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وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

شعبة احصائيات المناخ

بغداد

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P R E F A C E

Prior to 1939, the work of coordinating the measurements of rain fall made in Iraq by various authorities was done by the Geological Department of the Ministry of Economics in 1937, this department published a table giving the rainfall for a considerable number of stations up to 1936. The records from some of these stations extended from 1928 to 1936 but many of the others were of much shorter duration. In fact many stations were not equipped with gauges until late in 1935.

In 1939 the work was entrusted to the Meteorological Service Ministry of Defence and much time has been spent in an attempt to secure uniformity of exposure and procedure. This has involved a considerable amount of travelling especially in northern Iraq where the gauges are rather inaccessible but where a knowledge of the rainfall is of vital importance for a variety of problems in Hydrology, Agriculture, Irrigation and Civil Engineering .

The following authorities maintain raingauges in Iraq :

1- Meteorlogical Department, Ministry of Communications .
2- Iraq Railways (I.R.)
3- Director General of Irrigation (Irrig.).
4- Director General of Agriculture (Agri.).
5- Ministry of Education (Schools) .

The gauges used by the Meteorological Department are the standard 8 inch type used by the Meteorological Office Air Ministry London : The other authorities use 5 inch gauges of the "snowdon" type with measuring glasses calibrated in millimeters except for the Iraq Railways who use a locally produced gauge and a standard measuring glass calibrated in inches. Experiments are meantime being conducted with a view to ascertaining whether this gauge is completely satisfactory or not.

As regards exposure, the Meteorlogical Department employs the standard method of exposing the gauge at ground level with rim about 12 iches from the ground. It is however impossible to carry out this method in villages where no gardens are available and accordingly the majority of the gauges are exposed on the flat roofs of the local post offices or similar buildings. As these roofs all have a layer of "mutti" and are in most cases enclosed by a low wall about 2 feet high, this exposure is quite satisfactory. It is however in many cases spoiled by the fact that the gauge has been built into a squqre concrete block about 2 feet high with the rim about 12 inches above the concrete block. These will gradually be replaced by a simple method in which only mutti is employed. The Iraq Railways who maintain gauges at many stations have already agreed to bandon their present method in which the concrete pillar is 3 to 4 feet high and to expose their gauges in the conventional manner in the station garden or in some conveneit . fenced space near the garden.

The measurements of rainfall are made either by officials of the Meteorological Department, Irrigation Department, Agriculture Department, Police Department, Posts and Telegraphs Department, Iraq Petroleum Company, Schools, or by the stations masters of the Iraq Railways.

In the following tables are :

(a) The monthly total rainfall figures in millimeters from begining of each station till year 1956 if available.
(b) The average or mean of rainfall for the longest period available for each station till year 1956.
(c) The total monthly rainfall for each station from 1957 up to 1959 if available.

If in monthly columns oposite a station a dash (-) is put this means that the total rainfall for that month is not available and the total of the year for rainfall is put between two brackets, ( ) .

If there is no record at all or empty spaces under any month of any station this means that the total rainfall for that month is considere (0.0) mm. or no rainfall at all.

In Maps the lines of equal rainfall (isohyets) on these charts are drawn in Purple and are numbered in millimeters . The black line is for boundaries of countries , rivers and zones .

Geographical Datas and Period of records for the different Precipitation stations

(b)

Station	Latitude	Longitude	Height above MSL in Meters	Period	Station	Latitude	Longitude	Height above MSL in meters	Peri
Mosul	36 19 N	43 09 E	222.6 m.	1923-1958	Kirkuk	35 28 N	44 24 E	330.8 m.	1935-1
Khanaqin	34 18 N.	45 26 E	201.2 ..	1936-1958	Baghdad	33 20 N	44 24 E	34.1	1937-1
Habbaniya	33 22 N	43 34 E	43.6	1935-1959	Rutbah	33 02 N	40 17 E	615.5	1928-1
Hai	32 10 N	46 03 E	14.9	1940-1958	Diwaniya	31 59 N	44 59 E	20.4	1939-1
Nasiriya	31 01 N	46 14 E	3.0	1940-1958	Basrah	30 34 N	47 47 E	2.4	1937-1
Zakho	37 08 N	42 41 E	442	1935-1957	Amadia	37 05 N	43 30 E	1236	1935-1
Rawanduz	36 37 N	44 33 E	1006	1935-1959	Aqra	36 45 N	43 53 E	716	1935-1
Tel-Awainat	36 41 N	42 24 E	346	1938-1959	Sinjar	36 19 N	41 50 E	476	1935-1
Telaafar	36 22 N	42 28 E	273	1939-1959	Qayara	35 48 N	43 17 E	180	1936-1
Arbil	36 11 N	44 00 E	414	1935-1959	Chamchamal	35 32 N	44 51 E	701	1939-1
Sulaimaniya	35 33 N	45 27 E	853	1935-1958	Penjwin	35 37 N	45 58 E	1311	1939-1
Bakrajo	35 34 N	45 23 E	750	1936-1957	Halabja	35 11 N	45 59 E	724	1935-1
Iftikhar	35 03 N	44 27 E	204	1935-1959	Chuarta	35 44 N	45 33 E	1356	1942-1
Salahddin	36 37 N	44 13 E	1088	1940-1957	Rayat	36 41 N	44 57 E	2610	1942-1
Sanat	36 46 N	42 48 E	-	1944-1959	Duhok	36 52 N	43 02 E	860	1943-1
Mirzarustam	36 03 N	44 58 E	459	1945-1957	Shaqlawa	36 23 N	44 20 E	-	1945-1
Sarsank	36 58 N	43 32 E	1046	1945-1959	Binkird	36 03 N	45 03 E	700	1952-1
Tuz	34 53 N	44 39 E	220	1935-1959	Ana	34 28 N	41 27 E	-	1935-1
Diala	34 05 N	45 01 E	68	1943-1957	Jalawlaa	34 16 N	45 09 E	119	1935-
Hit	33 38 N	42 50 E	58	1952-1959	Karbalaa	32 37 N	44 01 E	29	1935-
Hindiya	32 42 N	44 17 E	24	1936-1959	Hilla	32 29 N	44 26 E	27	1935-
Kut	32 30 N	45 45 E	19	1935-1959	Mandily	33 45 N	45 33 E	137	1935-
Nukhaib	32 02 N	42 15 E	305	1935-1956	Amara	31 51 N	47 10 E	9	1935-
Shabicha	30 42 N	43 41 E	-	1935-1956	Samawa	31 18 N	45 16 E	6	1935-
Badaa	31 26 N	46 11 E	9	1936-1957	Ur	30 58 N	46 08 E	4	1935-
Ghabishiya	30 44 N	47 05 E	4	1935-1957	Maqil	30 34 N	47 47 E	2	1935-
Fao	29 59 N	48 30 E	2	1935-1957	Bir Ugla	37 00 N	42 13 E	420	1935-
Dibis	35 41 N	44 05 E	239	1936-1946	Baiji	34 56 N	43 29 E	115	1935-
Samirra	34 11 N	43 50 E	65	1935-1959	Rumadi	33 25 N	43 17 E	49	1923-
Haditha	34 04 N	42 22 E	140	1934-1959	Hawijah	35 31 N	44 18 E	305	1940-
T 1	34 13 N	41 20 E	318	1936-1941	T 2	34 27 N	40 10 E	-	1936-
H 1	33 47 N	41 28 E	409	1934-1944	H 2	33 21 N	40 36 E	593	1934-
H 3	32 57 N	39 45 E	13	1934-1944	Qalat-sukar	31 52 N	46 05 E	13	1935-
Ali al Gharbi	32 28 N	46 41 E	13	1939-1957	Salman	30 28 N	44 43 E	202	1935-
Bussaya	30 02 N	46 09 E	144	1935-1963					

B A G H D A D

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1937	-	-	-	18.2	6.5					21.2	35.4	tr.	(81.3)
1938	71.0	37.9	69.6	6.1	0.6		tr.		tr.	tr.	34.3	97.1	316.6
1939	36.0	28.1	16.3	25.0	tr.	tr.			tr.	0.2	30.3	8.9	144.8
1940	51.0	34.4	9.2	10.7	0.2			tr.		9.0	0.9	11.4	126.8
1941	0.6	41.1	12.7	32.0	tr.	tr.				4.6	tr.	38.6	129.6
1942	4.2	11.8	16.4	tr.	tr.	tr.		tr.		8.0	22.5	19.6	82.5
1943	15.1	23.0	31.3	7.5	tr.					3.2	0.3	4.7	85.1
1944	13.6	2.0	23.5	11.3	3.3					tr.	47.2	19.5	120.4
1945	54.5	14.1	1.1	2.7	0.9					0.9	23.2	40.3	137.7
1946	30.2	22.1	50.9	8.2	2.4					0.1	9.2	24.0	147.1
1947	16.2	11.2	52.4	0.7	8.4				tr.	0.1	33.4	23.8	146.2
1948	5.6	20.8	20.6	12.4	0.1					tr.	1.4	24.8	85.8
1949	12.7	31.9	54.9	8.2	0.2						0.1	63.8	171.8
1950	8.9	18.8	13.1	0.3	29.2		tr.			1.9	38.4	10.2	120.8
1951	37.2	85.5	45.5	1.1	0.2				1.3	tr.	33.8	20.9	225.5
1952	7.9	10.6	5.0	26.3	0.8						0.8	20.9	72.3
1953	5.4	34.5	14.8	2.6	tr.					1.9	29.0	8.9	97.1
1954	13.8	44.4	69.5	21.6	tr.				tr.	10.8	27.0	90.1	277.2
1955	54.1	11.3	15.1	31.7	13.0	2.5					12.5	27.5	167.6
1956	7.5	8.5	26.1	44.8					tr.		tr.	4.6	91.5
MEANS	23.4	29.0	28.8	13.6	3.3	0.1	tr.	tr.	0.2	3.1	19.0	28.0	
1957	12.1	51.5	58.9	72.9	28.5	tr.				2.8	77.8	31.5	336.0
1958	74.2	6,8	3.2	tr.	2.0	0.0	0.0	0.0	0.0	tr.	20.3	19.2	125.7

NOTE: tr. (Trace) is less than 0.05 mm.

MOSUL

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	TOTAL
1923	66.6	85.8	30.4	41.9	7.4	tr.	tr.		tr.	13.8	7.8	31.4	285.1
1924	93.4	65.6	47.4	19.2	14.6	2.6			tr.	29.9	29.3	63.5	365.5
1925	19.7	21.1	69.5	15.6	11.3	1.1			tr.	23.1	19.7	69.3	250.4
1926	79.2	163.6	96.5	25.5	15.6	tr.	0.3			1.6	87.1	109.8	579.2
1927	8.0	85.6	9.7	71.3	53.2	tr.			tr.	3.7	46.3	52.7	330.5
1928	43.5	95.4	28.3	2.1	0.1	0.3	1.1		1.3	0.3	109.4	13.4	295.2
1929	34.3	73.3	27.1	42.9	4.8	tr.				tr.	141.0	15.9	339.3
1930	61.7	61.0	2.6	102.1	1.6	2.0	tr.	tr.	tr.	tr.	20.2	76.3	327.5
1931	39.6	92.7	22.0	114.1	5.1	1.4		tr.		4.5	27.0	13.6	320.0
1932	46.4	66.5	45.4	12.0	9.2				0.1		13.7	16.4	209.7
1933	132.3	66.9	76.5	52.3	1.0	0.3			tr.	tr.	4.7	40.8	374.8
1934	40.9	59.6	48.3	49.2	50.8					2.2	6.9	63.5	321.4
1935	22.9	37.9	11.6	41.5	1.9				tr.	6.5	84.0	33.7	240.0
1936	52.0	84.6	19.9	43.2	61.6	tr.	tr.			tr.	79.4	60.1	400.8
1937	84.4	13.1	10.7	44.2	7.5			tr.		54.6	137.0	13.0	364.5
1938	155.9	70.3	42.4	41.0	27.0	tr.	tr.		1.5	tr.	110.4	72.2	520.7
1939	73.3	59.5	138.1	108.4	5.8				tr.	11.3	153.1	135.3	584.8
1940	122.8	59.5	36.2	66.2	5.3	tr.		tr.	tr.	30.7	33.8	52.2	406.7
1941	38.3	93.2	80.7	28.7	tr.				0.5		20.4	165.5	427.3
1942	62.4	76.4	51.2	7.6	0.2	tr.		tr.	0.6	8.3	89.2	9.9	305.8
1943	51.5	134.8	103.6	42.3	8.5	tr.	2.3			14.1	1.7	48.7	407.5
1944	141.9	5.7	42.6	40.7	21.2	tr.	tr.			3.9	126.1	60.4	442.5
1945	105.0	15.7	18.5	12.3	3.3	tr.	tr.		tr.	5.2	80.4	115.8	356.2
1946	84.0	102.7	63.5	74.5	81.2	3.3	tr.		tr.	13.3	10.6	71.2	504.3
1947	88.0	29.8	36.8	8.3	9.6	1.1	tr.			0.1	42.9	36.7	253.3
1948	30.2	26.9	28.6	142.9	22.0			tr.		tr.	9.3	122.3	382.2
1949	42.6	129.6	167.4	74.8	10.9					tr.	tr.	117.6	542.9
1950	107.1	87.9	93.0	11.6	69.8	0.3	tr.		tr.	8.1	14.2	29.4	421.4
1951	58.1	76.9	47.2	45.2	22.5	tr.		tr.	tr.	19.9	24.6	72.5	386.9
1952	37.3	182.3	75.9	42.6	6.2	tr.	tr.		tr.		0.8	20.9	366.0
1953	76.4	84.1	131.1	75.7	9.5	3.8				9.3	45.1	102.6	537.6
1954	48.9	137.1	165.0	128.6	6.4		tr.	0.2	tr.	3.8	19.1	76.1	585.2
1955	41.5	59.7	39.7	73.7	6.7	0.2			1.8		41.7	100.7	365.7
1956	92.6	31.9	50.3	52.0	1.5	tr.		tr.	0.9	1.5	15.0	50.9	296.6
TOTAL	2282.7	2536.7	1957.7	1754.2	563.3	16.4	8.7	0.2	6.7	269.7	1551.9	2134.3	13077.5
MEANS	67.1	74.6	57.6	51.6	16.6	0.5	0.1	0.1	0.2	7.9	45.6	62.8	348.7
1957	55.3	45.2	111.6	85.8	67.7	4.5		tr.	7.1	3.5	44.1	35.1	459.9
1958	83.[illegible]	5.0	39.9	7.1	2.6	0.1	0.0	0.0	0.0	0.4	11.5	[illegible].7	254.2

K I R K U K

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
			-	-	-	-	-	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1939	69.5	92.1	87.4	71.2	5.0	tr.			tr.	10.9	51.0	116.8	503.9
1940	171.9	87.9	58.3	34.5	0.9					19.1	18.5	52.0	443.1
1941	39.2	54.3	88.4	40.7						0.3	7.6	68.1	338.6
1942	46.8	54.2	47.0	9.1	0.1				3.2	12.8	45.4	27.0	245.6
1943	28.7	81.3	136.4	69.6	3.6					6.0	0.2	32.9	358.7
1944	92.5	8.7	49.1	21.3	6.1	tr.			tr.	0.4	79.8	37.0	294.9
1945	85.5	4.8	32.8	8.2	0.2					tr.	139.1	90.0	360.6
1946	137.1	115.1	248.7	141.2	60.5					tr.	22.5	44.8	769.9
1947	50.9	43.2	96.6	tr.	4.4		0.3			2.1	26.6	56.1	280.2
1948	21.9	25.0	29.5	81.4	1.1						2.8	100.9	262.6
1949	35.2	119.8	167.4	51.2	1.2						tr.	162.4	537.2
1950	106.0	78.7	48.2	16.9	45.3	tr.				1.2	2.4	41.5	340.2
1951	40.8	86.8	36.5	9.7	6.6	tr.		tr.	tr.	11.7	28.6	59.4	280.1
1952	6.5	92.6	62.2	44.1	12.5						11.2	92.5	321.6
1953	66.2	123.0	138.7	37.0	1.9					5.1	68.2	35.8	475.9
1954	16.2	97.9	154.1	112.9	2.7			tr.		1.0	50.3	65.5	500.6
1955	62.6	39.2	18.8	79.8	16.5	tr.			tr		28.7	93.9	339.5
1956	33.1	26.5	40.9	49.6						tr.	8.4	47.6	206.1
TOTAL	1110.6	1271.1	1541.0	878.4	168.6	tr.	0.3	tr.	3.2	70.6	591.3	1224.2	6859.3
MEANS	61.7	70.6	85.6	48.8	9.4	0.0	0.0	0.0	0.2	3.9	32.9	68.0	318.1
1957	51.8	93.6	165.6	90.2	111.4	3.0				1.4	52.4	24.4	593.8
1958	37.6	12.3	19.2	0.9	4.5	1.5	0.0	0.0	0.0	tr.	51.4	58.2	185.6

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	19.3	111.3	19.3	38.9	77.5					0.0	24.1	76.2	366.6
1937	21.8	38.4	22.9	57.7	10.4					82.3	29.5	3.0	266.0
1938	145.5	42.3	23.7	7.4	12.7		9.1	1.9	tr.	tr.	93.6	138.7	474.9
1939	76.6	84.3	43.3	81.0	0.7				tr.	tr.	53.4	73.5	412.8
1940	137.0	155.5	25.2	14.9	tr.					14.3	97.2	63.9	508.0
1941	25.6	64.9	63.0	57.4	tr.					tr.	1.9	38.5	251.3
1942	24.5	32.6	51.6	0.3	0.2	tr.			tr.	26.2	22.8	48.5	206.7
1943	32.9	124.5	233.6	35.7	tr.					1.2	0.5	47.9	476.3
1944	81.6	3.7	44.4	13.8	36.1	tr.				tr.	72.7	12.9	265.2
1945	83.0	20.7	6.4	8.7	20.2					3.9	61.7	36.1	240.7
1946	164.3	45.6	142.5	11.5	22.7					0.6	14.2	23.7	425.1
1947	54.5	32.0	81.1	2.0	29.1					0.2	38.8	20.8	258.5
1948	16.7	34.6	17.5	50.9	2.3						1.3	48.2	171.5
1949	69.9	68.0	138.5	16.6	5.9						0.6	194.2	493.7
1950	46.0	57.9	36.0	51.6	80.8						7.6	45.4	325.3
1951	50.6	52.2	52.2	10.0	11.8				1.0	3.0	49.6	72.6	303.0
1952	5.6	25.9	26.4	36.6	3.4						3.4	82.8	184.1
1953	43.6	84.8	71.6	72.6	1.0				tr.	5.1	57.6	24.0	360.3
1954	37.3	51.2	122.4	50.7	0.7			1.0		tr.	27.8	27.0	318.1
1955	63.9	10.4	55.6	32.3	29.0						18.8	93.6	303.6
1956	34.5	23.6	48.3	93.2							1.4	84.1	285.1
TOTAL	1234.7	1164.4	1325.5	743.8	344.5	tr.	9.1	2.9	1.0	136.8	678.5	1255.6	6896.8
MEANS	58.8	55.4	63.1	35.4	16.4	tr.	0.4	0.1	0.0	6.5	32.3	59.8	328.4
1957	69.1	68.1	198.1	83.5	81.7	8.0				7.9	100.3	32.1	648.1
1958	35.6	0.2	49.5	0.3	3.6	0.3	0.0	0.0	0.0	0.0	40.8	56.2	186.5

