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مفتشية الانواء الجوية العامة

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الشهر : كانون الثاني
السنـة : ١٩٦٩

REPUBLIC OF IRAQ

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

BAGHDAD

QC
991
.I72
M6
1969

Monthly Climatological Data

Volume : 32
No. : 1.
Month : January.
Year : 1969.

153 171

National Oceanic and Atmospheric Administration

Climate Database Modernization Program

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GEOGRAPHICAL DATA

METEOROLOGICAL STATIONS

STATIONS	LATITUDE N.		LONGITUDE E.		HEIGHT ABOVE MEAN SEA LEVEL	
SINJAR	36	19 N.	41	50 E.	538	Meters
MOSUL	36	19	43	09	222.6	
SALAHADDIN	36	37	44	13	1088	
KIRKUK	35	28	44	24	330.8	
ANA	34	28	41	27	150	
RUTBAH	33	02	40	17	615.5	
HABBANIYA	33	22	43	34	43.6	
BAGHDAD	33	20	44	24	34.1	
NUKHAIB	32	02	42	15	305	
HAI	32	10	46	03	14.9	
NAJAF	31	59	44	19	32	
DIWANIYA	31	59	44	59	20.4	
NASIRIYA	31	01	46	14	3	
BASRAH	30	34	47	47	2.4	
			RAINFALL STATIONS			
SANAT	37	20 N.	42	47 E.	—	
ZAKHO	37	08	42	41	442	Meters
TALAFAR	36	22	42	28	273	
SERSANK	36	58	43	32	1046	
ARBIL	36	11	44	00	414	
SHAQLAWA	36	23	44	20	—	
RAWANDUZ	36	37	44	33	1006	
RAYAT	36	41	44	57	1610	
DOKAN	35	57	45	00	670	
QALATDIZA	36	15	45	00	—	
BINKIRD	36	03	45	03	708	
DIBIS	35	41	44	05	239	
HAWIJA	35	31	44	18	305	
IFTIKHAR	35	03	44	27	204	
CHAMCAHMAL	35	32	41	51	701	
BAKRAJO	35	34	45	23	750	
SULAIMANIYA	35	33	45	27	853	
CHUARTA	35	44	45	33	1356	
PENJWIN	35	37	45	58	1311	
HALABJA	35	11	45	59	724	
HADITHA	34	04	42	22	140	
BAIJI	34	56	43	29	115	
SAMIRAA	34	11	43	50	65	
TUZKHORMATO	34	53	44	39	220	
AL-MANSOOR	34	05	45	01	68	
JALAWLAA	34	16	45	09	119	
HIT	33	38	42	50	58	
MANDALI	33	45	45	33	137	
BADRA	33	10	45	55	—	
KARBALAA	32	37	44	01	29	
HINDIYA	32	42	44	17	34	
KUT	32	30	45	45	19	
ALI-ALGHARBI	32	28	46	41	13	
SAMAWA	31	18	45	16	6	
DUKOK	36	52	43	02	860	

GEOGRAPHICAL DATA

RAINFALL STATIONS (CONTINUED)

STATION	TATITUDE	N.	LONGITUDE	E.	HEIGHT ABOVE MEAN SEA LEVEL (Metersr)
QALAT-SUKAR	31	52	46	05	13
BADAA	31	26	46	11	9
AMARA	31	51	47	10	9
SHABICHA	30	42	43	41	—
SALMAN	30	28	44	43	102
UR	30	58	46	08	4
BUSSAYA	30	02	46	09	144
GHABI HIYA	30	44	47	05	4
FAO	29	59	48	30	2
AMADIYA	37	05 N.	43	30 E.	1236
AQRA	36	45	43	53	716
TEL-AWAINAT	36	41	42	24	346
QAYARA	35	48	43	17	180
HILLA	32	29	44	26	27
MAQIL	30	34	47	47	4
RAMQDI	33	25	43	17	49
QALALA	36	37	44	49	1050
BILI (ZIBAR)	36	52	44	04	400
DIANA	36	39	44	33	700
TAQ-TAQ	35	53	44	35	300
QADIR-KARAM	35	11	44	53	380
KANDAL YAR M	35	45	43	39	340
KOUFRI	34	42	44	58	210
AIN SIFNI	36	41	43	21	520
KOISINJANQ	36	05	44	48	610
FATHA	35	03	43	34	150
MAKHMUR	35	46	43	35	—
AL-RUMAIL	34	59	43	59	—
BERZINJA	35	23	45	41	—
DARBANDIKHAN	35	09	45	47	—
T1	34	14	41	20	—
K2	34	55	43	24	—
SIDIKAN	36	46	44	38	—
KARA DAGH	35	19	45	24	—
IFRAZ	36	23	43	48	229

NOTES ON TABLES

AIR PRESSURE :— Is expressed in Millibars, the initial 9 or 10 is being omitted. One millibar equals 1000 dynes per sq. cm. All mean pressures are redused to Mean Sea Level (M. S. L.).

TEMPERATURES :— (in Centigrades), the measurements of temperature are made in Stevenson (Louvered) Screens in the open. The height of the thermometer bulbs is approximately 1.3 meter above the ground level.

RAINFALL :— (in Millimeters), the daily amount is for 24 hours from 0600 GMT. on the day of entry to 0600 GMT. on the next day. A day is reckoned as a day of rain if the total rainfall is 0.2 mm. or more.

WEATHER :— Days of Fog or Dust Storm are thus on which the range of vision is less than 1000 meters at any time of the day.

CLEAR DAYS :— Are those on which the average cloud amount at all cbservation hours is 0 or 1 Okta. (1 Okta — 1/8 of sky considered — 8/8)

CLOUDY DAYS :— Are those on which the average of cloud amount is 7 or 8 Oktas.

TIMES ARE :— G. M. T. — Local Time Minus 3 Hours.

C O N T E N T S

TABLE — — Geegraphical Data

TABLE — 1 — Daily Maximum & Minimum temperatures with extremes.

TABLES — 2, 3, , 5, 6, 7, 8 and 9 Monthly mean dry-bulb temperatures, wet bulb temperatures, dew point, vapour pressure, relative humidity, pressure at M. S. L. , low cloud amount & total cloud amount respectively.

TABLE — 10 — Surface wind, number of observations of.

TABLE — 11 — Highest wind-speed during one hour.

TABLE — 12 — Daily precipitation.

TABLE — 13 — Daily grass minimum and soil temperatures.

TABLE — 1 — Daily evaperation.

TABLE — 15 — Number of days for the cases of phenomena & sunshine duration.

TABLE — 16 — Extremes of pressure at MSL and relative humidity.

TABLE — 17 — Upper air climatolegical data.

TABLE — 18 — Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air.

MONTH : January 1969 TABLE 1 a

الشهر : كانون الثاني

DAILY MAXIMUM AND MINIMUM TEMPERATURES (CENTIGRADES)

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

الايام	سنجار Sinjar		موصل Mosul		صلاح الدين Salahaddin		كركوك Kirkuk		عنة Anah		رطبة Rutbah		حبانية Habaniya		بغداد Baghdad		نخيب Nukhaib		حي Hai		نجف Najaf	
Days	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	13.8	6.3	18.8	3.5	13.7	6.4	20.1	8.6	11.6	4.3	13.5	2.2	10.0	6.5	9.7	6.6	14.1	3.3	10.6	7.3	11.4	7.0
2	7.5	3.3	11.5	4.8	13.0	6.1	8.2	4.7	9.2	4.6	15.5	1.2	10.5	7.6	9.4	7.1	8.8	4.1	14.0	7.7	9.8	7.5
3	6.0	2.1	12.6	6.8	10.6	4.4	13.9	5.6	8.6	6.4	8.7	1.3	11.4	8.0	12.8	7.4	9.1	4.3	13.4	4.8	11.4	7.1
4	9.3	3.0	12.6	1.5	9.0	4.4	16.3	5.9	12.4	6.3	8.6	3.4	16.6	7.0	17.7	7.0	16.2	3.8	20.6	7.4	18.5	7.2
5	7.7	4.1	11.2	8.4	7.1	4.0	13.5	7.7	13.6	7.5	11.0	6.0	14.5	11.5	15.2	10.4	16.0	7.1	15.2	11.2	15.3	13.0
6	7.5	4.1	7.2	4.3	2.7	-2.4	7.4	4.5	10.6	7.3	12.0	4.0	12.0	11.0	12.7	10.8	11.6	9.7	16.7	11.6	16.0	10.3
7	8.2	3.9	10.0	1.5	1.0	-4.0	7.4	2.4	10.4	6.7	9.0	5.3	11.0	5.9	12.8	3.0	13.1	2.3	15.4	5.2	16.3	5.8
8	7.3	2.2	13.3	2.8	5.4	-1.6	14.3	3.4	11.0	6.4	14.0	2.6	14.5	5.0	15.3	4.5	14.2	4.1	18.1	5.1	17.2	5.3
9	9.6	2.3	12.6	2.8	7.5	0.9	15.0	4.3	13.0	3.0	10.5	2.4	12.6	5.1	15.3	3.4	13.5	4.6	18.6	5.4	15.6	5.0
10	10.7	3.1	12.2	1.6	8.0	0.4	13.4	3.4	13.0	3.8	14.0	4.5	14.2	7.5	14.9	5.5	14.2	4.8	18.2	8.0	16.2	7.0
11	11.6	3.9	14.3	1.0	8.0	1.0	14.4	1.8	14.0	1.0	12.7	1.8	14.3	5.6	15.0	3.6	14.0	1.7	18.0	5.7	16.0	4.5
12	8.6	2.1	12.5	1.2	8.1	1.4	13.8	3.6	14.4	2.5	14.4	3.2	15.7	4.4	16.8	1.5	16.0	2.3	19.3	4.4	17.7	5.2
13	5.3	2.3	9.0	5.5	4.4	1.0	11.4	7.6	12.0	5.6	13.1	6.2	14.5	8.8	14.2	6.0	19.0	5.1	14.0	6.1	15.4	6.4
14	8.1	1.2	11.6	3.8	4.0	-1.0	11.3	6.5	14.8	6.1	11.8	5.4	16.4	9.0	17.5	9.3	15.5	5.6	17.7	10.0	17.7	5.2
15	8.3	3.3	14.4	5.7	6.4	0.0	13.3	4.5	14.8	3.0	14.8	5.3	17.0	10.3	20.0	10.0	18.0	7.6	21.0	10.7	19.5	10.0
16	11.1	2.8	13.3	4.1	7.0	1.0	15.7	6.0	16.8	5.1	15.5	2.5	17.0	7.5	18.1	5.5	16.6	5.2	22.4	10.6	19.7	7.6
17	7.6	3.0	14.8	3.3	8.4	1.0	15.0	4.1	15.6	3.7	14.8	5.9	18.0	5.6	18.2	7.0	15.6	5.4	21.3	7.6	18.2	7.5
18	8.4	1.4	12.8	5.5	10.1	2.0	17.6	5.5	16.4	7.6	15.0	4.8	19.3	10.0	20.8	9.7	17.4	8.3	22.4	9.2	19.0	10.5
19	6.6	2.3	10.5	5.6	7.2	1.0	13.5	5.2	15.4	10.0	14.8	8.0	18.4	12.0	17.3	11.6	18.3	7.9	18.1	12.1	22.2	9.5
20	9.9	2.6	13.6	7.4	10.2	2.0	17.6	8.5	15.2	4.0	16.1	2.6	17.5	9.2	19.6	12.0	16.6	6.7	21.3	14.2	20.3	9.7
21	9.1	4.1	13.0	6.2	8.9	2.2	15.8	5.9	13.4	8.4	14.0	4.8	16.6	9.5	17.7	7.0	18.6	7.2	20.0	9.0	9.7	8.7
22	9.6	4.3	12.2	8.4	9.9	4.7	15.6	10.5	13.4	9.1	12.8	2.0	18.3	13.4	21.7	13.8	17.1	8.2	24.7	13.8	22.0	10.7
23	7.1	2.9	12.3	7.3	5.2	2.8	11.4	7.3	13.6	8.0	12.0	4.4	18.4	10.5	17.0	10.5	16.0	7.6	18.2	12.2	18.4	10.2
24	9.0	3.3	10.8	7.2	5.8	2.2	13.1	9.3	12.5	6.4	12.0	5.6	14.0	8.7	13.0	9.4	13.3	6.6	14.8	7.2	11.0	8.3
25	10.0	2.2	14.8	5.4	4.7	1.8	11.3	6.2	13.6	6.2	13.0	4.6	15.2	8.4	15.7	6.5	14.6	4.3	17.4	7.0	16.5	7.2
26	7.0	1.8	10.2	4.8	3.4	0.6	9.3	6.0	16.2	6.8	15.0	4.8	18.0	8.5	17.4	5.6	16.8	7.2	18.6	4.3	18.4	6.0
27	7.7	1.1	12.2	6.2	5.7	0.0	12.0	6.7	13.8	5.5	14.5	5.1	17.5	9.0	18.9	7.6	17.3	4.1	19.4	7.4	18.9	7.0
28	9.5	1.7	13.4	7.2	3.7	1.7	11.2	6.5	13.4	5.6	12.6	5.0	17.0	10.5	16.6	10.0	16.8	4.3	19.0	10.7	19.3	9.5
29	4.8	0.1	8.2	6.0	0.8	-0.8	8.5	5.5	10.0	4.0	9.0	2.6	13.0	7.5	13.8	7.5	15.0	4.3	15.6	7.3	12.4	6.6.
30	6.8	-1.1	12.4	3.2	4.1	-5.4	9.5	3.0	10.8	3.6	9.2	0.4	11.4	3.6	10.4	4.0	16.0	4.1	13.6	4.4	11.8	3.4
31	6.6	0.2	12.0	1.8	2.2	-3.4	11.2	1.3	12.8	-0.6	13.5	-1.5	13.8	1.5	12.8	-0.4	13.5	3.0	15.4	1.9	14.5	1.4
Means	8.4	2.6	12.3	4.7	6.7	1.1	13.0	5.5	13.1	5.4	12.8	3.9	15.1	8.0	15.8	7.2	15.3	5.3	17.8	8.0	16.7	7.4
Normal	—	—	12.5	2.0	—	—	13.4	4.3	—	—	13.2	1.2	15.0	4.3	15.9	4.2	—	—	17.4	5.2	—	—

MONTH : January 1969 TABLE 1 b

الشهر : كانون الثاني ١٩٦٩

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C) WITH RECORDS OF EXTREMS

درجات الحرارة العظمى والصغرى اليومية مع تسجيلات نهاياتها

Days	ديوانية Diwaniya		ناصرية Nasiriya		بصرة Basrah			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	11.4	8.4	15.4	5.9	18.9	5.0		
2	10.8	6.7	13.0	4.7	19.9	4.8		
3	12.7	8.5	16.3	5.8	20.0	6.9		
4	19.4	8.8	17.6	7.8	19.7	7.7		
5	15.6	12.0	15.6	11.6	21.3	11.6		
6	15.4	9.5	15.0	11.3	22.7	13.8		
7	15.1	4.0	15.2	7.9	17.6	8.6		
8	17.6	3.4	15.3	6.3	18.6	5.2		
9	16.0	4.5	15.0	6.3	18.4	4.9		
10	16.2	8.0	15.6	8.5	17.6	9.1		
11	16.5	6.0	15.5	7.4	18.0	7.8		
12	17.8	5.5	15.1	5.4	18.7	4.3		
13	14.9	6.7	15.3	6.7	19.7	6.2		
14	18.5	7.5	16.2	10.1	24.9	12.4		
15	21.0	6.8	18.1	9.4	23.1	10.2		
16	19.6	10.0	19.5	10.6	21.7	12.8		
17	19.2	9.0	19.5	9.7	22.7	9.3		
18	20.6	9.0	19.4	11.9	23.8	10.0		
19	22.0	14.0	22.3	13.4	20.4	15.1		
20	18.6	13.0	21.0	15.6	23.6	14.2		
21	19.5	8.2	19.0	10.8	23.0	12.0		
22	22.5	11.0	24.1	12.4	24.6	17.3		
23	17.2	11.0	17.3	13.9	21.2	17.0		
24	12.3	8.5	13.5	10.4	16.6	10.7		
25	16.2	7.5	15.6	8.7	17.4	7.2		
26	18.0	4.5	16.4	5.2	19.0	6.4		
27	19.7	6.0	17.6	8.9	20.5	6.9		
28	17.0	11.0	18.6	12.3	22.2	11.1		
29	13.2	6.4	15.1	7.8	19.6	9.2		
30	11.7	4.5	12.2	5.6	14.2	9.4		
31	13.2	2.3	13.0	4'5	15.2	5.8		
Means	16.8	7.8	16.7	8.9	20.2	9.4		
Normal	17.0	3.5	18.0	5.6	18.3	7.1		

المحطة Station	اعلى عظمى Highest Max.	Day	Year	اوطىء عظمى Lowest Max.	Day	Year	اعلى صغرى Highest Min.	Day	Year	اوطىء صغرى Lowest Min.	Day	Year
Sinjar	20.2	7 th	1966	-2.0	24 th	1968	10.6	14 th	1967	-8.2	19 th	1964
Mosul	22.5	7 th	1966	-2.2	5 th	1942	12.4	26 th	1966	-11.1	3 rd	1925
Salahaddin	13.7	1 st	1969	-5.2	16 th	1968	6.4	1 st	1969	-10.2	17 th	1968
Kirkuk	24.6	7 th	1966	-1.1	4 th	1942	14.0	26 th	1966	-6.7	26.th	1947
Anah	17.5	8 th	1968	-3.7	17 th	1968	10.0	19 th	1969	-0.6	31 st	1969
Rutbah	24.5	19 th	1960	-0.0	4 th	1942	10.9	16 th	1960	-14.4	6 th	1942
Habbaniya	26.1	28 th	1941	-3.3	5 th	1942	13.4	22 nd	1969	-8.9	7 th	1942
Baghdad	25.0	21 st	1948	-2.4	19 th	1964	14.3	26 th	1963	-8.5	20 th	1964
Nukhaib	26.0	22 nd	1963	-2.5	19 th	1964	13.0	25 th	1966	-8.0	22 nd	1964
Hai	27.8	7 th	1966	-2.1	19 th	1964	15.0	5 th	1944	-8.2	20 th	1964
Najaf	24.8	16 th	1967	-3.4	19 th	1964	13.0	5 th	1969	-7.2	20 th	1964
Diwaniya	26.8	7 th	1966	-3.0	19 th	1964	16.0	24 th	1963	-8.3	29 th	1950
Nasiriya	29.3	16 th	1960	-2.3	19 th	1964	17.2	19 th	1942	-7.2	8 th	1942
Basrah	30.1	7 th	1966	-4.0	19 th	1964	17.3	22 nd	1969	-4.7	22 nd	1964

MONTH : January 1969 MONTHLY MEANS (TIME : GMT)

الشهر : كانون الثاني ١٩٦٩ المعدلات الشهرية (وقت : كرينتش)

درجة حرارة البصلة الجافة (سنتغراد)

TABLES : 2/3 DRY-BULB TEMPERATURES (°C)

درجة حرارة البصلة الرطبة (سنتغراد)

WET-BULB TEMPERATURES (°C)

Station/Time	0000	0300	0600	0900	1200	1500	1800	2100	Means	0000	0300	0600	0900	1200	1500	1800	2100	Means
SINJAR	—	4.6	6.0	7.6	7.9	7.3	6.3	—	6.6	—	3.4	4.4	5.5	5.8	5.5	4.8	—	4.9
MOSUL	6.4	5.8	6.7	9.7	11.5	9.4	8.0	6.8	8.0	5.8	5.2	5.9	8.1	9.2	8.1	6.9	6.1	6.9
Salahaddin	—	2.1	3.2	5.6	5.6	4.0	3.0	—	3.9	—	1.1	1.8	3.7	4.0	2.9	2.0	—	2.6
KIRKUK	7.6	7.0	8.0	11.3	12.0	9.9	8.6	7.9	9.0	6.1	5.7	6.4	8.5	8.9	8.0	7.2	6.5	7.2
ANAH	—	5.9	7.0	10.6	12.7	10.8	9.2	—	9.4	—	5.4	6.3	8.2	10.1	9.2	8.1	7.3	7.9
RUTBAH	5.7	4.9	5.8	10.4	12.4	10.0	8.1	6.8	8.0	4.8	4.1	4.8	7.5	8.3	7.4	6.4	5.5	6.1
Habbaniya	9.1	8.6	9.8	13.2	14.5	12.6	10.7	9.9	11.1	8.0	7.9	8.4	10.5	11.0	10.4	9.2	8.4	9.2
Baghdad	9.1	8.4	9.6	13.5	15.2	13.0	10.9	9.7	11.2	8.0	7.5	8.3	10.5	11.2	10.2	9.1	8.5	9.2
Nukhaib	—	—	7.7	12.3	14.8	13.1	11.1	—	11.8	—	—	6.4	8.8	9.8	9.2	8.2	—	8.5
Hai	9.6	9.0	10.7	15.9	16.6	13.6	11.6	10.5	12.2	8.7	8.3	9.6	12.7	12.8	11.5	10.2	9.3	10.4
Najaf	9.0	7.9	9.7	13.9	16.4	13.9	11.6	10.2	11.6	8.0	7.1	8.4	10.9	11.6	10.7	9.3	8.7	9.3
Diwaniya	9.2	8.6	10.5	15.0	16.4	13.7	10.5	10.2	11.8	8.5	7.8	9.1	11.9	12.2	11.1	9.4	8.7	9.8
Nasiriya	11.1	10.1	11.5	14.8	16.4	15.1	13.4	12.0	13.1	9.8	9.0	10.0	12.2	12.6	12.6	11.2	10.3	10.9
Basrah	11.7	10.6	12.7	17.9	19.3	15.7	13.7	12.6	14.3	10.9	10.0	11.7	14.7	15.4	13.8	12.5	11.6	12.6

TABLES : 4/5 DEW-POINT (°C)

درجة الندى (سنتغراد)

Vapour-Pressure (Mbs.)

ضغط البخار (ملليبارات)

Station/Time	0000	0300	0600	0900	1200	1500	1800	2100	Means	0000	0300	0600	0900	1200	1500	1800	2100	Means
Sinjar	—	1.3	1.9	2.5	2.8	2.9	4.8	—	2.7	—	6.8	7.1	7.3	7.6	7.6	7.5	—	7.3
MOSUL	5.1	4.4	4.8	6.4	6.6	6.6	6.2	5.2	5.7	8.8	8.4	8.7	6.9	9.8	9.6	9.9	8.9	9.2
Salahddin	—	—0.9	—0.9	0.7	1.6	1.1	0.7	—	0.4	—	5.8	5.9	6.5	6.9	6.7	6.3	—	6.4
Kirkuk	4.3	3.9	4.2	5.3	5.2	5.8	5.4	4.6	4.8	8.5	8.2	8.4	9.1	9.0	9.4	9.1	8.6	8.8
Anah	—	4.7	5.3	6.8	7.4	7.4	6.9	—	6.4	—	8.6	8.9	9.9	10.4	10.4	10.0	—	9.7
Rutbah	3.4	2.9	3.4	3.8	3.8	4.0	4.2	3.8	3.6	7.9	7.6	7.9	8.2	7.7	8.2	8.3	8.1	8.0
Habbaniya	6.8	6.3	6.8	7.8	7.4	8.0	7.5	6.7	7.2	10.0	9.8	10.3	10.7	10.5	10.9	10.5	10.0	10.3
Baghdad	6,6	6.5	7.0	7.5	7.0	7.3	7.3	7.1	7.1	9.9	9.8	10.1	10.6	10.1	10.3	10.3	10.2	10.2
Nukhaib	—	—	4.7	4.4	3.6	4.4	4.5	—	4.3	—	—	8.6	8.4	8.1	8.5	8.6	—	8.4
Hai	7.9	7.6	8.5	10.3	9.9	9.8	8.9	8.3	8.9	10.8	10.6	10.6	12.7	12.7	12.3	11.6	11.1	11.7
Najaf	6.9	6.2	6.9	7.6	7.4	7.3	7.3	7.0	7.1	10.1	9.6	10.2	10.7	10.2	10.4	10.5	10.2	10.2
Diwaniya	6.9	7.8	7.7	8.9	8.4	8.4	7.6	7.2	7.9	9.9	10.0	10.6	11.5	11.2	11.1	10.5	10.3	10.6
Nasiriya	8.3	7.7	8.4	9.6	8.9	9.2	9.0	8.5	8.7	11.2	10.8	11.3	12.2	11.7	11.9	11.6	11.3	11.5
Basrah	10.0	9.3	10.7	12.0	12.2	12.1	11.4	10.6	11.0	12.7	12.0	13.1	14.4	14.5	14.4	13.7	13.2	13.5

MONTH : January 1969 MONTHLY MEANS (Time : GMT)

الشهر : كانون الثاني ١٩٦٩ المعدلات الشهرية (وقت : كرينتش)

TABLES : 6/7 RELATIVE-HUMIDITY (%) الرطوبة النسبية

PRESSURE AT M.S.L. (Mbs.) الضغط الجوي على سطح البحر (ملليبار)

Station	0000	0300	0600	0900	1200	1500	1800	2100	Means	0000	0300	0600	0900	1200	1500	1800	2100	Mean
Sinjar	—	84	76	72	72	74	77	—	76	—	17.8	17.6	17.2	16.4	16.2	16.6	—	1017.0
Mosul	91	91	88	80	72	82	88	90	85	17.9	17.8	18.6	18.1	16.6	17.0	17.8	18.1	17.7
Salahaddin	—	82	79	74	78	82	84	—	80	—	18.2	18.4	17.3	16.2	17.0	17.6	—	17.4
Kirkuk	83	83	79	70	66	78	82	83	78	17.5	17.2	17.8	17.3	16.1	17.1	17.5	17.6	17.3
Anah	—	93	89	78	71	80	86	—	83	—	17.1	17.9	17.2	15.9	16.2	17.1	—	16.9
Rutbah	85	87	85	66	54	67	77	82	75	15.6	15.7	16.6	16.0	14.5	15.4	16.1	15.7	15.7
Habbaniya	86	88	83	72	64	75	81	81	79	16.1	15.0	17.4	16.8	15.4	15.8	16.5	16.5	16.2
Baghdad	85	88	83	68	60	69	79	84	77	17.1	16.9	18.2	17.7	16.3	16.8	17.8	17.5	17.3
Nukhaib	—	—	81	60	49	58	66	—	63	—	—	17.0	16.1	14.5	14.8	15.2	—	15.5
Hai	89	92	87	71	66	79	84	87	82	16.0	16.0	17.4	16.7	15.5	15.9	16.7	16.7	16.4
Najaf	88	89	84	68	58	66	77	82	77	16.4	16.3	17.5	16.8	15.2	15.7	16.8	16.9	16.5
Diwaniya	85	88	84	68	61	71	80	82	77	16.6	16.4	17.9	17.4	15.8	16.5	17.1	17.1	16.9
Nasiriya	83	86	82	72	63	69	75	80	76	16.0	15.8	17.3	16.6	15.2	15.7	16.6	16.5	16.2
Basrah	90	92	88	69	64	80	86	88	82	16.4	16.2	17.6	17.0	15.7	16.1	16.9	16.9	16.6

TABLE : 8/9 LOW-CLOUD AMOUNT (OKTAS) كمية الغيوم الواطئة (الثمان)

