144.0	143.2	95.8	98.3
1971	68.4	42.9	53.0	64.8	58.4	57.6	72.3	100.3	124.4	125.4	121.4	95.5
1972	70.7	52.2	45.5	65.0	51.3	42.5	65.8	82.8	114.3	123.4	129.1	152.9
1973	107.9	67.0	87.6	70.3	71.1	69.8	68.9	91.7	115.4	155.6	109.2	67.2
1974	91.0	62.2	64.3	49.5	51.7	50.3	70.6	100.6	113.8	125.2	102.0	65.9
1975	73.5	64.7	73.2	79.5	79.7	89.9	88.3	-	69.5	91.2	93.2	-
1976	104.4	63.3	83.9	60.6	75.1	-	89.0	-	147.6	132.5	166.1	114.4
1977	97.4	102.4	81.0	97.6	117.2	110.8	129.4	160.4	202.5	248.8	181.3	114.2
1978	131.8	98.3	104.8	99.0	161.3	-	-	-	-	196.9	207.3	132.5
1979	145.7	105.1	100.6	128.1	98.6	87.8	89.1	119.7	135.7	176.6	127.5	62.1
1980	113.2	122.2	120.6	99.2	90.4	85.7	56.8	128.1	151.3	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	89.0	63.1	67.9	62.3	-	-	-	-	-	-	-	65.5
1987	73.0	55.0	-	60.0	51.0	50.0	52.0	42.0	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	92.5	72.8	79.5	77.0	81.0	72.2	79.7	105.9	131.5	151.3	134.3	98.7
	3.0	2.6	2.6	2.6	2.6	2.4	2.6	3.4	4.4	4.9	4.5	3.2
MIN	63.9	42.9	45.5	49.5	51.0	42.5	52.0	42.0	69.5	91.2	93.2	65.5
MAX	145.7	122.2	120.6	128.1	161.3	110.8	129.4	160.4	202.5	248.8	207.3	152.9

MEAN MONTHLY EVAPORATION
BEROROKA STATION IN 1969-1988

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1969	84.5	39.4	103.4	99.8	-	-	-	-	-	-	-	103.0
1970	-	-	-	-	-	-	-	-	-	-	116.8	-
1971	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	69.6	86.0	111.0	153.6	159.8	169.5	218.8	-	-	-	125.4
1974	144.8	101.9	141.9	129.2	130.5	137.6	180.4	231.9	227.1	281.0	-	122.7
1975	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-
AV.	114.7	70.3	110.4	113.3	142.1	148.7	175.0	225.4	-	-	-	117.0
	3.7	2.5	3.6	3.8	1.6	5.0	5.6	7.3	0.0	0.0	0.0	3.8
MIN	84.5	39.4	86.0	99.8	130.5	137.6	169.5	218.8	227.1	281.0	116.8	103.0
MAX	144.8	101.9	141.9	129.2	153.6	159.8	180.4	231.9	227.1	281.0	116.8	125.4

3. HYDROLOGICAL DATA

MONTHLY DISCHARGE

River System; MANGOKY River; MANGOKY
 Station; BEVOAY
 Catchment Area; 53,225km Elevation; 39.25m

YEAR	UNIT; m3/sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1960	-	-	-	-	-	-	-	1.15	0.76	0.54	0.46	0.61
1961	53.9	14.9	14.04	5.22	2.14	1.76	-	-	-	-	-	4.09
1964	-	-	-	-	-	-	-	-	-	-	330	844
1965	1262	978	563	361	174	150	165	193	161	152	129	760
1966	782	565	306	227	204	123	99	81	91	68	105	548
1967	1318	575	1596	577	211	161	152	112	118	159	247	578
1968	558	1416	519	192	137	177	110	93.7	64.4	59	135	586
1969	2130	4240	1130	571	282	186	143	137	107	79.4	-	-
1981	-	-	-	-	-	-	-	-	-	-	287	470
1982	4480	1470	2410	692	254	190	184	144	112	129	255	391
1983	853	1890	559	298	145	125	122	98.7	74	96.4	-	-
AV.	1429.	1393.	887.1	365.4	176.1	139.2	139.2	122.9	104.0	106.1	186.0	522.7

MONTHLY DISCHARGE

River System; MANGOKY River; IHOZY
 Station; IHOZY
 Catchment Area; 1,635km Elevation; 96.28m