R U T B A H

RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1928	-	-	-	-	-				tr.	tr.	43.1	5.1	(48.2)
1929	3.4	17.4	0.9	4.3	1.2						26.3	24.7	78.2
1930	35.7	57.5	3.2	7.8	tr.				4.1		0.9	5.0	114.2
1931	3.3	6.1		32.0	25.2					tr.	tr.	11.1	77.7
1932	28.8	3.0	3.2	0.2	tr.				0.5		0.7	10.5	46.9
1933	45.7	36.3	7.4	10.1	tr.						tr.	tr.	99.5
1934	31.2	6.4	2.2	0.4	17.2	0.3				1.3	tr.	36.6	95.6
1935	5.1	4.2		9.9	2.8					10.8	64.3	53.4	150.5
1936	2.3	14.7	12.1	11.5	8.7			tr.		tr.	tr.	51.8	101.1
1937	19.4	6.6	4.3	36.3	11.0					65.3	57.7	tr.	200.6
1938	69.4	20.6	22.7	7.7	5.0		tr.			0.1	12.0	45.2	182.7
1939	22.0	24.2	41.0	46.5	tr.	tr.			tr.	tr.	17.7	15.4	166.8
1940	23.0	4.0	10.8	12.6	3.0	tr.				17.8	19.3	10.0	100.5
1941	1.7	26.8	23.5	-	-					0.1	1.0	3.6	56.7
1942	17.0	8.7	19.4	5.3	0.3					10.5	28.1	27.4	116.7
1943	8.0	16.5	46.0	44.0	3.8					10.0	tr.	6.9	135.2
1944	9.1	4.0	42.2	12.0	24.3	tr.					17.8	32.4	141.8
1945	21.5	17.1	4.9	0.4	3.0		tr.			7.1	10.5	23.3	87.8
1946	13.8	40.7	3.8	85.0	26.5	tr.				tr.	5.8	-	175.6
1947	-	-	-	-	-					-	-	30.4	(30.4)
1948	0.7	22.7	7.6	8.5	10.5						0.5	17.9	68.4
1949	2.5	8.9	40.5	1.7	9.9					tr.		62.4	125.9
1950	5.4	8.4	8.0	26.4	16.7	tr.	tr.			0.5	15.1	8.2	88.7
1951	1.3	4.1	19.9	tr.	4.8					tr.	tr.	41.3	71.4
1952	5.7	10.4	9.4	3.2	4.4			tr.	tr.	1.5	5.0	28.5	68.1
1953	19.1	23.0	24.7	74.4	2.3					8.2	24.4	10.6	186.7
1954	7.2	29.7	130.0	20.0	1.7	1.7		tr.		4.5	50.1	25.0	269.9
1955	9.8	1.4	11.6	0.7	9.3						21.4	2.7	56.9
1956	23.6	3.2	6.5	60.9				tr.			tr.	9.5	103.7
TOTAL	435.7	426.6	505.8	521.8	191.6	2.0	tr.	tr.	4.6	137.7	421.7	598.9	3246.4
MEANS	16.1	15.8	18.7	20.0	7.4	0.1	tr.	tr.	0.2	4.9	15.1	21.3	119.6
1957	25.8	2.4	37.6	17.2	67.9	tr.		tr.	16.6	2.4	13.3	4.3	187.5
1958	23.[illegible]	2.0	tr.	2.6	2.0	tr.	0.0	0.0	0.0	0.0	18.7	1.1	50.3

H A I

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	-	-	-	-	-					1.2	1.2	10.3	12.7
1941	1.2	53.9	9.1	11.5						tr.	0.6	24.3	100.6
1942	4,2	13,2	16.9	3.2	0.1				tr.	1.5	12.5	32.4	84.0
1943	28.6	15.5	70.9	3.5	tr.					10.6	1.1	22.2	152.4
1944	16.1	1.0	13.3	0.8							44.7	10.5	86.4
1945	77.2	4.3	20.0	4.9	8.2					tr.	16.0	26.9	157.7
1946	28.4	7.5	78.7	48.0	tr.						30.5	29.8	222.9
1947	74.9	29.3	14.2	tr.	16.7					tr.	36.3	4.9	176.3
1948	9.9	48.1	18.1	7.2	1.0							23.0	107.3
1949	19.4	30.6	47.6	16.7	29.1							73.8	217.2
1950	11.4	23.5	11.9	0.6	9.8					tr.	20.7	24.4	102.3
1951	10.0	30.5	20.7	2.4					tr.	tr.	3.7	31.8	99.1
1952	27.3	9.5	tr.	0.5					tr.		19.0	26.2	82.5
1953	14.7	51.6	16.8	5.3	0.4					7.2	14.9	20.9	131.8
1954	15.4	32.4	26.8	22.5						2.0	38.4	70.3	207.8
1955	15.0	1.2	56.2	8.5	29.4						9.0	30.8	150.1
1956	11.6	21.5	4.2	18.3								31.9	87.5
TOTAL	365.3	373.6	425.4	153.9	94.7				tr.	21.3	247.4	484.1	2165.8
MEANS	22.8	23.3	26.6	9.6	5.9				tr.	1.3	15.5	30.3	135.4
1957	16.4	22.3	73.1	60.9	27.3	0.3			tr.	2.6	61.1	24.0	288.0
1958	14.2	tr.	3.2	2.9	tr.	0.0	0.0	0.0	0.0	0.4	48.4	44.4	113.5

D I W A N I Y A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1929	tr.	3.4	tr.	2.8	tr.					2.5	13.4	37.8	59.9
1930	30.4	3.2	3.9	15.2	tr.					0.1	0.6	9.4	62.8
1931	1.4	10.2	7.0	33.8	20.5	5.3					14.4	5.2	97.8
1932	8.7	3.2	3.1		8.3						10.0	5.9	39.2
1933	52.2	21.4	5.6	tr.	15.5				tr.	tr.	tr.	1.9	86.6
1934	53.0	31.4	tr.	59.2	36.9					0.6	4.4	47.4	232.9
1935	1.8	6.4	1.3	1.6	113.6					1.1	19.6	24.7	170.1
1936	13.8	23.4	10.8	0.6	13.5						tr.	56.0	118.1
1937	7.7	69.5	8.7	11.9	0.7					1.7	29.8	0.1	130.1
1938	60.0	20.0	5.0	6.3	tr.			9.7	tr.		54.7	60.6	216.3
1939	29.5	35.4	10.0	5.1	tr.				tr.		37.7	7.3	125.0
1940	55.0	24.2	7.2	38.1	tr.			0.5		1.7	1.1	6.2	134.0
1941	tr.	44.0	20.5	47.0						3.8	1.3	47.1	163.7
1942	5.1	15.1	0.3	8.6	tr.				tr.	2.2	12.1	21.4	64.8
1943	7.4	8.1	85.6	tr.	tr.					3.1	tr.	15.2	119.4
1944	5.5	1.3	29.6	0.2	2.7	tr.					39.0	15.4	92.7
1945	56.9	5.6	9.8	tr.	24.5		3.7			tr.	15.0	20.8	136.3
1946	7.9	7.0	36.4	20.2	0.3				tr.	tr.	2.4	23.3	97.5
1947	18.4	34.4	6.5	tr.	43.6					tr.	10.6	4.3	117.8
1948	5.5	32.9	14.3	9.0	3.7						tr.	33.1	98.5
1949	30.1	7.8	29.8	31.0	0.2							41.7	140.6
1950	10.0	9.4	1.0	4.4	9.5					tr.	11.0	7.6	52.9
1951	7.2	19.6	23.5	1.8					tr.	0.7	0.8	42.1	95.7
1952	18.6	4.6	tr.	tr.	tr.				tr.		31.0	15.7	69.9
1953	10.6	44.1	13.1	9.2	1.8				tr.	3.0	14.2	13.5	109.5
1954	14.5	18.1	18.9	17.0	tr.					2.3	32.4	69.9	173.1
1955	14.0	1.4	101.5	4.7	11.8						2.9	35.0	171.3
1956	1.9	31.0	7.2	64.4							3.1	13.0	120.6
TOTAL	572.1	536.1	460.6	392.1	297.1	5.3	3.7	10.2	tr.	22.8	361.5	681.6	3298.1
MEANS	18.8	19.1	16.5	14.0	10.6	0.2	0.1	0.4	0.0	0.8	12.9	24.3	117.7
1957	9.8	12.5	18.8	64.1	60.2					2.7	64.2	38.0	270.3
1958	3[illegible]	0.0	0.8	2.6	4.6	0.0	0.0	0.0	0.0	tr.	28.3	42.4	111.8

N A S I R I Y A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	-	27.2	2.9	7.7	0.2					0.9	3.1	1.2	(43.2)
1941	tr.	31.4	1.0	19.6						tr.	0.8	9.5	62.3
1942	1.0	16.0	19.2	12.2						2.0	3.9	33.5	87.8
1943	3.4	2.1	53.3	5.6	tr.					0.7	0.3	12.5	77.9
1944	7.7	tr.	5.9	1.0	5.4						60.7	13.6	94.3
1945	37.0	16.6	19.6	3.9	46.8					tr.	31.3	26.6	181.8
1946	33.3	3.1	85.7	66.0	3.3						5.9	24.8	222.1
1947	30.5	5.2	7.2	tr.	7.8					3.0	34.4	5.9	121.0
1948	21.8	8.9	25.9	17.5	2.3						1.4	68.9	146.7
1949	25.8	2.1	25.0	0.2	7.3							35.5	95.9
1950	10.3	4.2	11.1	5.1	6.0					tr.	53.9	32.6	123.2
1951	32.9	13.5	17.3	2.3		tr.			0.2	tr.	5.1	25.1	96.4
1952	11.4	12.2	3.7	17.2	tr.						69.8	49.4	163.7
1953	12.6	19.4	30.6	51.7	-					10.8	32.4	21.2	178.7
1954	2.4	23.6	27.3	5.0	0.7		tr.			8.5	54.7	55.5	177.7
1955	14.6	0.4	12.7	7.9	7.5					tr.	12.3	23.0	78.4
1956	2.4	28.1	10.1	4.4					tr.	tr.	tr.	35.7	80.7
TOTAL	247.1	214.0	358.5	227.3	87.3	tr.			0.2	25.9	370.0	474.5	2004.8
MEANS	15.4	12.6	21.1	13.4	5.5	0.0	0.0		0.0	1.5	21.8	27.9	
1957	19.7	48.5	23.8	59.0	13.8	tr.				0.9	35.1	5.3	206.1
1958	39.0	tr.	tr.	0.2	0.7	0.0	0.0	0.0	0.0	tr.	6.4	28.2	74.5

B A S R A H

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TO
1937	-	-	-	-	-					tr.	51.7	4.4	(5
1938	123.4	69.8	30.9	1.0	tr.				0.4		1.1	42.7	26
1939	35.9	42.9	1.3	35.6					tr.		5.7	1.0	12
1940	49.3	51.5	12.2	3.9						0.4	90.4		20
1941	0.2	32.0	35.7	150.5						tr.	0.1	52.4	27
1942	2.3	13.7	17.1	50.1	tr.				tr.	1.2	16.9	33.5	13
1943	18.5	12.5	71.7	10.0	tr.					tr.	tr.	9.6	12
1944	36.8	0.3	4.3	40.7	3.6						42.2	46.9	17
1945	39.9	27.3	3.7	5.6	28.7		3.2			5.0	46.0	15.5	17
1946	26.8	15.2	107.2	52.5	1.3					0.6	61.9	37.0	30
1947	21.6	8.2	11.2	tr.	20.2					0.9	31.8	0.3	9
1948	2.4	8.6	12.2	8.7	tr.						0.4	57.0	89
1949	69.1	1.0	42.2	0.2	tr.						3.0	42.3	15
1950	7.6	14.3	46.7	6.9	56.2					tr.	37.5	1.1	17
1951	40.9	10.8	6.3	0.1	1.6						0.8	9.4	6
1952	11.3	27.5	8.3	18.4	2.2			tr.			29.8	42.0	13
1953	4.5	13.4	25.6	33.2	6.0					3.6	13.0	20.0	11
1954	2.7	19.2	29.6	10.7	0.5					4.2	150.9	101.7	31
1955	13.5	0.3	24.3	4.6	5.0					tr.	2.2	54.9	10
1956	8.3	8.2	11.1	19.3	tr.						tr.	90.3	13
TOTAL	515.0	376.7	501.6	452.0	125.3		3.2	tr.	0.4	15.9	533.7	567.6	318
MEANS	27.1	19.8	26.4	23.8	6.6		0.2	0.0	0.0	0.8	28.1	34.6	16
1957	42.4	11.1	28.0	45.0	13.5						61.5	19.7	22
1958	4.2	tr.	tr.	tr.	tr.	tr.	0.0	0.0	0.0	2.2	6.1	55.4	67

HABBANIYA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	tr.	20.7	0.1	2.2	2.4					1.3	39.8	49.8	116.3
1936	13.2	31.9	19.1	15.8	3.8			tr.		tr.	0.7	22.0	106.5
1937	29.4	5.8	1.1	20.2	5.1					5.1	30.8	tr.	97.5
1938	60.2	7.7	43.3	7.6	1.6		tr.		0.3	tr.	39.2	77.5	237.4
1939	21.9	26.8	15.0	16.7	0.2				0.5	0.6	21.6	6.8	110.1
1940	48.9	12.6	8.0	12.0	0.8			tr.		3.0	1.3	9.0	95.6
1941	0.3	32.3	17.0	17.0	tr.	tr.				tr.	tr.	14.0	80.6
1942	5.0	8.1	19.3	tr.	tr.					20.8	31.4	10.6	95.2
1943	9.9	15.6	63.1	13.5	tr.		tr.			5.7	1.2	5.4	114.4
1944	13.2	0.6	31.2	2.5	1.1	tr.					15.6	18.9	83.1
1945	56.9	6.5	12.5	0.6	1.1					0.7	37.0	37.8	153.1
1946	44.9	26.2	32.7	4.8	14.5					tr.	18.6	25.5	167.2
1947	9.9	17.9	13.5	0.6	3.1				tr.	tr.	23.6	8.5	77.0
1948	1.9	21.2	2.2	6.1	1.4						2.6	22.3	57.7
1949	2.8	3.4	83.1	7.3	3.2						tr.	32.2	132.0
1950	12.5	17.5	10.0	3.3	18.5					tr.	20.8	3.6	86.2
1951	25.3	53.7	66.4		0.9				6.4	0.8	3.1	26.9	183.5
1952	8.5	12.2	7.2	3.1	0.2					tr.	0.1	23.4	54.7
1953	2.3	40.8	19.2	15.2	tr.	tr.			tr.	0.9	14.1	7.7	100.2
1954	9.1	40.8	46.6	43.3	tr.		tr.			tr.	58.8	43.7	242.3
1955	40.1	1.2	8.9	37.0	4.3						13.3	34.5	139.3
1956	2.6	1.9	5.0	56.2				tr.		tr.	tr.	5.2	70.9
TOTAL	418.8	405.4	324.5	285.0	62.2	tr.	tr.	tr.	7.2	38.9	373.6	485.3	2600.9
MEANS	19.0	18.4	23.8	13.0	2.8	tr.	tr.	tr.	0.3	1.8	17.0	22.1	118.2
1957	10.6	10.8	53.4	105.9	25.3	tr.			tr.	4.8	20.4	23.0	254.2
1958	61.3	6.4	2.3	3.3	2.0	-				-	-	-	(75.3)
1959	-	17.4	-	-	4.4					0.8	5.0	2.7	(30.3)

SULAIMANIYA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					1.5	88.5	78.1	(168.1)
1936	48.5	151.7	50.1	126.3	166.1						129.2	93.6	765.5
1937	84.8	81.4	100.9	440.3						51.5	87.7	32.0	878.6
1938	218.7	139.4	99.5	192.3							154.0	230.5	1024.4
1939	96.0	162.5	140.9	124.0	-					7.5	24.2	121.0	717.5
1940	266.0	138.5	71.5	30.3						13.3	44.2	197.7	761.5
1941	143.0	163.1	213.0	50.9	-						7.2	207.7	826.3
1942	95.8	72.5	138.3	5.5	-					26.5	88.8	38.0	506.8
1943	88.9	130.5	227.2	105.0	10.0					24.0	3.4	112.0	701.0
1944	222.3	13.5	101.9	38.0	63.7					2.0	141.5	55.8	638.7
1945	195.0	83.9	53,2	67.4	86.9					4.3	199.6	100.4	790.7
1946	105.7	151.2	242.8	155.2	86.3					-	-	88.3	918.1
1947	140.1	125.0	90.2	-	-					-	59.4	-	(414.7)
1948	NO RECORD												
1949	-	-	-	-	-					-	-	182.5	(182.5)
1950	-	-	-	-	-						2.6	42.8	(45.4)
1951	105.9	83.3	46.6	21.2	9.9					20.5	57.5	84.4	429.3
1952	42.8	158.0	110.8	112.6	10.8						13.5	181.8	630.3
1953	118.8	158.0	151.5	94.6	10.5					5.5	192.7	94.1	825.7
1954	47.9	154.0	203.7	189.7	10.5					0.9	64.5	162.5	833.7
1955	53.3	43.9	61.1	104.3	83.6						69.7	142.8	558.7
1956	62.0	71.1	106.4	130.9	-					-	-	85.5	585.9
TOTAL	2135.5	2081.5	2199.6	1988.5	538.3					157.5	1428.2	2331.5	12860.6
MEANS	118.6	115.6	122.2	117.0	41.4					9.3	79.3	116.6	720.0
1957	207.0	-	270.9	152.2	123.7	7.1			0.2	111.0	130.8	94.5	1097.4
1958	2204.4	18.7	-	-	-	-				-	-	-	(223.1)

P E N J W I N

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1939	-	263.5	206.5	96.1	16.5					14.5	200.3	180.0	1246.7
1940	524.2	340.1	225.0	108.5	21.1					98.9	109.3	303.7	1730.8
1941	326.3	190.5	261.5	128.7	-					10.5	43.3	321.5	1330.0
1942	349.3	165.9	298.3	36.5	6.8					99.0	167.1	53.2	1176.1
1943	175.9	201.7	276.7	173.9	32.2					46.4	2.6	137.7	1047.1
1944	444.3	76.2	250.5	136.1	54.1					-	309.4	72.1	1371.9
1945	393.9	152.1	79.2	70.3	52.4					31.3	291.1	157.8	1228.1
1946	209.0	327.9	300.2	173.3	146.1								(1156.5)
1947	NO RECORD												
1948	NO RECORD												
1949										0.0	0.0	348.7	(348.7)
1950	421.5	315.1	178.1	48.1	152.1					0.0	18.0	145.7	1278.6
1951	186.4	178.3	64.2	60.4	19.2					55.9	109.6	261.5	935.5
1952	81.4	479.0	491.6	123.7	37.0					-	52.5	261.7	1556.1
1953	254.0	362.5	309.1	94.5	38.0					18.5	483.3	80.6	1640.5
1954	268.4	333.7	299.5	249.5	9.0					4.0	84.2	214.9	1463.2
1955	68.8	93.6	139.5	171.4	35.5					0.0	31.9	24.9	565.6
1956	67.0	21.2	22.0	31.4	-					0.1	10.7	25.6	225.7
TOTAL	3770.4	3501.3	3401.9	1702.4	620.0					379.1	1913.3	2589.6	17878.0
MEANS	269.3	233.4	226.8	113.5	47.7					29.2	127.6	172.6	1220.1
1957	187.0	195.0	441.0	198.0	223.0	4.3				4.0	124.0	179.0	1555.3
1958	295.0	119.0	107.0	43.0	-	-				-	58.0	233.0	(855.0)
1959	81.0	333.0	279.0	211.0						6.0	62 .0	20.0	992.0

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-						132.6	63.3	(195.9)
1936	53.0	589.5	196.0	158.0	35.0					0.0	236.0	321.0	1588.5
1937	502.6	148.0	45.0	27.0	50.0					423.0	235.0	40.0	1470.6
1938	550.0	470.0	270.0	313.0	0.0					55.0	193.0	405.0	2256.0
1939	230.0	70.0	112.0	29.0	5.0					9.4	60.7	91.5	607.6
1940	197.1	211.3	151.5	71.5	18.4					29.9	48.5	133.3	861.5
1941	99.0	83.8	169.7	117.0	-					0.0	17.2	220.8	707.5
1942	129.4	87.9	141.2	11.7	23.9					62.3	105.4	22.4	584.2
1943	114.7	126.8	192.4	63.6	-					7.0	0.6	107.8	612.9
1944	205.8	57.0	139.3	91.3	47.4					0.0	-	-	540.8
1945	-	97.6	35.6	71.8	73.7			8.0		2.7	145.3	145.9	580.7
1946	144.4	156.2	284.5	109.4	105.7					-	17.1	69.9	887.2
1947	131.8	105.8	139.2	13.0	33.3					-	41.6	64.8	529.5
1948	63.9	84.4	95.7	100.8	17.5					-	28.9	148.9	540.1
1949	88.3	108.6	211.9	55.6	18.9					0.0	0.0	191.8	675.1
1950	109.3	87.4	72.9	32.1	120.6					-	17.7	65.8	505.8
1951	108.2	72.6	39.6	43.0	7.0					10.1	83.5	130.8	494.8
1952	1.9	92.9	90.9	47.1	17.6					-	33.3	108.4	392.1
1953	119.4	228.1	129.1	88.1	10.0	0.8				14.1	175.5	64.7	829.8
1954	83.9	208.4	189.5	148.4	10.5					4.9	53.8	119.3	818.7
1955	47.7	33.8	57.2	99.3	65.9					0.0	69.0	133.6	506.5
1956	40.5	94.8	87.3	113.0	-					0.0	20.8	108.5	464.9
TOTAL	3020.9	3214.9	2850.5	1803.7	660.4	0.8		8.0		618.5	1715.5	2757.5	16650.7
MEANS	151.0	153.1	135.7	85.9	36.7	0.0 T	0	0.4		38.7	81.7	131.3	814.5
1957	97.4	78.3	239.0	114.5	83.2	-		-		-	-	-	(612.4)
1958	153.0	18.0	57.5	7.0	5.0	6.5				-	43.5	119.0	(409.5)
1959	52.0	156.5	132.0	116.5	47.5					23.0	34.0	9.0	570.8