TOTAL CLOUD AMOUNT (OKTAS) مجموع كمية الغيوم (الثمان)

Station/Time	0000	0300	0600	0900	1200	1500	1800	2100	Means	0000	0300	0600	0900	1200	1500	2100		Means
Sinjar	—	3.3	3.0	3.6	4.1	3.6	3.1	—	3.5	—	6.4	6.3	6.0	6.5	5.8	4.9	—	6.0
Mosul	3.7	4.6	4.8	4.9	5.0	4.5	4.4	4.3	4.6	5.1	5.6	6.9	6.5	6.8	6.6	5.5	5.6	6.1
Salahaddin	—	4.2	4.0	5.0	5.0	5.1	4.7	—	4.7	—	6.1	6.2	6.1	6.4	6.2	5.6	—	6.1
Kirkuk	3.7	3.9	4.7	4.5	4.6	4.4	3.7	4.2	4.2	4.3	4.9	6.4	6.2	6.2	6.0	4.5	5.0	5.4
Anah	—	3.5	3.1	3.1	3.3	2.6	1.7	—	2.9	—	6.4	6.2	5.9	6.1	5.9	4.7	—	5.9
Rutbah	1.5	2.2	3.6	3.0	4.0	3.0	2.0	2.3	2.7	3.0	4.4	5.7	5.1	6.0	5.3	3.7	4.0	4.7
Habbaniya	1.9	2.3	3.1	2.8	2.9	2.2	1.7	1.5	2.3	5.1	5.5	6.0	5.6	5.6	5.6	5.0	4.1	5.3
Baghdad	2.2	2.3	3.0	3.6	3.5	2.6	1.5	1.3	2.5	4.6	5.4	5.8	6.3	5.9	5.4	4.4	4.2	5.3
Nukhaib	—	—	3.3	2.8	3.1	2.7	2.1	—	2.8	—	—	4.9	4.8	4.8	4.8	3.6	—	4.6
Hai	1.7	2.1	2.3	2.7	2.9	2.3	1.7	1.6	2.2	3.4	4.8	5.1	5.3	5.0	4.5	3.2	2.9	4.3
Najaf	2.5	2.2	2.8	2.5	2.6	2.5	1.5	1.6	2.2	4.0	4.4	5.5	5.5	5.1	4.7	3.9	3.9	4.6
Diwaniya	1.0	1.4	1.7	1.3	1.7	1.4	0.9	1.2	1.3	3.3	3.3	5.2	5.0	5.0	4.6	3.0	3.2	4.1
Nasiriya	2.5	2.7	3.4	2.7	2.7	2.5	2.0	2.0	2.6	3.2	3.3	4.8	3.9	3.6	3.8	2.9	2.8	3.5
Basrah	1.3	1.3	1.8	2.0	2.1	1.6	1.3	1.4	1.6	2.9	2.9	3.6	3.5	3.8	3.5	2.8	2.7	3.2

MONTH : January 1969 — الشهر كانون الثاني ١٩٦٩

TABLE : 10 a

عدد تكرار رصدات الرياح السطحية
SURFACE-WIND, NUMBER OF DBERVATIONS OF

المحطة Station	وقت كرينتش Time Gmt.	Direction الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CA-LM	Speed in Knots 1—10	11—21	22—33	السرعة بالعقد 34	معدل السرعة بالعقد Mean V.K.
سنجار Sinjar	0000	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0300	4	4	14	3	3	0	2	0	1	24	6	0	0	7
	0600	3	5	10	0	1	0	2	0	10	13	8	0	0	6
	0900	2	4	11	2	0	1	1	0	10	15	5	1	0	5
	1200	1	1	13	6	3	1	2	0	4	22	4	1	o	5
	1500	1	3	14	1	3	0	1	0	8	21	2	0	0	5
	1800	4	3	11	3	5	0	1	0	4	22	5	0	0	6
	2100	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	15	20	73	15	15	2	9	0	37	117	30	2	0	6
موصل Mosul	0000	1	1	4	3	2	0	1	0	19	10	1	1	0	3
	0300	0	1	5	2	1	0	2	2	18	10	3	0	0	3
	0600	0	0	4	4	0	0	3	5	15	16	0	0	0	3
	0900	1	0	8	4	3	0	3	3	9	20	2	0	0	4
	1200	2	2	8	4	5	1	1	3	5	22	4	0	0	5
	1500	0	0	7	1	4	0	3	3	13	16	1	1	0	4
	1800	2	1	4	4	3	0	1	0	16	13	2	0	0	3
	2100	0	0	5	5	2	0	1	1	17	11	2	1	0	4
	Total	6	5	45	27	20	1	15	17	112	118	15	3	0	4
صلاح الدين Salahaddin	0000	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0300	4	0	11	2	13	0	1	0	0	28	3	0	0	7
	0600	1	1	5	4	12	1	1	0	6	19	6	0	0	6
	0900	1	1	5	4	16	1	1	0	2	24	5	0	0	7
	1200	3	2	4	5	13	1	0	0	3	22	6	0	0	7
	1500	5	1	3	2	11	2	2	0	5	21	3	2	0	7
	1800	3	2	3	2	15	0	0	0	6	19	5	1	0	7
	2100	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	17	7	31	19	80	5	5	0	22	133	28	3	0	7
كركوك Kirkuk	0000	0	0	3	5	0	0	0	0	23	6	2	0	0	2
	0300	0	2	3	1	0	0	0	0	25	5	1	0	0	1
	0600	0	1	2	2	0	0	0	0	26	4	0	1	0	1
	0900	0	2	0	6	2	0	0	0	21	8	2	0	0	2
	1200	0	3	0	2	2	0	1	0	23	7	1	0	0	2
	1500	0	1	2	2	3	0	1	0	22	7	2	0	0	2
	1800	0	1	1	3	2	0	0	0	24	5	2	0	0	2
	2100	0	1	1	3	2	0	0	0	24	4	3	0	0	2
	Total	0	11	12	24	11	0	2	0	188	46	13	1	0	2
عنه Anah	0000	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0300	5	2	5	4	1	0	1	1	12	16	3	0	0	5
	0600	1	1	5	2	3	0	4	1	14	10	6	1	0	5
	0900	3	0	6	5	1	1	5	4	6	16	8	1	0	8
	1200	4	2	7	4	2	1	7	1	3	18	9	0	1	9
	1500	1	2	9	1	1	1	1	2	12	15	3	0	0	5
	1800	1	3	7	3	4	1	2	2	٤	19	4	0	0	6
	2100	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	15	10	39	19	12	4	20	11	56	94	33	2	1	6
رطبه Rutbah	0000	0	1	2	1	2	4	6	1	14	14	2	1	0	4
	0300	0	0	3	2	6	7	4	2	7	19	4	1	0	6
	0600	0	1	3	1	7	4	4	3	8	20	2	1	0	5
	0900	0	0	5	2	5	6	7	3	3	18	9	1	0	9
	1200	0	1	2	4	4	8	6	3	3	18	9	1	0	9
	1500	0	1	6	4	1	5	6	2	6	22	3	0	0	6
	1800	1	0	8	1	2	3	5	2	9	19	2	1	0	5
	2100	1	1	3	4	0	6	7	0	9	18	3	1	0	6
	Total	2	5	32	19	27	42	45	17	59	148	34	7	0	6

Table : 10 b

عدد تكرار رصدات الرياح السطحية
SURFACE-WIND, NUMBER OF OBSERVATIONS OF

المحطة STATION	وقت كرينتش TIME GMT.	Direction الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن Calm	Speed in Knots السرعة بالعقد 1—10	11—21	22—33	34	معدل السرعة بالعقد Mean V.K.
	0000	0	0	1	6	3	1	3	1	16	6	9	0	0	6
	0300	0	0	2	4	0	3	3	1	18	5	6	2	0	5
	0600	0	4	1	7	4	2	4	2	7	18	4	2	0	7
حبانيه	0900	1	3	2	6	4	5	4	3	3	17	8	2	1	9
Habbaniya	1200	6	1	2	4	4	3	4	2	5	14	9	3	0	9
	1500	4	1	3	3	4	1	2	2	11	17	3	0	0	4
	1800	0	1	1	6	4	0	3	0	16	10	4	1	0	5
	2100	0	0	1	10	1	1	3	1	14	8	9	0	0	6
	Total	11	10	13	46	24	16	26	12	90	95	52	10	1	6
	0000	4	3	1	7	0	1	3	3	9	16	6	0	0	9
	0300	6	1	1	9	0	1	3	2	8	18	5	0	0	6
	0600	2	1	2	9	2	2	6	2	6	19	6	0	0	7
بغداد	0900	3	0	2	10	3	6	3	4	0	20	9	2	0	10
Baghdad	1200	2	0	3	5	3	4	5	8	1	17	10	3	0	11
	1500	2	0	4	7	1	2	5	9	1	25	4	1	0	7
	1800	2	1	2	9	1	2	6	4	4	20	7	0	0	7
	2100	1	3	2	8	2	1	1	5	8	16	7	0	0	6
	Total	22	7	17	64	12	19	31	37	37	151	54	6	0	8
	0000	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0300	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0600	1	1	7	1	6	0	9	3	3	25	3	0	0	6
نخيب	0900	1	0	5	3	3	2	9	6	2	21	7	1	0	9
Nukhib	1200	0	0	6	7	2	1	11	3	1	18	11	1	0	9
	1500	0	0	6	5	5	0	9	3	3	22	6	0	0	7
	1800	1	0	4	7	4	2	9	7	2	22	7	0	0	7
	2100	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	3	1	28	23	20	5	47	17	11	108	34	2	0	8
	0000	5	0	9	2	0	0	2	5	8	18	1	4	0	7
	0300	4	0	9	1	0	0	4	5	8	17	1	5	0	7
	0600	3	0	11	0	0	0	4	10	3	21	3	4	0	8
حي	0900	8	0	9	1	0	0	1	7	5	19	3	4	0	9
Hai	1200	9	0	8	1	1	2	0	7	3	18	7	3	0	9
	1500	4	0	8	1	1	0	1	7	9	15	5	2	0	6
	1800	4	0	4	5	0	0	3	5	10	14	6	1	0	6
	2100	4	0	8	4	0	0	1	5	9	16	5	1	0	6
	Total	41	0	66	15	2	2	16	51	55	138	31	24	0	7
	0000	0	0	0	8	0	1	4	5	13	17	1	0	0	3
	0300	1	0	2	7	3	0	2	5	11	18	2	0	0	4
	0600	1	2	2	7	0	1	8	5	5	23	3	0	0	4
نجف	0900	2	1	2	5	3	3	9	3	3	24	4	0	0	5
Najaf	1200	3	1	1	5	2	1	11	1	6	24	1	0	0	5
	1500	1	1	1	8	0	5	8	1	6	23	2	0	0	4
	1800	2	2	1	9	4	1	4	1	6	25	0	0	0	5
	2100	0	1	2	8	2	2	3	5	8	19	4	0	0	5
	Total	11	8	11	57	14	14	49	26	58	173	17	0	0	4
	0000	2	3	3	3	3	2	2	2	11	17	3	0	0	5
	0300	1	1	3	2	4	2	4	0	14	15	2	0	0	4
	0600	3	1	7	4	0	1	6	1	8	20	3	0	0	6
ديوانيه	0900	3	3	3	4	3	3	6	4	2	20	9	0	0	8
Diwaniya	1200	5	2	6	2	4	0	9	1	2	18	10	1	0	9
	1500	3	0	5	3	1	1	4	1	13	13	5	0	0	5
	1800	0	1	7	3	0	0	4	3	13	13	5	0	0	5
	2100	2	3	5	4	1	1	4	0	11	16	4	0	0	5
	Total	19	14	39	25	16	10	39	12	74	132	41	1	0	6

عدد تكرار وصدات الرياح السطحية

Table : 10 c SURFACE-WIND, NUMBER OF OBSERVATIONS OF

المحطة Station	وقت كرينتش Time GMT.	Direction الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن Calm	Speed in Knots 1-10	11-21	22-33	السرعة بالعقد 34	معدل السرعة بالعقد Mean V.K.
	0000	5	4	3	5	1	1	5	3	4	23	4	0	0	5
	0300	3	4	5	3	0	2	5	4	5	23	3	0	0	5
	0600	1	3	3	4	1	3	8	5	3	25	3	0	0	5
ناصرية	0900	3	3	2	4	4	1	6	7	1	26	4	0	0	6
Nasiriyah	1200	2	4	3	5	0	0	4	13	0	27	4	0	0	7
	1500	6	2	5	4	1	0	2	10	1	26	4	4	0	6
	1800	5	3	5	4	1	1	4	6	2	27	2	0	0	6
	2100	4	6	5	5	0	3	3	4	1	27	3	0	0	5
	Total	29	29	31	34	8	11	37	52	17	204	27	0	0	6
	0000	5	5	2	4	4	0	5	5	1	22	7	1	0	8
	0300	3	4	8	0	4	1	8	3	0	25	5	1	0	7
	0600	2	3	4	1	6	2	8	5	0	24	6	1	0	8
بصرة	0900	5	3	1	3	6	3	5	4	0	21	9	1	0	9
Basrah	1200	6	3	3	5	4	0	3	7	0	22	7	2	0	8
	1500	6	5	5	4	2	0	4	5	0	28	2	1	0	6
	1800	7	3	6	2	4	1	0	7	1	24	6	0	0	6
	2100	4	5	4	7	0	1	5	5	0	23	8	0	0	8
	Total	38	31	33	26	31	8	38	41	2	189	50	7	0	8

TABLE : 11 اعلى سرعة ريح خلال ساعة

HIGHEST WIND-SPEED DURING ONE HOUR

Station	Highest Wind-Speed During One Hour (V.K.)	Direction	Time GMT.	Day
Sinjar	22 Knots	110	1200	13 th
Mosul	30	120	2100	6 th
Salahaddin	25	160	1500	26 th
Kirkuk	25	070	0600	6 th
Anah	36	260	1200	22 nd
Rutbah	30	230	1200	29 th
Habbaniya	26	170	1200	13 th
Baghdad	30	150	1200	13 th
Nukhaib	26	240	1200	19 th
Hai	30	090	1200	19 th
Najaf	20	150	1200	13 th
Diwaniya	23	120	1200	13 th
Nasiriya	20	150	1500	19 th
Basrah	27	160	0600	22 nd

MONTH : January 1969 TABLE : 12 a

الشهر : كانون الثاني ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm. WITH RECORDS

الهطول اليومي (ميلمترات) مع تسجيلات مقاييس

الايام Days	سنجار Sinjar	موصل Mosul	صلاح الدين Salahaddin	كركوك Kirkuk	عنه Anah	رطبة Rutbah	حبانية Habbaniya	بغداد Baghdad	نخيب Nukhaib	حي Hai	نجف Najaf	ديوانية Diwaniya	ناصرية Nasiriya	بصرة Basrah
1	—	—	—	—	—	—	—	tr	—	—	—	—	—	—
2	—	—	—	—	—	—	—	0.2	tr	—	—	—	—	—
3	—	—	—	—	—	tr	—	—	tr	tr	tr	—	—	—
4	7.2	3.8	—	0.4	5.9	21.1	—	0.9	1.6	3.5	6.4	1.1	43.5	9.0
5	15.5	17.4	—	3.9	22.0	1.2	13.9	4.6	tr	1.0	tr	—	2.0	2.8
6	15.8	3.7	—	9.2	1.5	tr	41.1	14.6	8.0	tr	3.2	5.2	tr	tr
7	—	—	—	1.8	tr	—	tr	—	tr	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	2.1	—	—	tr	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	1.0	—	—	—	—	—	—	—	—	—
12	21.0	5.0	—	—	2.0	tr	—	—	—	—	tr	—	—	—
13	26.1	16.0	3.0	8.5	1.0	1.1	tr	0.9	tr	8.0	tr	—	1.4	tr
14	—	—	4.0	2.0	—	tr	tr	—	tr	—	—	—	—	—
15	—	—	—	tr	—	—	—	—	—	—	—	—	tr	0.2
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	tr	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	13.4	9.6	23.2	17.5	4.6	7.1	9.6	2.4	7.4	2.2	3.3	2.0	0.6
19	23.5	2.2	6.0	10.6	tr	—	0.2	0.9	tr	0.4	—	tr	2.8	26.2
20	1.4	—	—	—	—	—	—	0.1	—	—	—	4.6	—	—
21	11.5	3.0	—	3.0	tr	1.1	—	0.4	—	2.2	4.1	14.0	9.1	4.3
22	16.5	21.8	11.0	9.8	tr	0.4	tr	1.2	2.3	0.4	3.7	1.6	tr	1.6
23	9.3	3.2	7.6	1.1	0.8	—	0.9	—	tr	0.4	4.4	1.0	0.2	4.2
24	1.5	2.8	1.6	0.7	10.0	tr	—	tr	4.9	0.6	7.3	4.8	3.4	11.0
25	11.5	2.8	5.6	0.8	tr	—	—	—	tr	0.6	—	—	—	—
26	28.5	10.3	27.9	12.2	tr	—	—	—	—	—	—	—	—	—
27	—	8.2	2.9	6.9	tr	tr	—	1.1	tr	1.9	2.4	0.6	—	3.7
28	5.1	2.8	11.3	22.5	0.5	—	—	—	—	—	—	0.8	0.2	tr
29	7.2	6.7	15.0	4.2	tr	—	0.1	0.2	—	tr	—	tr	tr	0.2
30	—	—	3.8	0.3	—	—	tr	0.2	—	—	—	—	—	tr
31	33.3	8.3	2.5	0.1	tr	—	—	—	—	—	—	—	—	—
Total	234.9	131.4	111.8	121.2	62.2	31.6	63.3	34.9	19.2	26.4	33.7	37.0	64.6	63.8
Normal	87.6	70.1	115.3	58.1	20.6	15.9	20.8	24.5	13.0	22.1	8.6	17.3	16.7	25.9
Max. Fall	91.0	37.5	70.3	48.1	29.4	21.1	41.1	35.3	41.0	41.9	19.7	40.0	43.5	32.5
DAY	2 nd	13 th	3 nd	2 nd	28 th	4 th	6 th	27 th	18 th	14 th	18 th	1 st	4 th	17 th
YEAR	1942	1933	1961	1961	1940	1969	1969	1940	1965	1947	1965	1960	1969	1949

MONTH : January 1969 TABLE : 12 b

الشهر : كانون الثاني ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm.

الهطول اليومي (ملليمترات)

الايام Days	محمودية Mahmodiya	نعمانية Nomaniya	سرسنك Sersank	بعقوبة Baqoba	منايف Manayif	فاو Fao	بدعة Badaa	جلولاء Jalawla	طوز Tuz	منصور Mansoor	مندلي Mandily	طريفاوي Trefawi	القائم Qaim	العمادية Amadiya
1	—	—	8.7	—	—	—	—	—	—	—	—	—	—	—
2	—	—	20.0	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	21.3	—	—	10.3	—	—	—	—	—	—	5.4	—
5	—	—	—	—	—	—	27.0	—	—	—	—	5.0	—	—
6	17.4	—	3.0	9.5	11.0	8.5	—	—	—	12.0	7.0	10.0	10.9	—
7	—	16.5	9.6	—	1.0	—	—	15.2	—	—	—	5.0	—	—
8	—	—	—	—	—	—	—	—	10.2	—	—	—	—	—
9	—	—	21.8	—	—	—	—	—	—	—	—	—	—	—
10	—	—	21.8	—	—	—	—	—	—	—	—	—	—	—
11	—	—	2.2	—	—	—	—	—	—	—	—	—	—	—
12	—	—	5.7	—	5.0	—	—	—	—	—	—	—	—	—
13	—	—	7.0	—	—	1.0	7.0	—	—	—	2.0	7.0	—	50.0
14	—	0.4	19.1	—	12.0	—	—	10.4	5.1	—	—	10.0	—	—
15	—	—	20.0	—	—	—	—	—	—	—	—	11.0	—	—
16	—	—	10.9	—	—	—	—	—	—	—	—	—	—	—
17	—	—	3.0	—	—	—	—	—	—	—	—	—	—	—
18	—	—	20.0	14.0	—	—	—	—	—	11.0	5.0	—	10.7	—
19	13.4	9.6	—	—	—	11.0	7.0	8.9	—	2.0	—	20.0	—	—
20	—	0.2	—	—	—	6.0	6.0	—	—	—	—	—	—	—
21	—	—	—	0.4	12.0	—	—	—	—	—	—	—	—	—
22	—	20.9	21.8	0.5	—	8.8	1.0	—	—	—	20.0	2.0	—	70.0
23	—	17.4	21.3	—	—	—	—	—	—	2.0	5.0	3.0	—	—
24	—	—	4.4	—	8.0	7.5	—	—	—	—	5.0	—	—	—
25	—	—	10.4	—	5.0	—	2.0	—	—	—	—	—	—	5.0
26	—	—	12.2	—	—	—	—	—	—	—	—	—	—	28.0
27	—	8.7	20.0	2.0	13.0	—	—	5.1	—	8.0	—	—	—	40.0
28	—	—	18.7	—	—	—	—	10.2	—	—	8.5	—	—	90.0
29	—	—	16.1	—	—	—	—	—	5.1	—	1.5	2.0	—	95.0
30	—	—	15.7	—	—	—	—	—	5.1	—	—	1.0	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—	40.0
TOTAL	30.8	73.7	349.0	26.4	67.0	53.1	50.0	49.6	25.5	35.0	54.5	76.0	27.0	418.0

Daily Precipitation (Millimeters), tr. < 0.05 mm.

الهطول اليومي (ملليمترات)

الايام Days	تلعفر Telafar	دجيل Dujail	بعاج Baaj	زمار Zammar	هيت Hit	سامراء Samiraa	بعشيقة Bashiqa	مسيب Musayib	كربلاء Karbalaa	شرقاط Shergat	زاخو Zakho	حلة Hilla	اور Ur	ايج ٢ H 2
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	2.3	—	—	—	17.8	—	—
4	3.0	—	—	—	32.0	8.4	—	—	—	—	4.0	—	—	—
5	14.0	—	2.0	—	22.0	—	—	0.1	—	—	2.4	10.2	38.1	14.0
6	—	5.2	13.5	—	2.0	26.7	6.0	—	5.1	30.0	—	—	—	—
7	—	19.1	—	—	—	—	—	5.0	—	—	—	7.1	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	14.0	—	—	—	—	—	—	—	—	—	12.0	—	—	—
13	16.0	—	10.0	—	2.0	—	2.0	—	—	12.0	45.6	—	—	—
14	—	—	8.0	50.0	—	TR	12.0	0.3	—	—	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	18.0	—	—	—	—	—	—	—	—	—
18	23.0	15.7	—	—	—	20.3	—	—	—	31.0	—	—	—	—
19	—	27.9	14.0	—	—	3.8	3.0	6.8	11.4	—	7.6	3.3	7.6	9.0
20	—	—	2.0	—	—	—	—	—	—	—	10.0	—	5.1	—
21	14.0	—	—	—	—	—	—	0.5	—	—	—	—	—	—
22	12.5	1.3	6.0	—	2.5	2.5	—	3.1	—	10.0	43.6	2.3	10.2	—
23	4.0	—	6.0	50.0	3.5	—	9.0	0.5	—	—	9.6	5.3	—	—
24	3.5	—	3.0	35.0	—	—	—	5.0	—	—	3.2	4.3	6.4	—
25	6.0	—	—	—	—	—	24.0	—	—	10.0	3.2	3.0	—	—
26	8.0	—	7.0	10.0	—	—	2.0	—	—	—	30.4	—	—	—
27	6.0	2.6	5.0	12.0	—	—	12.0	—	—	—	11.2	—	—	—
28	4.0	—	2.0	—	—	—	10.0	—	—	—	8.8	—	—	—
29	3.0	—	3.0	—	—	—	—	—	—	10.0	1.4	—	—	—
30	—	—	2.0	—	—	—	—	—	—	—	—	—	—	—
31	12.0	—	—	—	—	—	—	0.2	—	—	13.6	—	—	—
TOTAL	145.0	71.8	82.5	157.0	82.0	61.7	80.0	23.8	16.5	103.0	209.5	53.5	67.4	23.0

Month : January 1969 TABLE : 12 c

الشهر : كانون الثاني ١٩٦٩

Daily Precipitation (Millimeters), tr. < 0.05 mm.

الهطول اليومي (ملليمترات)

الايام Days	افتخار Iftikhar	بدرة Badra	سماوة Samawa	سلمانية Sulaimaniya	افراز Ifraz	عين سفني Ainsfni	حمام العليل Hamamalil	ديانا Diana	بيجي Baiji	حويجة Hawija	كفري Koufri	تل حنكة Telhakna
1	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—
4	—	5.5	—	—	—	—	—	—	2.5	—	—	—
5	—	—	8.1	—	4.6	—	78.0	—	20.0	—	—	11.2
6	10.7	15.0	—	20.0	21.3	—	6.8	—	6.7	23.2	—	—
7	—	—	—	4.0	—	—	—	—	4.5	2.2	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—							
10	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	3.6	—	8.4	—	—	—
13	—	1.0	—	24.0	26.3	67.1	25.2	13.0	—	3.9	—	—
14	—	—	8.9	—	2'5	—	—	35.4	TR	—	52.4	7.6
15	—	—	—	1.6	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—
18	—	8.5	—	16.0	13.4	—	13.6	3.0	30.3	—	—	—
19	—	—	13.7	60.8	2.4	8.7	5.7	20.0	2.5	33.1	24.4	—
20	—	—	—	—	—	—	—	—	—	—	26.1	12.7
21	—	60.6	—	—	—	—	1.0	2.6	5.9	—	—	—
22	—	—	—	16.0	9.9	30.5	17.0	16.4	1.9	9.6	—	2.03
23	—	—	—	1.6	12.4	—	7.0	4.0	—	—	—	—
24	—	3.0	2.3	—	5.6	24.0	3.0	—	1.4	4.8	—	—
25	—	—	—	8.0	2.7	3.5	3.3	1.2	0.9	—	—	—
26	3.8	—	—	12.0	35.6	66.3	13.4	44.4	1.2	7.1	—	12.6
27	—	7.5	—	19.2	3.9	27.9	11.3	6.4	0.9	6.1	—	—
28	—	2.0	—	12.0	7.5	13.6	3.8	24.5	12.4	—	26.1	12.7
29	13.5	—	—	14.4	20.7	20.0	4.1	31.0	0.4	14.8	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	16.8	16.5	7.5	12.0	TR	—	—	—
TOTAL	28.0	102.5	33.0	209.6	172.2	278.1	144.3	213.8	99.8	104.8	129.0	77.3

Daily Precipitation (Millimeters), tr. < 0.05 mm.