YEAR	UNIT; m3/sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1954	142.5	130.6	40	25	15.2	14.1	10.8	7.8	5.3	6.5	13	33.3
1955	102.8	26	15.2	10.2	5.6	3.8	2.8	4.7	3.6	3	2.6	13
1956	26.8	26.1	26.6	16.1	7	3.3	5.7	7.3	7.5	6.5	6.9	24.2
1957	48.7	13	22.1	10.3	5.9	3.4	4.4	4.4	4.4	2	1.25	3.7
1958	19.03	37.8	23	9.2	2.5	2.8	5.6	9.8	9.9	2	8.6	43.6
1959	64.2	23.6	16.5	20	8.9	5	2.7	3.2	4	3.6	13.6	21.9
1960	32	31.7	26.3	12.3	6.7	3	3.7	5.4	3.8	3.5	1.6	17.1
1961	107.6	27.5	24.1	14.8	6.6	5.7	5.5	5.4	4	6	7.2	57.7
1962	36.8	21.2	9	7.3	8	5.7	5.3	5.4	5.1	6.9	7.9	24.5
1963	32.5	47.2	22.1	12.9	10.5	11.3	8	5.3	4.7	3.4	6.2	131.8
1964	23.6	34.1	26.3	7.7	4.9	4.4	4.1	3.7	2.1	1.7	3.5	27
1965	40	34.4	27	16.6	6.4	2.5	0.7	3.7	5.5	8.4	5.8	26
1966	15.2	35.6	21.3	10.8	5.5	4.1	3.6	2.3	2.2	1.7	-	-
1967	-	-	-	-	-	-	-	-	-	-	10.3	17
1968	9.61	23	10.8	6.02	3.7	2.6	2.11	1.49	0.93	0.69	-	-
AV.	50.09	36.55	22.16	12.80	6.957	5.121	4.643	4.992	4.502	3.992	6.803	33.90

MONTHLY DISCHARGE

River System; MANGOKY River; zomandao
 Station; Ankaramena
 Catchment Area; 6510km Elevation; 96.28m

YEAR	UNIT; m3/sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1962	10	12.95	11.62	5.32	4.39	3.1	2.6	3.12	1.78	3.07	7.71	21.15
1963	47.9	32.03	11.96	3.1	1.76	2.75	2.23	1.12	0.65	0.46	6.91	22.2
1964	24.5	51.4	25.5	4.22	2.2	2.2	2.16	3.96	1.8	1.29	4.43	18
1965	50.3	14.8	12.4	7.37	2.92	2.05	6.1	6.62	6.45	5.76	3.97	29.6
1966	13.3	25.3	8.84	6.53	6.41	3.33	2.49	2.23	2.49	2.27	2.49	32.1
1967	39.4	18.4	28.2	11.8	4.07	2.37	1.94	1.8	1.51	3.45	11	10.3
1968	11.1	34.1	13.3	5.65	3.3	2.79	2.3	1.46	0.64	0.42	1.94	16.7
1969	30.7	-	-	-	-	-	-	-	-	-	-	-
AV.	28.4	26.99	15.97	6.284	3.578	2.655	2.831	2.901	2.188	2.388	5.492	21.57

MONTHLY DISCHARGE

River System; MANGOKY River; Matsialra
 Station; MALAKIALINA
 Catchment Area; 11,150km Elevation; 94.120m

YEAR	UNIT; m3/sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1953	474	495	857	249.7	148.2	131.9	100.6	89.2	83	51.9	59.1	257
1954	832	116.5	640	174	87.4	90	42	35	40	40	60	420
1955	981	184	241	163	80	70	50	70	35	30.1	74.8	482
1956	992	473	392	175	93.1	73	64.6	52	44	44.1	56.9	309
1957	607	477	522	188	118.5	75.11	60.1	51.4	46.4	41.3	100.9	219.6
1958	369	430	415	103.6	74.6	68.5	65	72.3	69.8	49.2	114.3	622
1959	734	276.6	65.3	253	78	101	80	84.7	59.2	34.5	134.7	554
1960	787	732	171.6	72.3	48.3	43.3	37.7	29.1	22.2	26.9	28	181
1961	382	108	334	113.5	61	49.3	45	49	35.9	37.3	49.6	389
1962	300	325	147	86.6	67.4	52.2	43.9	39.8	30.8	37.1	157.7	333
1963	631.2	772	251.9	123.8	79.4	102	67.6	53	38.7	34.1	-	-
av.	644.4	399.0	366.9	154.7	85.08	77.84	59.68	56.86	45.90	38.77	83.6	376.6