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	20	20	20	20	17					16	20	20	
1935	-	-	-	-	-					14.1	80.4	88.2	(182.7)
1936	68.8	150.4	30.7	107.0	73.8					9.0	102.0	89.6	631.3
1937	147.0	103.0	17.0	228.0	16.0					141.4	169.0	45.0	866.4
1938	217.0	205.0	126.0	106.0	15.5					1.7	168.0	240.0	1079.2
1939	192.0	177.0	264.0	268.0	23.0					-	151.7	324.7	1400.4
1940	305.3	227.0	106.9	175.3	20.3					112.4	46.9	204.1	1198.2
1941	165.8	170.9	203.6	128.7	-						66.8	239.6	975.4
1942	285.5	72.6	112.0	31.9	6.3					50.0	274.1	74.7	907.1
1943	247.4	131.7	257.8	45.7	-					36.7	-	82.5	801.8
1944	181.5	30.9	102.0	88.6	50.0					15.6	143.6	91.7	703.9
1945	248.6	94.0	50.6	20.6	15.2					12.3	187.7	137.9	766.9
1946	91.2	162.0	169.4	135.3	116.4					29.9	1.8	71.9	777.9
1947	250.5	25.7	62.1	18.4	14.3					-	78.8	67.0	516.8
1948	42.7	123.3	86.9	168.6	41.5					9.1	57.9	152.4	682.4
1949	125.0	146.3	237.8	97.0	19.6							192.6	818.3
1950	136.0	79.1	150.8	40.0	211.5					5.8	45.2	41.0	709.4
1951	107.4	83.6	37.6	68.4	10.8					49.4	32.3	122.4	511.9
1952	35.3	247.7	84.5	71.1	36.8					10.5	7.3	48.6	541.8
1953	108.0	214.2	174.2	132.1	8.0					-	124.8	82.4	843.7
1954	80.1	186.7	191.4	149.0	-					-	37.6	-	(644.8)
1955	100.0	56.3	49.8							-	-	-	(206.1)
1956	-	-	-	-	-					-	30.4	144.5	(174.6)
TOTAL	3135.1	2687.4	2515.1	2079.7	679.0					497.9	1805.9	2540.4	15941.0
MEANS	156.8	134.4	125.8	109.5	42.4					31.1	90.3	127.0	817.3
1957	126.8	108.0	-	-	-					-	-	69.3	(304.1)

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1944	-	-	124.1	204.3	105.9					20.0	276.4	126.1	(856.8)
1945	231.5	113.9	128.1	46.0	-						203.1	265.0	1082.2
1946	97.8	259.0	304.4	220.7	-					52.9	4.4	108.0	1116.9
1947	304.8	68.2	82.8	55.8	26.5					10.5	145.1	127.0	820.7
1948	82.8	256.7	182.7	344.3	45.2					-	103.7	141.2	1181.4
1949	166.0	198.3	270.3	175.0	43.3							264.0	1116.9
1950	238.0	121.0	285.0	109.0	281.0					42.0	100.0	105.0	1281.0
1951	151.0	138.2	68.6	134.0	26.0					97.0	42.0	195.0	851.8
1952	77.5	440.2	137.0	128.0	36.0						25.2	99.8	943.7
1953	135.5	394.5	402.4	158.4	32.0					31.5	291.1	126.8	1572.2
1954	243.5	349.3	310.5	235.1	41.0					14.0	75.5	141.9	1410.8
1955	11.4	146.9	147.7	170.5	66.3					4.9	51.6	137.4	736.7
1956	171.2	150.0	257.6	170.3	63.9						72.2	210.3	1095.5
TOTAL	1911.0	2636.2	2701.3	2151.4	767.1					272.8	1390.3	2047.5	13877.6
MEANS	159.3	219.7	207.8	165.5	69.7					24.8	106.9	157.5	1111.2
1957	408.5	242.1	321.0	196.6	368.0	37.9				70.9	119.1	231.8	1995.9
1958	397.0	154.1	147.5	120.6	33.2					-	-	131.6	(984.0)
1959	-	233.4	354.9	98.8	181.7					19.8	15.7	53.5	(957.8)

RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1945	-	-	-		21.5					-	159.4	177.5	(358.5)
1946	64.4	242.1	267.0	132.1	158.2					33.9	1.1	94.8	993.6
1947	315.7	35.6	112.3	34.0	27.8					4.9	127.5	109.2	767.0
1948	62.1	181.7	106.2	316.7	48.7					11.6	83.6	132.1	942.7
1949	149.3	226.1	235.6	151.0	58.7					2.8	2.1	283.3	1108.9
1950	276.2	333.2	309.2	52.4	232.7					56.8	58.3	150.4	1469.2
1951	200.8	181.0	54.1	123.4	26.0				16.0	74.2	66.6	276.2	1018.3
1952	145.4	395.5	115.8	170.9	34.7					8.8	16.3	105.7	993.1
1953	170.6	383.8	318.9	252.4	16.6					18.6	324.0	150.2	1635.1
1954	163.2	339.6	351.7	244.6	26.6					4.9	102.6	235.1	1468.3
1955	15.6	129.3	139.4	69.3	19.8						55.4	119.0	547.8
1956	63.0	45.5	88.9	43.2	7.9						29.0	82.6	360.1
TOTAL	1626.[illegible]	2493.4	2099.1	1590.0	679.3	36.0			16.0	215.5	1028.9	1916.1	11[illegible]82.6
MEANS	147.8	226.7	190.8	132.5	56.6				1.8	21.7	85.5	159.7	1023.1
1957	115.4	111.7	-	62.2	101.3	36.0				4.9	22.5	21.9	475.9
1958	106.1	19.3	42.8	22.3	0.0	4.6				-	10.9	63.9	(269.9)
1959	72.7	27.7	3.2	40.6	60.2	1.8				-	8.0	-	(214.2)

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RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	17	18	17	17	17					16	16	18	
1939	-	63.2	130.2	88.3	5.8						60.0	67.9	473.6
1940	111.7	41.9	67.0	72.8	1.5					34.3	3.4	65.2	397.8
1941	45.2	86.3	60.7	71.5							28.9	118.5	411.1
1942	60.9	53.6	44.8	13.0						3.4	84.9	8.9	269.5
1943	55.8	108.0	76.4	54.7	2.0					12.5		17.8	327.2
1944	101.3	5.0	67.4	28.9						7.3	-	84.7	321.2
1945	130.7	9.8	-	-	-					-	71.7	91.7	(303.9)
1946	56.8	59.9	44.8	48.2	105.7					-	-	45.0	421.3
1947	73.7	34.7	63.0	2.8	1.5						50.8	22.8	249.3
1948	43.0	45.0	32.4	80.2	37.0						2.6	80.4	320.6
1949	48.1	62.3	168.9	25.1	68.8							98.0	471.2
1950	38.3	46.0	95.6	8.1	48.0						6.1	13.1	255.2
1951	37.9	32.1	32.9	32.0	39.8						18.9	30.0	223.6
1952	9.9	129.5	35.1	16.6	24.9					9.7	3.5	25.3	254.5
1953	43.6	75.2	82.4	71.5	3.0					2.0	27.5	64.5	369.7
1954	21.6	78.2	146.0	75.3							33.0	55.0	409.1
1955	24.6	73.0	9.3	47.8	12.3						22.8	48.1	237.9
1956	86.8	23.0	46.7	29.5	1.0						11.0	47.6	245.6
TOTAL	989.9	1026.7	1203.6	766.3	351.3					69.2	425.1	984.5	5816.6
MEANS	58.2✓	57.0✓	70.8✓	45.1✓	20.7✓					4.3✓	26.6✓	54.7✓	317.4
1957	62.1	19.5	143.5	53.9	37.5					0.0	54.0	47.0	417.5
1958	73.7	4.0	14.3	1.8	0.0					0.0	31.8	40.0	165.6
1959	16.3	43.8	73.0	11.0	60.2					0.0	5.1	10.0	219.4

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1938	153.0	41.0	45.0	66.0	3.0					-	92.0	122.0	526.6
1939	N O R E C O R D												
1940	-	12.0	5.0		-					5.0		57.0	165.3
1941	43.0	55.0	43.0	28.0	-						22.0	97.0	295.3
1942	77.0	57.0	30.0	31.0	-					-	-	-	(195.0)
1943	-	-	-	-	-					-	-	29.2	(29.2)
1944	102.1	8.1	76.7	47.5	18.8					-	-	-	(253.2)
1945	-	-	-	-	-					18.0	37.6	45.7	(101.3)
1954	73.7	109.2	158.0	132.6							20.3	46.7	540.5
1955	16.0	47.2	19.3	23.6					7.4		10.9	77.7	209.4
1956	87.9	17.0	63.8	64.0								62.2	331.5
TOTAL	552.7	346.5	440.8	392.7	21.8				7.4	23.0	182.8	537.5	2505.2
MEANS	79.0	43.3	55.1	49.1	7.3				0.8	4.6	30.5	67.2	336.9
1957	50.0	51.3	147.1	45.2	67.0					23.3	84.9	56.7	525.5
1958	115.1	20.6	22.4	4.6	-					-	14.7	29.4	(206.8)
1959	30.5	16.5	-	14.3	10.4	7.1				0.0	8.9	9.2	(96.9)

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	10	11	11	11	11	14	14	14	14	7	9	10	
1942	-	53.7	152.8	10.6	-					65.1	125.4	54.5	462.1
1943	101.7	281.2	341.5	150.9	13.2					37.3	9.1	149.4	1084.3
1944	255.8	65.0	155.2	87.5	63.7	1.5				3.6	-	-	632.3
1945	-	-	-	-	35.1					6.8	235.9	103.9	1331.7
1946	135.8	171.5	290.4	146.9	109.6					-	-	-	(854.2)
1947	-	-	-	-	-					7.0	51.0	120.7	(178.7)
1948	41.6	92.3	75.4	206.4	27.8					-	-	181.0	624.5
1949	110.0	158.9	272.3	96.7	55.0							183.7	876.6
1950	232.9	442.0	102.5	45.4	123.0					-	11.3	55.4	1012.5
1951	132.4	164.7	79.5	13.0	10.0					13.7	56.7	125.8	595.8
1952	52.3	153.6	126.4	67.1	19.0					-	26.2	174.2	618.8
1953	170.8	120.5	235.9	86.2	11.8					-	221.5	74.2	920.9
1954	116.4	246.5	284.5	217.0						-	-	-	(864.4)
1955	NO RECORD												
1956	-	-	-	-	-						33¼	86.2	(119.6)
TOTAL	1349.7	1949.9	2116.4	1127.7	468.2	1.5				133.5	770.5	1309.0	9226.4
MEANS	135.0	177.3	192.4	102.5	39.0 42.6	0.1				16.7	77.1	119.0	859.1
1957	137.5	124.6	336.4	132.4	155.5					-	-	-	886.4
1958	280.0	22.7	36.7	2.5	8.7					-	35.4	131.6	(445.3)
1959	66.6	74.3	207.5	107.7	77.2					19.0	42.5	31.7	626.5

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	21	22	22	15	6	(21)	22	22	22	15	17	19	
	18	19	16	15	15	22	22	22	22				
1935	-	-	-	-	-					-	163.7	90.0	((253.7)
1936	74.5	196.7	88.1	101.8	32.7						93.2	19.2	552.2
1937	344.6	18.9	3.7	19.6						122.5	147.0	6.0	662.3
1938	408.0	281.4	107.9	99.0	4.4					1.4	187.7	207.1	1296.9
1939	131.9	198.9	268.7	134.1	13.1						147.4	350.0	1244.1
1940	366.5	154.5	145.5	88.0	5.5						28.1	-	910.9
1941	-	-	-	22.5	-						10.5	253.0	(286.0)
1942	452.2	740.5	-	-	-					38.2	271.9	29.5	1849.9
1943	108.5	343.9	290.5	189.5						9.1	-	168.6	1228.0
1944	336.7	42.5	148.4	129.7	16.1					-	258.2	71.6	1026.1
1945	274.1	117.0	54.4	-						-	-	139.4	853.0
1946	253.7	326.3	469.7	214.2	231.8					18.1	7.9	34.4	1556.1
1947	247.6	29.4	-	-						-	181.4	75.1	853.8
1948	45.9	186.1	95.0	206.7						-	19.4	215.8	791.8
1949	192.9	466.4	216.2	181.5						-	-	73.9	1271.7
1950	126.0	429.3	-	-								110.7	963.4
1951	24.5	48.6	38.0	104.9						71.1	106.4	144.4	537.9
1952	107.3	60.2	102.8	53.1						-	-	-	(323.4)
1953	-	-	-	-	-					27.6	156.9	127.4	(311.9)
1954	227.3	197.0	276.3	174.1	-					22.6	117.1	61.7	1096.3
1955	14.1	155.8	152.3	-	-					10.6	161.6	156.3	798.2
1956	-	109.2	263.4	189.2	-						-	-	(561.8)
TOTAL	3736.3	4102.6	2720.9	1907.9	303.6					321.2	2004.4	2334.1	17431.0
MEANS	207.6✓	215.9✓	170.1✓	127.2✓	20.2✓					22.9 21.4	117.9 121.1	122.8✓	981.7
1957	232.4	313.0	816.5	-	-					-	208.1	-	1570.0
1958	652.3	70.8	-	-	-					-	-	218.0	(941.1)
1959	138.2	216.0	-	-	-					-	-	-	(354.2)

A M A D I A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					57.0	190.5	61.0	(308.5)
1936	72.5	310.0	119.5	150.5	175.0					17.0	263.0	171.5	1279.0
1937	300.0	167.0	33.0	199.5	-					100.0	87.4	26.0	981.9
1938	111.0	167.5	145.0	277.7	33.7						201.3	88.0	1024.2
1939	72.2	106.6	261.7	29.0	15.0					-	158.8	265.9	952.1
1940	245.7	361.5	301.7	41.9	-					-	-	-	(950.8)
1941	NO RECORD												
1942	NO RECORD												
1943	-	-	-	-	-					84.6	1.7	116.7	(203.0)
1944	197.4	28.9	208.4	147.0	91.3					28.4	203.4	50.7	955.5
1945	123.2	75.8	23.6	35.1	-					-	153.4	157.5	680.5
1946	73.1	174.5	-	146.4	146.6					-	-	-	(540.6)
1947	-	-	-	-	-					-	133.8	55.1	(188.9)
1948	37.4	129.9	62.5	284.5	72.7					-	46.5	58.4	734.8
1949	49.0	73.2	110.3	171.6	59.4					-	-	162.5	793.2
1950	90.0	60.0	162.5	51.8	174.8					54.0	21.9	95.5	710.5
1951	106.0	100.0	57.0	81.1	51.6					70.2	35.0	80.9	581.8
1952	0.5	274.8	67.6	142.0	12.0					-	36.8	115.2	691.8
1953	116.5	228.7	216.5	126.4	10.5					17.5	215.5	22.3	953.9
1954	129.3	191.1	202.2	175.0	20.7						52.9	135,3	906.5
1955	1.4	80.1	101.7	109.8	67.8						112.0	155.3	671.0
1956	126.5	99.7	147.2	94.6	34.4						28.4	121.1	649.8
TOTAL	1851.7	2629.3	2220.4	2263.9	965.5					428.7	1942.3	1938.9	14240.7
MEANS	108.9	154.7	138.8	133.2	69.0					42.9	114.3	107.7	767.6
1957	59.8	118.4	215.0	111.4	158.9					-	-	81.0	744.5

MANDILY

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JLY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-						131.0	52.2	(183.2)
1936	15.5	94.9	37.8	39.5	12.5						14.0	54.3	268.5
1937	10.6	46.0		30.9							104.0		191.5
1938	229.0	88.0	75.0	30.0							74.5	168.0	664.5
1939	112.5	140.5	25.5	28.0							40.0	29.0	375.5
1940	64.0	155.0	22.0								-	18.7	259.7
1941	8.8	48.0	65.2	128.2								119.2	369.4
1942	16.5	39.5	41.2		15.8					14.7	63.7	46.4	237.8
1943	13.7	110.7	115.8	7.5									247.7
1944	60.9	18.0	7.7							4.0	-	-	(90.6)
1945	-	-	-	-	16.3						42.7	46.2	(105.2)
1946	113.5	28.9	130.4	26.9	6.6					-	19.6	42.5	368.4
1947	72.5	46.5	81.2							-	59.0	13.5	272.7
1948		45.2	63.0	27.3	-							31.9	167.4
1949	19.5	79.1	80.0	11.4	-							75.4	265.4
1950	32.3	62.1		35.8	-					-	53.1	40.7	224.0
1951	36.1	111.7	80.2	-	-					3.6		80.7	312.3
1952	-	-	-	76.8	-					-	-	42.0	(118.8)
1953	-	33.4	63.8	-	-					-	36.1	25.5	(158.8)
1954	14.5	64.2	84.5	61.5							23.3	30.0	278.0
1955	52.0	20.0	22.0	22.5	4.1						60.0	54.3	234.9
1956	27.8	18.0	37.0	62.5								97.5	242.8
TOTAL	899.7	1249.7	1032.3	588.8	55.3					22.3	721.0	1068.0	5637.1
MEANS	50.0	65.8	54.3	32.7	4.3					1.3	40.1	50.9	299.5
1957	43.0	44.0	143.0	145.7	37.5						74.7	16.0	503.9
1958	110.3	0.0	0.0	5.5	-					-	-	75.5	(191.3)
1959	17.5	32.1	58.0	28.5	-					-	9.5	5.0	(150.6)

MONTHLY RAINFALL IN MILLIMETERS

T_1 (I.P.C.)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	9.1	30.5	10.7	42.9	21.1		tr.				30.7	39.1	184.4
1937	26.7	6.4	tr.	23.1	2.8					38.6	65.8	tr.	163.7
1938	45.7	8.1	19.1	10.4	1.0				1.8	0.5	3.6	26.7	117.1
1939	55.6	47.5	33.8	55.9	4.6					3.8	45.2	36.6	283.3
1940	9.4	28.5	25.4	17.5	1.0					21.6	2.8	6.4	112.6
1941	12.4	26.4	46.7	-	-					-	-	-	(85.5)
TOTAL	158.9	147.4	135.7	149.8	30.5		tr.		1.8	64.5	148.1	109.0	945.7
MEANS	26.5	24.6	22.6	30.0	6.1		tr.		0.3	12.9	29.6	21.8	174.4

T_2 (I.P.C.)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	6.0	18.0	8.0	6.0	24.0						7.0	65.0	134.0
1937	7.0	10.0		46.0	6.0					15.0	43.0	3.0	130.0
1938	29.0	8.0	23.0	2.0							-	23.0	107.7
1939	66.0	7.0	5.0	65.0							18.0	-	191.3
TOTAL	108.0	43.0	36.0	119.0	30.0					15.0	68.0	91 .0	510.0
MEANS	27.0	10.8	9.0	29.8	7.5					3.8	22.7	30.3	140.9

H_1 (I.P.C.)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1934	18.3	6.9		4.6	9.9						tr.	27.7	67.4
1935	4.6	24.4	10.2	11.9						4.3	38.1	35.6	129.1
1936	2.3	16.0	17.5	27.7	20.6		tr.	tr.			37.1	51.1	172.3
1937	27.9	2.5	tr.	23.1	2.8					25.4	102.4	tr.	184.1
1938	26.7	36.8	36.3	38.4						5.1	28.7	26.9	198.9
1940	26.9	8.9	23.1	21.8	8.8					5.6	5.1	6.4	106.7
1941	2.8	16.8	39.1	-	-						0.5	8.1	92.3
1942	25.4	16.8	18.5	15.2						8.9	10.2	11.2	106.2
1943	7.1	25.1	36.1	34.5							0.5	16.3	119.6
1944	9.9	1.0	29.7	8.9	11.2						25.9	11.7	98.3
TOTAL	207.5	168.7	236.9	193.7	55.9		tr.	tr.		49.3	252.3	228.3	1392.6
MEANS	0.0	17.3	21.5	19.4	5.6		tr.	tr.		4.5	23.3	20	132.4