الهطول اليومي (ملليمترات)

الايام Days	بلدروز Baladruz	مخمور Makmoor	كوير Guair	تكريت Tekreet	معقل Maqil	ربيعة Rabiaa	حديثة Haditha	عقرة Aqra	دهوك Duhok	علي الغربي Ali al-Gharbi	ك٢ K 2	فتحة Fatha	العظيم Audhaim
1	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	4.0	—	—	—	—	—	—	—	—	1.0	1.5	—
5	—	6.0	—	—	8.9	8.0	12.4	—	—	3.0	27.0	32.0	3.0
6	25.0	—	8.0	21.2	—	—	7.2	—	—	—	6.0	1.5	23.5
7	—	—	15.0	—	—	8.0	—	—	—	—	3.0	4.5	4.5
8	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	3.5	—	—	—	—	—
12	—	—	—	—	—	—	—	57.1	40.0	14.2	—	—	—
13	—	10.0	20.0	13.1	—	24.0	—	1.1	5.0	—	10.5	5.5	8.3
14	—	—	—	—	—	12.0	—	—	—	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	32.0	—	—	—	—	28.0	—	—	13.2	34.0	—	25.5
19	17.0	6.0	15.0	21.8	24.1	20.0	—	12.6	12.0	16.0	1.0	34.5	12.3
20	—	—	20.0	—	—	—	—	—	—	—	—	1.2	—
21	—	—	—	—	8.9	—	—	TR	—	7.6	—	11.3	—
22	—	—	15.0	—	—	8.0	—	24.4	—	8.0	—	2.5	—
23	—	—	—	—	—	20.0	—	23.3	46.5	8.0	—	—	2.5
24	—	12.0	13.0	—	15.2	—	—	TR	16.5	—	—	2.0	1.5
25	—	—	—	—	—	—	—	13.7	—	2.5	—	TR	—
26	—	13.0	17.0	—	—	12.0	—	24.2	33.0	—	—	3.0	—
27	—	—	20.0	—	2.5	—	—	21.2	10.0	—	—	TR	—
28	15.9	19.0	8.0	—	—	—	—	15.2	—	—	11.0	21.0	8.5
29	—	2.0	10.0	—	—	16.0	—	27.8	20.0	6.0	—	1.8	4.5
30	—	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	—	15.2	13.5	—	—	—	—
Total	57.0	108.0	161.0	56.7	59.6	128.0	47.6	241.3	196.5	78.5	93.5	122.3	89.0

MONTH : JANUARY 1969 TABLE : 13 الشـــهر : كانون الثاني ١٩٦٩

DAILY GRASS MINIMUM AND SOIL TEMPERATURES (°C) القراءات اليومية لحرارة الحشيش والتربة (سنتغراد)

الايام Days	موصل Mosul	كركوك Kirkuk			حبانية Habbaniya			بغداد Baghdad			نجف Najaf		ناصرية Nasiriyah			بصرة Basrah
	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	1.2	6.2	12.2	17.8	4.5	15.3	20.5	6.5	13.7	20.6	12.7	18.5	7.6	16.3	22.8	—3.5
2	1.5	3.9	12.3	17.8	5.6	15.0	20.2	7.0	13.4	20.5	12.4	18.2	5.0	15.8	22.7	2.5
3	5.5	5.2	12.5	17.8	7.1	14.7	20.3	6.6	13.0	20.4	12.3	18.1	5.3	15.1	22.7	0.5
4	0.8	4.5	12.3	17.7	6.7	14.0	20.0	6.6	13.0	20.3	12.2	18.0	7.4	15.5	22.6	—0.7
5	4.5	6.3	12.8	17.6	10.2	14.9	20.2	9.2	14.0	20.0	13.4	18.0	11.2	16.2	22.6	5.0
6	2.5	3.5	12.3	17.4	10.0	15.4	20.0	8.1	14.1	20.2	13.6	18.1	11.4	17.0	22.4	10.0
7	0.6	0.5	11.4	17.3	3.9	14.6	20.0	0.5	12.0	20.2	11.4	17.9	7.2	16.4	16.4	4.0
8	0.9	1.3	11.1	17.3	3.4	14.1	19.8	1.6	12.4	20.0	11.7	18.0	4.7	15.4	21.8	—2.8
9	0.9	3.0	11.1	17.2	2.3	14.2	19.6	1.0	12.5	19.9	10.4	17.6	3.5	14.8	21.5	—3.4
10	1.0	1.9	11.0	16.9	6.1	14.2	19.6	3.4	13.5	20.0	11.5	17.6	7.2	14.5	21.5	0.3
11	—1.0	—1.5	10.5	16.8	3.6	14.3	19.5	1.1	12.0	19.8	10.2	17.2	7.2	14.8	21.5	2.2
12	—0.8	1.1	10.4	16.7	2.2	14.0	19.4	1.5	11.8	19.6	10.1	17.1	3.7	14.6	21.5	—4.4
13	2.4	6.5	10.8	16.6	6.1	14.0	19.0	1.5	12.5	19.5	10.6	17.0	5.5	14.4	21.4	2.6
14	1.8	5.9	10.7	16.4	7.4	14.0	19.0	8.2	12.5	19.5	10.5	17.2	7.6	14.5	21.3	7.0
15	2.2	3.0	10.8	16.5	10.0	14.7	19.0	8.5	13.5	19.5	11.8	16.9	7.6	15.2	21.2	3.2
16	2.5	4.5	11.1	16.1	5.6	14.8	19.0	1.5	13.2	19.5	12.5	16.8	9.2	15.8	21.2	4.8
17	2.8	1.2	11.1	16.1	3.9	15.0	18.8	2.6	13.0	19.2	12.3	16.7	8.7	15.8	21.1	0.7
18	3.0	2.4	11.0	16.1	8.9	15.0	18.8	5.8	13.3	19.2	13.7	16.9	9.4	17.0	21.0	1.7
19	2.6	2.7	11.2	16.3	10.3	15.7	18.8	10.6	13.8	12.4	13.8	17.2	12.9	16.7	21.1	9.0
20	1.0	7.4	12.1	15.6	8.8	15.6	18.7	10.0	14.9	19.0	14.4	17.6	13.8	17.3	21.1	12.1
21	2.5	3.2	11.8	15.6	7.2	15.5	18.6	4.1	14.2	19.1	13.3	17.2	9.4	17.2	21.0	4.5
22	3.2	9.0	12.1	15.5	12.5	15.5	18.6	12.8	14.8	20.0	14.9	17.6	16.4	17.5	21.0	2.9
23	2.8	5.2	11.7	15.6	9.5	16.0	18.8	8.5	14.7	19.2	13.2	17.0	12.1	18.0	21.0	2.8
24	2.8	7.1	11.8	15.7	8.4	15.8	18.7	7.8	14.4	19.2	13.0	17.1	9.2	17.0	21.1	—
25	3.4	3.6	11.8	15.7	7.2	15.3	10.9	4.4	13.5	19.0	12.9	17.2	7.4	15.6	21.0	2.8
26	2.3	4.5	11.6	15.6	7.5	15.3	19.0	1.5	13.1	19.3	11.5	17.3	4.7	15.5	21.1	—1.0
27	2.7	6.4	11.6	15.6	8.0	15.3	18.8	6.1	13.2	19.0	11.4	17.0	7.4	15.3	21.0	—1.4
28	4.7	5.9	11.5	15.5	8.4	15.7	18.8	9.0	13.5	19.0	12.6	17.2	10.9	16.0	21.0	4.5
29	3.0	4.8	11.3	15.5	5.6	15.8	18.8	5.4	13.6	18.0	11.2	17.0	6.0	15.8	20.9	0.5
30	2.2	2.0	10.8	15.2	2.5	15.0	18.8	1.0	13.0	19.0	11.2	16.9	4.7	15.6	20.9	4.9
31	0.8	—1.2	10.6	15.1	0.2	14.2	18.8	—4.0	11.6	18.8	9.0	16.5	3.8	14.5	20.7	—2.4
MEAMN	2.1	3.0	11.5	16.4	6.6	14.9	19.3	5.0	13.3	19.5	12.1	17.4	8.0	15.8	21.5	2.3

MONTH : January 1969 TABLE : 14 الشـــهر : كانون الثاني ١٩٦٩

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A التبخر اليومي (ملليمترات)

الايام Days	موصل Mosul	كركوك Kirkuk	عنه Anah	رطبة Rutbah	بغداد Baghdad	نخيب Nukhab	نجف Najaf	ديوانية Diwaniya	ناصرية Nasiriya	بصرة Basrah
1	4.0	9.0	0	2	2	3	0	0	0	1
2	3.0	0.0	0	2	3	2	0	1	1	1
3	3.0	1.0	2	2	2	3	3	0	1	1
4	1.8	1.4	0	7	4	4	0	1	1	1
5	2.4	0.9	3	1	3	2	0	1	2	1
6	2.7	2.2	2	1	2	2	1	1	1	2
7	3.0	0.2	0	0	2	3	0	0	1	2
8	3.0	2.0	0	2	2	3	0	1	1	2
9	3.0	2.0	1	5	4	3	1	1	0	2
10	2.0	2.0	1	2	2	4	1	1	3	3
11	2.0	2.0	2	2	2	3	0	2	1	1
12	2.0	2.0	3	2	4	4	1	1	1	1
13	4.0	0.5	3	3	2	4	1	2	1	2
14	2.0	0.0	2	2	2	3	0	1	0	2
15	2.0	1.0	1	2	1	2	2	2	1	1
16	2.0	2.0	0	1	3	3	2	1	2	2
17	3.0	2.0	2	2	2	3	1	2	1	1
18	1.4	4.2	8	6	2	4	1	2	3	3
19	1.2	3.6	0	1	2	3	0	0	2	4
20	2.0	2.0	1	2	1	2	2	2	1	3
21	6.0	2.0	0	3	2	4	2	4	3	1
22	2.8	2.8	1	2	2	4	3	3	3	3
23	3.2	0.1	1	2	2	3	2	2	1	2
24	2.8	0.7	2	2	2	3	2	0	1	1
25	2.8	0.8	2	2	1	3	0	2	1	2
26	2.3	2.2	2	2	2	3	2	2	2	1
27	3.2	0.9	2	2	4	3	1	0	2	3
28	2.8	4.5	1	3	3	2	2	1	2	3
29	4.7	1.2	2	3	2	3	2	3	2	2
30	3.0	0.3	2	2	1	3	2	0	2	1
31	3.3	2.1	2	2	3	2	1	3	2	3
TOTAL	87.4	50.6	48	74	71	93	35	42	45	58
MEANS	2.8	2.0	2	2	2	3	1	1	1	2

Month : January 1969 Table : 15 CLIMATOLOGICAL SUMMARY الملخصات المناخية الشهر : كانون الثاني ١٩٦٩

Number of Days for the Cases of Phenomena and Duration of Sunshine عدد الايام التي حدثت فيها الظواهر الجوية ومدة سطوع الشمس

Stations	Rain	Snow	Hail	Thunder Storm	Fog	Mist	DUST Haze	DUST Rising	DUST Suspended	DUST Storm	Ground Frost	State of Sky Clear	State of Sky Gloudy	Duration of Sunshing-Hours Month Total	Duration of Sunshing-Hours Max. Hours	Duration of Sunshing-Hours Max. Day	No. of Days Without
Sinjar	16	1	0	1	4	13	0	0	0	0	3	2	18	—	—	—	—
Musol	17	0	0	1	3	11	0	0	0	0	2	0	13	96.3	8.9	11 th	11
Salahaddin	14	7	0	1	3	2	0	1	0	0	8	0	19	—	—	—	—
Kirkuk	18	0	0	3	4	1	1	0	0	0	2	3	17	—	—	—	—
Anah	10	0	0	4	6	10	0	1	0	0	1	1	14	—	—	—	—
Rutbah	7	0	0	2	6	7	0	6	3	1	1	2	6	—	—	—	—
Habbaniya	5	0	0	5	5	17	3	3	0	2	0	1	9	142.8	9.8	31 st.	3
Baghdad	12	0	0	4	5	18	10	2	0	2	2	1	8	130.6	9.3	31 st.	2
Nukhaib	5	0	0	2	7	8	0	4	2	1	0	2	7	—	—	—	—
Hai	11	0	0	3	0	12	0	0	0	0	0	4	5	—	—	—	—
Najaf	8	0	0	3	2	14	0	2	2	0	0	1	7	—	—	—	—
Diwaniya	10	0	0	2	3	6	2	0	0	0	0	3	4	—	—	—	—
Nasiriya	9	0	0	5	4	6	0	1	1	0	0	7	2	—	—	—	—
Basrah	11	0	0	5	6	8	0	0	0	0	3	5	2	221.6	10.1	25 th	1

MONTH : January 1969

الشهر : كانون الثاني ١٩٦٩

Table : 16 HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELIATIVE-HUMIDITY

اعلى وأوطأ ضغط جوى على سطح البحر والرطوبة النسبية

Stations	PRESSURE AT MSL for 1969, mb.						PRESSURE AT MSL — RECORDS-mb.								RELATIVE HUMIDITY (%) for 1969					
	Highest	Time Gmt	Day	Lowest	Time Gmt.	Day	Highest	Time Gmt.	Day	Year	Lowest	Time Gmt.	Day	Year	Highest	Time Gmt.	Day	Lowest	Time Gmt.	Day
SINJAR	1027.1	0600	31 st	1000.3	1500	22 nd	1033.5	0600	30 th	1964	999.7	1800	8 th	1965	98	0900	24 th	40	1200	4 th
MOSUL	1028.9	0900	31 st	1001.4	1200	22 nd	1038.4	0600	7 th	1942	994.8	0200	28 th	1940	99	0600	27 th	54	1200	9 th
SALAHADDIN	1027.5	0300	31 st	1003.9	1500	22 nd	1032.9	1800	18 th	1968	1003.9	1500	22 nd	1969	100	0900	29 th	45	0900	31 st
KIRKUK	1027.6	0600	31 st	1003.8	1200	22 nd	1032.0	0600	30 th	1964	997.1	1800	19 th	1965	99	1800	19 th	42	1200	20 th
ANAH	1029.0	0600	31 st	1003.3	1200	19 th	1031.6	0600	19 th	1968	1000.5	1800	6 th	1968	100	0600	12 th	45	1200	18 th
RUTBAH	1027.6	0300	31 st	1004.3	1200	19 th	1039.3	0000	7 th	1942	999.0	1200	19 th	1965	100	0600	8 th	29	1200	30 th
HABBANIYA	1028.3	0600	31 st	1003.2	1200	19 th	1032.2	0600	30 th	1964	997.5	1500	19 th	1965	100	0300	7 th	41	1200	31 st
BAGHDAD	1029.2	0600	31 st	1004.2	0600	22 nd	1036.0	0600	7 th	1942	998.4	1500	19 th	1965	100	0600	12 th	35	1200	18 th
NUKHIB	1026.1	0600	11 th	1003.7	1200	19 th	1032.7	0600	30 th	1964	999.2	1200	19 th	1965	100	0600	2 nd	26	1200	29 th
HAI	10270	0600	31 st	1004.4	0300	20 th	1030.8	0600	30 th	1964	1001.6	1500	19 th	1965	98	0300	26 th	45	1200	18 th
NAJAF	1029.0	0600	31 st	1002.8	1200	19 th	1033.8	0600	30 th	1964	999.7	1200	19 th	1965	100	0600	8 th	36	1200	22 nd
DIWANIYA	1029.6	1500	30 th	1003.3	1200	19 th	1036.1	0600	7 th	1942	1000.0	2100	10 th	1953	100	0300	7 th	45	1200	31 st
NASIRIYA	1028.1	0600	31 st	1003.9	0300	20 th	1035.9	0600	7 th	1942	1001.9	1200	19 th	1965	100	0300	2 nd	43	1200	16 th
BASRAH	1027.7	0600	31 st	1003.7	0000	23 rd	1035.1	0600	7 th	1942	1003.1	0200	28 th	1940	100	0600	26 th	42	1200	4 th

الجمهورية العراقيـــــــة

وزارة المواصـــــــــلات

مديرية الطيران المدنـــي العامـــــة

مفتشية الانواء الجوية العامـــــة

مديرية احصائيات المنـــاخ

بغداد

تقرير المنـــاخ الشهـــــــــرى

المجلد : ٣٢

العدد : ٢

الشهر : شبـاط

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

Volume : 32

No. : 2

Month : FEBRUARY

Year : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum & minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = wet-bulb =	3	4
= = dew-point	4	4
= = vapour-pressure	5	4
= = relative-humidity	6	5
= = pressure at MSL	7	5
= = total-cloud amount	8	5
= = low-cloud amount	9	5
Surface-wind, number of observations of	10	6-8
Highest wind speed during one hour	11	8
Daily precipitation	12a-g	9-15
Daily grass minimum and soil temperatures	13	16
Daily evaporation	14	17
Number of days for the cases of phenomena and duration of sunshine	15	18
Highest, lowest & records of pressure at MSL, and highest and lowest relative humidity	16	18

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE JANUARY 1969.

February 1969.

(1)

Table 1a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد) مع مقاييسها الماضية

DAILY MAXIMUM & MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS

	سنجار		موصل		صلاح الدين		عانة		كركوك	
	SINJAR		MOSUL		SALAHADDIN		ANAH		KIRKUK	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	4.0	0.0	6.8	3.2	0.3	-1.6	12.6	3.7	7.0	4.0
2	9.4	-1.2	13.3	0.3	8.8	-3.8	12.8	-0.4	14.4	9.2
3	9.2	-1.8	11.5	0.7	9.7	-1.6	15.0	-1.7	13.9	-0.6
4	10.0	0.1	14.1	0.7	9.5	-0.9	14.7	1.5	15.5	2.6
5	10.5	1.3	18.0	2.4	12.7	1.1	16.6	4.5	18.6	4.1
6	11.9	1.3	18.8	2.2	14.0	3.7	18.7	4.1	19.3	5.6
7	12.5	1.6	17.6	4.5	10.0	4.0	17.8	4.0	17.9	6.5
8	12.7	2.2	15.1	7.4	6.0	4.1	16.0	8.3	14.4	10.0
9	10.7	2.4	13.3	4.5	5.5	1.4	15.6	4.0	12.3	6.0
10	12.2	1.3	16.4	1.6	9.0	1.0	17.6	0.5	15.6	4.5
11	11.6	2.3	16.0	3.2	9.5	1.0	16.7	0.8	16.6	4.0
12	10.1	1.6	15.8	1.2	7.5	-0.4	19.4	4.1	14.6	3.0
13	8.6	1.1	14.5	5.5	6.0	0.0	15.2	6.9	14.3	6.3
14	11.6	0.0	15.1	0.8	8.0	-0.1	16.4	1.6	16.0	1.5
15	11.6	0.1	15.6	1.0	9.2	-1.5	17.2	2.5	17.0	2.2
16	11.1	0.8	14.8	0.3	9.0	0.0	15.8	0.4	16.4	1.6
17	11.6	2.0	14.8	6.3	9.5	1.0	18.4	4.0	17.9	5.3
18	12.0	2.8	17.8	8.5	12.0	1.0	22.0	9.6	18.4	8.6
19	12.1	4.3	17.2	8.3	10.0	3.0	18.6	7.5	16.7	9.2
20	12.6	2.1	14.0	6.8	5.0	-1.5	15.4	2.6	16.3	6.4
21	12.7	1.4	16.4	1.8	8.5	-0.5	16.8	0.5	15.3	4.4
22	12.1	2.5	13.8	1.2	8.0	-0.1	15.6	2.4	14.6	3.8
23	10.2	1.1	13.6	8.0	7.0	1.1	18.0	5.0	14.6	7.8
24	12.1	1.8	18.5	5.6	12.7	2.0	18.6	6.0	19.2	6.2
25	11.8	2.1	13.1	9.4	7.2	4.2	20.2	8.0	13.7	10.3
26	13.5	3.3	16.1	5.0	11.6	3.4	22.5	7.5	19.3	8.1
27	8.6	3.1	15.4	10.6	11.3	6.4	23.0	8.0	19.9	11.9
28	12.7	1.9	18.6	10.8	13.0	7.0	21.8	12.0	20.5	13.2
MEANS	11.1	1.5	15.2	4.4	8.9	1.2	17.5	4.2	16.1	5.6
NORMAL	....	...	14.5	3.2	...	...	....	...	15.2	5.3
HIGHEST	21.7	12.9	26.7	12.8	16.5	9.0	27.8	12.0	26.6	16.1
DAY	26th	27th	28th	25th	29th	29th	29th	28th	25th	26th
YEAR	1966	1966	1955	1941	1968	1968	1968	1969	1941	1941
LOWEST	1.6	-5.6	0.5	-9.4	-2.3	-8.0	7.5	-1.7	1.1	-6.7
DAY	1st	2nd	6th	10th	2nd	3rd	2nd	3rd	6th	4th
YEAR	1968	1967	1950	1949	1967	1967	1968	1969	1950	1947

Table - 1b.

درجات الحرارة العظمى و الصغرى (سنتغراد) مع مقاييسها الماضية

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS.

	رطبة		حبانية		بغداد		نخيب		حي	
	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	13.4	1.0	16.4	4.5	16.3	3.5	13.0	-1.0	17.8	2.9
2	12.6	-1.6	14.0	4.2	15.0	3.8	13.0	-1.0	17.6	5.3
3	18.0	1.0	15.1	1.5	14.8	0.8	16.0	-1.0	17.7	1.2
4	18.2	4.7	17.5	2.0	17.2	1.4	17.0	1.5	19.7	2.6
5	18.2	3.5	19.2	6.0	19.2	5.1	19.0	4.0	21.4	4.9
6	20.1	3.5	20.8	5.0	21.1	3.6	22.0	3.6	22.8	4.2
7	24.4	2.8	22.4	6.4	21.8	6.0	20.5	3.2	21.4	5.7
8	12.2	7.2	18.7	11.8	19.2	13.2	17.0	1.6	21.2	12.0
9	15.5	3.6	18.2	7.0	17.9	7.5	17.0	4.0	20.0	9.1
10	17.2	2.1	16.6	4.5	17.4	4.0	18.0	3.0	20.8	7.3
11	17.0	4.9	16.8	5.5	17.9	6.1	17.5	4.0	20.0	6.2
12	20.0	5.0	18.4	3.7	19.6	2.8	20.2	3.0	21.2	3.4
13	14.8	7.3	17.5	10.0	17.8	8.6	17.7	3.0	20.6	8.4
14	16.2	1.3	14.5	3.0	15.8	2.4	17.0	2.0	16.7	4.8
15	19.2	2.4	16.0	2.6	16.7	1.7	17.5	3.0	20.0	3.6
16	22.2	5.6	16.8	3.0	18.4	0.4	18.0	4.0	21.0	1.2
17	18.5	7.7	17.6	10.6	19.0	11.0	19.6	6.0	16.8	9.8
18	21.0	9.9	21.4	11.0	22.0	10.5	24.8	8.0	20.7	11.6
19	15.7	5.5	20.2	12.0	21.3	10.6	18.0	7.0	21.4	14.7
20	13.0	2.8	15.4	8.0	16.2	9.4	15.0	4.0	20.0	12.8
21	16.2	2.7	17.0	7.0	17.4	6.2	16.8	5.5	20.7	9.0
22	16.1	4.6	17.0	4.5	18.5	3.0	20.0	7.0	21.2	6.0
23	15.6	3.5	17.6	10.3	16.5	10.5	18.5	7.5	17.7	10.7
24	20.0	5.6	20.4	6.6	21.0	8.2	17.5	7.6	23.0	8.6
25	19.6	5.0	22.5	12.5	22.4	12.0	22.1	7.6	23.7	10.8
26	24.8	7.4	24.0	9.5	24.0	10.5	24.6	6.5	24.6	11.6
27	29.2	11.2	25.0	14.4	24.0	14.0	31.0	10.2	26.9	13.6
28	20.8	13.2	24.0	15.6	24.6	17.0	23.6	12.5	24.6	16.6
MEANS	18.2	4.8	18.6	7.2	19.0	6.9	19.0	4.5	20.8	7.8
NORMAL	15.8	2.5	18.6	5.8	18.5	5.7	....	....	19.8	7.1
HIGHEST	31.7	15.0	30.6	15.6	30.0	17.0	31.0	12.5	29.4	17.3
DAY	24th	?	22&26	21st	26th	28th	27th	28th	27th	25th
YEAR	1941	?	1941	1956	1941	1969	1969	1969	1941	1963
LOWEST	0.6	-10.0	5.6	-5.0	5.5	-6.0	7.5	-7.5	7.2	-4.8
DAY	6th	3rd	6th	8&9th	6th	2nd	2nd	3rd	7th	3rd
Year	1950	1967	1950	1950	1950	1967	1967	1967	1950	1967

TABLE 1 C. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد) مع مقاييسها الماضية

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS.

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	19.2	3.5	18.3	1.5	17.0	3.0	17.0	4.9
2	15.6	4.6	16.0	5.3	14.8	6.2	16.7	5.1
3	16.0	1.2	16.0	2.3	15.0	4.8	16.6	7.0
4	18.5	3.0	17.9	2.8	15.4	2.9	17.8	3.9
5	19.4	4.0	19.5	5.2	16.8	4.6	18.3	4.2
6	20.5	6.2	21.3	5.3	18.0	6.0	21.3	5.2
7	21.4	8.7	22.5	6.1	18.5	10.1	23.3	7.6
8	19.2	4.9	21.2	11.0	20.3	13.4	23.2	15.8
9	19.2	5.8	19.0	8.0	17.0	10.6	17.8	13.3
10	18.7	7.2	18.5	6.0	17.3	7.3	19.0	9.5
11	18.2	6.7	18.3	5.5	17.0	9.8	18.6	9.9
12	20.3	5.2	20.5	6.0	18.7	6.8	19.5	8.3
13	18.4	7.5	19.3	6.3	19.7	9.4	22.0	7.6
14	16.5	4.4	16.7	4.2	15.2	8.2	16.8	9.0
15	17.8	2.8	16.5	4.3	16.0	5.3	17.9	7.0
16	18.4	4.7	18.5	3.2	16.9	3.1	19.2	6.3
17	18.5	5.4	18.0	10.0	16.4	9.4	20.5	8.6
18	21.4	10.4	23.2	10.8	20.3	12.7	22.4	13.0
19	21.2	13.0	21.4	14.5	20.6	14.2	19.2	15.6
20	18.6	8.7	18.3	13.0	19.4	13.1	21.6	13.9
21	19.4	7.2	19.0	8.6	17.3	10.9	18.3	12.9
22	19.5	6.7	19.8	6.5	18.5	8.7	19.6	9.3
23	18.0	8.5	16.0	10.5	15.6	12.2	19.2	11.4
24	20.2	7.6	21.5	9.2	18.2	8.9	23.7	11.3
25	25.4	10.2	24.0	12.0	21.5	10.8	24.7	11.4
26	24.7	9.6	25.0	8.0	23.9	11.6	24.0	14.3
27	28.5	11.5	26.0	13.5	24.6	14.7	28.9	14.0
28	26.2	12.0	22.0	14.0	25.0	18.0	31.0	18.1
MEANS	20.0	6.8	19.8	7.6	18.4	9.2	20.6	9.9
NORMAL	....	....	19.6	4.9	20.5	5.6	20.5	8.5
HIGHEST	29.1	14.5	32.0	14.5	32.6	18.4	31.4	18.4
DAY	22nd	20th	22nd	19th	17th	25th	17th	25th
YEAR	1963	1963	1955	1969	1963	1962	1962	1963
LOWEST	7.4	-4.5	6.6	-7.2	8.9	-3.9	6.8	-4.0
DAY	2nd	3rd	9th	9th	2nd	9th	5th	3rd
YEAR	1967	1967	1949	1950	1967	1950	1967	1967

MONTHLY MEANS: المعدلات الشهرية

TABLE-2. DRY-BULB TEMPERATURES (°C) (سنتغراد) حرارة البصلة الجافة

TIME - G. M. T.