MONTHLY DISCHARGE

River System; MANGOKY River; Manantanana
 Station; TSITONDROINA
 Catchment Area; 6,675km Elevation; 95.687m

YEAR	UNIT; m3/sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1953	255.5	289	322	103	41.2	57.5	36.4	26.7	26.3	15.5	18.4	174
1954	446	375	409	93.7	51.2	49	46.7	40.8	35.6	28.3	116	309
1955	406	68.4	38.8	38.7	27.6	24.1	19.7	19.1	13.7	11.1	39.6	225
1956	448	189	73.6	31	26.5	24.8	20.5	16.1	15.5	14.9	46.1	329
1957	261	165	644	216	32.2	26.7	23.7	20.6	18.5	18.1	21.8	282.6
1958	210.7	296.5	48.3	25	17.6	12.8	10.4	17.7	8.3	8.1	41.5	504
1959	162.4	48.5	235	113.2	46.4	33.3	25.1	18.6	11.8	8.2	57.3	132.1
1960	159.4	188.7	92.5	29.4	24.1	21.7	15.8	14.9	15.1	7.1	6.2	165.6
1961	340	159.2	222	38.2	15	11.4	12.4	19.1	11.7	12	27.9	233
1962	124.6	151	130.4	40.3	29.1	17.8	10.8	8.1	4.5	6.2	84.4	152
1963	340	188	125.4	97.1	16.4	41.1	10.6	8	3.1	1.8	37	178.9
1964	155.8	240.4	2.1	6.9	2.2	22	10.9	12.5	4.3	12.4	44.9	116.2
1965	302.2	211	114.1	83.8	28.8	22.4	26.3	42.9	29.9	16.8	21.2	227
1966	136	117	49.1	62.7	63.2	30.9	21.1	23.3	23.4	11.6	18.2	138
1967	290	271	357	95.4	31.5	18	22.8	13.2	19.1	47.8	72.7	152
1968	60.2	133	102	30	21.2	21.3	14.8	12.5	7.98	6.24	23	106
AV.	256.1	193.1	185.3	69.02	29.63	27.17	20.5	19.63	15.54	14.13	42.26	214.0

MONTHLY DISCHARGE

River System; MANGOKY River;
 Station; Vandrove
 Catchment Area; Elevation;

YEAR	UNIT; m ³ /sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1966	-	-	-	-	-	-	-	-	-	-	91	467
1967	1700	681	1833	618	215	155	135	111	119	145	-	-
AV.	1700	681	1833	618	215	155	135	111	119	145	91	467

MONTHLY DISCHARGE

River System; Fiherenana River; Fiherenana
 Station; Behompy
 Catchment Area; 1,635km Elevation; 96.28m

YEAR	UNIT; m ³ /sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1981	-	-	-	-	-	-	-	4.5	5.6	8.6	24.9	52.4
1982	113.0	125.0	107.0	52.2	32.6	21.8	14.0	25.0	11.2	14.3	-	-
AV.	113.0	125.0	107.0	52.2	32.6	21.8	14.0	14.7	8.4	11.5	24.9	52.4

MONTHLY DISCHARGE

River System; Onilahy River; Onilahy
 Station; Mahamena
 Catchment Area; 1,635km Elevation; 96.28m

YEAR	UNIT; m ³ /sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1981	-	-	-	39.1	38.9	39.3	35.8	31.9	36.9	39.1	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-
AV.	-	-	-	39.1	38.9	39.3	35.8	31.9	36.9	39.1	-	-

MONTHLY DISCHARGE

River System; Onilahy River; Mangoky
 Station; Betroka
 Catchment Area; 2345km Elevation; m

YEAR	UNIT; m ³ /sec											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1967	-	-	-	-	-	-	-	-	-	-	16.2	21.5
1968	16.5	35.4	12.4	6.4	4.6	6.1	4.1	3.2	2.2	1.9	4.7	13.5
1969	74.5	62.5	46.1	23.7	13.7	8.1	5.8	4.4	2.7	2.9	-	-
AV.	45.5	49.0	29.3	15.1	9.1	7.1	5.0	3.8	2.5	2.4	10.5	17.5

4. GEOPHYSICAL PROSPECTING
(CALCULATION SHEET)