AMARA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	11	12	12	9	9	14	14	14	14	12	13	14	
1935	-	-	-	-	-						53.3	83.7	(137.0)
1936	29.0	12.5	26.5	39.0	56.5						22.6	96.3	282.4
1937	29.0	68.9	11.1	23.0	5.9						26.3		164.2
1938	117.5	65.2	18.5	5.1						3.0	21.1	84.9	315.3
1939	37.0	14.5	16.6	10.6	1.0						3.0	5.0	87.7
1940	147.3	33.8	4.3	6.4							10.2	3.6	295.6
1941		55.0	36.9	-	-							22.4	114.3
1942	-	23.2	38.4	-	-						23.4	31.2	(116.2)
1943 to 1950	NO RECORD												
1951	-	-	-	-	-						4.4	9.9	(14.3)
1952	22.6	25.0	7.5	-	-					-	31.7	88.2	(175.0)
1953	23.4	35.8	9.4	13.0						0.2	25.4	11.1	118.3
1954	18.8	17.7	31.0	14.4							79.6	93.4	254.9
1955	13.2	3.8	18.5	2.3	14.9						15.5	15.9	84.1
1956	14.9	34.6	8.5	29.5						-	-	46.9	134.4
MEANS	41.2	32.5	18.9	15.9	11.2					0.3	24.3	42.3	186.6
1957	8.0	64.0	35.1	34.0	-					-	73.0	23.0	237.1

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YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	142.5	42.5	20.0	17.8							29.0	100.0	351.8
1941	12.0	35.0	18.0	-	-							56.0	121.0
1942	-	33.0	-	-	-					4.5	68.5	29.5	(135.5)
1943	99.0	24.0	66.0	-	-					6.0	4.0	20.5	219.5
1944	35.5		8.0	-	-					-	89.4	42.5	(175.4)
1945	92.1	-	-	-	-					-	-	-	(92.1)
1946	-	-	-	-	-						28.5	22.2	(50.7)
1947	47.4	34.2	36.7		8.8					-	-	-	(127.1)
MEANS	71.4	28.1	29.7	8.9	4.4					2.1	36.6	41.2	222.4
1957	-	-	-	-	-					-	62.5	37.3	99.8

S A L A H A D D I N

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	-	-	-	-	-							15.0	(15.0)
1941	-	188.6	121.2	-	-					-	-	-	(309.8)
1942	-	-	-	-	-					5.2	24.4	10.4	(40.0)
1953	-	-	-	-	-					7.0	94.1	107.0	(208.1)
1954	105.8	41.0	286.7	185.0	13.7						55.0	60.3	747.5
1955	29.5	86.0	41.4	104.9	63.2	1.4			17.0		121.0	116.0	580.4
1956	114.0	134.0	111.0	8.2	23.0						11.9	53.1	461.1
MEANS	83.1	112.4	140.1	99.4	33.3	0.5			5.7	2.4	51.1	60.3	888.3
1957	75.7	95.8	321.0	92.4	244.1	3.3			-	2.5	82.6	111.8	1029.2

R A M A D I

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1923	8.4	39.2	9.2	0.8	2.9	1.5			tr.	2.1	2.9	15.6	82.6
1924	17.5	10.5	27.3	5.9	tr.	tr.				0.7	3.0	28.2	93.1
1925	1.4	32.0	12.0	5.6	0.1	tr.			tr.	12.3	26.3	15.7	105.4
1926	24.0	27.5	12.4	2.8	4.1	tr.				tr.	132.6	18.7	222.1
1927	tr.	14.6	4.4	-	-					-	-	-	(19.0)
1928 TO 1931	NO RECORD												
1932	-	-	-	-	-	-				-	1.0	4.3	(5.3)
1933	54.5	35.9	26.0	9.2	2.3					tr.	11.7	3.2	133.1
1934	41.5	20.6	0.6	2.5	45.7	tr.				tr.	1.6	31.2	143.7
1935	tr.	20.7	0.1	2.2	2.4					1.3	39.8	49.8	116.6
1936	13.2	31.9	19.1	15.6	3.8			tr.		tr.	0.7	22.6	107.2
TOTAL	160.5	232.9	111.1	44.6	61.3	1.5		tr.	tr.	16.4	209.6	189.3	1027.2
MEANS	17.8	25.9	12.3	5.6	7.7	0.3		tr.	tr.	2.1	23.3	21.0	116.0

MONTHLY RAINFALL IN MILLIMETERS

H_2 (I.P.C.)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1934	23.1	5.6	1.0	tr.	80.0	tr.				0.3	tr.	42.2	152.2
1935	6.5	1.1		16.0						11.9	60.7	66.0	162.2
1936	3.6	7.1	10.4	2.3	19.3						11.2	47.2	101.1
1937	13.7	0.8	1.7	21.1	14.5					43.9	53.8	tr.	149.5
1938	41.1	3.6	34.3	15.0	3.8	tr.	tr.	tr.	tr.		9.1	23.6	130.5
1939	30.5	22.6	41.4	32.0						0.5	34.0	14.2	175.2
1940	3.6	4.3	7.1	17.8	0.5					17.5	19.6	4.8	75.2
1941	tr.	25.1	19.6										44.7
1942	11.9	14.0	9.9	7.6	tr.					1.5	12.4	23.4	80.7
1943	6.1	22.4	48.5	24.9	1.8						2.8	7.9	114.4
1944	9.9	4.3	25.4	5.6	13.7						12.4	45.2	116.5
TOTAL	150.0	110.9	199.3	142.3	133.6	tr.	tr.	tr.	tr.	75.6	216.0	274.5	1302.2
MEANS	13.6✓	10.1✓	18.1✓	12.9✓	12.1 5.10	tr.	tr.	tr.	tr.	6.9✓	19.6✓	25.8 26.10	119.1

H_3 (I.P.C.)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1934	16.3	5.3	0.3	2.9	20.6	1.8					0.5	55.4	103.1
1935	5.6	4.1		17.3	tr.					15.0	61.7	4.6	116.7
1936	10.7	7.1	4.6	3.3	2.5							17.3	45.7
1937	14.2	5.3	1.3	27.7	12.2					13.0	50.5	48.3	172.7
1938	38.1	20.6	17.0	3.3	5.8		0.3				6.9	50.5	142.7
1939	19.8	21.3	33.8	38.9	1.0						25.7	11.9	152.6
1940	2.5	12.7	6.3	23.1	3.0					20.1	13.0	8.4	89.3
1941	1.0	25.9	28.7									2.8	58.6
1942	20.3	3.8	19.6	tr.						25.1	39.6	54.4	163.0
1943	13.2	35.3	32.3	37.3	1.0						1.3	9.7	130.3
1944	11.7	1.8	32.8	20.6	44.2	0.8					50.5	72.6	235.0
TOTAL	153.4	143.2	176.7	174.4	90.3	2.6	0.3			73.2	249.7	335.9	1399.7
MEANS	14.0 13.9	13.0✓	16.1✓	15.9✓	8.2✓ 8.2	0.2✓ 0.2	0.0 T			6.7✓	22.7✓	30.5✓	127.5

H I N D I Y A (BARRAGE)

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	5.7	30.5	4.3	15.0	2.1						0.5	35.0	93.2
1937	12.0	6.0		20.5						13.6	16.7		68.8
1938	80.3	16.0	38.3	0.5							16.8	59.1	211.0
1939	51.9	53.5	32.4	13.5							29.3	5.3	185.9
1940	86.7	26.7	4.6	19.8						0.2		6.3	144.3
1941		49.0	5.0	-								-	86.6
1942	-	13.0	-	-						3.8	17.8	27.2	127.8
1943	10.5	13.4	58.3	7.8									90.0
1944	10.9		19.2	2.5							34.7	11.9	79.2
1945	61.5	5.4	5.8		22.6							33.3	128.6
1946	19.0	14.7	47.5	7.2	-						4.3	-	120.1
1947	16.0	19.1	12.3		11.5						32.3	13.3	104.5
1948	5.5	18.8	2.2	25,0	0.5							23.3	75.3
1949	34,7	15.1	45.7	7.3	2.7							37.5	143.0
1950	9.2	10.6	12.0		44.2						1.0	25.8	102.8
1951	16.8	109.8	44.1								13.3	15.8	199.8
1952	1.5	8.2									7.9	12.6	30.2
1953	15.7	26.2	26.3	3.0						0.5	3.1	4.7	79.5
1954	32.4	1.8	52.4	22.0							17.4	91.9	217.9
1955	47.9	2.8	177.8	7.8							12.2	33.6	282.1
1956	6.7	7,2	15.8	29.8								1.1	65.0
TOTAL	524.9	447.8	604.0	181.7	83.6					18.1	207.3	437.8	2505.2
MEANS	26.2	21.3	30.2	9.6	4.4					0.9	9.9	23.0	125.5
1957	14.2	19.9	24.5	72.5	52.6					0.0	40.5	16.9	241.1
1958	52.0	-	0.0	-	-					-	16.0	21.0	(89.0)
1959	-	5.4	12.6	-	-					3.7	11.5	3.2	(36.4)

S A M I R A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	13.0	31.0	(44.0)
1936	9.0	22.0	13.0	27.0						-	[illegible]	37.0	108.0
1937	23.0	-	-	17.0						11.0	26.0	-	(77.0)
1938	61.0	9.0	54.5	-							38.0	69.0	231.0
1939	11.0	36.0	25.0	21.0							27.0	42.0	162.0
1940	86.0	44.0	5.0	11.0								17.0	163.0
1941	7.0	42.0	12.0	4.0								16.0	81.0
1942	NO RECORD												
1943	NO RECORD												
1944	23.6	-	-	-	-					-	-	-	(23.6)
1945	NO RECORD												
1946	-	-	-	-	-					-	11.4	26.2	(37.6)
1947	16.5	12.7	-	33.8	49.3					-	-	-	(112.3)
1948	12.4	33.8								43.4	34.0	53.1	176.7
1949		13.2	81.8	-	-					-	-	-	(95.0)
1950	-	-	-	-	-						2.5	7.6	(10.1)
1951	17.8	-	-	-	-						-	-	(17.8)
1952	-	-	-	-	-							53.3	(53.3)
1953	-	-	-	-	-					-	35.3	10.4	(45.7)
1954	2.5	-	-	-	-					-	-	-	(2.5)
TOTAL	269.8	212.7	190.8	113.8	49.3					54.4	187.2	362.6	1440.6
MEANS	19.3	23.6	23.9	14.2	16.5					7.8	17.0	33.0	155.3
1957	-	-	-	-	-					tr.	14.6	23.0	(37.6)
1958	17.7	5.2	0.0	0.0	4.0					0.0	15.0	39.0	80.9
1959	tr.	26.5	84.0	13.2	0.2					0.0	tr.	5.0	136.9

B I R - U G L A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					13.8	78.5	50.0	(142.3)
1936	57.3	143.8	27.9	39.8	19.9					0.7	72.6	71.6	433.6
1937	85.6	46.3	7.3	60.4	5.2					57.5	77.7	27=5	367.5
1938	187.0	70.7	54.3	50.8	14.2						68.6	61.5	507.1
1939		220.1	250.0	219.0							132.3	121.0	942.4
1940	104.4	53.5	3.4	41.7						-	-	-	(203.0)
TOTAL	434.3	534.4	342.9	411.7	39.3					72.0	429.7	331.6	2595.9
MEANS	86.9	106.9	68.6	82.3	7.9					14.4	85.9	66.3	519.2

NAFT KHANEH

RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1931	38.6	25.4	7.5	44.2	2.2						20.4	40.7	179.0
1932	77.6	5.9	6.9	tr.	2.7						3.5	3.5	100.2
1933	58.6	65.2	69.0	28.6	8.5						1.6	-	231.5
1934	84.5	32.0		37.3	14.0							30.5	198.3
1935	4.9	27.4	1.7	22.3	-						52.3	71.6	180.2
1936	10.2	135.0	37.8	66.0	17.8						24.0	67.3	358.1
1937	25.4	34.6	tr.	62.5	15.7					12.7	94.0	5.1	250.0
1938	146.0	76.5	37.8	46.7	6.6			tr.			64.5	193.0	571.1
1939	90.2	99.6	31.5	36.8	-					0.2	44.5	39.4	342.2
1940	150.0	115.6	24.4	14.5	0.1						41.9	36.0	382.5
1941	13.7	25.4	46.5	-	-						-	-	(85.6)
TOTAL	699.7	642.6	263.1	358.9	67.6			tr.		12.9	346.7	487.1	2878.7
MEANS	63.6	58.4	23.9	35.9	8.5			tr.		6.5	34.7	54.4	285.7

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A N A H

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	19	20	18	14	12	22	22	22	22	18	20	21	
1935	-	-	-	-	-					7.8	20.0	11.1	(38.9)
1936	5.4	43.0	13.0	17.2	0.2					0.1	10.3	26.7	115.9
1937	21.7	11.1		20.4	2.7					26.0	23.3	12.9	118.1
1938	76.0	27.0	28.5	10.2							3.4	22.1	167.2
1939	19.7	56.0	28.4	29.5	1.9						16.7	25.5	177.7
1940	40.8	22.5	31.8	42.6						18.0	2.6	14.5	172.8
1941	8.0	42.5	43.5	-	-					18.4	2.6	17.5	132.5
1942	26.0	23.1	-	-	-					-	30.0	15.5	(94.6)
1943	5.5	37.5	38.0	5.0	-					-	9.0	-	(95.0)
1944	27.5	-	16.0	-	-					-	-	16.5	(60.0)
1945	75.0	17.0	-	-	-					-	-	48.0	(140.0)
1946	-	17.5	-	-	-							20.0	(37.5)
1947			20.0	-	-						13.8	31.0	64.8
1948	-	16.0		76.0	-							38.0	130.0
1949		28.0	54.0	-	-							80.6	162.6
1950			13.0		30.0						5.5	18.0	66.5
1951	5.0	20.0	61.0									44.0	130.0
1952	7.6	26.0										29.0	62.6
1953	19.0	49.0	12.0	48.0								61.0	189.0
1954		37.0	37.0	15.0							44.0		133.0
1955	24.0										24.0	20.0	68.0
1956	27.0	8.0	5.0	96.8								10.0	146.8
TOTAL	388.2	481.2	401.2	360.7	34.8					70.3	205.2	561.9	2503.6
MEANS	20.4✓	24.1✓	22.3✓	21.2	25.8 2.9✓					3.9✓	10.3✓	26.8✓	131.9
1957	16.5	29.0	45.5	22.0	41.0					0.0	29.9	17.6	201.5
1958	15.9	0.0	7.1	1.6	2.3					0.0	3.5	4.2	34.6
1959	0.0	7.5	6.3	7.3	29.8					1.8	0.0	9.2	61.9

SAMAWA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	15	16	15	12	18					14	15	16	
1935	-	-	-	-	-					-	15.0	46.0	(61.0)
1936	42.0	40.0	31.0	-	5.0						-	38.0	156.0
1937	3.0	40.0	35.0	9.0							18.0	5.0	110.0
1938	75.0	29.0	-	-						-	-	-	(104.0)
1939	13.0	8.0	2.0	-							5.0	-	(28.0)
1940	42.0											3.0	45.0
1941		30.0		4.0								7.0	41.0
1942	3.0	8.0	4.0	10.0							11.7	15.2	56.9
1943	-	-	-	-						10.2	-	8.6	(18.8)
1944	1.3		1.3	-						-	24.1	7.6	34.3
1945	41.1	14.0								-	39.9	30.5	125.5
1946	NO RECORD												
1947	NO RECORD												
1948	-	27.9								-	-	-	(29.0)
1949	NO RECORD												
1950	-	-	-	-							101.3	30.5	(131.8)
1951	41.9	30.5	67.8							3.0	3.8	98.3	245.3
1952	33.5	13.0									121.9	75.4	243.8
1953	62.5	113.5	6.1	6.9	2.3						3.8	5.1	200.2
1954	10.2	25.4	14.0	21.3	3.8					1.0	76.2	61.7	213.6
1955	22.1		19.1	5.1	5.1						13.5	38.1	103.0
1956		24.1	6.6	19.6								15.2	65.5
TOTAL	390.6	403.4	186.9	75.9	16.2					14.2	434.2	485.2	2006.6
MEANS	26.0 ✓	25.2 ✓	12.5 ✓	6.3 ✓	1.6 0.9					1.4 1.0	31.0 28.9	30.3 ✓	134.3
1957	-	-	-	-	-					1.5	38.6	41.5	81.6
1958	11.5	-	-	-	-					0.0	14.0	13.4	(38.9)
1959	6.2	tr.	6.3	-	-					31.0	11.7	2.6	(57.8)

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	23.0	67.0	(90.0)
1936	5.0	34.0	-	4.0	10.0						-	20.0	(73.0)
1937	-	0.0	-	25.0							9.0	1.0	(43.0)
1938	95.0	3.0	9.0	7.0							15.0	70.0	199.0
1939	55.0	59.0	23.0	12.0							8.0	9.0	166.0
1940	39.0	18.0											57.0
1941		38.0		93.0								18.0	149.0
1942										-	-	-	(0.0)
1943	-	-	-	-						-	-	11.9	(11.9)
1944	8.9		9.9	6.4						-	36.1	-	(61.3)
1945	62.5	2.5	5.3	-						-	-	-	(70.3)
1946	-	-	-	-						-	-	10.4	(10.4)
1947	20.1	19.8	12.2	-						-	17.0	17.0	86.1
1948	2.5	7.4	-	17.8						-	-	-	(27.7)
1949	NO RECORD												
1950	NO RECORD												
1951	-	-	-	-							5.1	10.7	(15.8)
1952		7.4	-	-						-	17.8	17.8	(43.0)
1953	5.8	23.6	18.3	-						5.1	4.8	2.5	74.3
1954	33.3	22.4	12.5	8.9							26.4	47.2	154.0
1955	29.2	4.6	26.4	1.8							8.9	55.1	129.3
1956	11.4	8.9	17.0	39.1									114.3
TOTAL	367.7	256.6	133.6	215.0	10.0					5.1	171.1	357.6	1516.7
MEANS	24.5	16.0	11.1	17.9	3.3					0.9	13.2	23.8	110.7
1957	-	-	-	-	-					5.0	43.6	21.5	70.1

KARBALAA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	13.0	52.0	(65.0)
1936	5.0	23.0	-	5.0	17.0						-	13.0	63.0
1937	NO RECORD												
1938	44.0	9.0	21.0	2.0	-						16.0	50.0	142.0
1939	28.0	41.0	16.0	3.0	-						-	5.0	93.0
1940	33.0	13.0											46.0
1941		31.0		40.0	-						1.0	8.0	80.0
1942		9.0	10.0							4.5	-		23.5
1943	5.1	10.7	-	-	-					-	-	6.1	(21.9)
1944	NO RECORD												
1945	NO RECORD												
1946	NO RECORD												
1947	-	-	-	-	-							11.4	(11.4)
1948	8.9	6.4		21.3						-	-	14.0	50.6
1949	14.0	11.4	-	-								30.5	55.9
1950	7.6	9.1	5.1	-							12.7	5.1	39.6
1951	15.2	12.7	-	-							2.5	19.1	49.5
1952											5.1	8.9	14.0
1953	5.1	25.4	7.6		12.7							8.9	59.7
1954	19.1	7.6	15.2	20.3							8.0	55.9	126.1
1955	38.1	-	-	-	-						13.5	-	(51.6)
1956		5.1	30.5	33.0							-	-	(68.6)
TOTAL	223.1	214.4	105.4	124.6	29.7					4.5	79.8	287.9	1069.4
MEANS	14.9	13.4	9.6	11.3	7.7					0.4	6.1	18.0	81.4
1957	6.4	2.5	19.6	58.2	14.0					0.0	35.3	14.2	150.2
1958	26.7	0.0	0.0	0.0	-					-	-	11.4	(38.1)
1959	0.0	0.0	7.1	23.1						0.9	0.0	0.0	31.1