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,,	3.6	5.9	10.0	10.2	8.3	6.3	,,,,	7.2
MOSUL	6.3	5.5	7.4	12.3	14.4	12.0	9.1	7.5	9.3
SALAHADDIN	,,,,	3.0	4.2	7.1	7.7	6.0	4.1	,,,,	5.4
ANA	,,,,	4.8	9.1	13.9	15.9	14.5	11.8	,,,,	11.8
KIRKUK	7.8	7.1	9.3	13.9	15.4	12.6	10.1	9.0	10.7
RUTBAH	7.0	6.2	8.3	15.1	17.6	14.8	11.0	9.0	11.1
HABBANIYA	8.9	7.9	10.6	16.4	19.1	15.5	12.5	10.7	12.6
BAGHDAD	9.8	8.3	11.1	16.6	18.5	16.6	13.1	11.4	13.2
NUKHAIB	,,,,	,,,,	9.2	15.4	18.1	16.7	13.9	,,,,	14.7
HAI	9.6	8.6	12.5	18.7	19.9	16.6	12.8	11.1	13.7
NAJAF	9.5	7.7	10.5	17.1	19.4	17.3	14.0	11.8	13.4
DIWANIYA	9.5	8.1	12.0	17.4	19.5	16.5	13.2	11.4	13.5
NASIRIYA	11.8	10.4	12.1	15.8	17.7	16.9	14.7	13.4	14.1
BASRAH	11.6	10.9	13.4	18.8	19.6	16.7	14.2	13.0	14.8

TABLE 3. WET BULB TEMPERATURE (°C). (سنتغراد) حرارة البصلة الرطبة

SINJAR	,,,,	2.0	3.8	5.9	6.7	5.8	4.4	,,,,	4.8
MOSUL	5.4	4.6	6.0	9.1	9.8	8.9	7.5	6.4	5.2
SALAHADDIN	,,,,	1.6	2.5	4.7	5.2	4.2	2.7	,,,,	3.5
ANA	,,,,	3.7	6.5	9.3	10.5	9.6	8.5	,,,,	8.0
KIRKUK	5.6	5.1	6.6	9.2	9.7	8.8	7.3	6.5	7.4
RUTBAH	4.2	3.8	5.3	8.7	9.8	8.3	6.5	5.4	6.5
HABBANIYA	6.9	6.2	8.3	11.0	11.4	10.6	9.1	8.0	8.9
BAGHDAD	7.3	6.4	8.2	10.9	11.6	11.3	9.1	8.2	9.1
NUKHAIB	,,,,	,,,,	5.9	9.0	10.2	9.5	8.1	,,,,	8.5
HAI	7.8	7.0	9.7	12.9	13.1	12.3	10.0	8.9	10.2
NAJAF	7.3	6.1	8.0	11.4	12.1	11.1	9.8	8.7	9.3
DIWANIYA	7.5	6.6	9.2	11.9	12.6	16.5	9.8	8.7	10.4
NASIRIYA	9.4	8.1	9.1	11.3	12.4	12.4	11.4	10.4	10.6
BASRAH	10.1	9.6	11.2	14.0	14.5	13.1	12.0	11.5	12.0

TABLE 4. DEW POINT (°C) (سنتغراد) درجة الندى

SINJAR	,,,,	-0.8	0.2	1.5	2.0	2.2	1.6	,,,,	1.1
MOSUL	4.1	3.5	4.2	5.4	4.9	5.2	5.5	5.0	4.7
SALAHADDIN	,,,,	-1.2	-0.3	0.9	1.3	1.2	0.3	,,,,	0.4
ANA	,,,,	2.0	4.1	3.9	3.0	3.7	4.3	,,,,	3.5
KIRKUK	2.9	2.3	3.1	3.8	2.6	4.5	3.6	3.5	3.3
RUTBAH	0.0	-0.1	0.2	0.4	-0.8	-0.7	0.2	0.2	-0.1
HABBANIYA	4.6	4.0	5.3	5.1	4.0	4.8	5.3	4.8	4.7
BAGHDAD	4.2	4.0	4.6	4.2	3.5	4.3	4.5	4.3	4.2
NUKHAIB	,,,,	,,,,	1.0	0.7	-0.5	-0.3	0.2	,,,,	0.2
HAI	6.0	5.4	7.2	8.3	7.6	8.7	7.5	6.8	7.2
NAJAF	4.6	3.8	4.9	5.2	4.1	3.9	4.9	5.0	4.6
DIWANIYA	5.1	4.8	6.0	6.0	5.3	6.2	6.0	5.5	5.6
NASIRIYA	6.6	5.2	5.6	6.4	6.8	7.9	7.9	7.2	6.7
BASRAH	6.6	8.2	9.0	9.8	10.1	9.8	10.0	10.1	9.5

TABLE 5. VAPOUR PRESSURE(MILLIBARS) (ملليبارات) ضغط البخار

SINJAR	,,,,	5.9	6.4	6.8	7.2	7.2	6.9	,,,	6.7
MOSUL	8.4	7.9	8.5	9.2	8.8	9.0	9.1	8.9	8.7
SALAHADDIN	,,,	5.8	6.0	6.5	6.9	6.7	6.4	,,,	6.4
ANA	,,,	7.2	7.9	8.2	7.8	8.2	8.5	,,,,	8.0
KIRKUK	7.7	7.5	7.9	8.1	7.7	8.5	8.2	8.1	8.0
RUTBAH	6.1	6.2	6.3	6.1	5.8	5.8	6.2	6.2	6.1
HABBANIYA	8.7	8.4	9.1	9.0	8.4	8.9	9.1	8.9	8.8
BAGHDAD	8.5	8.4	8.8	8.3	8.2	8.6	8.5	8.5	8.5
NUKHAIB	,,,	,,,,	6.5	6.8	6.0	6.2	6.3	,,,,	6.3
HAI	9.5	9.2	10.6	11.1	10.8	11.6	10.7	10.2	10.5
NAJAF	8.7	8.3	9.0	9.1	8.5	8.4	8.9	9.0	8.7
DIWANIYA	9.0	8.9	9.8	9.7	9.2	9.4	9.6	9.2	9.3
NASIRIYA	10.0	9.1	9.3	10.0	10.4	10.9	10.9	10.4	10.1
BASRAH	11.4	11.2	11.7	12.4	12.7	12.4	12.5	12.6	12.1

MONTHLY MEANS : المعدلات الشهرية

TABLE - 6. RELATIVE HUMIDITY (%) الرطوبة النسبية

TIME - G. M. T.

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	74	67	61	58	67	74	,,	67
MOSUL	86	88	81	61	54	64	79	84	75
SALAHADDIN	,,	75	72	67	67	73	76	,,	72
ANA	,,	83	70	52	41	50	61	,,	60
KIRKUK	73	74	67	52	45	59	67	70	64
RUTBAH	62	66	57	36	30	36	48	55	49
HABBANIYA	76	79	71	48	40	51	63	69	62
BAGHDAD	70	76	66	45	38	45	56	63	58
NUKHAIB	,,		55	38	30	33	40	,,	39
HAI	78	81	74	52	46	63	71	75	68
NAJAF	73	77	70	47	38	42	55	65	58
DIWANIYA	74	80	68	48	40	52	64	68	62
NASIRIYA	72	71	66	56	50	56	64	67	63
BASRAH	82	84	75	57	56	65	77	83	72

TABLE - 7 PRESSURE (MBS.) AT M.S.L. الضغط الجوى على سطح البحر ملليبار

SINJAR	,,,,	20.0	20.0	19.5	18.4	18.6	19.3	,,,,	1019.3
MOSUL	20.1	19.9	20.6	20.0	18.2	18.7	19.7	20.0	1019.5
SALAHADDIN	,,,,	19.7	19.4	18.7	17.3	17.9	19.4	,,,,	1018.7
ANA	,,,,	19.3	20.1	19.4	17.6	17.9	18.7	,,,,	1018.8
KIRKUK	19.2	19.0	19.6	18.9	17.2	17.9	18.9	19.2	1018.7
RUTBAH	17.1	17.3	18.5	17.5	16.2	16.7	17.5	17.1	1017.2
HABBANIYA	18.0	18.0	19.0	18.4	16.8	17.2	18.0	17.7	1017.9
BAGHDAD	18.4	18.5	19.8	19.2	17.5	18.0	18.6	18.6	1018.6
NUKHAIB	,,,,	,,,,	20.9	19.5	17.6	17.8	18.4	,,,,	1018.8
HAI	17.7	17.6	19.3	18.2	16.7	17.5	17.6	17.5	1017.8
NAJAF	17.9	17.9	19.1	18.4	16.8	17.0	17.8	17.9	1017.9
DIWANIYA	18.2	18.2	19.4	18.9	17.0	17.4	18.3	17.5	1018.1
NASIRIYA	17.2	17.4	18.7	18.3	16.5	16.7	17.5	17.5	1017.5
BASRAH	17.8	17.9	19.1	18.8	17.2	17.5	18.1	17.9	1018.0

TABLE - 8. TOTAL CLOUD AMOUNTS (OKTAS) مجموع كمية الغيوم (اثمان)

SINJAR	,,,,	3.5	3.3	4.1	4.1	4.3	3.5	,,,	3.8
MOSUL	4.3	4.3	4.6	4.8	5.0	4.4	4.0	3.8	4.4
SALAHADDIN	,,,,	4.6	5.0	4.8	5.2	5.1	4.3	,,,	4.8
ANA	,,,	3.7	3.3	4.0	4.6	4.3	3.3	,,,	3.9
KIRKUK	3.3	4.0	3.9	4.2	4.7	4.3	3.7	3.2	3.9
RUTBAH	2.3	3.4	4.4	5.2	5.8	5.1	3.1	2.3	4.0
HABBANIYA	3.6	4.6	3.7	4.2	4.5	4.5	3.5	3.7	4.0
BAGHDAD	3.3	3.1	4.1	4.5	4.5	4.8	3.7	3.8	4.0
NUKHAIB	,,,,	,,,,	3.2	3.1	4.2	4.4	2.5	,,,,	3.5
HAI	3.1	3.9	4.3	3.9	4.7	4.7	3.7	3.4	4.0
NAJAF	2.9	3.8	4.6	4.7	5.0	4.9	3.2	2.7	4.0
DIWANIYA	2.3	3.3	3.4	4.1	4.6	4.3	2.4	2.3	3.3
NASIRIYA	2.0	3.1	4.6	3.7	4.3	3.6	2.3	2.5	3.3
BASRAH	2.2	3.0	3.9	4.1	4.4	3.8	2.5	2.2	3.3

TABLE - 9. LOW CLOUD (OKTAS) كمية الغيوم الواطئة (اثمان)

SINJAR	,,,,	1.7	1.4	2.0	2.5	2.1	1.7	,,,	1.9
MOSUL	3.3	3.3	3.1	3.5	4.3	3.8	2.8	2.6	3.3
SALAHADDIN	,,,,	3.4	3.6	3.5	4.3	3.8	3.4	,,,,	3.7
ANA	,,,,	1.4	1.0	1.5	1.7	1.4	1.5	,,,,	1.4
KIRKUK	2.6	3.0	2.8	2.7	2.6	2.7	2.0	2.3	2.6
RUTBAH	0.3	0.8	0.8	1.3	2.3	1.9	0.7	0.4	1.6
HABBANIYA	1.0	0.9	0.5	1.1	1.3	1.4	0.9	1.3	1.0
BAGHDAD	0.8	0.8	0.8	0.9	0.9	1.1	0.5	1.2	0.9
NUKHAIB	,,,,	,,,,	0.7	0.9	1.8	1.5	0.6	,,,	1.1
HAI	0.2	0.4	0.8	0.6	0.6	0.5	0.4	0.3	0.5
NAJAF	0.8	1.0	1.2	0.6	0.5	0.6	0.4	0.5	0.7
DIWANIYA	0.2	0.6	0.6	0.4	1.0	1.2	0.5	0.4	0.6
NASIRIYA	0.8	1.5	2.3	1.6	1.6	1.2	0.5	1.0	1.3
BASRAH	0.1	0.1	0.9	0.9	0.9	1.0	0.4	0.4	0.6

FEBRUARY 1969.

TABLE - 10 a.

شباط ١٩٦٩

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND. NUMBER OF OBSERVATIONS OF:

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS السرعة بالعقدة 1-10	11-21	22-33	34+	معدل السرعة بالعقدة MEAN V.K.
سنجار SINJAR	0300	10	3	8	2	0	1	1	1	9	21	5	0	0	7
	0600	7	1	9	0	1	0	4	0	6	14	5	0	0	6
	0900	0	1	13	1	1	0	3	2	7	16	5	0	0	6
	1200	1	0	8	4	3	0	6	2	4	15	9	0	0	8
	1500	3	2	11	2	0	0	3	3	4	18	5	0	0	7
	1800	4	4	7	3	2	1	2	4	1	22	5	2	0	8
	TOTAL	25	11	56	12	7	2	19	12	24	106	36	2	0	7
موصل MOSUL	0000	0	0	3	2	2	0	4	1	16	11	1	0	0	3
	0300	3	0	5	1	2	0	3	3	11	15	2	0	0	4
	0600	3	1	3	4	2	0	4	2	9	17	2	0	0	4
	0900	3	0	3	7	2	0	3	3	7	16	3	0	0	5
	1200	0	0	6	4	3	0	2	4	9	17	2	0	0	3
	1500	0	0	5	3	0	0	3	2	15	13	0	0	0	2
	1800	0	0	1	1	2	0	5	2	17	10	1	0	0	2
	2100	0	0	2	1	0	0	3	1	21	6	1	0	0	2
	TOTAL	9	1	28	23	13	0	27	18	105	107	12	0	0	3
صلاح الدين SALAHADDIN	0300	4	3	5	5	6	0	1	0	4	21	3	0	0	5
	0600	3	2	2	3	9	0	1	0	8	17	3	0	0	5
	0900	0	1	5	2	14	1	0	1	4	22	2	0	0	5
	1200	2	0	1	3	12	2	1	2	5	20	3	0	0	5
	1500	3	1	3	1	4	4	2	0	10	15	3	0	0	4
	1800	4	0	3	2	5	2	0	1	11	14	3	0	0	4
	TOTAL	16	7	19	16	50	9	5	4	42	109	17	0	0	5
عنة ANA	0300	1	0	3	0	6	1	2	5	10	14	3	1	0	6
	0600	2	0	5	1	5	1	7	2	5	19	2	1	1	8
	0900	1	0	8	1	5	1	7	4	1	20	5	2	0	10
	1200	6	0	6	6	0	0	3	5	2	16	8	2	0	10
	1500	8	0	8	3	0	0	3	2	4	18	6	0	0	7
	1800	2	1	7	4	0	0	3	6	5	21	2	0	0	6
	TOTAL	20	1	37	15	16	3	25	24	27	108	26	6	1	8
كركوك KIRKUK	0000	0	0	0	1	1	0	0	1	25	1	2	0	0	1
	0300	0	1	1	1	2	0	1	0	22	6	0	0	0	1
	0600	0	2	0	2	0	0	1	0	23	5	0	0	0	1
	0900	0	2	0	1	4	0	2	1	18	8	2	0	0	3
	1200	0	2	0	3	2	1	4	1	15	12	1	0	0	3
	1500	0	3	0	0	1	1	1	0	22	5	1	0	0	1
	1800	0	2	0	0	1	0	1	0	24	3	1	0	0	1
	2100	0	1	0	0	1	0	1	0	25	2	1	0	0	1
	TOTAL	0	13	1	8	12	2	11	3	174	42	8	0	0	2

FEBRUARY 1959.

(7)

شباط ١٩٥٩

TABLE - 10 b.

SURFACE - WIND NUMBER OF OBSERVATIONS OF: عدد تكرار رصدات الرياح السطحية

STATIONS المحطة	TIME GMT وقت كرينتش	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CALM سكون	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	MEAN V.K. معدل السرعة بالعقد
RUTBAH رطبة	0000	1	1	1	1	3	3	6	0	12	14	2	0	0	4
	0300	0	1	3	1	3	2	10	0	8	19	1	0	0	4
	0600	1	1	1	2	5	8	6	1	3	22	3	0	0	5
	0900	0	0	3	2	[illegible]	2	8	6	4	18	0	1	0	8
	1200	2	0	1	4	5	0	9	3	4	15	8	0	1	8
	1500	2	2	1	4	3	0	7	4	5	17	5	1	0	7
	1800	4	1	3	6	3	0	1	4	6	17	5	0	0	7
	2100	1	1	3	4	3	1	6	2	7	15	6	0	0	6
	TOTAL	11	7	16	24	32	16	49	20	49	137	35	2	1	6
HABBANIYA حبانية	0000	2	1	1	8	0	0	2	3	11	12	4	1	0	7
	0300	2	1	3	3	2	0	1	4	12	11	5	0	0	6
	0600	1	4	3	4	1	0	2	7	6	15	6	1	0	7
	0900	3	1	3	4	3	1	3	7	3	15	9	1	0	10
	1200	4	0	2	6	1	3	3	7	2	16	10	0	0	10
	1500	7	0	1	4	0	2	2	3	9	15	4	0	0	5
	1800	0	0	3	6	0	0	1	5	13	10	4	1	0	5
	2100	0	0	5	4	0	0	0	4	15	7	3	1	0	5
	TOTAL	19	7	21	39	7	6	14	40	71	101	45	7	0	7
BAGHDAD بغداد	0000	1	2	2	5	1	0	1	8	8	12	8	0	0	7
	0300	0	3	2	8	0	0	2	8	5	16	6	1	0	8
	0600	4	0	2	9	1	1	2	5	4	16	7	1	0	9
	0900	2	0	2	6	4	0	2	10	2	13	12	1	0	10
	1200	2	0	0	7	2	1	3	11	2	13	11	2	0	12
	1500	1	0	2	7	1	1	0	14	2	21	5	0	0	8
	1800	1	1	3	7	0	1	1	7	7	14	6	1	0	7
	2100	2	1	1	7	0	1	0	8	8	13	7	0	0	7
	TOTAL	13	7	14	56	9	5	11	71	38	118	62	6	0	9
NUKHAIB نخيب	0600	2	0	4	1	3	1	11	4	2	25	1	0	0	4
	0900	5	1	3	1	3	0	9	3	2	20	6	0	0	7
	1200	6	1	1	5	3	0	8	2	2	23	2	1	0	7
	1500	6	2	7	2	3	0	6	1	1	26	1	0	0	5
	1800	4	1	2	1	1	0	8	3	8	19	1	0	0	3
	TOTAL	24	5	17	10	13	1	42	13	15	113	11	1	0	5
HAI حي	0000	2	1	8	2	1	0	3	8	5	13	7	3	0	10
	0300	3	1	6	4	0	0	5	4	5	13	7	3	0	10
	0600	4	0	7	4	0	0	4	4	5	12	7	4	0	10
	0900	4	1	8	3	2	0	2	7	1	14	6	7	0	12
	1200	5	1	9	2	2	0	1	7	0	17	5	6	0	12
	1500	3	0	8	2	0	0	4	6	5	16	5	2	0	8
	1800	3	0	9	1	2	0	0	8	5	15	5	3	0	8
	2100	0	0	8	1	1	0	2	9	6	12	7	3	0	9
	TOTAL	25	4	63	19	8	0	21	53	32	112	49	31	0	10

TABLE 10 - ج

SURFACE - WIND NUMBER OF OBSERVATIONS OF: عدد تكرار رصدات الرياح السطحية

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V.K.
نجف NAJAF	0000	4	3	0	5	2	0	3	5	6	21	1	0	0	3
	0300	6	3	0	3	4	0	4	6	2	25	1	0	0	4
	0600	1	2	1	2	2	1	8	6	5	22	1	0	0	4
	0900	2	1	2	4	2	0	5	9	3	20	5	0	0	3
	1200	7	2	1	3	3	0	5	5	2	19	6	1	0	7
	1500	5	1	2	4	2	1	1	8	4	19	4	1	0	6
	1800	5	5	0	4	3	0	2	5	4	22	1	1	0	9
	2100	5	4	0	4	3	0	3	3	6	20	2	0	0	5
	TOTAL	35	21	6	29	21	2	31	47	32	168	21	3	0	5
ديوانية DIWANIYA	0000	1	1	3	3	2	0	6	4	8	14	6	0	0	6
	0300	2	1	4	3	0	0	7	1	10	9	9	0	0	6
	0600	1	0	1	6	2	0	6	4	8	15	5	0	0	6
	0900	3	0	1	6	1	1	11	2	3	14	11	0	0	9
	1200	2	0	2	5	0	1	10	3	5	13	7	3	0	9
	1500	4	0	2	5	0	2	5	2	8	14	5	1	0	6
	1800	3	0	2	6	0	0	4	5	8	14	5	1	0	6
	2100	2	0	3	6	0	0	5	3	9	14	5	0	0	7
	TOTAL	18	2	18	40	5	4	54	24	59	107	53	5	0	7
ناصرية NASIRIYA	0000	2	2	0	8	2	2	3	7	2	20	5	1	0	7
	0300	2	0	1	9	1	1	6	5	3	21	4	0	0	6
	0600	1	2	1	6	2	4	4	7	1	22	4	1	0	7
	0900	2	0	5	1	3	2	1	14	0	20	8	0	0	8
	1200	0	0	3	4	1	0	4	16	0	20	7	1	0	9
	1500	1	2	4	4	0	0	5	9	3	19	6	0	0	7
	1800	0	0	6	4	1	0	4	8	5	18	5	0	0	7
	2100	0	2	2	8	1	2	2	9	2	19	7	0	0	7
	TOTAL	8	8	22	44	11	11	29	75	16	159	46	3	0	7
بصرة BASRAH	0000	3	1	2	2	5	1	7	7	0	23	4	1	0	8
	0300	3	1	3	4	4	1	8	4	0	21	7	0	0	7
	0600	2	1	2	4	3	2	10	4	0	18	9	1	0	9
	0900	2	1	0	2	6	1	6	10	0	19	8	0	1	10
	1200	4	1	2	5	1	1	3	11	0	18	9	1	0	10
	1500	3	1	2	5	2	0	8	7	0	24	4	0	0	7
	1800	3	0	3	5	2	0	6	9	0	21	7	0	0	7
	2100	1	1	1	4	5	1	7	8	0	19	9	0	0	8
	TOTAL	21	7	15	31	28	7	55	60	0	163	57	3	1	8

TABLE - 11. اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	25 knots	330°	1800	28th
MOSUL	18	150	0900	18th
SALAHADDIN	20	180	0600	13th
KIRKUK	15	240	1200	8th
ANA	35	260	0600	13th
RUTBAH	35	270	1200	8th
HABBANIYA	30	140	2100	12th
BAGHDAD	26	140	0900	18th
NUKHAIB	25	270	1200	8th
HAI	32	090	1200	17th
NAJAF	25	240	1500	8th
DIWANIYA	25	130	1500	18th
NASIRIYA	25	160	0600	8th
BASRAH	35	160	0900	8th

FEBRUARY 1969.

TABLE - 12 a.

شباط ١٩٦٩

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05 mm

الايام	سنجار	موصل	صلاح الدين	عنة	كركوك	رطبة	حبانية
DAYS	SINJAR	MOSUL	SALAH-ADDIN	ANA	KIRKUK	RUTBAH	HABBANIYA
1		1.3	4.6		2.2	tr	
2							
3							
4							
5							
6							
7					0.4		
8	tr	1.0	15.2		5.3		tr
9	1.1			tr	tr		
10							
11							
12	5.6	2.8	5.0		1.7		
13							
14		0.8					
15							
16	1.1	2.7		tr	5.0	tr	
17	1.3	0.9	tr	tr	0.2		
18	tr				tr		
19		2.4	10.1	1.3	tr		
20							
21							
22	1.8	0.6	1.4	tr	0.6		
23			1.6		tr		
24	3.2	1.5		3.2	1.0		1.0
25	2.3	5.3	1.6		3.3		
26		2.6	5.9		tr		
27	5.7	10.0	17.8	tr	1.7		
28	4.1				tr		
TOTAL	26.2	31.9	63.2	4.5	21.4	tr.	1.0
NORMAL	67.2	66.7	84.7	21.5	66.1	12.6	17.0

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	105.5 mms.	2nd	1952
MOSUL	56.7	21st	1942
SALAHADDIN	87.6	9th	1941
KIRKUK	61.4	18th	1953
ANA	32.0	10th	1941
RUTBAH	35.5	10th	1963
HABBANIYA	30.4	15th	1954

FEBRUARY 1969.

TABLE - 12 b.

(١٥) شباط ١٩٦٩

الهطول اليومي (بالمليمترات)

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05 mm

الايام	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7	0.3						
8	tr.						
9							
10							
11							
12	tr.						
13							
14							
15							
16	0.2	tr.					tr.
17			tr.				
18					tr.	0.3	tr.
19			1.0		2.3	9.2	10.2
20							0.1
21							1.0
22	0.2			tr.	0.6	tr	tr
23			tr.	tr.	0.5	0.6	tr.
24	0.9		tr.	1.3	2.1		
25			tr.				
26							
27	tr.						
28							
TOTAL	1.6	tr	1.0	1.3	5.5	10.1	11.3
NORMAL	24.8	8.3	21.9	8.0	14.3	14.6	17.1

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	47.7 mms.	27th	1962
NUKHAIB	21.5	27th	1966
HAI	26.9	8th	1941
NAJAF	10.0	2nd	1964
DIWANIYA	38.2	1st	1953
NASIRIYA	33.5	25th	1957
BASRAH	29.9	28th	1938

FEBRUARY 1969.

TABLE -12d.

(12)

شباط ١٩٦٩

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION(MILLIMETERS) , tr. <0.05 mm.

الايام	دجيل	ربيعة	فاو	جلولاء	بدعة	تل حكنة	بعقوبة	شرقاط	ديانا
DAYS	DUJAIL	RABIAA	FAO	JALA-WLAA	BADAA	TEL-HIKNA	BAQ-OBA	SHAR-QAT	DIANA
1		24.0							
2									
3						45.0			
4									
5									
6								6.0	
7									5.5
8									37.4
9									
10									
11									
12				10.0				4.0	16.5
13		2.0				7.0			6.1
14									
15				10.0					
16									
17									
18						10.0			
19									23.5
20					5.0				
21									
22			10.0				0.5		1.6
23					2.0				
24	3.3								
25									
26									13.1
27								6.0	58.2
28									8.0
TOTAL	3.3	26.0	10.0	20.0	7.0	62.0	0.5	16.0	169.9

TABLE 12e.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05

الايام	عمادية	عقرة	الكوير	بدرة	سامراء	حويجة	مخمور	معقل	حلة
DAYS	AMADIYA	AQRA	GUAIR	BADRA	SAMI-RAA	HAWI-JAH	MAKH-MOUR	MAQIL	HILLA
1						4.4	4.0		
2									
3									
4					4.0				
5					20.0				
6									
7									
8	60.0	31.3							
9			10.0						
10									
11									
12	90.0	26.2							
13									
14			7.0						
15									
16						3.0			
17			5.0						
18									
19	30.0				17.0	1.3		12.7	
20									
21									
22				7.0					
23									2.5
24			10.0						
25									
26		40.3							
27					4.5				
28			5.0						
TOTAL	180.0	97.8	45.0	7.0	45.5	8.7	4.0	12.7	2.5

FEBRUARY 1969. (14) شباط ١٩٦٩

TABLE 12f. الهطول اليومي (ملليمترات)

DAILY PRECIPITAION (MILLIMETERS), tr. < 0.05 mm.

الايام	علي الغربي	زاخو	افراز	بيجي	كفرى	منصور	بعشيقة	نعمانية	سليمانية
DAYS	ALI-AL GHARBI	ZAKHO	IFRAZ	BAIJI	KOUFRI	MAN-SOOR	BASH-IQA	NUMA-NIYA	SULA-IMANIYA
1			6.9	0.7	4.3		12.0		16.0
2									
3									
4									
5									
6								1.7	
7									
8		9.6	14.5					7.8	36.0
9		2.4			6.1				4.8
10		23.2							
11									
12									8.0
13							2.0		
14			4.7						
15								4.4	
16									4.0
17			1.7						1.6
18	45.0								[illegible]
19	45.0								16.0
20	30.0		19.3	0.5					
21									
22			1.5			1.0			0.8
23									2.4
24		12.4	2.0					2.6	
25				1.7	23.5			4.4	2.4
26		4.6	3.6					4.8	
27			25.5						
28									16.0
TOTAL	75.0	52.2	79.7	2.9	33.9	1.0	14.0	25.7	108.0

FEBRUARY 1969.

TABLE 12B.

شباط ١٩٦٩

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION(MILLIMETERS), tr. < 0.05 mm

الايام	اور	طقطق	فتحة	العظيم	دربند خان	شقلاوة	قادر كرم	صلبي
DAYS	UR	TAQ-TAQ	FATHA	EIDH-AIM	DARBAN-DIKHAN	SHAQ-LAWA	QADIR-KARAM	SLU-BAI
1		7.0	tr.		7.2		2.0	4.0
2		7.5				8.0		
3								
4								
5								
6								
7					tr.			
8					32.8			
9					tr.	55.4		
10		10.0				0.8		
11								
12					4.5			
13		7.0			0.5	29.4		
14						7.4		
15								
16			tr.		6.0			
17		1.0			1.7			3.0
18					tr.	2.3		
19	10.2		tr.		39.0			
20						14.4	25.0	6.0
21							1.0	
22					4.7	2.8		
23		5.0			2.2	1.2		
24	5.1		3.2					
25					3.0		3.0	
26		17.0						2.0
27					1.2	10.5		
28					2.0	28.6		
TOTAL	15.3	54.5	3.2	0.0	104.8	161.6	31.0	15.0

FEBRUARY 1969. TABLE 13. شباط ١٩٦٩ الدرجات اليومية لحرارة الحشيش والتربة (سنتغراد)

DAILY GRASS MINIMUM AND SOIL TEMPERATURES (°C)

الايام	موصل	كركوك			حبانية			بغداد			نجف		ناصرية			بصرة
	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	1.6	3.0	10.5	15.3	3.5	14.0	18.6	-0.8	11.4	18.8	9.5	16.4	1.6	14.1	20.8	-5.3
2	-0.6	-1.1	10.0	15.3	2.5	14.0	18.6	1.3	11.9	18.6	10.0	16.0	5.8	14.5	20.6	-3.3
3	-0.5	-4.6	9.4	15.0	1.0	14.0	18.5	-2.0	11.3	18.5	9.4	16.4	3.9	14.2	20.7	-1.5
4	-0.6	0.3	9.4	15.0	0.9	14.3	18.4	-2.4	10.6	16.4	9.7	16.0	1.0	13.8	20.5	-5.3
5	0.0	2.4	9.4	14.9	4.8	14.8	18.3	0.5	12.0	18.5	10.2	15.8	3.6	13.9	20.6	-4.8
6	0.6	4.2	10.0	14.9	3.5	15.4	18.3	-2.0	12.2	18.5	10.4	15.6	3.0	14.3	20.4	-3.5
7	3.0	3.6	10.5	14.6	5.0	15.5	18.4	5.0	12.8	18.5	12.0	15.6	8.0	14.8	20.4	-4.7
8	3.8	7.4	11.0	14.6	10.1	15.7	18.2	11.5	13.7	18.3	10.4	15.7	12.9	15.8	20.5	10.4
9	2.8	5.6	11.0	14.6	6.1	16.0	18.2	4.5	14.0	18.5	12.7	15.6	9.3	16.4	20.2	5.3
10	0.8	2.5	11.1	14.7	2.7	16.0	18.2	-0.9	13.4	18.4	12.3	15.8	6.9	16.1	20.2	5.6
11	1.2	0.5	10.8	14.9	4.1	16.0	18.4	3.3	13.2	18.2	12.6	16.0	9.2	16.1	20.2	1.0
12	0.8	-1.0	10.5	15.0	2.0	15.8	18.3	-3.0	12.8	18.5	12.0	16.1	5.7	16.0	20.1	-3.0
13	3.0	5.5	11.0	14.8	9.4	16.0	18.4	6.5	13.8	18.4	13.4	16.2	7.9	15.9	20.1	-1.9
14	-1.2	-0.8	10.6	14.5	2.2	16.0	18.4	-1.6	13.0	18.5	12.2	16.0	7.5	15.7	20.2	3.0
15	0.4	-0.5	10.5	14.5	1.1	15.4	18.5	-2.7	12.5	18.5	11.2	16.2	4.4	15.2	20.1	-7.0
16	-0.4	-0.8	10.0	14.7	2.0	15.3	18.3	-4.6	12.0	18.4	11.4	16.3	2.4	14.8	20.1	-6.0
17	3.2	5.3	10.5	14.5	8.9	15.5	18.3	6.5	13.5	18.4	13.0	16.3	9.8	15.2	20.1	-0.8
18	6.0	6.6	11.3	14.5	10.4	15.5	18.4	9.3	14.2	18.4	13.2	16.4	11.9	16.0	20.1	7.6
19	4.0	7.6	12.0	14.5	11.6	16.4	18.4	6.5	14.8	18.4	15.4	16.4	12.7	16.3	20.0	7.5
20	3.6	4.4	12.2	14.5	7.0	16.8	18.3	4.4	15.1	18.4	13.2	16.3	12.0	16.8	20.0	9.6
21	-0.2	2.5	12.1	14.7	6.3	16.6	18.4	0.7	14.2	18.5	14.4	16.5	10.0	18.0	20.0	7.9
22	-0.8	0.5	11.7	14.8	2.8	16.5	18.4	-2.6	13.6	18.5	14.0	16.7	6.6	16.8	20.0	0.5
23	2.0	6.6	11.7	14.7	8.8	16.5	18.5	8.3	14.7	18.6	15.0	16.8	10.8	17.2	20.0	0.7
24	2.0	4.6	12.0	14.9	4.5	16.7	18.4	2.0	15.0	18.7	14.4	17.0	7.8	16.1	20.1	3.8
25	5.0	8.6	12.7	14.8	11.1	17.3	18.4	7.5	15.7	18.7	15.5	17.0	9.9	17.2	20.0	2.5
26	2.0	6.6	12.5	14.9	8.4	17.7	18.5	5.7	16.0	18.7	16.0	17.2	9.2	17.5	20.1	9.0
27	5.8	11.5	13.3	14.9	13.4	18.5	18.5	12.2	17.0	19.0	16.6	17.6	15.1	18.5	20.0	4.4
28	6.8	12.3	13.9	15.0	12.2	18.8	18.7	16.1	17.8	18.9	14.9	17.4	16.2	19.2	21.4	11.6
MEAN.	1.9	3.7	11.1	14.8	5.9	16.0	18.5	3.2	13.7	18.5	12.7	16.3	8.0	15.9	20.3	1.5

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. التبخر اليومي (ملليمترات)

DAYS	MOSUL	KIRKUK	ANAH	RUTBAH	BAGHDAD	NUKHAIB	NAJAF	DI"ANIYA	NASIRIYA	BASRAH
1	3	0	2	3	1	2	1	2	1	2
2	3	1	1	3	3	2	0	2	2	3
3	4	1	0	3	2	3	3	1	1	1
4	4	2	3	3	2	3	2	2	1	2
5	4	3	3	2	3	3	2	2	1	2
6	4	2	4	2	3	3	2	2	3	2
7	3	3	4	3	4	3	2	2	3	4
8	3	3	5	6	5	3	2	5	4	5
9	2	1	1	4	2	3	4	2	2	2
10	3	2	2	3	4	3	1	2	2	3
11	3	2	4	4	3	3	2	1	2	1
12	3	3	5	8	4	4	2	1	2	2
13	4	2	5	3	5	3	2	1	3	3
14	4	3	4	3	4	3	2	1	3	3
15	4	3	3	3	3	3	3	2	2	3
16	5	3	4	3	4	3	3	1	3	3
17	2	2	4	3	5	4	2	5	3	1
18	3	3	3	3	4	4	3	3	2	3
19	2	2	0	4	4	3	2	1	2	1
20	3	2	3	4	3	2	2	4	3	1
21	4	3	3	4	4	3	2	3	2	1
22	5	2	3	5	3	3	3	3	2	4
23	4	1	5	5	2	3	2	2	3	5
24	5	3	0	5	1	3	3	1	1	2
25	5	1	4	4	4	3	4	4	2	2
26	7	2	5	5	5	4	4	3	3	3
27	3	2	5	4	4	5	5	3	3	4
28	5	2	5	5	5	5	5	3	0	4
TOTAL	104	59	90	107	97	89	70	64	61	72
MEANS	4	2	3	4	3	3	3	2	2	3

CLIMATOLOGICAL SUMMARY

الملخصات المناخيـــــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

الجوية و مدة سطوع الشمس

عدد الايام التي حدثت فيها الظواهر

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	9	0	0	0	0	8	0	0	0	0	3	4	3	-	-	-	-
MOSUL	12	0	0	0	0	10	2	0	1	0	1	6	6	170.0	10.7	14th	1
SALAHADDIN	9	1	0	0	2	1	0	1	0	0	10	4	11	-	-	-	-
KIRKUK	10	0	0	0	0	0	6	0	3	0	3	6	5	-	-	-	-
ANAH	2	0	0	1	2	3	0	4	4	0	2	4	4	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	5	3	1	1	1	3	-	-	-	-
HABBANIYA	1	0	0	1	1	11	7	7	6	6	0	4	2	184.3	10.5	2nd	2
BAGHDAD	4	0	0	0	0	10	11	6	3	2	9	2	3	194.0	10.1	15th	0
NUKHAIB	0	0	0	0	0	0	0	0	1	1	3	7	3	-	-	-	-
HAI	1	0	0	0	0	1	0	11	4	0	0	5	5	-	-	-	-
NAJAF	1	0	0	0	0	1	0	5	6	3	0	3	3	-	-	-	-
DIWANIYA	4	0	0	0	0	2	0	9	7	3	0	3	1	-	-	-	-
NASIRIYA	3	0	0	0	0	4	0	4	5	0	0	6	3	-	-	-	-
BASRAH	2	0	0	0	2	1	0	3	3	0	5	7	0	188.1	10.3	3rd	2

TABLE-15. HIGHEST & LOWEST RECORDS OF PRESSURE AT MSL & RELATIVE-HUMIDITY

اعلى و اوطى ضغط جوي و الرطوبـــة النسبيـــة

STATION	PRESSURE AT MSL FOR 1969 - mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE-HUMIDITY % - 1969. HIGH	TIME EST	TIME GMT.	DAY	LOW	TIME EST	TIME GMT.	DAY
SINJAR	1028.7	0600	1st	1006.0	1200	8th	1031.3	1800	4th	1968	1000.3	1200	2nd	1967	97	0300	1st	40	0900		11th
MOSUL	1031.3	0600	2nd	1005.2	1200	8th	1035.8	0600	8th	1950	1000.8	1500	22nd	1952	97	0300	28th	34	1200		5th
SALAHADDIN	1030.2	0600	2nd	1009.7	1200	8th	1030.2	0600	2nd	1969	1001.2	1500	23rd	1967	100	[illegible]	20th	23	0900		5th
KIRKUK	1029.9	0600	2nd	1006.1	1200	8th	1034.4	0600	8th	1950	1000.3	0300	26th	1949	93	0300	9th	20	0900		15th
ANAH	1032.3	0600	2nd	1007.6	0600	8th	1032.3	0600	2nd	1969	1006.1	1500	20th	1968	100	0600	2nd	19	1200		14th
RUTBAH	1032.1	0600	2nd	1008.8	0000	8th	1037.9	0600	8th	1950	999.0	1300	8th	1941	94	0300	2nd	12	1200		27th
HABBANIYA	1029.8	0600	2nd	1007.9	0000	8th	1030.6	0600	2nd	1967	1003.0	1500	[illegible]	1965	92	0000	1st	22	1500		21st
BAGHDAD	1029.0	0900	2nd	1007.8	0300	8th	1033.7	0600	8th	1950	998.4	1800	2nd	1956	94	0300	2nd	20	0900		16th
NUKHAIB	1031.6	0600	2nd	1010.0	1500	18th	1034.[illegible]	0600	2nd	1967	1003.8	1500	22nd	1965	78	0600	20th	10	1200		6th
HAI	1028.1	0000	1st	1008.7	0900	8th	1032.[illegible]	0600	8th	1950	1000.3	0000	29th	1956	97	0300	2nd	31	1200		15th
NAJAF	1029.0	0600	2nd	1007.1	0300	8th	1029.9	0600	2nd	1967	1002.8	0000	25th	1963	97	0300	8th	23	1200		14th
DIWANIYA	1028.2	0600	2nd	1008.1	0600	8th	1034.9	0600	8th	1950	997.9	2100	28th	1956	95	0300	20th	26	1200		14th
NASIRIYA	1027.3	0600	3rd	1009.1	0900	8th	1033.3	0600	8th	1950	998.1	2100	28th	1956	94	0300	20th	29	1200		16th
BASRAH	1026.9	0600	4th	1011.3	1200	8th	1031.7	0600	8th	1950	999.8	1200	5th	1951	97	2100	26th	37	1200		16th

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية

العامة

مديرية احصائيات المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٢

العدد : ٣

الشهر : آذار

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 3

Month : MARCH

Year : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at MSL	7	5
= = low-cloud-amount	8	5
= = total-cloud-amount	9	5
Surface Wind, number of observations of	10a-c	6-8
Highest wind-speed during an hour	11	8
Daily precipitation	12a-g	9-15
Daily grass-minimum & soil temperatures	13	16
Daily evaporation	14	17
Climatological summaries	15	18
Highest, Lowest and Records of Pressure and Humidity	16	18
Upper air climatological data for Baghdad Radiosonde	17	19
Mean & Extreme values of the freezing level, the tropopause and the maximum wind in upper air, Baghdad	18	20

Note: Geographical data and notes on tables see : January 1969.

MARCH - 1969. آذار ١٩٦٩

TABLE 1a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد) مع المقاييس الماضية

DAILY MAXIMUM & MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS

	سنجار		موصل		صلاح الدين		كركوك		عنة	
	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	16.1	2.8	19.0	5.8	11.7	4.6	20.0	8.6	20.5	7.5
2	10.1	3.3	15.0	8.3	11.7	5.2	19.9	9.2	21.6	9.6
3	14.6	3.5	19.4	9.8	15.1	5.3	22.4	11.0	23.0	10.5
4	17.0	6.3	22.0	8.5	15.2	6.4	21.8	9.7	24.0	9.2
5	16.0	7.1	17.2	8.4	13.4	7.4	18.7	9.8	21.8	8.6
6	15.2	7.0	18.3	10.8	12.4	6.3	20.5	12.7	28.4	10.4
7	13.0	6.3	16.0	8.3	13.9	7.6	21.1	13.1	20.0	11.6
8	11.6	4.4	15.4	9.7	9.7	4.2	17.9	10.5	19.6	9.6
9	13.5	5.6	16.8	9.2	11.4	5.2	18.7	9.4	22.7	6.2
10	10.6	5.3	16.2	11.8	11.5	4.0	19.6	11.7	18.5	11.2
11	9.7	4.1	17.7	7.9	11.5	4.0	19.2	8.4	20.0	8.0
12	13.3	4.3	20.0	6.4	14.2	5.0	20.0	7.8	21.0	4.2
13	14.1	4.5	20.8	6.8	15.0	5.4	20.4	9.1	23.5	5.8
14	13.1	4.6	16.8	9.8	10.0	7.4	20.9	11.1	18.5	12.2
15	14.1	4.4	15.4	9.4	10.0	5.5	15.0	10.2	20.0	10.2
16	13.7	3.8	20.8	8.9	12.0	5.5	20.8	9.4	23.8	8.4
17	17.6	7.2	22.4	12.0	16.4	7.0	24.0	10.3	25.5	10.2
18	16.5	9.6	21.2	11.5	17.0	9.0	23.0	12.5	26.0	15.7
19	16.0	8.3	20.5	12.8	14.5	7.4	21.9	13.8	22.8	11.0
20	13.8	7.2	18.4	12.2	12.5	5.5	20.1	11.4	21.5	10.5
21	13.1	6.1	18.4	9.0	10.0	6.5	19.2	12.9	19.7	10.1
22	10.7	4.6	18.7	10.3	8.5	6.0	18.0	11.0	20.5	8.8
23	11.8	5.3	17.4	10.2	10.0	3.5	16.3	9.5	19.0	9.0
24	15.3	7.2	18.8	10.2	11.1	3.5	17.9	9.6	21.5	10.4
25	17.2	8.0	18.9	9.0	10.5	4.1	19.8	10.2	26.5	9.1
26	17.8	9.2	22.6	10.2	15.4	6.5	22.5	12.7	25.5	9.4
27	15.3	9.4	18.2	12.1	14.9	8.2	21.9	13.0	27.6	9.2
28	21.2	10.1	25.1	9.0	18.9	9.3	24.5	15.6	27.5	11.4
29	19.1	10.0	23.9	9.8	18.3	9.1	25.1	13.2	28.4	10.8
30	18.5	10.3	22.5	13.7	17.8	10.3	23.0	17.6	26.0	14.5
31	19.4	10.5	23.3	12.0	18.3	9.7	25.9	13.0	30.0	12.0
MEANS	14.8	6.5	19.3	9.8	13.3	6.3	20.6	11.2	23.1	9.9
NORMALS	....	....	19.1	5.7	....	....	18.7	7.8	....	....
HIGHEST	26.7	15.2	30.6	16.6	18.9	10.3	34.4	19.7	30.0	15.7
DAY	3rd	6th	24th	14th	28th	30th	24th	22nd	31st	18th
YEAR	1962	1965	1962	1944	1969	1969	1962	1958	1969	1969
LOWEST	5.7	0.0	5.0	-3.9	1.7	-1.5	5.0	-5.6	15.6	1.0
DAY	7th	20th	1st	3rd	27th	28th	2nd	14th	15th	16&17
YEAR	1967	1963	1928	1948	1967	1967	1959	1945	1968	1968

TABLE 1b درجات الحرارة العظمى و الصغرى اليومية (سنتغراد) مع اعلى بيم الماضية

DAILY MAXIMUM & MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS

	رطبة		حبانية		بغداد		نخيب		حي	
	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	22.2	6.0	22.0	9.0	22.7	8.4	22.8	9.2	25.6	13.0
2	29.0	8.0	24.6	10.2	25.1	10.0	28.0	9.8	28.0	12.0
3	21.2	9.0	23.6	13.4	25.2	15.8	23.0	12.1	27.8	15.4
4	23.4	9.0	24.9	12.7	25.4	15.0	23.2	12.3	29.4	16.8
5	26.0	10.0	24.0	12.0	25.2	15.0	24.6	9.2	29.8	14.3
6	30.0	16.0	28.0	14.9	25.8	15.3	30.6	13.1	26.9	14.4
7	29.6	11.5	27.5	14.5	28.7	16.5	31.0	14.6	30.2	14.2
8	17.2	9.4	21.0	13.2	24.0	15.0	21.6	14.1	26.4	19.4
9	22.0	6.7	24.0	10.0	23.8	10.0	24.0	11.2	25.9	12.0
10	20.0	12.0	26.6	15.0	28.3	17.1	26.5	10.3	30.0	16.4
11	18.2	5.0	21.0	11.0	21.4	12.0	21.0	8.6	22.6	16.6
12	20.2	3.5	23.5	8.2	23.1	7.5	22.6	7.2	23.0	10.1
13	22.6	7.0	26.0	9.5	25.4	13.1	25.3	9.1	30.0	13.4
14	24.5	11.0	27.6	13.8	29.2	13.7	27.0	8.8	29.0	12.4
15	18.0	6.8	22.5	13.0	22.2	13.2	21.5	7.4	24.9	13.4
16	24.0	7.3	25.0	13.0	24.9	10.7	25.7	7.6	27.0	12.1
17	26.4	9.8	27.0	11.7	27.0	11.6	29.5	11.1	29.0	12.2
18	22.2	11.5	30.5	14.4	30.2	15.6	29.8	11.5	29.9	14.1
19	18.5	10.0	27.0	15.5	30.1	17.5	25.6	14.6	28.4	16.9
20	19.0	6.0	26.5	16.0	25.7	15.0	22.5	11.4	26.0	18.3
21	19.8	9.7	23.5	15.0	25.7	14.8	26.0	10.1	28.5	15.1
22	17.0	7.5	23.2	11.5	22.6	11.4	21.6	10.1	25.2	16.5
23	17.0	7.0	21.0	12.4	20.1	12.0	20.5	9.5	20.0	14.2
24	19.8	6.8	22.5	10.6	22.5	10.5	20.6	7.8	24.1	8.8
25	26.9	6.7	26.0	13.5	25.3	11.4	26.0	7.6	26.9	10.4
26	26.0	11.4	27.6	13.8	28.0	15.3	28.6	13.6	29.6	13.4
27	32.0	14.0	31.0	15.0	31.0	15.0	35.2	13.0	30.2	15.2
28	27.0	12.4	28.6	17.0	28.9	14.7	30.6	17.5	32.5	20.4
29	31.9	12.1	31.0	14.5	30.8	14.3	30.0	15.6	32.2	16.3
30	26.0	14.4	28.0	18.5	29.3	21.2	29.5	13.0	29.2	19.8
31	34.0	9.4	32.0	14.6	31.0	16.6	30.5	15.0	33.0	16.4
MEANS	23.6	9.3	25.7	13.1	26.1	13.7	26.0	11.2	27.8	14.6
NORMALS	17.2	5.4	20.8	7.8	22.2	9.2	....	....	23.5	11.4
HIGHEST	36.2	18.0	36.1	20.0	34.2	21.2	35.2	17.5	35.0	20.5
DAY	25th	31st	24th	22nd	24th	30th	27th	28th	24th	28th
YEAR	1962	1954	1962	1957	1962	1969	1969	1969	1962	1944
LOWEST	4.2	-6.1	10.4	-2.8	10.0	-2.8	8.1	-1.4	11.7	0.0
DAY	19th	14th	12th	1st	1st	5th	10th	12th	12th	4th
YEAR	1963	1939	1961	1938	1938	1952	1963	1963	1961	1959

TABLE-1c. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد) مع المقاييس الماضية

DAILY MAXIMUM & MINIMUM TEMPERATURES (°C) WITH THEIR RECORDS

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	24.6	11.0	24.1	15.0	24.7	15.3	25.5	17.4
2	27.0	12.2	28.0	13.0	25.9	13.4	26.8	15.9
3	28.5	15.5	30.6	15.7	27.7	17.4	25.5	16.2
4	26.9	16.4	27.3	17.0	26.0	17.4	29.4	17.8
5	26.6	12.5	27.3	15.2	26.6	16.0	29.6	16.6
6	27.5	15.7	26.1	14.4	25.9	15.0	29.7	16.4
7	31.9	18.4	31.6	17.0	27.8	19.6	30.4	19.8
8	27.4	15.3	23.3	17.6	24.8	20.4	31.3	21.3
9	25.4	11.8	25.3	9.6	25.6	14.7	30.6	16.8
10	35.7	16.2	33.0	15.4	29.2	18.5	30.2	18.5
11	22.5	14.5	22.6	16.0	21.5	17.7	24.2	20.1
12	23.5	11.0	23.5	10.8	23.3	13.1	23.2	16.6
13	26.5	11.4	27.3	13.0	26.5	14.5	28.5	16.2
14	29.3	12.6	30.0	12.0	29.2	15.1	33.0	17.1
15	24.8	14.4	23.5	13.3	23.3	17.2	24.5	21.2
16	27.0	13.8	26.0	13.0	25.2	14.2	26.5	15.6
17	29.4	13.3	28.0	11.2	27.2	14.2	27.7	15.4
18	33.4	14.2	30.5	12.0	28.7	14.0	32.0	16.0
19	28.5	17.3	29.0	16.8	31.2	18.4	31.9	19.8
20	26.2	17.4	26.0	18.0	24.9	18.5	28.1	21.3
21	29.5	13.8	29.0	15.0	30.0	15.8	31.0	18.7
22	25.5	13.6	25.5	14.3	25.5	18.0	26.1	22.0
23	23.0	12.8	21.5	12.5	20.5	14.4	22.6	15.1
24	26.2	11.0	24.0	9.6	22.4	12.2	24.6	12.9
25	27.4	11.4	26.7	10.5	25.1	13.0	25.7	14.1
26	32.2	16.8	31.0	15.5	31.9	15.9	30.9	15.4
27	32.4	15.0	30.0	14.0	26.7	16.2	31.2	17.0
28	31.4	20.6	31.5	19.5	31.6	21.3	33.5	20.5
29	32.0	17.5	33.0	19.5	31.5	20.1	30.9	18.5
30	33.3	18.0	31.0	20.7	29.0	21.5	32.3	20.8
31	34.7	16.6	31.6	15.3	31.7	19.0	34.2	20.1
MEANS	28.4	14.3	27.8	14.6	26.8	16.5	28.8	17.8
NORMALS	....	....	23.9	8.9	24.5	10.9	24.5	12.6
HIGHEST	35.7	20.6	36.1	21.1	39.3	23.4	37.6	23.4
DAY	10th	28th	14th	28th	16th	22nd	27th	22nd
YEAR	1969	1969	1944	1944	1959	1958	1962	1958
LOWEST	13.0	2.2	11.2	-3.2	11.0	0.0	12.5	1.9
DAY	10th	20th	12th	1st	11th	4th	11th	9th
YEAR	1963	1963	1961	1959	1961	1959	1961	1959

MONTHLY MEANS : المعدلات الشهرية

TABLE-2. DRY-BULB TEMPERATURE (°C) (سنتغراد) حرارة البصلة الجافة

STATION	TIME - G. M. T.								
STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.6	11.1	13.4	14.3	13.4	11.1	....	12.0
MOSUL	11.5	10.8	14.3	16.5	18.0	16.5	14.0	12.6	14.3
SALAHADDIN	....	7.7	9.2	11.8	12.1	10.6	9.1	....	10.1
KIRKUK	13.4	12.6	15.1	18.8	19.8	17.7	15.5	14.4	15.9
ANAH	....	10.5	14.6	20.2	22.5	20.4	17.4	....	17.6
RUTBAH	10.9	10.1	13.8	20.0	22.8	20.4	16.3	13.3	16.0
HABBANIYA	14.9	13.6	17.4	23.8	25.1	22.9	18.7	16.8	19.1
BAGHDAD	16.4	14.9	18.2	23.3	25.2	23.6	20.3	17.7	20.0
NUKHAIB	....	....	16.7	22.2	25.2	24.2	21.6	....	22.0
HAI	16.4	15.6	19.9	25.5	27.0	23.3	19.6	18.1	20.7
NAJAF	16.8	15.1	18.9	25.2	27.7	25.2	21.4	19.1	21.2
DIWANIYA	16.7	15.1	19.3	25.0	27.4	24.4	20.4	18.2	20.8
NASIRIYA	19.0	17.5	20.4	24.5	26.1	24.7	22.2	20.6	21.9
BASRAH	19.4	18.6	21.9	26.6	27.6	24.4	22.0	20.6	22.6