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MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1923	59.0	25.8	23.7	0.1	2.1					0.7	0.5	21.9	134.3
1924	84.1	37.4	2.1	tr.	tr.					0.5	1.0	29.0	154.1
1925	16.0	7.6	8.1	13.2	tr.					20.8	14.5	3.1	83.3
1926	28.3	49.9	8.4	13.8	0.1					tr.	194.0	13.0	307.5
1927	15.1	20.2	5.8	18.6	tr.						29.6	7.3	96.6
1928	46.8	14.3	3.9	9.0						tr.	61.8	0.3	136.1
1929	21.2	48.6	0.9	tr.	0.4					1.5	4.1	58.4	135.1
1930	45.6	11.3	3.0	6.1						tr.	1.7	21.1	88.8
1931	5.5	72.6	tr.	21.1	1.0						5.3	2.6	108.1
1932	21.3	1.5	6.5	tr.	tr.						1.9	19.2	50.4
1933	37.2	41.4	24.9	28.6	tr.			tr.		0.1	0.3	3.7	136.2
1934	41.4	28.1	0.6	24.6	10.7					tr.	13.7	88.8	207.9
1935	13.9	37.0	9.9	11.3	2.4						27.8	73.0	175.3
1936	31.6	24.3	16.5	13.4	11.1			1.6		tr.	41.3	43.3	183.1
1937	19.2	40.3	15.4	13.2	5.2					tr.	23.7	0.2	117.2
1938	88.7	52.6	29.7	1.5	tr.				tr.		0.9	32.8	206.2
1939	36.9	39.6	1.3	25.3							0.1	1.3	104.5
1940	36.9	40.8	3.7	1.6				tr.		3.9	74.6		161.5
1941	0.1	25.7	20.1	19.0	tr.					tr.	1.3	48.1	114.3
1942	1.0	9.0	12.5	8.3	tr.				tr.	2.3	6.8	29.6	69.5
1943	19.1	16.5	65.6	11.7	tr.		tr.				tr.	7.0	119.9
1944	39.9	tr.	5.9	11.8	4.6						74.3	77.9	214.4
1945	35.4	23.3	3.6	6.3	57.3		4.7			16.2	47.3	4.3	198.4
1946	22.2	8.5	63.1	29.1	tr.				tr.		36.0	15.9	174.8
1947	7.2	67.2	6.5	tr.	tr.						-	-	(80.9)
1948	3.3	6.8	9.4	11.6	tr.						2.0	60.2	94.2
1949	29.1	0.3	36.0	tr.	0.3						12.9	33.2	111.8
1950	6.3	12.9	35.2	7.9	76.9						25.9	0.8	165.9
1951	28.0	9.2	3.1	tr.	11.3	tr.				tr.	0.4	10.7	62.7
1952	14.8	24.9	2.9	53.2	0.3				tr.	tr.	23.1	34.3	153.5
1953	11.1	8.2	44.7	23.2	1.5	0.1				3.3	10.7	19.3	122.1
1954	3.8	14.9	35.0	12.8	tr.					7.8	-	-	74.3
1955	10.1	0.4	11.8	6.3	15.0						0.6	50.4	94.6
1956	4.4	6.2	-	-	-					-	-	-	(10.6)
TOTAL	884.5	827.3	519.8	402.6	200.2	0.1	4.7	1.6	tr.	57.1	739.0	810.7	4447.6
MEANS	26.0	24.1	15.8	12.2	6.1	0.0	0.1	0.0	tr.	1.7	23.1	25.3	134.4

K U T

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	18	16	15	8	8	20	20	20	20	16	18	19	
1935	-	-	-	-	-					6.8	14.7	41.0	(62.5)
1936	20.6	39.7	10.7	9.6	12.6							55.3	148.5
1937	10.6	62.0	23.3	10.5	9.9						17.9		134.2
1938	87.5	-		11.0							69.4	21.0	188.9
1939	24.5	33.6	25.0	16.0							20.4	8.3	127.8
1940	91.2	77.3	14.1	7.1								5.1	194.8
1941	3.5	23.2	11.8	-						-	-	21.4	(59.9)
1942	0.4	7.4	1.0		-					0.3	19.0	20.0	48.1
1943	2.2	2.2	49.3	-	-					-	-	-	(53.7)
1944	7.0	1.0	-	-	-					-	3.8	3.7	(15.5)
1945	NO RECORD												
1946	NO RECORD												
1947	-	-	-	-	-						39.0	40.0	(79.0)
1948	45.0	33.2	9.2	-	-							60.0	147.4
1949	18.3	53.8	47.4	-	-							62.5	182.0
1950	17.5	20.7	1.7	-	-						10.0	21.0	70.9
1951	15.7	36.0	33.7	-	-							25.8	111.2
1952	13.2	11.4	-	-	-						19.2	25.0	68.8
1953	23.3	40.5	13.7	11.5							10.0	11.3	110.1
1954	15.4	21.9	12.9	-	-					-	19.5	41.1	(110.8)
1955	38.0	-	-	-	-					tr.	28.0	12.2	(78.2)
1956	5.8	46.4	22.9	10.6								12.3	98.0
TOTAL	439.7	510.1	276.7	76.3	22.5					7.1	270.9	487.0	2090.3
MEANS	24.4	31.9	18.4	9.5	3.8 2.8					0.4	15.1	25.6	129.1
1957	7.5	7.0	32.4	36.8	-					tr.	71.4	29.0	184.1
1958	11.1	tr.	tr.	0.0	0.0					0.0	16.3	10.0	37.4
1959	-	-	-	-	-					0.0	16.3	-	(16.3)

AUSTA SHARIF

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1954	-	-	-	-	-				-	-	-	152.7	(152.7)
1955	59.8	45.0	71.6	-	53.8						116.9	161.6	635.4
1956	60.4	67.4	115.6	126.7	3.0				1.3		29.8	83.6	486.6
MEANS	60.1	56.2	93.6	126.7	28.4				0.7	0.0	70.8	132.6	571.1
1957	119.0	126.5	252.6	150.8	141.6				-	36.0	113.7	88.5	1028.7

MIRZA RUSTAM

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1945	-	-	-	-	5.8					-	117.4	152.8	(276.0)
1946	149.7	195.1	-	-	-					-	-	95.9	(440.7)
1947	413.1	-	-	-	-					-	-	-	(413.1)
1948	-	-	-	-	-					-	142.0	164.0	(306.0)
1949	120.9	313.2	323.2	104.4	23.9						151.7	173.7	1211.0
1950	421.3	208.6	101.4	50.4	117.3							94.4	993.4
1951	115.2	212.8	15.0	20.7	1.8					2.6	5.2	143.0	516.3
1952	51.3	400.4	91.4	60.7	70.7					-	-	-	(674.5)
1953	-	225.0	151.4	15.8	-					0.9	180.3	130.4	910.5
1954	120.3	350.6	291.7	183.5	-						19.1	70.0	1076.9
1955	80.1	60.1	101.1	150.9	30.5						20.4	16.8	459.9
1956	13.3	10.9	13.9	14.6	-						7.2	16.5	118.1
TOTAL	1485.2	1976.7	1089.1	601.0	250.0					3.5	643.3	1057.5	7106.3
MEANS	165.0	219.6	136.1	75.1	41.7					0.5	71.5	105.8	815.3
1957	15.6	25.4	29.1	19.5	13.3					1.2	7.8	8.8	120.7

B A K R A J O

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	76.2	163.8	82.0	98.0	51.0	0.3	tr.			tr.	118.0	154.5	743.8
1937	96.5	65.0	14.5	53.0	32.2					50.8	95.3	23.6	430.9
1938	226.3	174.0	92.9	35.0	25.4	3.3	19.7		1.0		187.0	271.8	1036.4
1939	101.2	156.6	164.7	155.1	3.3					20.1	92.2	110.0	803.2
1940	230.2	135.5	76.0	51.5	-					26.8	46.3	147.3	713.6
1941	115.3	137.0	208.7	50.8	-					-	10.0	232.4	754.2
1942	137.0	106.3	125.8	3.3	7.0					28.5	79.3	39.5	626.7
1943	94.9	127.6	216.1	115.7	16.5					10.2	-	170.4	751.2
1944	243.1	17.5	109.1	43.3	33.7					-	146.1	3.2	596.0
1945	270.0	73.5	46.5	72.6	104.7	2.0				4.6	219.0	106.5	898.8
1946	111.1	136.9	217.2	155.2	86.3					3.4	5.1	143.4	858.6
1947	117.6	128.0	94.7	8.2	23.2					1.9	59.1	86.1	518.8
1948	37.7	90.0	81.0	143.2	6.6					0.6	21.3	147.1	527.5
1949	NO RECORD												
1950	NO RECORD												
1951	NO RECORD									-	11.6	235.9	(247.5)
1952	-	-	-	-	-					5.5	193.6	87.4	938.1
1953	160.4	222.6	152.7	95.1	6.8	14.0					80.6	158.6	977.8
1954	61.7	201.4	254.7	204.0	16.0						169.7	169.4	636.5
1955	55.4	40.3	85.2	115.8		0.7					30.0	102.7	475.2
1956	65.3	78.8	91.7	106.7									
TOTAL	2199.9	2054.8	2113.5	1506.5	413.5	20.3	19.7		1.0	151.8	1564.2	2389.8	12435.0
MEANS	129.4	120.9	124.3	88.6	29.5	1.1	1.1		0.6	10.8	92.0	132.8	731.1
1957	133.1	149.5	264.1	247.7	210.5	7.3	-		-	35.1	97.5	97.5	1109.2

QALAT SUKAR

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					1.6	28.2	65.8	(95.6)
1936	26.8	51.2	18.8	20.4	14.0							67.5	198.7
1937	4.5	10.6	9.6	21.9	13.2						20.0		79.8
1938	67.7	28.2									6.0	8.2	109.6
1939	5.0	13.5	1.5	13.0	-					-	-	5.6	(38.6)
1940	71.8	1.6	0.6										74.0
1941	NO RECORD												
1942	NO RECORD												
1943	NO RECORD												
1944	NO RECORD												
1945	NO RECORD												
1946	20.1	-	-	-	-					-	-	150.0	(170.1)
1947	200.1	100.1	-	-	-						6.5	2.9	(309.6)
1948	4.5	2.7	2.7	-	-					-	-	-	(9.9)
1949	NO RECORD												
1950	-	-	-	-	-						4.4	2.6	(7.0)
1951	-	-	-	-	-					-	2.2	35.0	(73.2)
1952	25.0	-	-	-	-					-	27.5	44.0	(96.5)
1953	16.5	71.5	-	-	-					-	-	-	(88.0)

BUSAIYA

YEAR	JAN. 9 ✓	FEB. 9 ✓	MAR. 8 ✓	APR. 9 ✓	MAY 7 ✓	JUNE 11	JULY 11	AUG. 11	SEPT. 11	OCT. 9 ✓	NOV 10 ✓	DEC. 10 ✓	TOTAL
1935	-	-	-	-	-						15.7	91.3	(107.0)
1936	31.4	18.0	14.7	14.9	3.3							30.0	112.3
1937	0.9	27.6	10.8	11.6	4.1					1.8	47.3		104.1
1938	58.5	20.1	35.7	7.7								33.9	155.9
1939	29.7	40.8		11.2									81.7
1940	24.7	20.1	1.9	16.1							7.0		69.8
1941		22.6		13.0						0.5	tr.	3.6	39.7
1942	tr.	9.8	19.2	21.5							3.2	10.3	64.0
1943	2.4		19.8	0.5	-							4.6	27.3
1944	12.2		-		-					-	-	-	(12.2)
1953	-	-	-	-	-					-	11.5	17.7	(29.3)
TOTAL	159.8	159.0	102.1	96.5	7.4					2.3	84.7	191.4	803.2
MEAN	17.8	17.7	12.8	10.7	1.1					0.3	8.5	19.1	88.0

SHARICHA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	9	7	7	8	6	13	13	13	13	6	7	11	
1935	-	-	-	-	-					0.4	8.7	28.4	(37.5)
1936	29.8	13.4	5.9		6.9						1.0	70.2	127.2
1937	3.1	7.5	5.5	13.5						7.0	36.5	1.0	74.1
1938	44.5	20.5	2.5								4.3	51.1	122.9
1939	40.2	16.7		0.3							4.6	45.0	106.8
1940	23.0	12.7		63.0						-	-	-	(98.7)
1941	NO RECORD												
1942	-	-	-	26.0	-					-	-	19.0	(45.0)
1943			44.5		4.9					-	-	-	(49.4)
1944 to 1949	NO RECORD												
1950	-	-	-	-	-						2.2	2.1	(4.3)
1951	1.7	-	-	-	-					-	-	14.0	(15.7)
1952	NO RECORD												
1953	NO RECORD												
1954	-	-	-	-	-					-	-	87.0	(87.0)
1955	20.0	-	10.0	1.0	-					-		37.0	(68.0)
1956		17.0	-	-	-					-	-	18.8	(35.8)
MEANS	18.0	12.5	9.8	13.0	2.0					1.2	8.2	34.0	98.7

SALMAN

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	9	10	9	9	8	12	12	12	12	11	10	10	
1935	-	-	-	-	-					0.4	15.5	36.1	(52,0)
1936	29.3	27.3	5.0	5.4	5.9						3.2	56.2	132.3
1937	2.0	23.5	9.5	8.0							36.5	9.0	88.5
1938	38.7	18.3	3.5								8.6	63.8	132.9
1939	26.0	25.0		4.5							0.6	7.8	63.9
1940	9.2	12.0	2.3	49.1	0.5					0.6	7.9		81.6
1941		32.2	3.3	16.9						2.5		02.	55.1
1942		16.6	5.7							0.8	-	29.7	52.8
1943			-	29.3	0.3					15.0		11.0	55.6
1944	-		0.7		-					-	-	-	(0.7)
1953	-	-	-	-	-					7.0	15.0	7.0	(29.0)
1954	5.0	5.0	13.0	-	-					6.0	55.0	-	(84.0)
MEANS	12.2	16.0	4.8	12.6	0.[illegible]					2.9	14.2	2[illegible].1	85.6

M A Q I L

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	-	65.0	(65.0)
1936	31.0	36.0	11.0	10.0							30.0	48.0	166.0
1937	34.0	73.0	-	12.0							52.0	-	171.0
1938	118.0	37.0	59.0	-							-	52.0	266.0
1939	40.0	44.0	0	46.0							-	1.0	131.0
1940	50.0	43.0									18.0		111.0
1941		27.0	35.0	132.0						1.0		30.0	225.0
1942			12.0	6.0							-	-	(18.0
1943	15.5	-	-	-						-	-	-	(15.5)
1944 to 1949	NO RECORD												
1950	-	-	-	-						-	29.5	3.3	(32.8)
1951	42.9	9.7	2.3							-	0.8	11.4	67.1
1952	12.4	24.4	-	-						-	27.4	-	(64.2)
1953	3.3	11.4	22.9	31.8						1.5	15.5	17.5	103.9
1954	2.5	19.1	31.0	10.2							173.7	134.6	371.1
1955	9.1	4.8	19.3	2.8	2.0						2.0	48.8	88.8
1956	6.6	6.4	16.4	16.8						-	-	80.8	117.0
MEANS	26.1	25.8	19.9	24.4	0.7					0.4	31.7	41.0	170.0
1957	25.9	11.4	25.1	31.6	25.1					0.0	16.2	18.3	153.6

N U K H A I B

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	10 9	10 8	10 10	10 8	11 5	13 10	13 10	13 10	13 10	10 3	10 8	10 8	
1935	-	-	-	-							6.4	77.5	(83.9)
1936	5.6	8.8	5.9	2.7	13.0						9.5	13.3	58.8
1937	12.2	23.2	2.0	9.0	2.2					14.4	40.7		103.7
1938	19.2	4.6	31.4									50.8	106.0
1939	44.2	23.0	10.9	13.0							9.6	7.0	107.7
1940	23.1	13.8	4.2	16.3	2.5					9.2	10.5	tr.	79.4
1941	-	-	-								0.1	0.6	(0.7)
1942		11.0	8.0	3.0	5.0					-	-	-	(36.0)
1943	3.5	21.5	14.0	1.2						-	-	-	(40.2)
1944	8.0		12.0	7.0	7.0					-	-	-	(34.0)
1954	-	-	-	-	-					5.0	24.0	22.0	(51.0)
1955	10.0		2.0	10.0							2.0	8.0	(32.0)
1956	2.0	5.0	5.0	-	-							-	(12.0)
MEA[illegible]	12.8	11.[illegible]	9.5	6.2	3.3					2.9	10.[illegible]	19.9	5.8

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S I N J A R

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					36.9	109.5	53.0	(199,4)
1936	45.5	22.0	15.6	50.0	29.0		31.5				73.0	107.0	373.6
1937	106.0	38.0	2.5	52.0	28.5					114.0	77.5	18.0	436.5
1938	208.0	64.0	54.0	73.0	23.0						72.5	62.0	556.5
1939	58.0	59.0	198.0	84.0	3.8					2.0	55.3	106.2	666.3
1940	127.3	73.7	45.9	78.0	29.0					38.0	10.0	78.5	480.4
1941	65.5	101.5	78.0	35.0							19.5	213.0	512.5
1942	242.0	90.0	60.0	-	-					10.2	72.5	18.0	577.8
1943	69.0	128.0	57.0	46.3	4.5					16.4	1.9	26.1	349.2
1944	135.8	5.0	73.4	51.7	29.2					13.0	132.3	86.9	527.3
1945	198.2	31.6	8.3	12.4	12.6						44.6	103.1	410.8
1946	25.1	51.6	56.3	49.5	118.4					-	-	-	(300.9)
1947	-	-	-	1.3	3.7	0.7				0.2	43.3	43.2	(92.4)
1948	35.0	33.0	32.3	103.3	19.9					3.2	17.5	112.6	356.8
1949	44.6	110.4	165.3	60.4	32.8						3.0	179.5	596.0
1950	108.2	69.0	109.5	33.5	125.5					4.0	11.5	31.5	492.7
1951	55.0	36.7	44.0	31.5						38.3	12.9	58.5	276.9
1952	25.4	198.8	-	-	-						16.1	52.8	450.3
1953	54.9	143.4	121.9	95.3						13.0	66.2	82.2	605.5
1954	108.9	94.7	167.0	159.0	14.4						53.5	72.0	669.5
1955	22.3	76.4	23.0	30.2	12.7						28.0	104.3	296.9
1956	119.1	37.9	57.1	27.7							14.4	67.2	366.5
TOTAL	1853.8	1464.7	1369.1	1074.1	487.0	0.7	31.5			289.2	935.0	1675.6	9180.7
MEANS	92.7	73.2	72.1	56.5	28.6	0.0	1.8			14.5	44.5	79.8	463.7
1957	71.1	61.6	127.6	75.1	97.4	6.1				2.7	20.7	59.5	521.8

D U H O K

RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1943	-	-	-	-	-					47.4		73.8	(121.2)
1944	180.2	20.5	123.0	82.8	90.0					16.6	199.1	109.2	821.4
1945	242.0	57.9	33.3	27.4	23.9					5.8	82.2	110.5	583.0
1946	82.8	196.6	186.1	135.1	120.9					-	-	-	(721.5)
1947	-	-	-	2.9	40.6					-	113.2	72.6	(229.3)
1948	42.4	92.6	99.9	150.0	24.8					2.7	22.9	126.0	561.3
1949	57.7	102.6	205.9	70.0	11.1							205.3	652.6
1950	128.7	112.6	123.5	11.4	118.0					10.6	[illegible]	60.2	575.6
1951	95.9	80.2	25.9	31.3	25.6					20.3	36.9	134.5	450.6
1952	32.8	226.2	56.1	44.1	19.7						18.8	74.7	472.4
1953	131.3	214.3	148.4	84.1	3.5					9.6	105.2	85.5	781.9
1954	84.6	186.4	155.8	110.8	1.7						49.6	100.4	689.3
1955	26.9	83.0	48.1	113.2					9.4		74.3	158.1	513.0
1956	107.8	70.8	128.9	44.3	13.4						27.4	94.5	506.8
TOTAL	1213.1	1443.7	1334.9	907.4	493.2				9.4	113.0	740.2	1405.3	7660.2
MEANS	101.1	120.3	111.2	69.8	37.9				0.7	10.3	56.9	108.1	616.3
1957	153.4	127.1	162.9	108.3	110.1	6.1				-	94.5	-	762.4

19 44

F A O MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN. (14)	FEB. (15)	MAR. (14)	APR. (14)	MAY (11)	JUNE (19)	JULY (19)	AUG. (19)	SEPT. (19)	OCT. (14)	NOV. (15)	DEC. (16)	TOTAL
1935	-	-	-	-	-						82.2	100.9	(183.1)
1936	23.3	14.1	25.3	22.6	9.6						46.2	35.4	176.5
1937	26.3	34.4	2.3	5.0	20.5					17.6	54.2	1.2	161.5
1938	86.3	28.3	44.2	3.4							tr.	45.3	207.5
1939	29.0	68.3	6.6	18.9	-					-	0.8	1.5	125.1
1940	86.2	54.0	3.1	3.5	tr.					1.9	99.1		247.8
1941	3.8	18.6	6.6	48.1						-	-	-	(77.1)
1942 to 1943	NO RECORD												
1944	-	-	-	-	-						31.2	45.8	(77.0)
1945	50.8	36.3	0.2	5.3	9.7						103.6	19.3	225.2
1946	11.1	69.8	99.9	35.3	tr.						14.5	27.5	258.1
1947	-	38.8	21.5	tr.	-					-	-	-	(60.3)
1948	-	-	-	-	-						0.3	53.4	(53.7)
1949	55.4	0.8	30.1	1.5	-						3.1	46.4	137.3
1950	21.0	8.0	20.4	tr.	19.2						9.3	14.9	92.8
1951	42.2	15.1	1.5	-	-					-	-	-	(58.8)
1952	NO RECORD												
1953	-	-	-	-	-					tr.	9.1	25.5	(34.6)
1954	2.0	36.5	68.8	13.0							149.0	56.9	326.2
1955	1.0	1.0	17.5	7.0							6.4	58.4	91.3
1956	19.8	4.8	-	34.0						-	-	120.4	(179.0)
TOTAL	458.2	428.8	348.0	197.6	59.0					19.5	609.0	652.8	2772.9
MEANS	32.7 ✓	28.6 ✓	24.9 ✓	14.1 ✓	6.6 5.4					1.4 ✓	40.6 ✓	40.8 ✓	189.7
1957	-	-	-	-	-					-	69.9	23.8	(93.7)