TABLE-3. WET-BULB TEMPERATURES (°C) (سنتغراد) حرارة البصلة الرطبة

SINJAR	....	6.9	8.9	10.5	11.5	10.5	8.7	....	9.4
MOSUL	10.6	10.0	11.6	14.2	14.4	13.8	12.5	11.6	12.3
SALAHADDIN	....	6.4	7.4	9.4	9.7	8.7	7.6	....	8.2
KIRKUK	11.1	10.3	12.1	13.8	14.2	13.7	12.5	11.8	12.4
ANAH	....	8.9	11.4	13.6	14.5	13.8	12.8	....	12.5
RUTBAH	7.8	7.3	9.4	12.0	13.0	12.1	10.5	9.4	10.2
HABBANIYA	12.1	11.4	13.1	15.6	16.1	15.6	14.1	13.5	14.0
BAGHDAD	12.7	11.9	13.7	15.5	15.9	15.2	14.3	13.2	14.1
NUKHAIB	....	....	11.3	13.2	14.2	13.8	12.8	....	13.0
HAI	13.5	13.1	15.6	17.4	18.4	17.0	15.2	14.4	15.6
NAJAF	12.7	11.6	13.5	15.8	16.2	15.7	14.7	13.8	14.3
DIWANIYA	12.9	12.0	14.4	16.5	17.1	16.1	14.7	13.7	14.7
NASIRIYA	14.9	13.8	15.6	16.8	17.4	17.3	16.6	15.7	16.0
BASRAH	16.8	16.1	17.6	19.4	19.7	18.5	17.6	17.1	17.9

TABLE-4. DEW - POINT (°C) (سنتغراد) درجة الندى

SINJAR	....	4.7	6.4	7.5	7.9	7.4	5.9	....	6.6
MOSUL	9.4	9.2	10.2	11.8	11.4	11.3	11.2	10.6	10.7
SALAHADDIN	....	4.6	5.2	6.7	6.7	6.4	5.9	....	5.9
KIRKUK	8.8	8.3	9.3	9.2	9.1	10.2	9.6	9.3	9.2
ANAH	....	7.2	8.0	7.4	6.9	7.4	8.4	....	7.6
RUTBAH	3.6	3.7	4.0	2.8	2.0	2.4	3.8	4.3	3.3
HABBANIYA	9.5	9.1	9.8	9.0	8.5	9.5	10.2	9.6	9.4
BAGHDAD	9.3	9.0	9.7	9.0	7.8	7.7	9.0	9.2	8.8
NUKHAIB	....	....	5.8	3.5	2.6	2.8	3.4	....	3.6
HAI	11.4	11.2	12.9	12.9	13.4	13.1	12.3	11.9	12.4
NAJAF	8.8	8.1	8.5	7.5	6.1	7.2	9.1	9.1	8.1
DIWANIYA	9.8	9.1	10.2	9.5	8.7	9.1	9.7	9.8	9.5
NASIRIYA	11.2	10.5	11.5	10.7	10.6	11.5	12.2	11.6	11.2
BASRAH	14.9	14.3	14.6	14.6	14.4	14.4	14.3	14.5	14.5

TABLE- 5. VAPOUR-PRESSURE (Mbs.) ضغط البخار (ملليبارات)

SINJAR	....	8.7	9.8	10.5	10.8	10.4	9.5	....	10.0
MOSUL	12.0	11.6	13.2	13.9	13.6	13.6	13.4	12.2	12.9
SALAHADDIN	....	8.5	8.9	9.9	9.7	9.4	9.3	....	9.3
KIRKUK	11.5	11.0	11.8	11.8	11.8	12.6	12.1	11.9	11.8
ANAH	....	10.3	10.9	10.5	10.1	10.7	11.2	....	10.6
RUTBAH	8.0	8.1	8.3	7.6	7.2	7.5	8.2	8.5	7.9
HABBANIYA	12.0	11.7	12.3	11.7	11.6	11.9	12.6	11.2	12.0
BAGHDAD	11.8	11.5	12.2	11.5	10.6	10.6	11.7	11.7	11.5
NUKHAIB	....	....	9.2	7.9	7.4	7.6	7.8	....	8.0
HAI	13.6	13.4	14.6	15.1	15.5	15.6	14.5	13.7	14.5
NAJAF	11.5	11.0	11.2	10.5	9.6	10.3	11.5	11.7	10.9
DIWANIYA	12.2	11.7	12.6	12.3	11.4	11.7	12.2	12.2	12.0
NASIRIYA	13.5	12.9	13.7	13.1	13.1	14.0	14.5	13.9	13.6
BASRAH	17.1	16.4	16.9	16.9	16.7	16.6	16.7	16.7	16.8

MONTHLY MEANS : المعدلات الشهرية

TABLE-6. RELATIVE-HUMIDITY (%) الرطوبة النسبية

TIME - G. M. T.

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	78	74	68	66	68	72	..	71
MOSUL	89	89	84	72	67	73	84	87	81
SALAHADDIN	..	82	78	73	71	77	82	..	77
KIRKUK	76	77	70	56	53	64	71	75	68
ANAH	..	81	66	45	38	45	58	..	56
RUTBAH	63	67	55	35	28	34	47	57	48
HABBANIYA	71	76	63	41	36	44	60	63	56
BAGHDAD	64	67	58	41	34	37	49	59	51
NUKHAIB	..	..	50	30	24	26	31	..	32
HAI	73	76	64	47	44	54	63	68	61
NAJAF	61	64	52	34	27	33	45	53	46
DIWANIYA	65	68	56	39	32	38	51	59	51
NASIRIYA	62	65	57	43	39	45	54	58	53
BASRAH	76	77	65	49	46	55	64	69	63

TABLE-7. PRESSURE at M.S.L. (Mbs.) الضغط الجوي على سطح البحر (ملليبارات)

SINJAR	....	13.1	13.2	12.9	11.8	11.9	13.0	....	1012.7
MOSUL	12.9	13.0	14.0	13.4	11.9	11.7	12.8	12.9	1012.8
SALAHADDIN	....	13.5	13.3	12.5	11.4	11.8	12.8	....	1012.6
KIRKUK	12.4	12.8	13.4	12.7	11.4	11.4	12.5	12.4	1012.4
ANAH	....	12.6	13.5	12.4	10.5	10.5	11.9	....	1011.9
RUTBAH	10.9	11.3	12.0	11.4	09.6	09.8	10.9	10.7	1010.8
HABBANIYA	11.3	11.2	12.8	12.0	10.7	10.1	10.8	11.1	1011.2
BAGHDAD	11.6	12.0	13.4	13.0	11.0	10.8	11.7	11.6	1011.9
NUKHAIB	....	....	13.4	12.1	09.9	09.7	10.5	....	1011.1
HAI	10.9	11.4	12.8	12.5	10.7	10.5	11.1	11.2	1011.4
NAJAF	11.8	11.5	13.1	12.4	10.2	10.1	10.7	11.0	1011.4
DIWANIYA	11.5	11.6	13.1	12.9	10.8	10.1	11.2	11.6	1011.6
NASIRIYA	10.7	11.3	12.8	12.3	10.3	10.0	10.8	10.6	1011.1
BASRAH	11.2	11.8	13.5	13.2	11.2	11.1	11.9	11.6	1011.9

TABLE-8. LOW-CLOUD-AMOUNT (OKTAS) كمية الغيوم الواطئة (اثمان)

SINJAR	....	2.6	2.2	3.3	4.2	2.6	1.9	...	2.8
MOSUL	4.3	4.6	4.8	5.3	5.0	4.0	4.3	4.1	4.6
SALAHADDIN	....	5.3	5.3	5.3	5.1	5.2	5.0	...	5.2
KIRKUK	3.2	3.2	3.2	3.4	3.8	4.0	3.9	3.8	3.6
ANAH	...	1.7	1.5	2.0	2.4	2.2	1.9	...	1.9
RUTBAH	0.4	0.6	1.1	1.8	2.9	2.7	1.4	0.9	1.4
HABBANIYA	0.6	0.9	0.5	1.0	1.6	1.9	1.5	1.1	1.1
BAGHDAD	0.6	1.5	0.9	1.1	2.0	1.0	1.3	1.5	1.2
NUKHAIB	...	...	0.5	1.0	1.8	2.3	2.2	...	1.6
HAI	0.9	1.3	0.9	0.6	0.7	0.8	0.7	0.6	0.8
NAJAF	0.9	1.0	1.2	1.1	1.3	1.3	0.9	0.8	1.1
DIWANIYA	1.2	1.0	0.7	0.7	0.8	0.5	1.0	1.0	0.9
NASIRIYA	2.8	3.1	2.0	1.8	1.7	1.7	1.4	1.8	2.0
BASRAH	0.5	0.9	0.7	1.4	1.1	0.4	0.4	0.6	0.8

TABLE-9. TOTAL-CLOUD-AMOUNT (OKTAS) مجموع كمية الغيوم (اثمان)

SINJAR	...	6.1	5.9	5.9	6.0	5.8	4.5	...	5.7
MOSUL	5.7	6.0	6.3	6.6	7.0	6.4	5.7	5.8	6.2
SALAHADDIN	...	6.2	6.5	6.3	6.5	6.6	6.1	...	6.4
KIRKUK	5.8	5.7	6.2	6.1	6.1	6.3	5.4	5.4	5.9
ANAH	...	5.2	5.2	5.2	5.7	5.8	4.7	...	5.2
RUTBAH	3.1	4.2	5.2	5.8	6.2	6.4	4.4	4.0	4.9
HABBANIYA	5.0	5.5	4.6	4.9	5.6	5.7	5.2	4.9	5.2
BAGHDAD	5.0	5.5	5.6	5.5	6.4	5.4	4.9	5.3	5.5
NUKHAIB	...	...	3.7	5.0	5.0	5.2	4.4	...	4.7
HAI	4.1	5.8	6.1	6.3	6.1	5.8	4.3	4.2	5.3
NAJAF	4.7	5.0	5.4	5.5	5.9	5.5	4.7	5.6	5.2
DIWANIYA	3.3	4.6	4.4	4.3	4.9	4.7	2.8	3.0	4.0
NASIRIYA	3.9	4.8	4.7	3.8	4.9	5.1	2.7	3.5	4.2
BASRAH	3.3	3.9	4.5	4.8	4.3	4.2	3.0	2.9	3.9

TABLE-10a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 &	معدل سرعة بالعقد MEAN V. K.
سنجار SINJAR	0300	7	2	13	2	3	1	2	1	0	27	4	0	0	6
	0600	2	5	8	1	4	1	2	3	5	21	5	0	0	6
	0900	2	1	10	7	3	0	5	1	1	22	8	0	0	7
	1200	0	4	13	1	3	5	4	0	1	23	7	0	0	8
	1500	1	0	15	3	7	0	3	1	1	27	3	0	0	5
	1800	2	0	9	7	5	4	2	1	1	30	0	0	0	6
	TOTAL	15	12	68	21	25	11	18	7	9	150	27	0	0	6
موصل MOSUL	0000	2	0	5	4	3	0	2	2	13	16	1	1	0	4
	0300	0	0	2	7	2	0	7	2	11	19	1	0	0	3
	0600	2	0	0	3	9	0	1	2	14	16	1	0	0	3
	0900	1	0	7	9	7	0	1	0	6	24	1	0	0	4
	1200	1	1	4	9	3	0	4	3	6	23	2	0	0	5
	1500	0	1	4	3	1	0	1	5	16	15	0	0	0	2
	1800	1	0	5	3	4	0	2	4	12	18	1	0	0	3
	2100	2	0	2	4	4	0	2	3	14	17	0	0	0	3
	TOTAL	9	2	29	42	33	0	20	21	92	148	7	1	0	4
صلاح الدين SALAHADDIN	0300	2	2	1	12	13	0	0	0	1	28	2	0	0	7
	0600	3	0	2	9	13	1	0	0	3	23	4	1	0	7
	0900	4	0	2	6	13	5	0	0	1	21	7	2	0	9
	1200	3	0	1	4	16	5	0	0	2	19	6	4	0	10
	1500	5	0	2	3	12	5	2	0	2	20	6	2	1	10
	1800	2	2	3	3	15	3	0	1	2	22	4	1	2	9
	TOTAL	19	4	11	37	82	19	2	1	11	133	29	10	3	9
كركوك KIRKUK	0000	0	1	3	2	0	0	0	0	25	4	2	0	0	2
	0300	1	2	1	1	1	0	1	1	23	8	0	0	0	2
	0600	0	1	2	4	3	1	0	0	20	11	0	0	0	2
	0900	0	2	1	4	9	1	0	0	14	15	2	0	0	4
	1200	0	3	1	3	6	2	5	0	11	19	1	0	0	4
	1500	0	3	0	1	2	2	1	0	22	8	1	0	0	2
	1800	0	2	0	2	1	1	3	0	22	6	3	0	0	3
	2100	0	2	5	0	0	0	0	0	24	5	2	0	0	2
	TOTAL	1	16	13	17	22	7	10	1	161	76	11	0	0	3
عانة ANAH	0300	3	1	3	1	1	3	6	1	12	11	8	0	0	6
	0600	4	0	2	4	2	1	8	1	9	8	14	0	0	8
	0900	1	0	2	9	4	1	8	4	2	15	14	0	0	11
	1200	3	2	3	7	2	3	7	4	0	19	11	1	0	10
	1500	2	3	5	2	3	1	6	5	4	19	7	1	0	9
	1800	5	1	5	3	3	1	6	4	3	16	12	0	0	9
	TOTAL	18	7	20	26	15	10	41	19	30	88	66	2	0	9

TABLE 10b.

SURFACE-WIND, NUMBER OF OBSERVATIONS OF : عدد تكرار رصدات الرياح السطحية

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V. K.
رطبة RUTBAH	0000	2	1	1	1	2	2	10	1	11	14	6	0	0	6
	0300	3	0	2	1	2	1	14	0	8	16	7	0	0	7
	0600	1	2	3	4	1	2	14	0	4	17	10	0	0	8
	0900	0	2	1	6	4	2	12	2	2	11	18	0	0	11
	1200	1	0	1	2	7	3	14	2	1	12	12	6	0	13
	1500	3	3	4	3	1	1	12	2	2	16	10	3	0	11
	1800	7	3	4	3	1	1	7	2	3	19	9	0	0	8
	2100	2	1	4	3	1	3	8	3	6	16	9	0	0	7
	TOTAL	15	12	20	23	19	15	91	12	33	121	81	9	0	9
حبانية HABBANIYA	0000	2	2	2	2	3	1	4	1	14	10	5	2	0	6
	0300	2	2	2	3	2	0	3	4	13	14	4	0	0	5
	0600	2	3	2	4	2	3	4	5	6	18	6	1	0	7
	0900	3	1	1	4	7	2	2	6	3	16	10	2	0	11
	1200	3	4	3	2	6	2	7	2	2	15	12	2	0	11
	1500	6	0	4	8	1	0	2	5	5	19	4	3	0	7
	1800	2	3	3	4	1	1	1	0	16	7	6	2	0	6
	2100	2	2	3	3	2	0	1	1	17	9	3	1	1	6
	TOTAL	24	17	20	30	24	9	24	24	76	108	50	13	1	7
بغداد BAGHDAD	0000	4	4	4	6	2	1	2	2	6	16	9	0	0	7
	0300	3	3	4	3	4	0	1	3	10	15	5	1	0	6
	0600	2	4	0	10	2	0	5	5	3	18	10	0	0	8
	0900	2	1	1	13	2	1	5	6	0	19	11	1	0	10
	1200	2	1	1	10	3	4	4	5	1	15	12	3	0	12
	1500	1	4	2	9	1	2	4	8	0	24	7	0	0	9
	1800	5	4	4	8	0	1	1	4	4	21	3	3	0	8
	2100	6	3	3	7	1	1	1	2	7	14	10	0	0	8
	TOTAL	25	24	19	66	15	10	23	35	31	142	67	8	0	9
نخيب NUKHAIB	0600	6	0	5	5	6	0	8	1	0	22	9	0	0	8
	0900	1	0	5	8	7	0	8	2	0	18	11	2	0	11
	1200	1	0	4	6	8	0	10	2	0	15	14	2	0	12
	1500	2	1	5	5	4	2	8	0	4	16	10	1	0	9
	1800	3	0	4	6	4	4	7	1	2	19	10	0	0	8
	TOTAL	13	1	23	30	29	6	41	6	6	90	54	5	0	10
حي HAI	0000	5	0	11	3	3	0	1	4	4	18	7	2	0	8
	0300	6	0	13	2	2	0	0	6	2	24	3	2	0	7
	0600	4	2	8	6	0	0	1	7	3	19	5	4	0	9
	0900	6	1	6	10	0	0	0	5	3	11	12	5	0	13
	1200	7	1	8	5	2	0	1	7	0	13	15	3	0	12
	1500	4	4	9	3	0	2	0	6	3	22	5	1	0	7
	1800	5	0	10	4	0	0	2	4	6	16	8	1	0	7
	2100	5	0	9	4	3	0	2	2	6	15	8	2	0	8
	TOTAL	42	8	74	37	10	2	7	41	27	138	63	20	0	9

TABLE 10c.

عدد تكرار وحدات الرياح السطحية

SURFACE WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 فأكثر	معدل السرعة بالعقد MEAN V.K.
نجف NAJAF	0000	5	3	2	8	1	0	2	2	8	19	3	1	0	5
	0300	3	3	1	5	4	1	0	6	8	21	2	0	0	4
	0600	5	1	2	5	3	2	2	5	6	21	4	0	0	5
	0900	3	4	0	8	2	2	3	6	3	25	3	0	0	6
	1200	4	4	1	9	1	1	1	8	2	25	4	0	0	7
	1500	4	7	1	7	3	0	2	6	1	24	6	0	0	6
	1800	6	6	1	8	3	0	0	2	5	23	2	1	0	5
	2100	4	6	1	7	2	0	1	1	9	19	3	0	0	5
	TOTAL	34	34	9	57	19	6	11	36	42	177	27	2	0	5
ديوانية DIWANIYA	0000	5	4	3	2	2	1	3	0	11	19	1	0	0	5
	0300	3	5	5	2	1	2	5	0	8	16	7	0	0	6
	0600	2	2	6	4	3	1	3	3	7	16	8	0	0	7
	0900	4	2	2	6	5	1	6	2	3	19	8	1	0	8
	1200	3	5	0	5	6	0	7	2	3	17	10	1	0	9
	1500	8	0	4	6	2	0	6	1	4	21	6	0	0	6
	1800	8	2	3	8	1	0	1	0	8	16	7	0	0	6
	2100	4	1	9	6	0	1	2	0	8	18	5	0	0	7
	TOTAL	37	21	32	39	20	6	33	8	52	142	52	2	0	7
ناصرية NASIRIYA	0000	5	2	4	6	4	2	3	2	3	24	4	0	0	6
	0300	1	2	5	4	2	2	4	2	9	20	1	1	0	5
	0600	4	2	5	8	2	1	3	5	1	22	8	0	0	7
	0900	2	2	5	8	1	0	2	10	1	22	8	0	0	8
	1200	2	1	7	8	1	0	0	12	0	21	10	0	0	9
	1500	5	1	9	7	0	3	1	5	0	25	6	0	0	8
	1800	8	0	6	11	2	2	1	1	0	24	6	1	0	8
	2100	5	3	3	11	3	0	1	4	1	21	9	0	0	7
	TOTAL	32	13	44	63	15	10	15	41	15	179	52	2	0	7
بصرة BASRAH	0000	6	1	3	2	13	1	1	3	1	21	9	0	0	8
	0300	8	3	7	3	4	3	3	0	0	25	6	0	0	7
	0600	5	1	8	5	3	2	4	3	0	22	9	0	0	8
	0900	5	2	2	6	5	0	5	6	0	22	9	0	0	9
	1200	10	1	3	6	3	1	3	4	0	24	6	1	0	10
	1500	8	2	2	11	1	0	0	7	0	24	6	1	0	8
	1800	8	2	3	6	6	1	0	4	1	23	5	2	0	8
	2100	4	2	5	3	11	0	3	3	0	21	9	0	1	9
	TOTAL	54	14	33	42	46	8	19	30	2	182	59	4	1	8

TABLE-11.

اعلى سرعة ريح خلال ساعة

HIGHEST WIND-SPEED DURING AN HOUR

STATION	HIGHEST SPEED (V.K.)	DIRECTION	TIME-GMT	DAY
SINJAR	18 Knots	100°	1200	31st
MOSUL	25	270	0000	8th
SALAHADDIN	35	150	1800	31st
KIRKUK	18	050	2100	14th
ANAH	30	090	1500	31st
RUTBAH	30	270	1500	27th
HABBANIYA	35	120	2100	31st
BAGHDAD	26	180	0300	20th
NUKHAIB	25	100	1500	31st
HAI	30	090	0900	19th
NAJAF	25	170	0000	20th
DIWANIYA	28	160	0900	10th
NASIRIYA	30	160	1800	14th
BASRAH	40	170	2100	3rd

TABLE-12a.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), WITH RECORDS, tr. <0.05 mm.

الايام	سنجار	موصل	صلاح الدين	كركوك	عنة	رطبة	حبانية
DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2	3.9	23.5	28.4	5.2	tr.		tr.
3	19.1	tr.					
4							tr.
5	16.3	11.2	15.1	0.1	tr.		
6	9.5	7.0	10.0	0.2			
7	22.1	15.6	20.4	9.0	1.6	tr.	
8	6.6	4.3	6.2				
9	5.8	1.4	3.0	4.7	1.4		
10	7.6	10.0	20.0	2.6	0.5	tr.	0.5
11			20.0				
12							
13		2.0			1.6		
14	2.5	2.8	6.2	6.5	5.6	4.0	1.8
15	1.4	8.3	13.6	5.4			
16		0.3					
17							
18		0.8	16.0	1.5	0.8	0.7	1.2
19	15.2	12.0	17.6	45.4	7.8	1.9	tr.
20	1.1	2.7	8.8	8.0	2.2		2.0
21	28.3	1.0	11.0	9.0	1.8	1.5	tr.
22	8.2	6.8	35.2	3.5	1.3		0.2
23	22.2	22.7	28.0	12.5			
24	5.1	0.6	1.5	3.1			
25							
26							
27							
28							
29					tr.		
30							
31	10.0	5.3	4.8		tr.		
TOTAL	184.9	142.1	270.9	116.9	24.6	8.1	5.7
NORMAL	65.6	65.0	155.1	85.3	19.9	19.7	26.0

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY		DAY	YEAR
SINJAR	76.0	mms.	4th	1939
MOSUL	53.2		6th	1954
SALAHADDIN	80.8		15th	1961
KIRKUK	97.6		1st	1953
ANAH	26.0		28th	1951
RUTBAH	17.8		11th	1961
HABBANIYA	35.4		23rd	1954

TABLE 12b.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) WITH RECORDS, tr. < 0.05 mm.

الايام	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2	tr.		tr.				
3							0.2
4				tr.			tr.
5	tr.						
6							
7		tr.	tr.			tr.	0.2
8							tr.
9	tr.		1.2		tr.	tr.	
10	0.4	tr.	0.3	tr.	tr.	tr.	tr.
11							
12							0.4
13						tr.	
14	tr.		2.0				
15							
16							
17							
18	tr.	tr.	1.0	1.3		tr.	
19	1.0	tr.		tr.		7.3	tr.
20	tr.	tr.					
21	3.5	tr.	tr.	tr.			
22	1.3	tr.	tr.	tr.	tr.	4.7	tr.
23			1.6	tr.	tr.		0.4
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	6.2	tr.	6.1	1.3	tr.	12.0	1.2
NORMAL	28.5	6.2	25.7	1.1	19.3	19.2	24.9

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	55.6 mms.	16th	1938
NUKHAIB	15.7	15th	1938
HAI	49.1	13th	1946
NAJAF	5.8	10th	1963
DIWANIYA	66.2	27th	1955
NASIRIYA	35.6	14th	1946
BASRAH	50.9	5th	1946

TABLE 12c.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm.

الايام	عمادية	عقرة	اصليبي	تل حكنة	حديثة	محمودية	دجيل	اور	بيجي
DAYS	AMADIYA	AQRA	ISLIBY	TEL HIKNA	HADI-THA	MAHMO-DIYA	DUJAIL	UR	BAIJI
1		8.3							
2		31.7							0.1
3			25.0						
4									
5	87.0								
6		7.1	3.0						
7	60.0	59.3							3.5
8	15.0	12.3	11.0						
9	10.0	1.4	2.0						2.3
10	45.0	21.2							1.4
11			11.0						
12									
13									
14		7.3			0.8				6.0
15	20.0					12.2			
16	16.0						1.7		
17		6.8		10.0					
18									2.6
19		7.8			8.2				5.8
20		30.2	21.0		7.2				2.8
21	85.0	48.7		15.0	2.0		5.7		6.7
22	50.0	45.3	2.0						6.9
23	20.0	9.6	2.0	25.0			56.2	10.2	9.7
24		7.7	1.0	28.0					
25	15.0	3.2							
26	5.0	6.7							
27									
28									
29									
30				30.0					
31	70.0	11.4							
TOTAL	498.0	326.0	78.0	108.0	18.2	12.2	63.6	10.2	47.8

TABLE -12d.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm.

الايام	اج ٢	افتخار	نعمانية	ديانا	كفري	بعقوبة	علي الغربي	القائم	سليمانية
DAYS	H 2	IFTI-KHAR	NUMA-NIYA	DIANA	KOUFRI	BAQOBA	ALIAL-GHARBI	QAIM	SULAI-MANIYA
1									
2				23.5					16.0
3									
4									
5				13.2					
6				21.8					2.4
7				31.2					
8				3.5					3.2
9				4.0					6.4
10		3.8		33.1			23.0		22.4
11									
12									
13									
14				5.7			30.0		36.0
15				20.0	39.9				12.0
16				3.5					
17									
18				28.8			22.0		
19				20.2					52.0
20				11.2	11.3			10.5	28.0
21	8.0	4.8		26.2					24.0
22				25.6	13.1	13.0			20.0
23		5.8		8.7					16.0
24			4.0	1.0	10.4				12.0
25				12.7					1.6
26				1.0					
27									
28									
29									
30									
31				21.7					
TOTAL	8.0	14.4	4.0	316.6	74.7	13.0	75.0	10.5	252.0

TABLE-12e.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) , tr. < 0.05 mm.

الايام DAYS	جلولاء JALA-WLAA	تكريت TIKREET	مندلي MAN-DILY	بدرة BADRA	حمام عليل HAMAM ALIL	سامراء SAMI-RAA	المنصور MAN-SOOR	طوز TUZ	دهوك DUHOK
1									
2					23.2				28.1
3									
4									
5		21.8			7.0				22.0
6		21.8			2.0				
7					19.0				28.0
8		21.8			1.0				5.0
9					1.0				6.0
10		21.8		5.5	10.9				8.0
11			7.5						
12									
13									
14	6.4		4.0		1.2		17.0		
15					1.0				
16									39.0
17									
18			3.0		1.2				
19			6.0		12.0				15.5
20					4.0			1.3	
21			16.0	4.0	1.4		5.0	2.5	
22			17.5		6.8			2.5	47.8
23			1.5		6.8	13.0	2.0		23.0
24								10.2	
25									
26									
27									
28	10.0								
29									
30									
31					1.2				
TOTAL	16.6	87.2	55.5	9.5	119.7	13.0	24.0	16.6	224.4

TABLE-12f.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm.

الايام DAYS	الكويسر KUWAIR	طريفاوي TRE-FAWI	بدعة BADAA	هيت HIT	افراز IFRAZ	زاخو ZAKHO	عين سفني AIN SIFNI	حويجة HAWIJA	مخمور MAKH-MOOR
1								5.7	
2					21.4				
3	13.0								5.0
4									
5					25.9	10.4	30.5		
6						10.0			4.0
7	20.0				26.7	13.2	33.0	5.2	5.0
8	10.0	2.0			6.9	7.2	6.1		
9	15.0					3.2	1.7	4.3	
10	20.0	0.5			18.3	15.2	19.1	3.5	7.0
11									
12									
13									
14	9.0			20.0	11.5		7.0	13.7	10.0
15		26.0			8.3	1.6	7.0		
16					4.0	4.8			
17									
18	7.0				14.8		6.1	5.8	
19	13.0		3.0		13.9				5.0
20		10.0	4.0	3.0	17.7	21.4			9.0
21	10.0	3.0			15.6	23.0		8.8	16.0
22	20.0	2.0		10.0	16.4	18.0	72.4	4.6	30.0
23		2.0	3.0		48.3	16.8	15.7	7.4	4.0
24	8.0								5.0
25					5.8				
26									
27									
28									
29									
30									
31					2.7		13.1		
TOTAL	146.0	45.0	10.0	33.0	258.2	144.8	211.4	59.0	100.0

TABLE 12g. الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. <0.05 mm.

الايام	بعاج	ربيعة	تلعفر	بعشيقة	بلدروز	حلة
DAYS	BAAJ	RABIAA	TELAAFAR	BAASHIQA	BALADRUZ	HILLA
1						
2			22.0			
3	19.0			18.0		
4						
5			16.0			
6	4.0	28.0	6.0			
7	11.5		23.0	21.0		
8	13.0	24.0	14.0			
9			3.0			
10	8.0	16.0	7.0			
11	3.5			12.0		8.0
12						
13			1.0			
14			1.0			
15		4.0	3.0	3.0	15.0	
16				12.0		
17				2.0		
18						
19			13.0	2.0		
20	5.0		2.0			
21		16.0	20.0			
22	18.0	16.0	8.0			5.0
23	3.0	12.0	13.0	36.0		
24		12.0		9.0		
25			6.0			
26						
27						
28						
29						
30						
31			17.0			
TOTAL	81.5	128.0	175.0	115.0	15.0	13.0

DAILY GRASS MINIMUM & SOIL TEMPERATURES (°C) القراءات اليومية لحرارة الحشيش والتربة (سنتغراد)

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	3.0	5.1	13.8	15.1	7.2	18.6	18.9	3.3	17.2	19.0	15.0	17.2	14.7	20.2	20.2	7.4
2	3.5	6.3	13.9	15.1	8.4	19.3	19.0	4.4	17.6	19.0	15.2	17.2	11.8	20.3	20.3	6.6
3	5.5	10.9	13.9	15.1	12.7	19.6	19.0	12.1	18.0	19.4	19.4	18.2	16.7	20.7	20.2	5.5
4	4.3	7.1	14.4	15.4	12.0	20.0	19.2	12.2	18.7	19.3	15.4	17.4	15.7	20.8	20.5	10.4
5	4.0	7.6	14.5	15.5	11.0	20.0	19.3	12.5	18.7	19.3	20.0	18.8	14.7	20.8	20.6	7.9
6	3.8	9.1	14.6	15.5	13.9	20.4	19.2	11.2	19.0	19.5	20.8	20.4	13.8	21.0	20.5	7.0
7	4.2	13.0	14.7	15.5	14.5	20.3	19.3	10.6	19.5	19.6	20.2	19.0	18.6	21.4	20.7	12.5
8	4.4	9.5	15.0	15.6	12.0	20.5	19.8	6.2	19.8	20.0	20.4	19.8	20.3	22.5	20.8	15.3
9	4.4	7.6	15.0	15.6	8.4	20.2	19.8	4.2	19.0	20.0	19.8	19.8	13.4	22.2	21.0	7.4
10	5.4	9.9	15.0	15.8	15.0	20.4	19.8	15.6	19.7	20.0	20.6	20.0	15.5	22.3	21.0	9.0
11	4=2	5.6	14.9	15.8	10.0	20.2	20.0	10.0	19.5	20.0	21.2	20.2	16.8	22.2	21.2	16.0
12	1.5	5.0	15.0	15.9	5.9	20.4	20.0	3.0	18.6	20.2	19.4	21.0	12.5	21.4	21.4	9.8
13	1.6	7.5	15.0	16.0	7.8	20.6	20.1	8.8	19.2	20.4	19.5	20.4	13.4	21.5	21.5	7.4
14	2.6	8.2	15.0	16.1	12.8	21.0	20.2	8.2	19.6	20.4	20.0	20.5	13.7	21.8	21.5	7.2
15	3.7	10.1	15.0	16.0	12.2	21.4	20.4	8.8	19.9	20.5	20.2	20.5	17.3	22.8	21.5	18.0
16	5.4	7.0	14.5	16.1	11.2	21.3	20.3	5.3	19.5	20.5	20.4	20.7	12.7	22.2	21.6	5.0
17	9.0	8.4	15.4	16.1	10.6	21.6	20.4	6.0	20.0	20.5	20.3	20.6	13.2	22.4	21.7	3.5
18	8.0	11.0	15.7	16.2	13.9	22.0	20.5	10.6	20.7	20.5	21.0	20.8	13.0	22.5	21.8	13.7
19	10.8	12.7	16.1	16.1	14.4	22.5	20.5	13.4	21.5	20.7	22.2	21.4	15.5	25.0	21.8	12.2
20	8.4	10.6	16.5	16.2	15.2	22.8	20.8	12.5	21.7	20.7	22.7	21.1	17.7	23.0	21.8	16.0
21	7.8	10.0	16.4	16.4	13.4	22.6	20.8	12.0	20.2	20.8	22.1	21.4	15.0	22.8	22.1	16.5
22	8.2	9.4	16.0	16.5	10.6	22.0	21.0	10.0	20.8	21.0	22.1	21.5	18.0	23.5	22.1	17.5
23	9.0	7.0	15.8	16.5	11.2	22.0	21.0	9.5	19.8	21.0	21.4	21.6	13.3	23.3	22.1	10.1
24	9.6	8.6	15.0	16.6	9.7	21.6	21.3	6.3	19.2	21.0	20.8	21.8	11.4	21.5	22.2	3.9
25	5.0	7.6	15.1	16.6	12.8	22.2	21.3	6.0	19.5	21.2	20.5	21.6	12.2	21.5	22.2	3.3
26	5.6	10.5	15.5	16.6	12.2	22.6	21.4	13.0	20.5	21.0	21.5	21.7	15.7	22.4	22.3	5.6
27	5.2	11.3	16.1	16.6	13.4	23.0	21.5	10.7	21.1	21.2	22.0	21.8	15.6	25.3	22.4	9.0
28	8.0	12.6	16.1	16.6	15.4	23.5	21.5	10.5	22.8	21.3	24.0	22.0	21.1	24.2	22.4	15.1
29	8.0	11.0	17.0	16.6	9.0	23.9	21.5	10.0	22.2	21.4	22.2	21.8	19.2	24.8	22.5	10.5
30	12.5	15.5	17.7	16.8	17.2	24.0	21.5	18.2	22.9	21.4	24.9	22.6	21.3	25.1	22.7	11.5
31	10.0	10.5	17.3	16.8	13.2	24.0	21.8	12.2	22.5	21.5	24.2	22.6	18.0	25.3	22.6	10.2
MEANS	6.0	9.2	15.4	16.0	11.9	21.5	20.4	9.6	20.0	20.4	20.6	20.5	15.5	22.5	21.5	10.0

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. التبخر اليومي (ملليمترات)

DAYS	MOSUL	KIRKUK	ANAH	RUTBAH	BAGHDAD	NUKHAIB	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	5	3	5	5	1	4	5	3	5	3
2	4	1	5	5	5	5	5	4	4	5
3	5	3	4	5	4	4	5	4	4	5
4	6	2	4	6	5	4	4	5	3	3
5	5	2	3	5	5	4	4	4	3	2
6	4	2	3	7	4	5	5	3	4	4
7	5	2	4	5	7	4	8	4	6	11
8	4	3	4	6	6	4	6	3	5	3
9	4	3	4	6	6	4	4	3	4	5
10	4	1	3	6	3	5	5	4	5	5
11	4	3	4	5	4	4	4	3	4	4
12	6	3	4	4	6	4	3	5	4	3
13	4	4	6	6	7	5	4	3	5	4
14	3	3	2	7	6	6	4	5	7	5
15	4	1	4	6	4	4	3	4	3	2
16	4	3	4	7	7	4	5	2	4	4
17	3	4	7	6	7	6	4	4	5	4
18	4	5	6	6	9	6	4	7	7	6
19	3	4	3	6	9	4	3	5	6	5
20	3	5	5	7	7	3	5	4	3	3
21	4	2	4	8	4	4	4	5	6	6
22	5	4	4	7	7	3	3	5	5	7
23	4	4	3	7	7	4	3	2	4	3
24	4	3	5	5	5	4	3	4	4	4
25	5	3	4	6	6	5	6	5	5	4
26	5	5	8	5	4	6	6	3	5	6
27	4	3	8	8	12	7	7	5	5	6
28	5	4	6	6	10	6	8	6	4	6
29	5	5	4	6	6	6	6	4	5	4
30	3	3	7	7	4	6	5	3	4	5
31	2	4	8	8	9	6	8	5	7	5
MEANS	4	3	5	6	6	5	5	4	5	5

CLIMATOLOGICAL SUMMARY — الملخصات المناخيـــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE — عدد الايام التي حدثت فيها الظواهر الجوية و مدة سطوع الشمس

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	17	0	0	2	0	9	0	1	5	0	0	0	15	-	-	-	-
MOSUL	20	0	0	6	0	4	1	1	1	0	0	0	19	141.3	10.4	28th	4
SALAHADDIN	19	0	1	5	2	4	1	4	3	0	0	0	20	-	-	-	-
KIRKUK	14	0	1	7	0	3	4	0	5	0	0	1	16	-	-	-	-
ANAH	10	0	0	2	0	0	1	7	4	0	0	2	11	-	-	-	-
RUTBAH	4	0	1	1	0	2	0	12	12	2	0	1	6	-	-	-	-
HABBANIYA	5	0	0	1	0	2	9	12	10	5	0	2	9	204.7	12.0	24th	3
BAGHDAD	4	0	0	1	1	1	12	8	9	2	0	0	9	214.1	11.2	24th	0
NUKHAIB	0	0	0	1	0	0	0	12	1	2	0	4	8	-	-	-	-
HAI	5	0	0	3	0	0	10	20	9	1	0	1	9	-	-	-	-
NAJAF	1	0	0	1	0	0	1	10	11	0	0	0	9	-	-	-	-
DIWANIYA	0	0	0	0	0	0	7	4	10	2	0	3	4	-	-	-	-
NASIRIYA	2	0	1	4	0	1	0	9	10	2	0	2	3	-	-	-	-
BASRAH	4	0	0	4	0	5	0	3	6	7	0	3	3	208.9	11.3	25th	1

TABLE-15. HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELATIVE-HUMIDITY. — ضغط جوي على سطح البحر و الرطوبة النسبية اعلى و اوطى

STATIONS	PRESSURE AT MSL for 1969.-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE-HUMIDITY % - 1969. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1023.2	0600	2nd	998.6	0600	20th	1028.3	0600	3rd	1962	995.4	0300	12th	1964	97	0600	6th	40	0900	1st
MOSUL	1022.1	0600	2nd	998.8	0300	20th	1032.6	0600	3rd	1961	996.1	0300	12th	1964	97	0300	20th	40	1200	1st
SALAHADDIN	1020.7	1800	2nd	999.8	1200	20th	1025.9	0300	9th	1967	999.8	1200	20th	1969	100	0300	19th	38	1800	31st
KIRKUK	1021.7	0000	25th	997.6	0000	20th	1030.6	0600	3rd	1961	997.4	0300	12th	1964	98	2100	19th	29	1200	31st
ANAH	1022.3	0600	1st	998.6	1200	20th	1023.6	0600	23rd	1968	998.6	1200	20th	1969	93	0300	15th	19	1200	25th
RUTBAH	1019.8	0600	24th	998.9	0000	20th	1032.2	0600	3rd	1961	995.8	2100	11th	1964	91	0300	4th	8	1200	31st
HABBANIYA	1020.8	0600	1st	998.7	0300	20th	1031.5	0600	3rd	1961	995.4	0000	12th	1964	94	0300	22nd	23	1200	18th
BAGHDAD	1021.1	0600	25th	998.8	0000	20th	1031.4	0600	3rd	1961	996.1	1200	22nd	1964	100	0300	22nd	22	1200	27th
NUKHAIB	1020.9	0600	1st	998.0	1500	19th	1025.8	0600	11th	1967	998.0	1500	19th	1969	69	0600	4th	12	1200	27th
HAI	1020.6	0600	25th	998.9	1500	19th	1028.0	0600	3rd	1961	998.9	1500	19th	1969	91	0300	24th	29	0900	13th
NAJAF	1021.5	0600	25th	998.8	1500	21st	1024.6	0600	16th	1965	995.8	0000	12th	1964	88	0000	24th	11	1200	26th
DIWANIYA	1020.9	0600	1st	999.2	1200	18th	1030.1	0900	3rd	1961	995.8	1300	22nd	1941	94	0300	24th	18	1200	30th
NASIRIYA	1021.2	0600	25th	998.8	1200	19th	1029.1	0600	9th	1959	998.8	1200	19th	1969	87	0300	5th	18	1500	19th
BASRAH	1021.3	0600	25th	999.6	0300	20th	1028.4	0600	9th	1959	995.9	1300	22nd	1941	95	0000	31st	25	0600	8th.

الجمهورية العراقيـــــــــــــة

وزارة المواصـــــــلات

مديرية الطيران المدنـــي العامـــــــة

مفتشية الانواء الجوية

العامـــة

مديرية احصائيات المنـــــــاخ

بغداد

تقرير المناخ الشهـــــرى

المجلـد : ٣٢

العـدد : ٤

الشهر : نيســان

السنـــة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

==========

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 4

MONTH : APRIL

YEAR : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at MSL	7	5
= = low-cloud-amount	8	5
= = total-cloud-amount	9	5
Surface Wind, number of observations of	10a-c	6-8
Highest wind-speed during an hour	11	8
Daily precipitation	12a-g	9-15
Daily grass-minimum & soil temperatures	13	16
Daily evaporation	14	17
Climatological summaries	15	18
Highest, Lowest and Records of Pressure and Humidity	16	18
Upper air climatological data for Baghdad Radiosonde	17	19
Mean & Extreme values of the freezing level, the tropopause and the maximum wind in upper air, Baghdad	18	20

Note: Geographical data and notes on tables see : January 1969.

APRIL 1969.

TABLE 1 a.

نيسان ١٩٦٩

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

الايام	سنجار		موصل		صلاح الدين		كركوك		عنة	
	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	13.7	10.0	17.4	15.2	13.1	9.3	21.1	18.4	25.5	21.7
2	14.0	5.6	19.7	10.2	10.1	6.3	18.5	10.6	18.5	8.4
3	14.5	4.8	21.0	5.1	14.6	3.2	21.3	7.2	21.3	4.0
4	16.6	5.5	18.7	10.2	12.0	8.6	18.4	6.8	22.0	9.5
5	16.6	4.2	22.0	11.8	12.2	6.3	20.4	10.[illegible]	23.8	7.0
6	11.7	5.6	15.0	8.8	7.8	6.4	18.0	11.6	21.0	12.3
7	16.9	4.9	20.7	8.0	12.9	2.2	20.5	9.2	23.6	7.7
8	15.1	4.7	20.2	7.4	13.3	4.8	21.4	9.0	22.6	6.5
9	14.9	6.5	16.5	6.8	10.5	5.7	17.7	10.4	22.5	11.4
10	16.6	5.0	23.2	7.6	16.0	6.0	23.8	10.7	27.1	10.0
11	14.2	6.2	18.9	12.0	13.5	6.0	21.2	12.8	21.0	14.4
12	13.8	8.1	20.2	9.2	10.5	6.5	18.0	12.0	20.8	11.8
13	13.0	3.3	14.5	6.7	6.0	1.0	15.5	6.7	19.5	2.0
14	16.3	4.6	19.3	4.5	11.5	1.5	19.7	5.9	23.0	4.4
15	16.1	7.8	17.8	6.5	13.0	5.0	20.0	8.3	23.4	10.5
16	12.5	8.1	16.7	11.6	11.5	7.0	18.7	12.0	18.0	13.8
17	14.1	7.0	18.5	11.4	9.0	5.0	18.5	12.8	22.0	11.5
18	15.6	4.8	20.3	6.6	12.0	8.0	20.3	9.8	24.0	11.6
19	19.0	6.1	22.7	7.5	15.0	5.0	23.0	9.3	27.0	7.7
20	21.5	9.2	24.6	8.8	17.0	8.0	25.0	11.3	29.5	11.0
21	20.6	8.7	25.4	8.8	18.0	9.1	25.7	12.4	28.3	11.4
22	22.6	9.8	25.8	10.7	19.5	9.6	26.7	13.2	30.4	10.3
23	22.8	11.1	26.4	11.4	21.0	11.0	28.0	10.6	32.6	13.3
24	27.5	14.0	30.2	11.8	24.7	12.7	31.1	15.0	33.7	15.5
25	27.3	17.3	28.7	19.3	22.3	15.0	27.4	19.2	33.4	18.4
26	28.5	16.1	32.4	12.4	25.2	14.2	32.9	16.8	36.0	15.2
27	27.7	15.2	32.2	15.4	25.7	15.4	33.5	21.1	34.5	17.5
28	27.9	18.2	30.1	1[illegible].5	25.3	16.3	29.1	22.3	36.0	17.6
29	18.1	14.1	20.8	17.5	20.2	15.4	28.0	21.2	26.5	18.1
30	23.1	14.3	27.1	15.4	18.7	12.4	23.8	17.1	29.8	15.0
MEANS	18.5	8.7	22.2	10.6	15.4	8.1	22.9	12.5	25.9	11.7
NORMAL	....	....	25.3	9.7	....	....	25.5	13.0	....	....
HIGHEST	32.0	23.0	40.0	23.3	25.7	16.3	39.6	23.7	37.8	22.2
DAY	28&30	28th	?	29th	27th	15&28	28th	24th	15th	16th
YEAR	1966	1966	1928	1958	1969	68&69	1958	1959	1968	1968
LOWEST	-7.0	0.0	11.1	-1.6	6.0	1.0	10.0	1.0	18.0	2.0
DAY	4th	5th	13th	1st	13th	13th	4th	5th	16th	13th
YEAR	1965	1965	1939	1956	1969	1969	1965	1965	1969	1969

TABLE 1 b . DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	رطبة		حبانية		بغداد		نخيب		حي	
	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	19.7	16.8	27.4	22.0	26.2	17.7	19.2	9.5	31.2	20.7
2	18.0	6.0	19.6	12.3	19.8	11.9	18.0	9.0	21.9	16.2
3	19.0	3.0	19.6	8.0	20.5	11.6	21.0	11.5	24.3	8.7
4	20.5	9.4	21.0	12.0	21.3	11.0	16.5	7.0	19.3	12.7
5	20.4	7.6	24.5	10.5	22.1	11.9	23.0	9.0	19.8	12.2
6	20.6	7.1	24.0	12.0	25.3	12.1	24.0	11.0	25.6	11.6
7	20.3	6.0	25.0	13.8	26.0	13.0	27.0	12.0	26.8	13.1
8	22.0	7.0	25.5	12.0	25.9	12.2	25.0	10.0	26.9	13.7
9	24.6	12.4	28.0	15.3	29.0	16.8	29.0	15.0	28.1	17.0
10	27.0	11.9	26.8	13.2	28.0	15.5	27.0	16.0	27.4	17.6
11	23.5	11.2	26.9	15.5	27.5	15.6	29.8	15.0	31.6	17.4
12	18.0	11.4	22.6	16.5	21.7	15.4	22.0	16.0	25.8	20.8
13	17.5	5.6	20.2	12.0	19.9	10.3	20.5	8.0	22.4	14.6
14	23.0	2.6	23.0	9.3	23.2	7.3	23.5	6.2	24.4	9.8
15	22.7	10.8	25.0	13.4	24.7	9.8	27.5	11.5	27.3	10.8
16	19.0	12.0	22.8	17.0	23.2	16.6	23.0	16.0	26.0	16.7
17	19.4	8.1	23.5	15.2	23.7	14.5	22.5	13.5	24.0	17.0
18	20.4	6.5	24.2	12.5	24.7	11.2	23.2	10.4	27.4	13.0
19	25.5	9.0	26.5	11.9	26.5	10.3	26.0	11.0	27.4	13.2
20	24.8	5.6	29.0	13.0	27.8	12.4	29.2	12.0	29.8	13.0
21	26.5	9.3	29.9	14.0	29.9	17.4	29.5	12.6	30.6	15.2
22	29.5	10.5	30.0	14.5	30.8	13.8	30.0	12.6	31.4	15.2
23	30.2	13.6	31.8	16.0	32.6	14.7	32.0	16.0	32.3	14.9
24	29.6	17.8	34.0	17.4	33.4	16.5	33.5	18.4	34.8	15.7
25	30.7	14.4	33.3	20.3	34.2	20.8	33.2	19.2	35.8	18.6
26	33.6	17.2	36.5	20.0	36.2	21.0	35.5	20.0	37.0	21.8
27	29.4	14.6	38.0	21.6	37.6	20.7	34.2	19.2	37.3	21.7
28	33.7	14.2	36.2	24.0	37.5	25.0	35.0	20.2	36.8	22.6
29	26.4	18.4	30.5	23.0	29.9	23.3	33.0	21.0	32.9	25.7
30	29.0	14.0	28.6	20.5	26.4	21.5	31.2	18.0	24.6	21.0
MEANS	24.8	10.6	27.1	15.3	27.2	15.1	26.8	13.6	28.4	16.1
NORMAL	25.7	9.9	29.3	14.9	29.9	14.6	....	....	30.0	15.6
HIGHEST	39.0	22.8	41.1	29.5	44.7	25.0	39.5	22.0	40.3	25.7
DAY	23rd	8th	30th	30th	28th	28th	30th	16th	23rd	29th
YEAR	1959	1952	1944	1965	1958	1969	1966	1966	1959	1969
LOWEST	9.4	-2.0	15.2	2.2	15.8	1.2	16.5	4.0	16.6	1.9
DAY	8th	1st	4th	2nd	7th	1st	4th	5th	5th	1st
YEAR	1937	1956	1965	1956	1957	1956	1965	1965	1961	1955

TABLE 1 c.

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	31.7	21.9	32.1	20.2	37.4	23.0	40.0	23.2
2	21.4	13.0	21.2	14.7	20.1	17.8	23.6	21.4
3	21.7	10.2	22.5	8.5	22.0	12.6	23.0	15.6
4	21.2	12.6	21.6	11.7	20.3	14.2	23.2	18.0
5	24.9	11.5	22.5	12.0	17.0	13.0	19.9	16.0
6	25.5	12.4	26.7	10.2	24.6	12.2	24.1	12.9
7	28.4	15.4	27.3	12.2	25.6	14.7	28.8	16.0
8	26.7	13.4	26.5	13.2	25.0	15.6	29.2	18.0
9	30.5	13.3	25.7	14.4	28.1	19.9	32.0	18.8
10	29.6	16.6	27.5	16.5	26.7	19.2	30.4	20.7
11	32.7	17.8	32.0	17.0	31.5	19.8	34.0	21.4
12	24.8	17.5	24.0	18.0	28.3	21.3	33.5	21.6
13	21.4	12.4	21.5	13.3	20.8	16.5	21.6	18.6
14	24.5	9.4	23.6	10.0	22.8	12.6	22.8	15.0
15	26.5	12.5	27.2	10.4	25.1	13.8	24.7	15.0
16	25.4	17.2	26.3	15.5	26.4	17.2	28.7	17.3
17	24.9	16.5	23.2	14.8	22.4	18.3	22.0	17.2
18	27.4	14.2	26.5	11.5	25.1	13.7	25.9	14.9
19	28.7	13.2	28.0	12.0	26.4	13.8	25.5	17.1
20	31.7	14.5	29.8	12.0	28.6	14.6	26.9	17.4
21	32.3	16.4	31.5	15.1	29.3	18.2	29.2	19.8
22	32.4	16.0	32.3	17.4	29.9	17.2	29.0	19.4
23	32.5	18.4	34.0	15.5	31.2	19.2	29.5	19.4
24	35.4	19.0	34.2	15.5	33.6	18.[illegible]	30.9	20.4
25	36.4	22.0	36.7	19.7	31.7	22.9	32.4	22.6
26	37.4	17.7	37.2	21.0	35.0	25.4	30.1	24.7
27	37.8	22.2	37.2	21.0	33.6	22.8	34.9	22.8
28	36.0	24.5	34.6	25.5	34.5	26.3	32.4	26.8
29	25.3	24.5	30.5	26.0	31.0	26.7	32.2	26.0
30	25.8	18.8	25.0	22.3	27.0	19.8	26.8	19.4
MEANS	28.7	15.5	28.4	15.6	27.4	18.0	28.2	19.2
NORMAL	****	****	30.2	14.1	29.6	15.7	30.8	18.2
HIGHEST	39.3	25.0	42.0	27.0	42.8	27.2	43.8	26.8
DAY	28th	18th	10th	28th	28th	30th	25th	28th
YEAR	1965	1968	1958	1958	1942	1959	1954	1969
LOWEST	17.0	7.0	16.4	1.6	17.0	3.6	16.1	2.8
DAY	4th	5th	6th	2nd	5th	2nd	4th	4th
YEAR	1965	1965	1959	1946	1969	1956	1944	1944

APRIL 1969. (4) نيسان ١٩٦٩

TABLE 2 .