GHABAISHIYA

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	23.0	83.0	(106.0)
1936	24.0	16.0		13.0	6.0						4.0	68.0	131.0
1937		21.0		13.0							32.0		61.0
1938	72.0	18.0	31.0								2.0	33.0	156.0
1939	50.0	38.0		17.0									105.0
1940													0.0
1941													0.0
1942										-	-	-	(0.0)
1943	NO RECORD												
1944	NO RECORD												
1945	NO RECORD												
1946	-	-	-	-	-						1.3	12.7	(14.0)
1947	6.4	-	-	-	-					-	-	-	(6.4)
1948	NO RECORD												
1949	NO RECORD												
1950	-	-	-	-	-						18.0	14.0	(32.0)
1951	34.0	7.1	1.0							-	-		42.1
1952	3.8	-	-	-	-						4.3	26.7	34.8
1953		5.1	16.5	-	-					-	-	15.0	(36.6)
1954	3.8	5.1	15.4	9.4						3.3	104.6	61.2	201.9
1955	24.9		9.7								0.8	8.0	43.4
1956	14.0	10.2	-	-	-						-	15.9	(39.1)
TOTAL	232.9	120.5	73.7	52.4	6.0					3.3	190.0	337.5	1016.3
MEANS	16.6	10.0	6.7	5.2	0.6					0.8	15.8	23.5	79.2
1957	37.3	13.2	7.6	64.2	-					0.0	0.0	13.7	136.0

U R (JUNCTION)

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	4.0	78.0	(82.0)
1936	14.0	27.0	1.0	17.0	12.0						-	28.0	99.0
1937	-	15.0	5.0	13.0	1.0						33.0	7.0	74.0
1938	65.0	28.0	6.0	2.0	-						1.0	48.0	150.0
1939	26.0	46.0	-	4.0	-						-	4.0	(80.0)
1940	25.0	13.0			-								38.0
1941		8.0			-								8.0
1942					-					-	-	-	(-)
1943	-	-	-	-	-					-	-	-	(2.0)
1944	-		3.0	1.3	6.4					-	-	-	(10.7)
1945	NO RECORD												
1946	NO RECORD												
1947	-	-	-	-	-					2.8	25.7		(28.0)
1948	14.7		-	-	-					-	-	-	(14.7)
1949	NO RECORD												
1950	-	-	-	-	-						44.7		(44.7)
1951												30.5	30.5
1952		4.6	-	-	-					-	-	-	(4.6)
1953	-	-	-	-	-					5.8	17.3	-	(23.1)
1954	-	-	-	-	-					10.9	41.1	69.6	(121.6)
1955	7.9	tr.	11.4	1.8							7.6	19.1	47.6
1956	-	24.1	-	-	-					-	-	39.6	(63.7)
TOTAL	152.6	165.7	26.4	39.1	19.4					19.5	174.4	325.8	922.9
MEANS	15.3	12.7	2.9	3.9	4.9					2.4	15.9	23.3	81.3
1957	22.4	36.1	28.9	71.9	7.6					-	35.6	-	202.5

B A D A A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	41.0	72.0	19.0	46.0	5.0					-	-	72.0	255.0
1937	5.0	41.0	21.0	31.0							12.0	14.0	124.0
1938	123.0	96.0	9.0	2.0							5.0	120.0	355.0
1939	58.0	61.0	-	19.0						-	-	-	(138.0)
1940	5.5	3.6	21.6	1.1								5.8	37.0
1941		4.9		5.1	-								10.0
1942		14.3	3.1	0.9							6.5	4.6	29.4
1943	1.8		13.2	1.3						0.9		2.9	20.1
1944	0.5		1.4	0.5	0.7						5.0	0.4	8.6
1945	35.2	10.5	29.5	4.0	7.9						32.0	13.5	132.6
1946	51.0	3.0	18.0	41.0							3.0	21.7	137.7
1947	61.0	2.0	20.5		25.5						-	6.0	115.0
1948	33.0	5.0	20.0	8.0	-						-	-	(66.0)
1949	-	8.0	-	-	-					-	-	-	(8.0)
1950	NO RECORD												
1951	17.0		23.0								6.0	40.0	86.0
1952	21.0	11.0		6.2							49.0	40.5	127.7
1953	21.5	9.0	7.5	12.0						2.5	37.0	13.5	103.0
1954	2.0	17.0	23.0	3.0						4.0	64.5	76.0	189.5
1955	2.5		20.0	1.4	11.0							11.0	45.9
1956	37.0	26.0	5.5	6.0								19.0	93.5
TOTAL	516.0	384.3	255.4	188.5	50.1					7.4	220.0	460.9	2082.6
MEANS	27.2	19.2	14.2	9.9	3.6					0.5	14.7	27.1	116.4
1957	13.5	44.0	26.0	10.2	8.0					0.0	-	17.0	118.7

I F T I K H A R

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	46.0	52.0	(98.0)
1936	17.0	130.0	15.0	45.0	16.0						52.0	84.0	359.0
1937	24.0	35.0	-	-	-						39.0	-	(98.0)
1938	120.0	42.0	90.0	7.0	23.0						53.0	58.0	393.0
1939	55.0	47.0	-	73.0	-						28.0	85.0	288.0
1940	144.0	60.0	44.0								45.0		293.0
1941	35.0	105.0	51.0	44.0								62.0	297.0
1942	31.0	58.0	65.0								41.1	24.4	219.5
1943	34.3	74.4	73.4									19.1	201.2
1944	37.1	4.3	5.6	-						-	46.5	-	(93.5)
1945	103.9	11.7	18.0	-						-	27.4	67.1	228.1
1946	64.8	44.5	156.2	37.8						-	16.3	39.4	359.0
1947	36.3	5.1	51.1	-						-	-	-	(92.5)
1948	7.6	8.9	-	22.9							5.1	71.1	115.6
1949	17.8	45.7	94.0	-							-	135.1	292.6
1950	41.4	41.4	11.4	5.1	24.1							10.2	133.6
1951	39.4	76.2	44.5	6.4							21.6	40.6	228.7
1952	2.5	15.2	28.4	29.7							6.4	83.8	166.0
1953	42.9	70.6	29.2	46.5	1.0						42.9	22.4	255.5
1954	7.6	89.6	70.6	107.2						4.6	34.8	68.3	382.7
1955	44.2	7.1	14.7	48.0	4.1						12.7	74.9	205.7
1956	16.3	12.7	2.5	50.8							3.8	44.5	130.6
TOTAL	922.1	984.4	864.6	523.3	68.3					4.6	521.6	1041.9	4930.8
MEANS	43.9	46.9	48.0	32.7	3.6					0.3	27.5	54.8	257.7
1957	59.7	75.2	227.8	81.7	64.9					-	65.6	19.0	593.9
1958	59.3	0.0	11.3	0.0							17.8	30.0	
1959	0.0	59.7	61.0	25.4						0.0	5.1	0.0	

J A L A W L A A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					-	35.0	66.0	(101.0)
1936	19.0	72.0	8.0	22.0	17.0					-	23.0	66.0	229.6
1937	27.0	45.0	-	39.0	-					18.0	28.0	1.0	204.3
1938	153.0	28.0	13.0	-							79.0	101.0	408.6
1939	54.0	40.0	34.0	57.0							42.0	13.0	240.0
1940	83.0	105.0	17.0									15.0	220.0
1941	10.0	60.0	25.0	8.0								36.0	139.0
1942	11.0	25.0	37.0							-	-	11.7	111.1
1943	19.8	91.9	77.2	35.6						3.8		23.9	252.2
1944	36.1	4.6	26.2	10.9						-	-	-	(77.8)
1945	NO RECORD												
1946	NO RECORD									-	-	23.6	(23.6)
1947	-	-	-	-						-		38.6	91.3
1948	14.5	26.9	1.8	6.9								128.3	368.1
1949	47.8	58.4	108.0	-						-	40.1	11.4	192.0
1950	41.4	31.0	-	-						6.4	38.1	96.5	342.9
1951	29.2	101.6	71.1									108.0	(108.0)
1952	0.0	-	-	-							31.2	19.1	(131.1)
1953	29.0	51.8	-	-	-						36.6	64.3	352.6
1954	25.4	48.8	102.1	75.4							50.8	69.6	228.0
1955	34.5	12.7	23.6	21.6	15.2							50.8	159.5
1956	8.4	29.2	15.2	55.9									
TOTAL	643.1	831.9	559.2	332.3	32.2				0.0	28.2	403.8	943.8	3774.5
MEANS	35.7	51.1	39.9	25.6	6.4				0.0	2.6	23.8	49.7	234.8
1957	44.4	57.9	145.5	85.2	-				-	4.3	103.0	76.2	516.8
1958	130.8	8.9	29.2	0.0	0.0					0.0	15.2	53.5	
1959	2.5	45.7	27.4	-	3.8								

T U Z

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	12	14	12	13	12						12	12	
1935	-	-	-	-	-						59.0	56.0	(115.0)
1936	12.0	137.0	11.0	33.0	30.0						49.0	81.0	353.0
1937	36.0	39.0	-	21.0	-						45.0	-	247.6
1938	129.0	68.0	66.0	-	8.0						54.0	80.0	446.8
1939	61.0	43.0	-	70.0	-						-	-	(174.0)
1940	-	18.0	12.0								96.0	32.0	198.5
1941	32.0	63.0	23.0	27.0								39.0	184.0
1942	44.0	52.0	43.0								-	-	139.0
1943	-	68.6	78.0	30.7							-	-	177.3
1944	NO RECORD												
1945	NO RECORD												
1946	NO RECORD										172		
1947	-	-	-	-	-						198.8	35.6	(55.4)
1948	42.4	18.8	17.8	83.1							-	-	162.1
1949	NO RECORD												
1950	NO RECORD												
1951	-	-	-	-	-						-	44.5	(44.5)
1952	8.9	41.9	32.3	20.3							2.5	140.5	246.4
1953	52.1	101.9	31.8	75.7							51.3	24.9	337.7
1954	10.4	69.1	121.4	117.0							32.8	113.8	464.5
1955	39.1	29.7	2.8								17.3	81.0	169.9
1956	18.5	13.7	10.2	66.0							3.3	37.3	149.0
TOTAL	485.4	763.7	449.3	543.8	38.0						430.0	765.6	3475.8
MEANS	40.5	54.6	37.4	41.8	5.4 3.2					50.8	35.8	63.8	279.3
1957	37.3	117.1	240.2	100.1	64.2						11.4	11.2	581.5
1958	52.6	9.9	9.9	0.0	0.0						-	31.0	
1959	8.1	6.2	130.3	21.1	48.5								

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D I B I S

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1936	32½5	140.8	58.2	66.3	34.3					0.3	87.9	104.1	524.4
1937	93.2	19.1	1.0	42.2	0.8					29.7	67.6	2.0	255.6
1938	130.0	55.6	74.4	31.8	25.9		0.3		1.3		55.6	77.5	257.9
1939	63.5	68.8	99.1	56.6	2.5					11.2	57.7	162.0	521.4
1940	193.0	67.1	25.4	36.6	tr.					3.6	46.2	57.0	428.8
1941	38.3	125.5	74.7	66.5						0.3	9.9	92.7	407.9
1942	47.0	45.2	38.4	4.8	1.5				0.3	5.3	43.7	18.0	204.2
1943	25.9	84.3	138.4	86.4	8.9					3.0	1.0	20.3	368.2
1944	108.7	10.9	32.5	26.7	4.1						71.1	61.7	315.7
1945	98.6	27.4	41.1	26.7						6.9	100.8	66.3	367.8
1946	114.6	68.3	148.3	64.8	-					-	-	-	(396.0)
TOTAL	945.3	713.0	731.5	509.4	78.0		0.3		1.6	60.3	541.5	661.6	4242.5
MEANS	85.9	64.8	66.5	46.3	7.8		0.0		0.1	6.7	54.2	66.2	398.5

B A I J I

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	7	7	7	6	4	10	10	10	10	10	7	7	
1935	-	-	-	-	-					5.3	29.1	6.0	(40.4)
1936	7.0	37.5	9.2	28.2	19.0						13.0	80.9	194.8
1937	41.3	30.5		26.[illegible]						1[illegible]3	79.3		193.9
1938	59.1	41.3	71.9								12.0	67.4	251.7
1939	13.5	44.1	43.6	37.[illegible]							46.2	58.5	243.7
1940	87.8	33.0	46.0	-	-						-	-	(166.8)
1941	NO RECORD												
1942	-	-	-	-	-						39.4	-	(39.4)
1943	10.4	35.9	79.6	17.[illegible]	-						-	13.5	(170.6)
1944	43.4		7.1	14.[illegible]	-						-	-	(65.1)
1945 TO 1955	NO RECORD												
1956	-	-	-	-	-						0.8	38.8	(39.6)
MEANS	37.5	31.8	36.8	20.8	4.8					3.[illegible]	31.4	37.9	204.6
195[illegible]	34.4	27.2	101.6	51.8	tr.					0.[illegible]	7.5	38.8	261.3

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Q A Y A R A

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	5	5	3	3	2	6	6	6	6	5	5	5	
1938	103.9	42.9	42.2	25.4	9.4						31.5	74.2	329.5
1939	39.9	53.1	72.1	50.8	0.8					4.6	41.4	67.1	329.8
1940	90.9	57.4	37.1	35.3	-				tr.	16.0	50.3	41.1	328.1
1941	31.2	70.9	-	-	-				tr.	2.3	10.4	48.8	163.6
1942	36.1	54.9	-	-	-					-	-	-	(91.0)
1956	-	-	-	-	-							26.5	(26.5)
MEANS	60.4	255.8	150.5	137.8	10.2				tr.	24.6	135.3 26.7	251.5	291.8
1957	29.5	14.5	104.0	30.2	34.0				-	-	14.6	17.6	244.2

~~K A R I R A (K)~~

~~H A D I T H A (K)~~

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1934	45.5	8.9	1.0	18.5	10.2					tr.	tr.	26.2	110.7
1935	2.0	3.3		13.5						1.5	28.4	27.2	76.3
1936	5.3	22.6	11.7	8.9	13.2		tr.				20.3	19.3	116.1
1937	21.6	15.2	0.8	17.0	4.1					31.2	55.6	0.3	146.2
1938	58.4	15.0	13.0	1.0	1.5		1.5		3.0	tr.	34.5	48.0	175.9
1939	22.6	30.2	28.4	74.7	8.6					5.8	31.2	37.1	239.0
1940	41.7	25.7	11.7	31.5						26.4	8.4	8.4	154.2
1941	12.7	30.0	22.4							9.9	13.0	56.1	144.5
1942	36.3	15.7	5.6	1.8						85.1	1.5	18.5	164.9
1943	8.9	29.5	7.9	6.4								10.4	63.5
1944	10.7	1.3	35.1	8.1							19.8	20.8	96.2
TOTAL	265.7	197.4	137.6	181.4	37.6		1.5		3.0	159.9	212.7	272.3	1469.1
MEANS	24.2 ✓	17.9 ✓	12.5 ✓	16.5 ✓	3.4 ✓		0.1 ✓		0.3 ✓	14.5 ✓	19.3 ✓	24.8 ✓	133.5
1957	-	-	-	-	-		-		-	0.0	30.7	32.7	63.4
1958	33.0	0.7	7.4	3.5								21.0	
1959	-	29.6	62.8	8.9	28.0							13.7	

A R B I L

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1935	-	-	-	-	-					6.4	89.6	26.4	(122.4)
1936	67												
1936	76.3	101.1	81.9	51.6	56.5						121.1	66.0	554.5
1937	128.2	27.8	3.4	57.8	23.6					53.2	80.0	7.2	381.2
1938	129.3	81.8	41.1	37.3	2.1					-	130.2	28.9	450.7
1939	75.3	-	-	-	-					17.1	54.7	127.7	(274.8)
1940	145.4	82.9	56.2	47.0	27.0					12.7	56.9	53.0	481.1
1941	78.2	136.9	80.7	9.1	-						11.0	386.3	702.2
1942	373.8	74.2	136.5	113.6	-					2.3	78.5	85.7	864.7
1943	155.7	139.2	171.2	-	-						0.7	68.0	534.8
1944	150.1	7.7	40.0	70.9	1.7						58.8	8.1	337.3
1945	184.0	19.7	34.0	-	-					-	59.8	59.6	356.1
1946	79.7	138.7	178,0	132.2	81.3					-	-	-	(609.9)
1947	-	-	-	-	-					-	49.8	51.3	(101.1)
1948	12.0	39.7	31.4	153.5	-					-	6.8	89.5	332.9
1949	48.0	111.0	172.9	57.2	35.7					-	-	135.8	560.6
1950	124.8	111.8	83.1	24.2	107.0					3.8	13,2	54,7	522.6
1951	49.9	116.6	57.6	22.5	32.0					17.3	21.5	81.0	398.4
1952	20.0	139.4	99.7	49.0	2.0						8.9	84.7	403.7
1953	72.2	75.2	77.6	29.5							39.6	35.4	329.5
1954	89.1	111.3	114.4	114.6	9.3					2.1	29.8	32.1	502.7
1955	21.6	42,1	21,8	51,3	1.8						59.5	49.4	247.5
1956	79.7	46.6	43.8	71.3							11.4	33.3	285.1
TOTAL	2093.4	1603.7	1525.3	1092.6	380.0					114.9	97.8	1564.1	9353.8
MEANS	104.5	84.4	80.3	64.3	29.2					7.7	49.0	74.5	493.9
1957	53.5	52.9	118.2	66.5	99.1					-	46.7	46.4	483.3
1958	150.4	9.1	24.7	3.5							59.5	49.1	
1959	5.2	139.5	88.6	33.8								2.7	

CHAMCHAMAL

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1939	-	113.3	144.8	86.2	34.0					29.9	52.0	142.2	650.9
1940	355.4	124.5	40.5	63.4	15.4					-	7.6	-	697.2
1041	78.7	57.2	45.2	43.9	-						2.3	127.8	383.7
1942	137.9	72.2	100.9	6.5	10.3					11.6	11.5	20.6	371.5
1943	33.7	40.0	258.5	112.0	5.2					-	-	55.1	588.0
1944	202.3	2.5	78.1	-	25.5					2.0	137.5	71.2	574.8
1945	203.5	4.2	65.5	30.2	46.2						150.5	142.7	642.8
1946	188.0	235.3	213.8	120.2	60.0					-	97.1	126.5	1045.6
1947	80.9	129.0	112.2	35.0	30.0						-	-	512.1
1948	-	-	-	-	-						0.9	80.9	(81.8)
1949	77.3	135.6	145.3	86.5								123.9	568.6
1950	123.9	102.6	25.5	16.7	118.4							27.7	414.8
1951	202.2	112.1	53.7	29.9	11.7					13.3	28.3	103.4	554.6
1952	22.9	105.3	-	-	-						7.5	55.1	(382.0)
1953	70.8	144.0	105.0	65.7							77.7	77.3	540.5
1954	108.0	88.4	107.3	146.4	14.8					-	-	-	(464.9)
1955	NO RECORD												
1956	-	-	-	-	-						14.0	38.2	(52.2)
TOTAL	1885.5	1466.2	1496.3	824.6	371.5					56.8	586.7	1192.6	7880.4
MEANS	134.7	97.7	106.9	55.7	28.6					4.7	41.9	85.2	555.4
1957	84.8	108.0	131.7	142.5	142.8	26.0				21.7	85.4	-	792.9
1958	109.0	16.0	-	-						0.0	16.0	44.0	
1959	0.0	141.5	72.0	16.5	35.0						9.0	12.7	

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RAWANDUZ

MONTHLY RAINFALL IN MILLIMETERS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
	22 20	22 20	22 20	21 20	17 17	24 21	24 21	24 21	24 21	10 16	21 20	22 19	
1935	-	-	-	-	-					-	105.1	53.0	(158.1)
1936	80.1	159.3	174.3	90.0	134.0						220.6	112.7	971.0
1937	174.1	188.9	52.4	145.9	13.2						86.0	30.3	690.8
1938	172.7	104.3	87.2		-					-	-	-	(364.2)
1939	78.7	172.4	224.6	110.5	10.0					8.5	135.6	256.4	996.7
1940	317.4	197.0	120.0	104.3	20.4					67.2	72.2	211.3	1109.8
1941	198.0	194.3	154.7	87.0	-					24.2	40.0	341.3	1039.5
1942	191.9	56.7	161.2	11.8	-					61.0	231.3	81.2	795.1
1943	204.5	152.5	294.8	225.0	53.0					29.1	5.9	145.9	1110.7
1944	232.8	40.8	135.8	142.7	30.2					11.9	196.7	53.9	844.8
1945	242.6	67.6	77.2	52.8	16.8					-	161.8	126.2	745.0
1946	78.2	198.7	290.6	136.8	111.2					-	51.9	-	867.4
1947	NO RECORD												
1948	27.2	139.5	102.7	252.6	61.4					-	26.4	103.6	713.4
1949	109.1	282.6	218.3	148.9	29.8							123.2	911.9
1950	260.7	212.0	231.4	24.8	152.5					22.6		97.8	1001.8
1951	136.7	163.3	70.3	70.9	34.7					63.5	68.5	151.7	759.6
1952	461.0	491.0	111.5	106.0	33.1						125.0	121.0	1448.6
1953	159.0	239.0	203.5	81.0							226.5	135.0	1044.0
1954	141.0	273.0	339.0	196.0	30.0					5.0	45.0	92.0	1121.0
1955	15.0	118.0	160.0	150.0	69.0				10.0		215.0	121.5	848.5
1956	140.0	223.0	150.0	14.8	60.0						80.0	175.0	842.8
TOTAL	3420.7	3673.9	3359.5	2151.8	859.3				10.0	293.0	2093.5	2533.0	18394.7
MEANS	171.0	183.7	168.0	107.6	50.5				0.5	20.9	104.7	133.3	940.2
1957											79.5	85.0	
1958	205.5	57.5	102.3	46.5							33.5	158.0	
1959	54.0	96.0	137.0	113.5	14.9					0.0	31.7	40.0	

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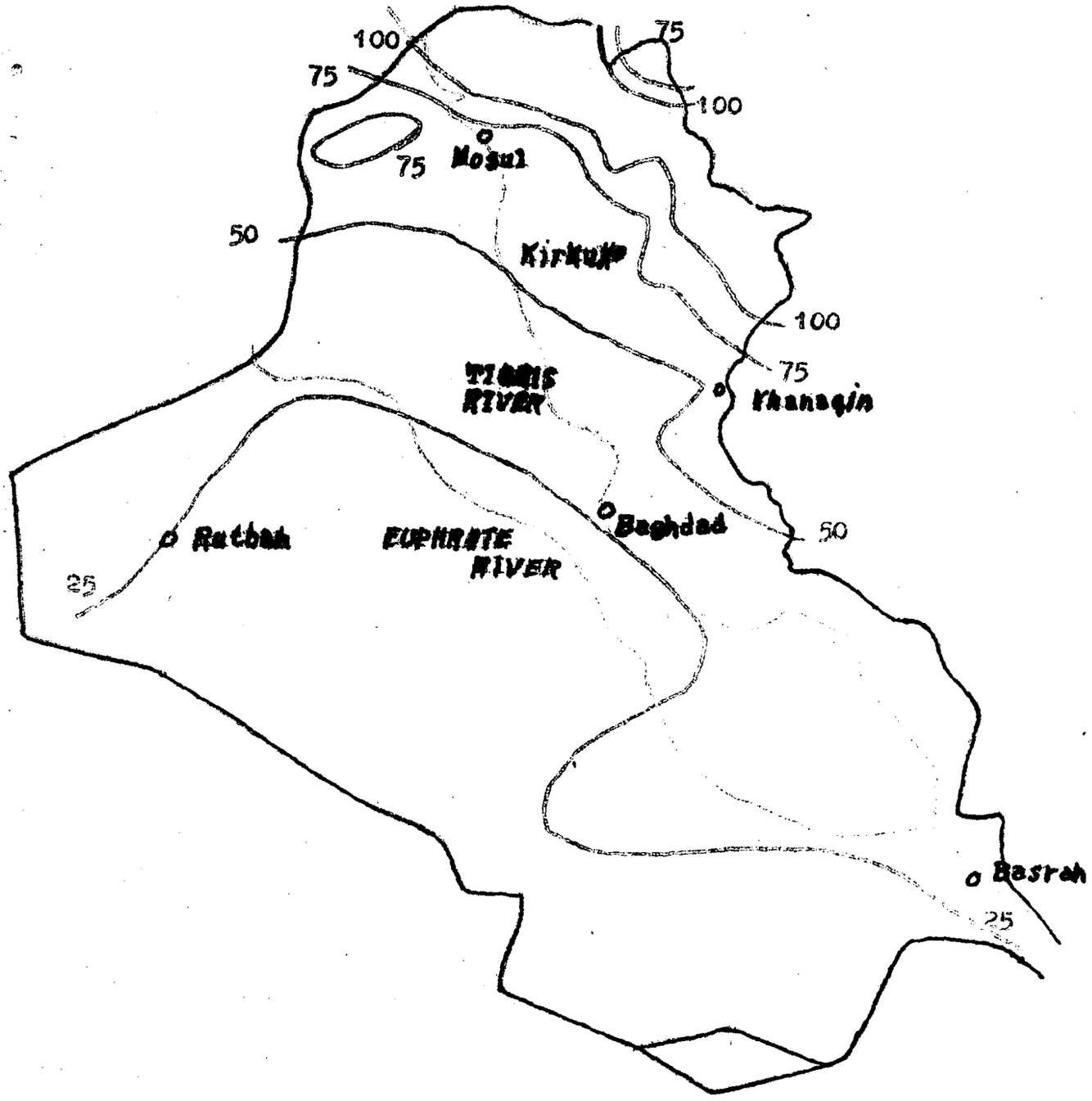
P R E C I P I T A T I O N

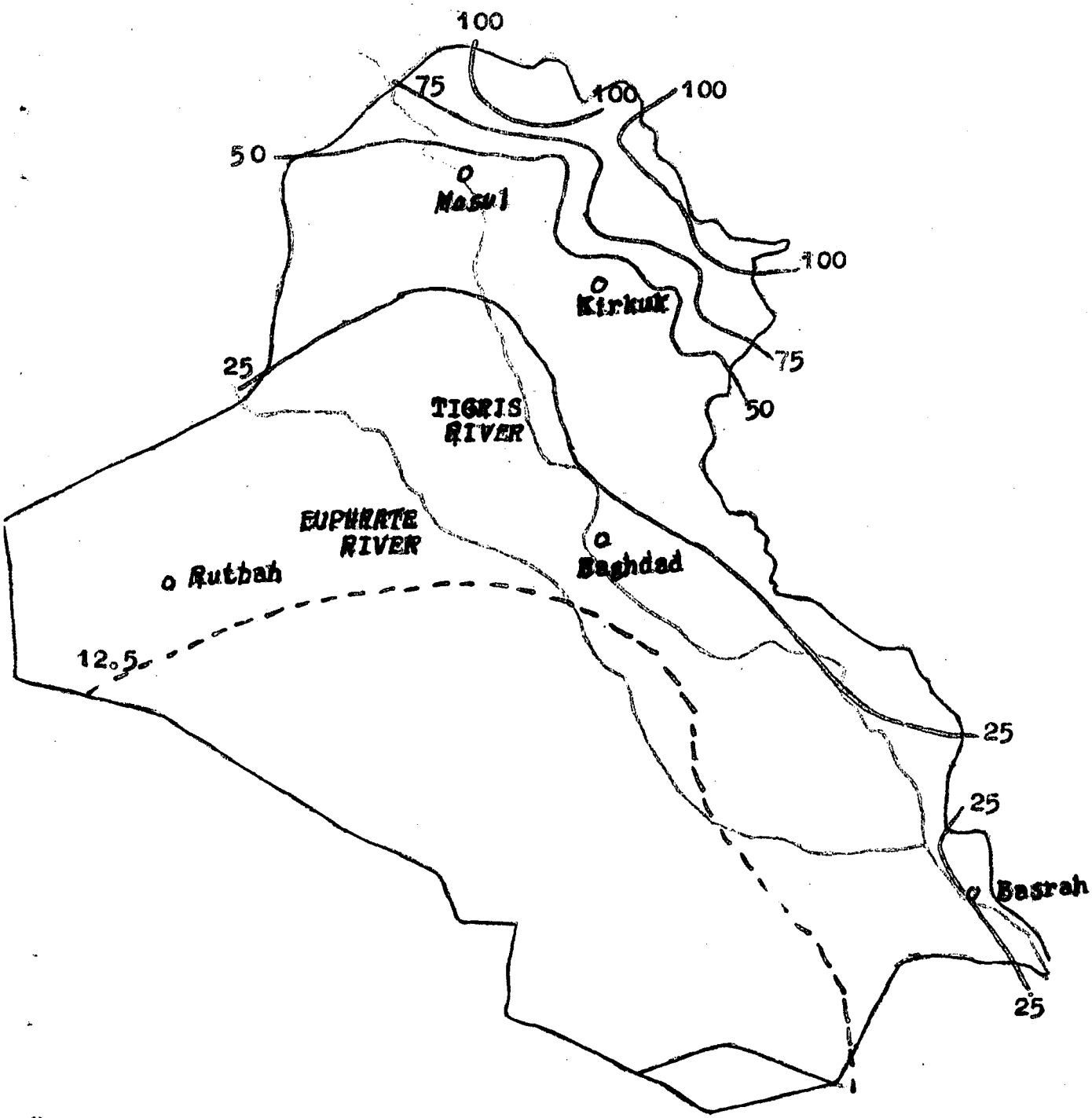
Mean Monthly Amount of Precipitation

MONTH: DECEMBER



P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

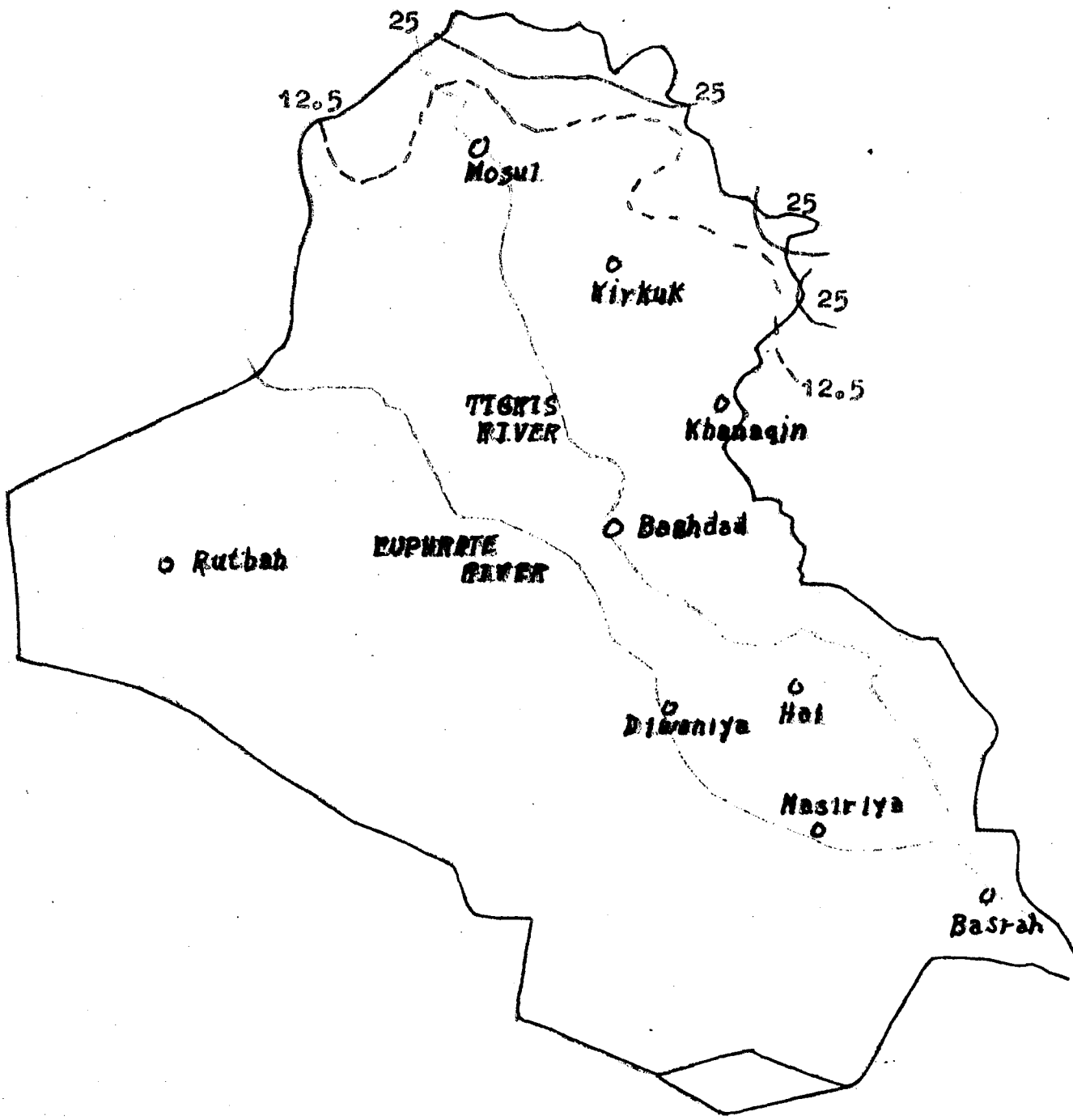
Month: Novemb



P R E C I P I T A T I O N

Mean Monthly Amount of Precipitation

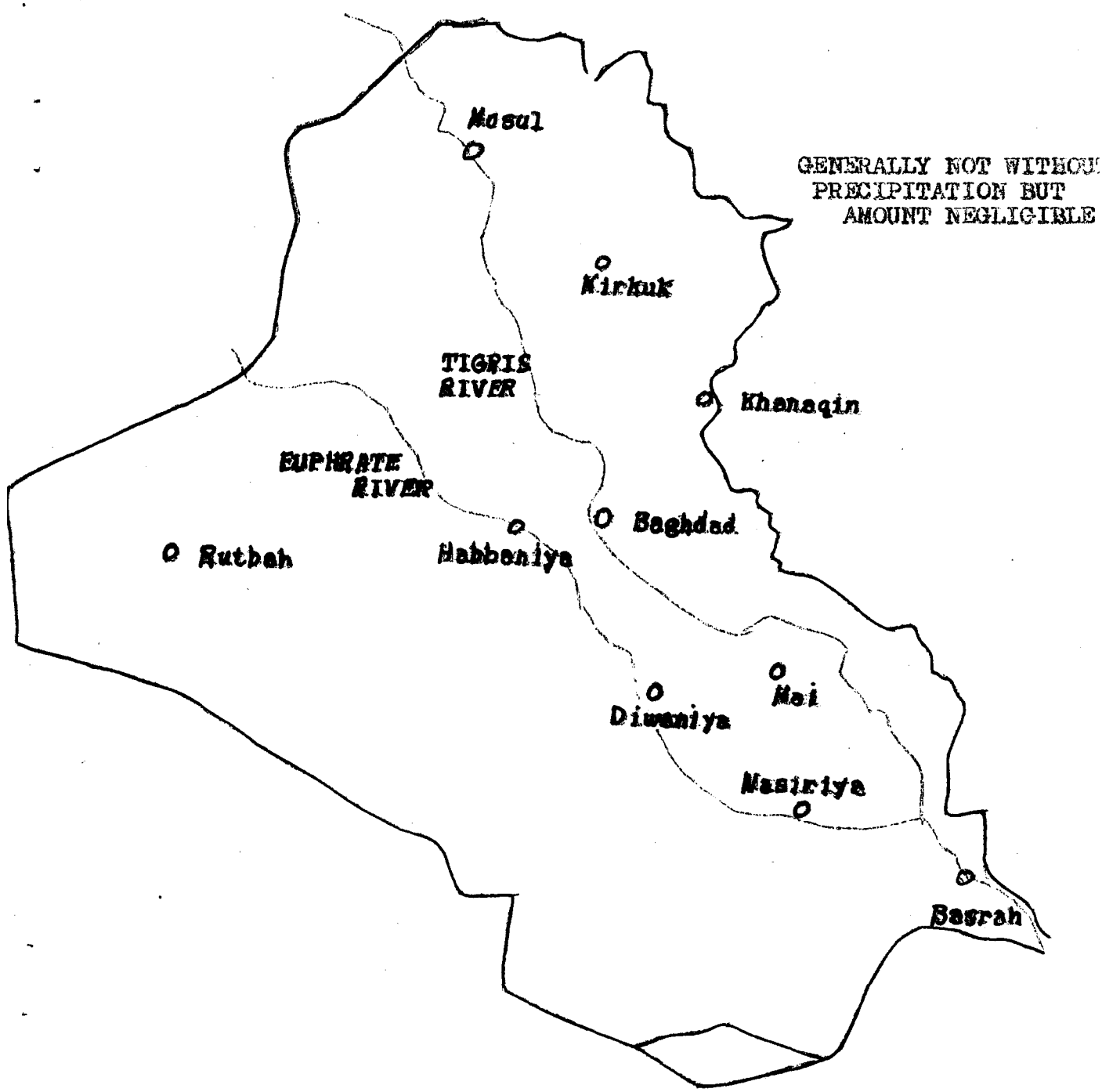
Month: OCTOBER



P R E C I P I T A T I O N

Mean Monthly Amount of Precipitation

Months:
JUNE
JULY
AUGUST
SEPTEMBER



P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

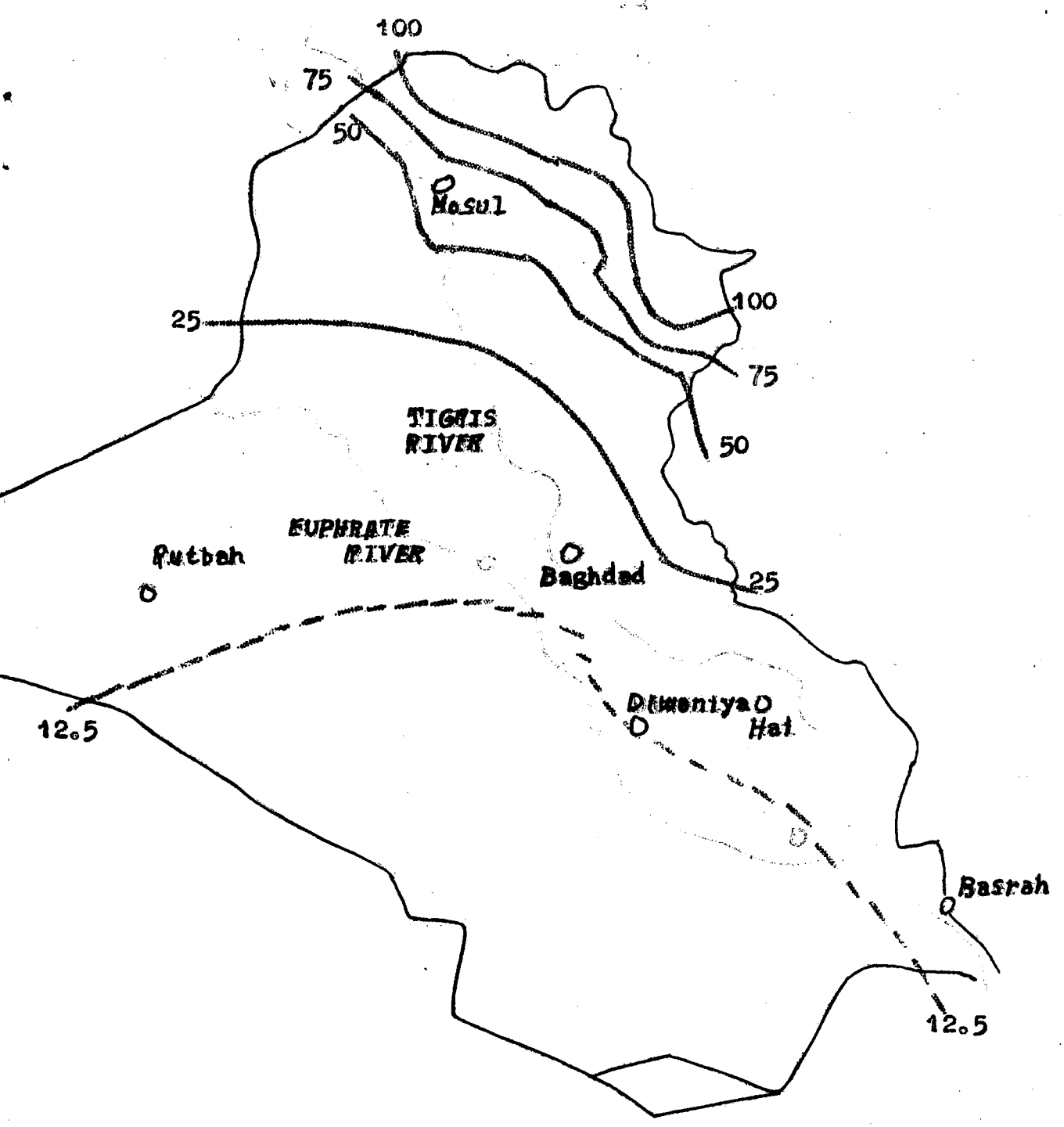
Month: MAY

(VIII)

P R E C I P I T A T I O B

Mean Monthly Amount of Precipitation

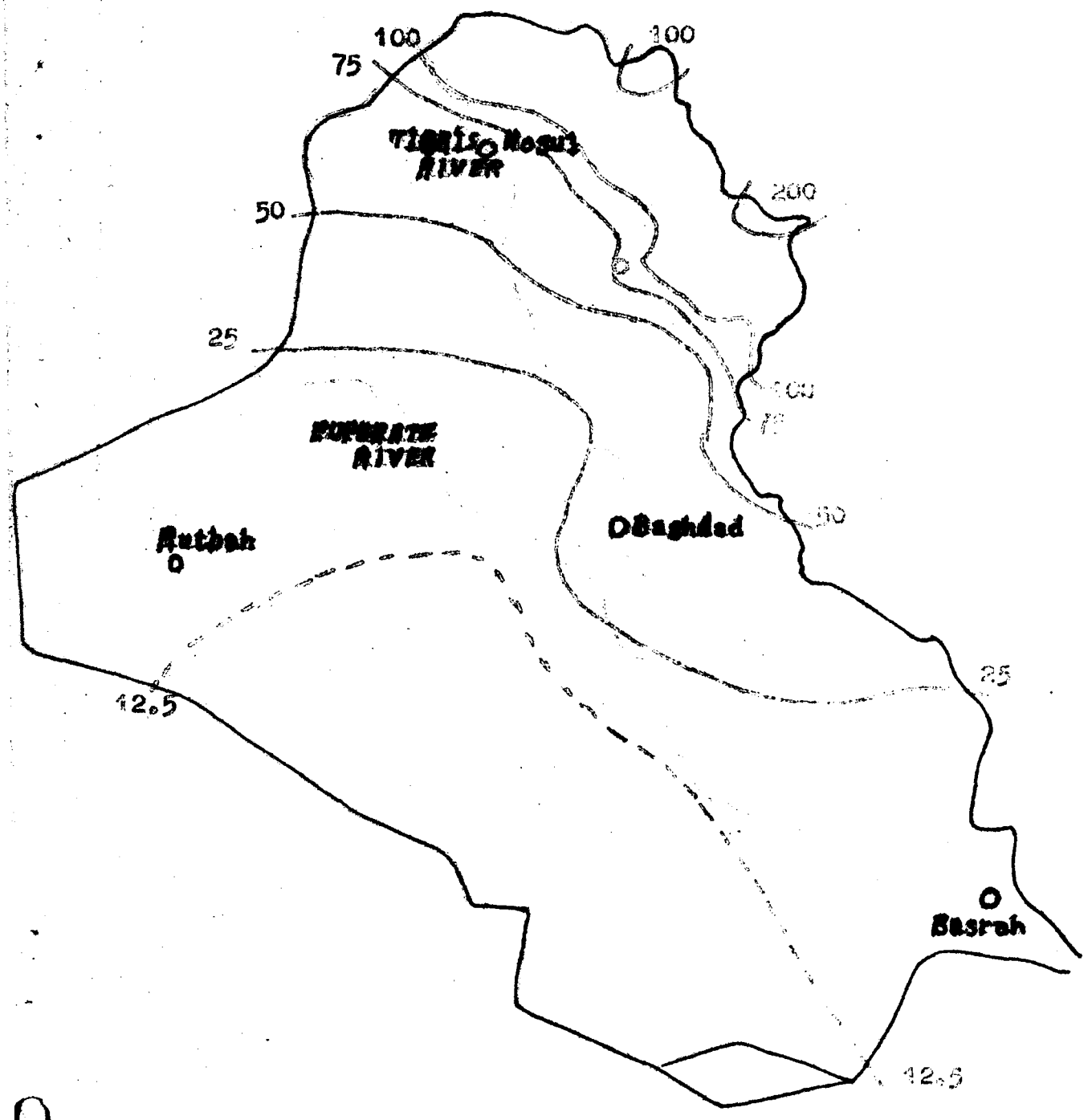
Month: APRIL



(VII)

P R E C I P I T A T I O N
Mean Monthly Amount of Precipitation

Month: MARCH

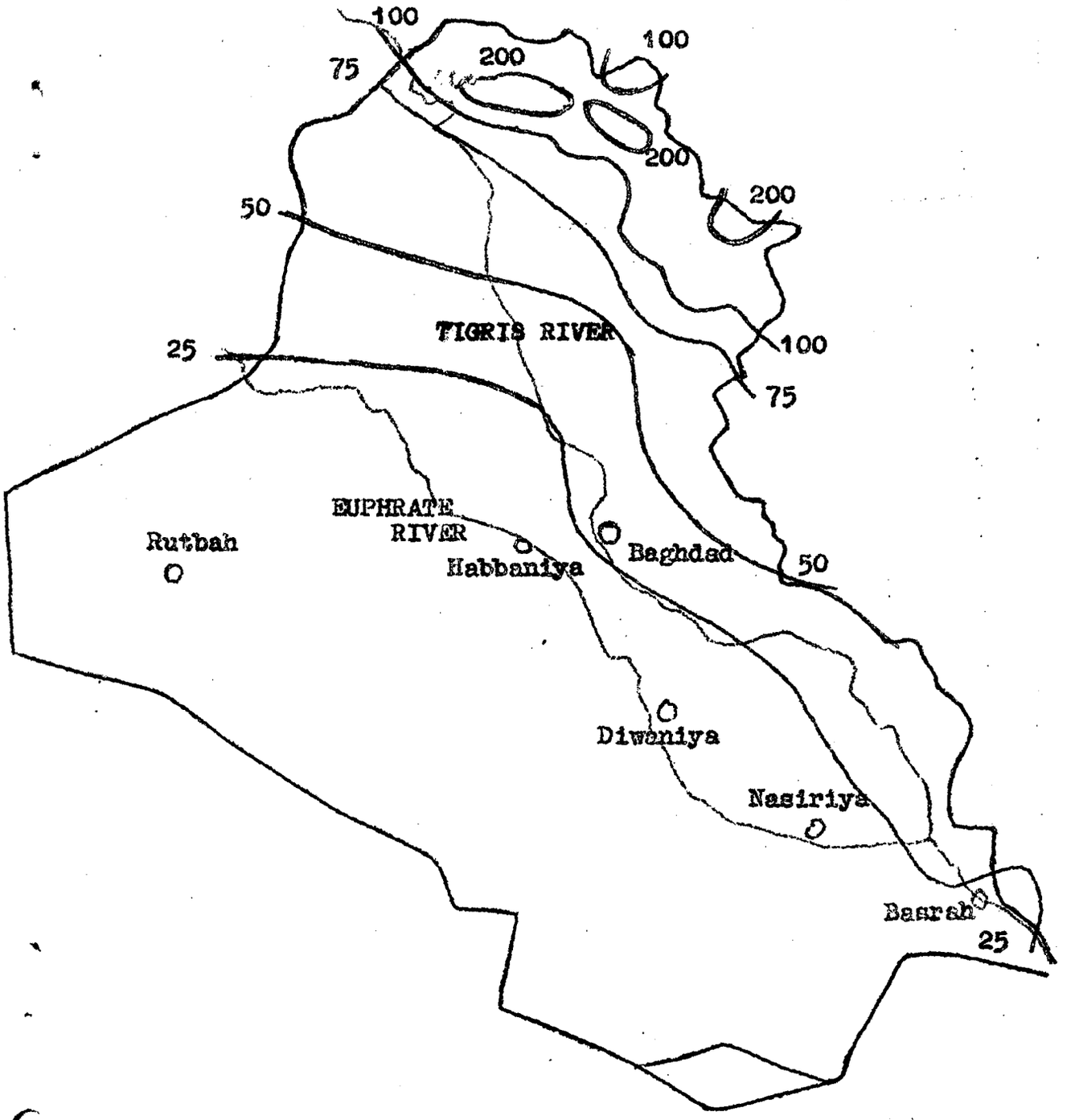


(VI)

P R E C I P I T A T I O N

Mean Monthly Amount of Precipitation

Month:
FEBRUARY

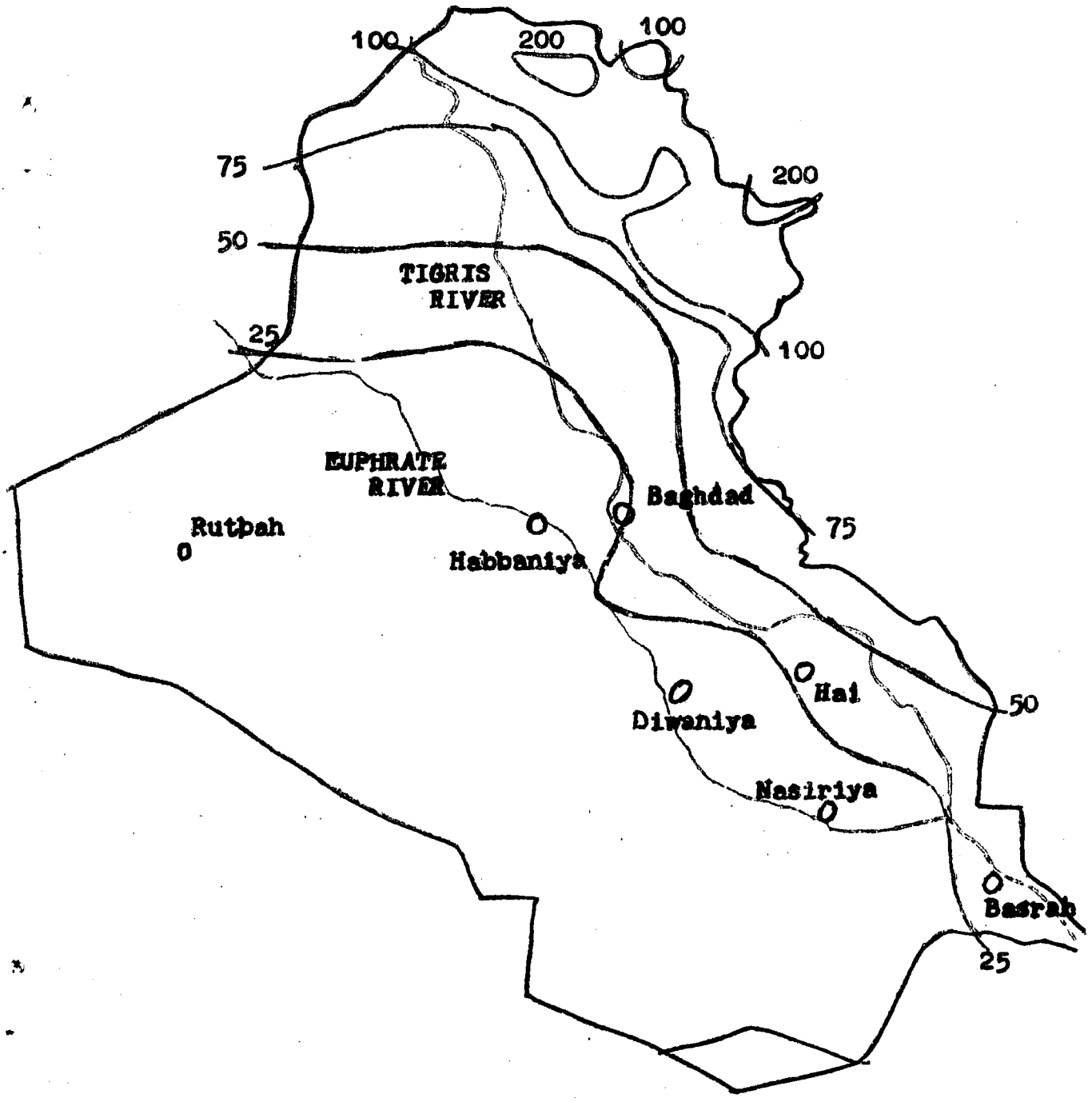


(V)

P R E C I P I T A T I O N

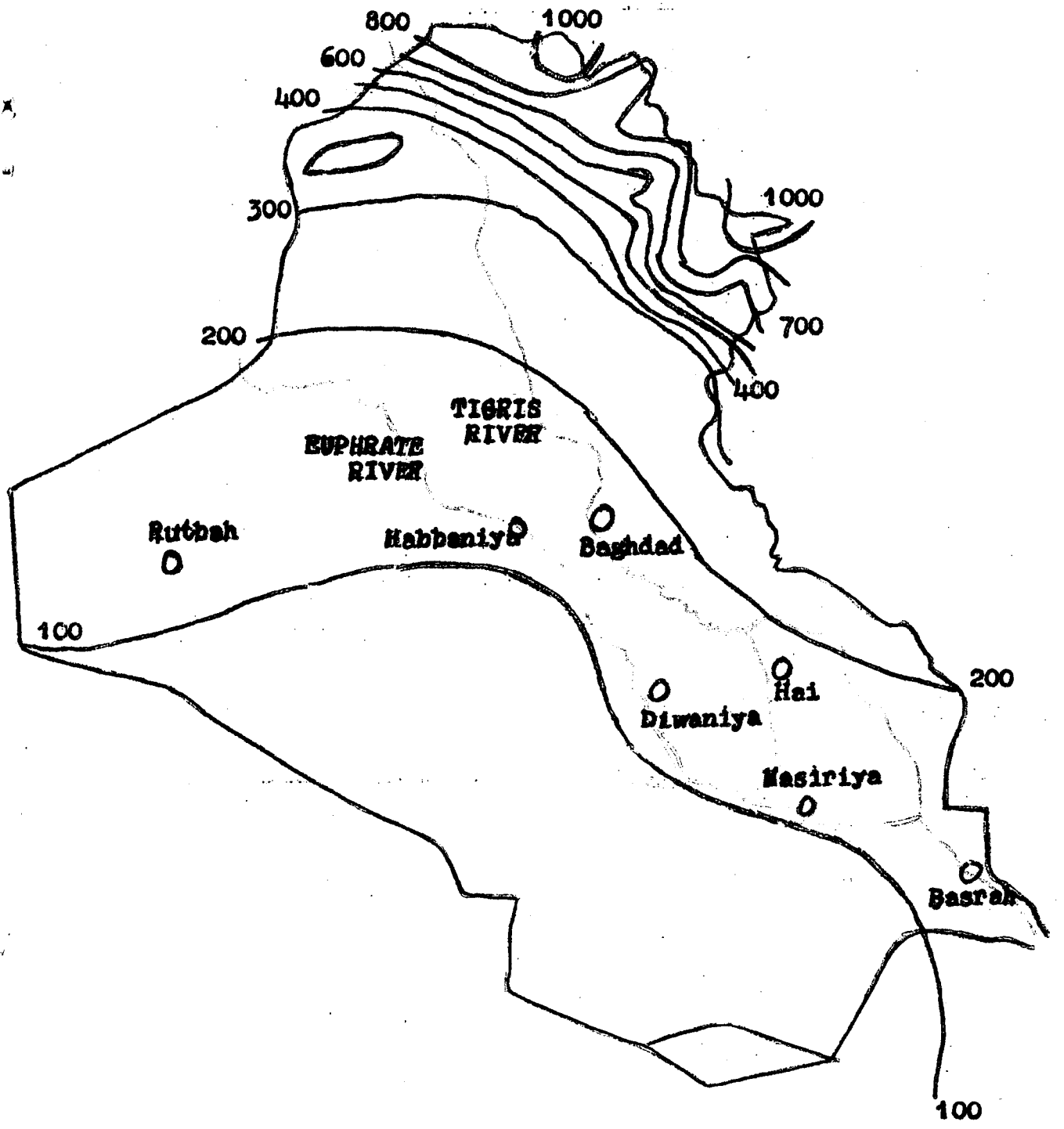
Mean Monthly Amount of Precipitation

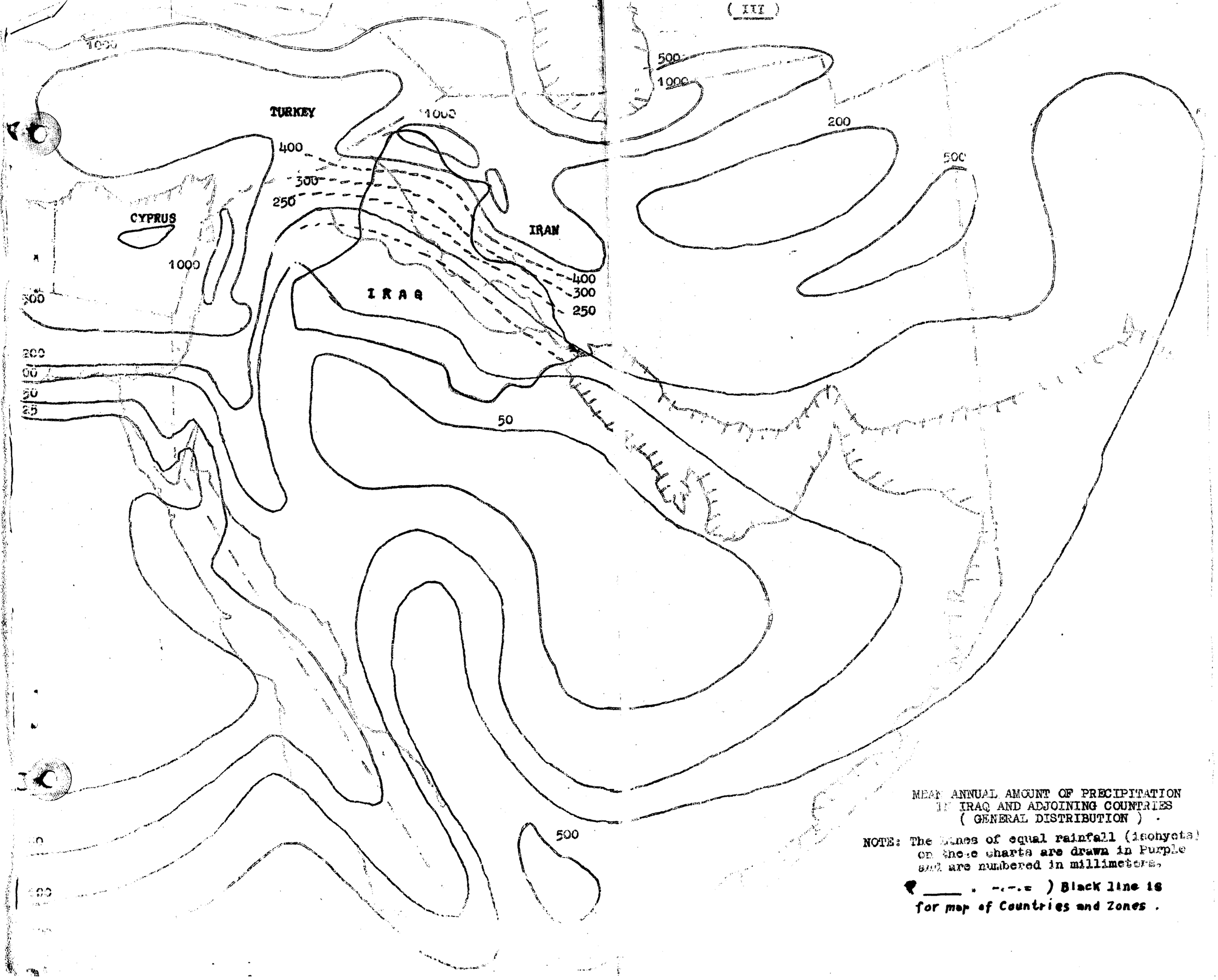
Month: JANUARY



P R E C I P I T A T I O N

Mean Annual Amount of Precipitation





MEAN ANNUAL AMOUNT OF PRECIPITATION
IN IRAQ AND ADJOINING COUNTRIES
(GENERAL DISTRIBUTION) .

NOTE: The lines of equal rainfall (isohyets) on these charts are drawn in Purple and are numbered in millimeters.

(_____ . -.-.-) Black line is for map of Countries and Zones .