MONTHLY MEAN DRY-BULB TEMPERATURES (°C) المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتيغراد)

TIME - G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	11.4	14.2	16.3	17.8	16.3	13.6	....	14.9
MOSUL	12.1	11.5	15.6	20.0	21.3	18.9	15.0	13.2	15.9
SALAHADDIN	....	10.4	12.4	13.3	14.0	12.9	10.9	....	12.3
KIRKUK	14.6	13.9	18.2	20.4	21.5	19.9	16.7	15.2	17.6
ANAH	14.0	12.5	17.3	22.7	25.1	23.5	18.6	....	19.1
RUTBAH	12.9	11.5	16.4	21.4	23.1	21.9	17.4	14.8	17.4
HABBANIYA	16.6	15.9	20.0	24.5	26.4	24.5	17.1	18.3	20.4
BAGHDAD	17.6	16.1	20.4	24.8	26.2	24.6	20.6	18.6	21.1
NUKHAIB	....	....	18.7	23.4	26.0	24.6	21.1	....	22.8
HAI	17.8	16.8	22.6	26.5	27.6	24.6	20.6	18.8	21.9
NAJAF	18.2	16.5	22.1	26.6	27.9	25.9	22.3	19.1	22.3
DIWANIYA	17.5	16.2	22.6	26.6	27.6	24.0	21.4	18.9	21.9
NASIRIYA	19.9	18.7	21.9	25.5	26.7	25.5	22.5	20.9	22.7
BASRAH	20.7	19.9	23.2	26.4	27.0	25.1	22.7	21.6	23.3

TABLE 3. MONTHLY MEAN VAPOUR-PRESSURE (MB.) (للمليبارات) معدل ضغط البخار

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.2	10.1	10.5	10.4	9.8	9.6	....	9.9
MOSUL	12.4	12.0	13.7	14.2	13.3	13.1	13.8	13.0	13.2
SALAHADDIN	....	9.2	9.7	10.5	10.8	10.6	9.7	....	10.1
KIRKUK	11.0	11.2	12.6	12.1	11.2	11.8	12.2	11.6	11.7
ANAH	10.6	10.3	11.2	11.0	10.2	9.9	11.2	....	10.6
RUTBAH	8.2	8.2	8.5	7.5	7.2	7.3	7.9	7.7	7.8
HABBANIYA	13.1	12.8	13.9	13.1	11.9	12.2	13.4	13.1	12.9
BAGHDAD	12.6	12.7	13.5	11.9	11.1	11.3	12.9	12.6	12.3
NUKHAIB	....	....	9.9	8.6	7.6	8.1	8.4	....	8.5
HAI	14.9	14.7	15.7	15.2	14.7	14.9	15.3	15.0	15.1
NAJAF	12.4	12.1	12.5	11.7	11.1	10.8	12.1	12.6	11.9
DIWANIYA	12.5	12.7	13.6	12.6	12.1	11.7	12.8	13.6	12.7
NASIRIYA	14.7	14.5	15.7	14.4	14.2	14.9	15.6	15.6	15.0
BASRAH	18.6	19.0	19.3	18.6	18.6	19.0	19.8	18.9	19.0

TABLE 4. MONTHLY MEAN WET-BULB TEMPERATURES (°C) معدل درجة الحرارة للبصلة الرطبة

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.6	10.5	11.6	12.3	11.4	10.1	....	10.8
MOSUL	10.9	10.4	13.3	15.4	15.5	14.4	13.1	11.5	13.1
SALAHADDIN	....	8.1	9.4	10.4	10.9	10.2	8.8	....	9.6
KIRKUK	11.2	11.1	13.8	14.6	14.5	14.1	13.0	12.0	13.0
ANAH	10.8	10.0	12.6	14.8	15.3	14.6	13.3	....	13.0
RUTBAH	8.7	8.0	10.7	12.4	13.1	12.6	10.8	9.4	10.7
HABBANIYA	13.4	13.0	15.3	16.3	16.9	16.2	15.2	14.2	13.8
BAGHDAD	13.6	12.7	15.3	16.3	16.4	15.8	15.1	14.0	14.9
NUKHAIB	....	....	12.6	14.0	14.5	14.1	12.8	....	13.6
HAI	14.7	14.2	16.9	18.0	17.8	17.2	16.0	15.1	16.2
NAJAF	13.7	12.7	15.4	16.8	17.0	16.1	15.2	14.7	15.2
DIWANIYA	13.5	12.9	16.2	17.5	17.4	16.5	15.4	14.6	16.0
NASIRIYA	15.7	15.2	16.9	17.7	18.1	18.0	17.2	16.6	16.9
BASRAH	17.9	17.8	19.1	20.0	20.1	19.7	19.2	18.4	19.0

TABLE 5 . MONTHLY MEAN DEW-POINT (°C) معدل درجة الندى (سنتيغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	5.4	6.7	6.7	7.0	6.4	6.0	....	6.4
MOSUL	9.9	9.4	13.3	11.9	11.0	10.6	11.5	10.6	11.0
SALAHADDIN	....	5.6	6.4	7.5	7.9	7.6	6.4	....	6.9
KIRKUK	8.2	8.9	10.1	9.6	8.1	9.0	9.7	9.0	9.0
ANAH	7.4	7.1	8.3	7.3	6.3	6.0	8.1	....	7.3
RUTBAH	3.5	3.5	4.0	1.8	1.6	1.3	3.0	2.5	2.7
HABBANIYA	10.5	10.2	11.4	10.2	9.0	9.4	10.9	11.0	10.3
BAGHDAD	10.1	10.1	11.0	8.8	7.7	8.0	10.4	10.0	9.5
NUKHAIB	....	....	6.1	4.3	2.1	2.7	3.6	....	3.8
HAI	12.5	12.3	13.3	12.6	12.3	12.6	13.1	12.8	12.7
NAJAF	9.6	9.1	9.8	8.5	7.7	7.3	9.2	9.9	8.9
DIWANIYA	9.9	10.0	10.8	10.1	9.5	8.7	10.3	11.1	10.1
NASIRIYA	12.3	12.0	13.1	11.7	11.5	12.4	13.2	13.3	12.4
BASRAH	16.0	16.5	16.6	15.8	15.7	16.2	16.9	16.3	16.3

MONTHLY MEANS المعدلات الشهرية

TABLE 6. RELATIVE HUMIDITY (%) الرطوبة النسبية

STATIONS	TIME - G. M. T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	69	63	55	52	55	61	...	59
MOSUL	87	88	77	61	54	61	79	85	74
SALAHADDIN	...	75	70	71	70	73	75	...	72
KIRKUK	69	72	63	55	47	53	66	68	62
ANAH	66	70	58	41	34	35	54	...	52
RUTBAH	55	60	45	30	26	28	40	45	41
HABBANIYA	70	71	59	43	35	41	57	63	55
BAGHDAD	63	70	57	39	33	38	54	60	52
NUKHAIB	...	...	46	31	23	27	36	...	33
HAI	72	75	58	46	42	49	64	70	59
NAJAF	60	64	48	34	30	33	45	54	46
DIWANIYA	63	69	50	37	34	37	51	62	50
NASIRIYA	64	67	60	45	41	47	57	63	56
BASRAH	75	82	67	55	52	59	71	73	67

TABLE - 7 PRESSURE (MBS.) AT M.S.L. الضغط الجوي على سطح البحر (ملليبارات)

SINJAR	...	14.1	14.0	13.9	12.9	13.0	14.2	...	1013.7
MOSUL	13.7	13.8	14.7	14.3	13.0	12.8	14.1	14.2	1013.8
SALAHADDIN	...	13.5	12.9	13.4	12.7	12.9	13.9	...	1013.2
KIRKUK	12.9	13.0	13.4	13.3	12.4	12.4	13.6	13.7	1013.1
ANAH	13.0	13.2	14.4	13.8	12.1	11.8	13.4	...	1013.2
RUTBAH	11.4	12.1	12.8	12.3	11.3	11.0	12.1	12.1	1011.9
HABBANIYA	11.4	11.7	13.1	12.7	11.3	11.0	12.2	12.1	1012.0
BAGHDAD	11.9	12.2	13.7	13.3	11.9	11.8	12.7	13.0	1012.6
NUKHAIB	...	...	13.5	12.5	10.9	10.7	12.0	...	1011.9
HAI	11.0	11.6	13.0	12.5	11.4	10.8	12.0	12.0	1011.7
NAJAF	11.4	12.0	13.3	12.8	11.1	10.8	12.1	12.1	1012.0
DIWANIYA	11.6	12.2	13.4	13.0	11.5	11.2	12.6	12.7	1012.3
NASIRIYA	10.9	11.7	13.0	12.4	10.9	10.6	11.9	12.0	1011.7
BASRAH	11.4	12.1	13.3	13.1	11.7	11.4	12.2	12.3	1012.2

TABLE - 8. TOTAL CLOUD AMOUNTS (OKTAS) مجموع كمية الغيوم (اثمان)

SINJAR	...	4.5	2.4	4.2	4.5	4.4	3.3	...	3.9
MOSUL	3.8	5.0	5.5	5.6	6.0	5.0	3.8	3.4	4.8
SALAHADDIN	...	4.7	5.0	5.6	5.5	5.3	4.2	...	5.1
KIRKUK	3.9	5.0	5.1	5.1	5.4	5.0	3.3	3.7	4.6
ANAH	3.2	3.8	3.7	3.6	4.2	4.1	2.7	...	3.6
RUTBAH	2.5	3.3	3.7	4.1	4.7	4.5	2.7	2.5	3.5
HABBANIYA	4.4	4.7	4.5	4.1	4.6	4.5	3.8	3.6	4.3
BAGHDAD	3.8	5.0	4.8	4.8	4.9	4.6	4.3	3.8	4.5
NUKHAIB	...	...	3.7	3.6	4.2	4.4	3.1	...	3.8
HAI	3.8	4.8	5.1	5.4	5.5	5.2	3.9	3.7	4.7
NAJAF	4.3	4.6	4.8	5.2	5.1	4.9	4.0	4.0	4.6
DIWANIYA	3.2	4.0	4.4	4.9	4.8	4.6	3.2	3.3	4.1
NASIRIYA	3.5	4.3	4.5	4.7	4.9	4.3	2.9	3.8	4.1
BASRAH	3.9	4.2	4.5	4.8	4.8	4.6	4.1	3.7	4.3

TABLE - 9 LOW CLOUD (OKTAS) كمية الغيوم الواطئة (اثمان)

SINJAR	...	2.0	4.2	2.8	2.9	2.6	1.8	...	2.7
MOSUL	2.9	3.7	4.0	4.9	4.8	3.5	2.4	2.5	3.6
SALAHADDIN	...	3.5	3.0	4.1	4.1	3.3	3.1	...	3.5
KIRKUK	2.5	3.3	3.6	4.2	3.9	3.5	2.3	2.1	3.2
ANAH	1.4	1.7	1.3	1.5	2.6	1.6	1.1	...	1.6
RUTBAH	0.9	1.0	0.8	1.4	2.2	1.8	1.0	0.7	1.2
HABBANIYA	1.0	1.0	1.4	1.6	1.9	1.3	1.1	0.8	1.3
BAGHDAD	1.0	1.1	1.7	1.5	2.3	1.7	0.6	0.6	1.3
NUKHAIB	...	...	1.7	1.6	2.3	2.0	1.6	...	1.8
HAI	0.9	1.0	1.3	1.8	1.8	1.5	1.1	0.9	1.3
NAJAF	0.9	1.0	1.5	1.7	1.8	1.6	1.0	1.0	1.3
DIWANIYA	1.1	1.4	1.3	1.4	2.0	1.7	0.7	0.6	1.3
NASIRIYA	1.6	2.8	2.5	2.2	2.4	2.8	1.3	1.6	2.2
BASRAH	0.8	1.2	1.3	1.8	1.5	1.4	1.2	1.1	1.3

APRIL 1969.

TABLE 10 a.

نيسان ١٩٦٩

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND NUMBER OF OBSERVATION OF:

المحطة STATIONS	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة MEAN V.Ks
سنجار SINJAR	0300	7	2	10	2	1	3	3	2	0	26	4	0	0	7
	0600	8	1	10	1	1	1	4	1	3	21	6	0	0	7
	0900	2	0	9	5	2	1	7	2	2	20	8	0	0	8
	1200	0	2	6	2	2	0	10	4	4	10	16	0	0	9
	1500	4	0	7	1	5	1	9	3	0	18	12	0	0	10
	1800	6	3	4	4	1	1	6	4	1	24	5	0	0	7
	TOTAL	27	8	46	15	12	7	39	16	10	119	41	0	0	8
موصل MOSUL	0000	0	0	1	2	2	0	6	0	19	10	1	0	0	2
	0300	1	1	1	0	2	0	4	3	18	12	0	0	0	2
	0600	3	3	2	1	4	0	3	4	10	20	0	0	0	3
	0900	1	1	7	1	3	0	6	1	10	18	2	0	0	4
	1200	3	1	6	5	2	0	6	2	5	21	4	0	0	6
	1500	0	0	5	3	2	0	6	4	10	14	6	0	0	6
	1800	1	0	0	3	3	0	3	0	20	10	0	0	0	2
	2100	1	0	1	1	3	0	1	2	21	8	1	0	0	2
	TOTAL	10	6	23	16	21	0	35	16	113	113	14	0	0	4
صلاح الدين SALAHADDIN	0300	8	2	2	5	9	1	0	0	3	20	7	0	0	7
	0600	6	2	0	6	8	2	0	0	6	17	6	1	0	7
	0900	1	3	1	1	16	3	2	0	3	20	6	1	0	8
	1200	4	4	0	3	8	6	3	0	2	20	8	0	0	6
	1500	6	3	2	3	5	2	5	0	4	23	1	2	0	6
	1800	1	4	3	4	6	0	5	0	7	16	7	0	0	6
	TOTAL	26	18	8	22	52	14	15	0	25	116	35	4	0	7
كركوك KIRKUK	0000	0	1	1	1	0	0	0	0	27	3	0	0	0	0
	0300	0	5	1	2	0	1	0	0	21	9	0	0	0	1
	0600	0	1	4	4	0	0	0	0	21	8	1	0	0	2
	0900	1	2	0	3	3	1	6	0	14	15	1	0	0	4
	1200	0	5	2	1	1	3	3	2	13	14	3	0	0	4
	1500	1	4	0	1	0	0	1	1	22	7	1	0	0	2
	1800	0	4	1	3	0	0	1	0	21	9	0	0	0	2
	2100	0	3	1	2	0	0	0	0	24	6	0	0	0	1
	TOTAL	2	25	10	17	4	5	11	3	163	71	6	0	0	2
عنة ANAH	0000	2	0	2	1	1	0	6	1	17	8	4	0	1	5
	0300	3	1	2	2	1	0	4	3	14	12	4	0	0	5
	0600	6	1	0	3	0	2	7	3	8	19	3	0	0	6
	0900	3	4	5	2	2	0	9	5	0	22	6	2	0	10
	1200	4	2	3	4	3	0	8	4	2	17	10	1	0	10
	1500	1	4	1	5	4	0	9	3	3	18	8	0	1	9
	1800	0	3	6	2	0	0	4	3	12	12	6	0	0	6
	TOTAL	19	15	19	19	11	2	47	22	56	108	41	3	2	7

TABLE 10 b

عدد تكرار رصدات الرياح السطحية

SURFACE WIND NUMBER OF OBSERVATIONS OF:

المحطة STATIONS	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة MEAN V.K.
رطبة RUTBAH	0000	1	1	3	1	1	6	6	4	7	17	6	0	0	6
	0300	3	0	1	2	2	4	11	1	6	16	8	0	0	7
	0600	5	1	0	4	3	6	7	2	2	11	15	2	0	11
	0900	3	1	0	0	7	5	9	4	1	16	7	6	0	12
	1200	2	2	0	2	3	3	11	6	1	17	10	1	1	11
	1500	5	3	3	2	1	4	9	3	0	20	9	1	0	11
	1800	6	3	2	5	4	1	7	2	0	20	9	1	0	6
	2100	4	1	3	7	0	3	6	2	4	17	9	0	0	8
	TOTAL	29	12	12	23	21	32	66	24	21	134	73	11	1	9
حبانية HABBANIYA	0000	1	2	5	1	2	0	1	1	17	10	2	1	0	4
	0300	0	0	4	2	2	0	3	4	15	11	4	0	0	5
	0600	3	2	2	3	2	1	4	2	11	13	5	1	0	6
	0900	5	1	3	2	7	3	4	3	2	20	7	1	0	9
	1200	1	1	5	2	6	1	6	5	3	17	9	1	0	9
	1500	6	6	4	4	2	0	2	2	4	20	6	0	0	7
	1800	3	2	3	3	1	0	1	0	17	12	1	0	0	3
	2100	2	0	4	1	2	0	2	0	19	9	2	0	0	3
	TOTAL	21	14	30	18	24	5	23	17	88	112	36	4	0	6
بغداد BAGHDAD	0000	5	3	3	6	2	0	1	4	6	19	5	0	0	6
	0300	6	4	2	5	2	0	2	5	4	22	4	0	0	7
	0600	6	2	3	5	1	2	2	5	4	19	7	0	0	7
	0900	5	1	2	5	3	2	2	9	1	19	10	0	0	10
	1200	3	1	5	5	1	2	4	8	1	16	11	2	0	10
	1500	10	2	1	6	0	2	1	5	3	16	10	1	0	9
	1800	3	4	5	6	0	0	0	6	6	22	2	0	0	5
	2100	2	4	3	8	2	1	0	5	5	20	5	0	0	6
	TOTAL	40	21	24	46	11	9	12	47	30	153	54	3	0	8
نخيب NUKHAIB	0600	4	1	3	6	5	1	9	0	1	28	1	0	0	5
	0900	3	2	3	1	6	3	10	0	2	24	4	0	0	6
	1200	1	4	4	3	5	2	10	0	1	20	9	0	0	7
	1500	0	1	4	4	2	2	14	0	3	23	4	0	0	5
	1800	0	0	4	3	1	3	13	0	6	22	2	0	0	4
	TOTAL	8	8	18	17	19	11	5	0	13	117	20	0	0	5
حسن HAI	0000	2	0	8	3	3	0	4	5	5	18	6	1	0	7
	0300	1	0	8	3	1	1	6	7	3	23	3	1	0	6
	0600	4	1	11	1	3	1	2	6	1	25	4	0	0	7
	0900	6	1	9	1	1	1	3	8	0	18	12	0	0	9
	1200	8	0	8	2	3	0	1	8	0	18	12	0	0	9
	1500	10	0	10	0	0	0	1	7	2	20	8	0	0	8
	1800	8	1	7	1	2	0	3	5	3	22	3	2	0	6
	2100	5	0	7	2	3	0	1	6	6	20	2	2	0	7
	TOTAL	44	3	68	13	16	3	21	52	20	164	50	6	0	7

TABLE 10 عدد تكرار رصدات الرياح السطحية

SURFACE WIND NUMBER OF OBSERVATIONS OF:

المحطة STATIONS	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة MEAN V.K.
نجف NAJAF	0000	3	2	0	6	1	1	3	6	8	18	2	2	0	5
	0300	1	0	0	4	3	1	4	8	9	20	1	0	0	3
	0600	1	1	1	4	5	1	3	12	2	25	3	0	0	5
	0900	3	1	0	3	5	2	4	7	5	23	2	0	0	4
	1200	7	0	1	7	2	1	1	9	2	24	2	2	0	7
	1500	4	0	2	8	0	0	4	10	2	27	1	0	0	5
	1800	3	2	0	4	2	2	1	8	8	22	0	0	0	3
	2100	2	3	1	5	2	1	2	5	9	20	0	1	0	4
	TOTAL	24	9	5	41	20	9	22	65	45	179	11	5	0	5
ديوانية DIWANIYA	0000	0	2	1	5	1	1	5	1	14	13	3	0	0	4
	0300	3	0	0	4	2	5	4	0	12	16	2	0	0	4
	0600	4	0	3	2	2	2	9	1	7	19	4	0	0	6
	0900	5	1	1	3	3	3	8	3	3	19	8	0	0	8
	1200	3	2	2	5	0	1	9	6	2	19	9	0	0	8
	1500	6	1	1	4	0	0	4	3	11	13	6	0	0	5
	1800	4	2	2	3	2	0	0	1	16	12	2	0	0	3
	2100	4	1	4	3	1	0	2	0	15	14	1	0	0	4
	TOTAL	29	9	14	29	11	12	41	15	80	125	35	0	0	5
ناصرية NASIRIYA	0000	4	1	2	7	3	3	3	4	3	22	5	0	0	7
	0300	2	1	4	5	1	2	6	7	2	25	1	2	0	6
	0600	0	0	0	8	3	3	6	9	1	26	2	1	0	7
	0900	1	1	2	5	2	3	7	9	0	23	7	0	0	8
	1200	2	1	6	3	0	1	2	14	1	20	9	0	0	9
	1500	2	1	6	5	0	1	3	12	0	22	8	0	0	8
	1800	6	0	5	5	2	1	1	4	6	19	5	0	0	6
	2100	3	0	2	6	2	3	2	8	4	23	3	0	0	5
	TOTAL	20	5	27	44	13	17	30	67	17	180	40	3	0	7
بصرة BASRAH	0000	10	5	1	1	5	3	3	2	0	25	5	0	0	6
	0300	5	1	3	6	1	2	8	4	0	25	4	1	0	7
	0600	7	1	4	1	6	0	7	4	0	17	13	0	0	10
	0900	8	1	4	3	2	3	2	7	0	16	13	1	0	11
	1200	7	5	5	3	3	0	1	6	0	19	10	1	0	9
	1500	5	3	6	4	2	0	2	8	0	27	3	0	0	7
	1800	4	2	3	4	5	1	3	7	1	24	5	0	0	6
	2100	3	2	1	2	7	3	5	6	1	25	3	1	0	7
	TOTAL	49	20	27	24	31	12	31	44	2	178	56	4	0	8

TABLE 11. اعلى سرعة ريح حدثت خلال ساعة

HIGHEST - WIND SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	21	270	1500	12th
MOSUL	16	260	0900	12th
SALAHADDIN	25	180	1500	12th
KIRKUK	18	160	0900	6th
ANAH	40	250	1500	12th
RUTBAH	36	260	1200	12th
BAGHDAD	22	300	1200	13th
HABBANIYA	28	270	0900	13th
NUKHAIB	18	270	1200	13th
HAI	26	090	0000	1st
NAJAF	26	350	1200	1st
DIWANIYA	18	130	0900	25th
NASIRIYA	27	280	0300	26th
BASRAH	25	280	0300	30th

APRIL 1969.

TABLE 12 a.

نيسان ١٩٦٩

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

الايام	سنجار	موصل	صلاح الدين	كركوك	عنة	رطبة	حبانية
DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1	19.3	12.6	40.3	25.3	9.8	tr.	2.3
2			5.7	1.5			19.6
3		0.5					
4		1.0	8.7	0.7			tr.
5		13.2	5.2	0.1		tr.	
6	7.9	13.0	27.6	17.3	2.1		
7	9.8		tr.	8.8			
8		tr.	0.7	tr.	0.8		
9	1.8	3.7	6.0	2.8			
10	1.4	9.8	4.0	tr.	tr.	tr.	5.0
11	3.6	2.7	3.0	4.2	tr.		tr.
12	4.8	2.9	1.0	5.2			tr.
13	2.7	0.4		tr.			
14							
15		2.8	1.2	1.9	1.3	13.0	tr.
16	7.5	1.8	3.4	2.9	1.2		tr.
17		1.5	9.6	1.7			tr.
18							
19							
20							
21							
22							
23							
24						1.3	
25				tr.			3.8
26							
27	1.4	0.9					tr.
28	5.0	2.5	1.2	tr.	7.7	0.7	tr.
29	16.1	21.5	36.7	5.7	tr.	tr.	tr.
30			14.2				
TOTAL	115.3	90.8	168.5	78.1	21.9	15.0	30.7
NORMAL	70.0	54.9	130.4	47.6	22.3	19.9	16.9

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	76.7 mms	11th	1963
MOSUL	74.8	11th	1931
SALAHADDIN	86.7	12th	1964
KIRKUK	49.8	18th	1968
ANAH	66.8	17th	1956
RUTBAH	43.7	10th	1946
HABBANIYA	30.0	7th	1955

TABLE 12 b. الهطول اليومي (ملليمترات)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

الايام	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	11.7	5.0	tr.	1.9	0.3		
2		tr.	tr.	tr.	0.3		tr.
3	tr.		1.5	1.4	0.6		tr.
4	1.2		23.0	2.3	5.1	6.2	4.8
5			1.3		0.1	6.1	35.8
6				tr.			
7	4.6		tr.	2.3	tr.		
8	tr.						
9	tr.	tr.	0.8	1.3	1.8	0.2	tr.
10	7.6	2.0			tr.		
11	tr.		tr.				
12	0.4	tr.	0.7	tr.	0.2	0.7	2.1
13							
14							
15	0.4	tr.		tr.	1.0		
16	0.3	tr.	4.6	tr.	tr.	18.0	11.9
17	tr.			tr.		1.6	9.8
18							
19							
20							
21							
22							
23							
24							
25						tr.	tr.
26		tr.					tr.
27		6.0		2.3		tr.	
28	0.9			tr.	tr.		
29	tr.		3.0	1.2		6.5	4.0
30	tr.		tr.	3.8	0.3	0.2	1.5
TOTAL	27.1	13.0	34.9	16.5	9.7	39.5	69.9
NORMAL	15.5	5.5	11.9	1.6	19.0	20.6	21.9

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	71.0 mms	18th	1968
NUKHAIB	20.0	18th	1968
HAI	88.2	10th	1963
NAJAF	28.4	19th	1968
DIWANIYA	48.7	19th	1968
NASIRIYA	33.6	10th	1963
BASRAH	87.5	9th	1941

APRIL 1969. TABLE 12 c. (11) نيسان ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05mm (ملليمترات) الهطول اليومي

الايام	زاخو	ربيعة	تل حكنة	بعاج	صلبي	طريفاوي	دهوك	بعشيقة	حمام العليل
DAYS	ZAKHO	RABIA	TAL-HIQNA	BAAJ	SLUBI	TURAI FAWI	DUHOK	BASH-IQA	HAMMAM-ALALIL
1	28.8	16.0			13.0	5.0	28.0	6.0	13.9
2	2.4			9.0				16.0	
3	[illegible]				[illegible]				
4									
5									1.5
6	16.0				10.0				9.7
7	1.6	28.0	15.0	10.0	5.0		6.8	9.0	
8	10.4								
9	6.8						11.0		2.5
10	4.0			2.0				4.0	
11			27.0	7.0					7.2
12	21.6	32.0		2.0			12.0		1.2
13		8.0	28.0	2.0				3.0	
14									
15					1.0				2.5
16	11.6			2.0	5.0	2.0			2.9
17	5.6			3.0	10.0	2.0	18.0	9.0	
18									
19									
20									
21									
22									
23									
24									
25									
26									
27	9.6								
28					8.0				2.9
29	27.2	16.0			8.0	10.0	42.0		18.4
30	4.8			6.0		2.0		24.0	4.0
TOTAL	150.4	100.0	70.0	43.0	60.0	21.0	117.8	71.0	66.7

APRIL 1969. TABLE 12 d. (12) tr. 0.05mm نيسان ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS) tr. 0.05mm

الايام	تلعفر	عقرة	عمادية	عين سفني	شرقاط	الكوير	مخمور	افراز	ديانا
DAYS	TAL-AFAR	AQRA	AMA-DIYA	AIN-SIFNI	SHIR-QAT	ALQ-UAIR	MAKH-MOOR	IFRAZ	DIANA
1	3.0	38.4	40.0	29.0		15.0	20.0	52.7	64.0
2		8.2	2.0						64.0
3		4.5				5.0			5.0
4		5.1	10.0			7.0		6.9	4.4
5	2.5	tr.	6.0		15.0			4.4	
6	9.0	18.4	2.0				10.0	22.8	36.2
7		tr						2.9	2.0
8		3.7	25.0	6.1				1.7	7.8
9	.5	tr.				10.0		4.3	3.5
10	18.5				11.0			3.4	1.2
11	0.7	1.2				5.0	12.0	1.6	3.4
12	4.5	7.3	85.0					5.4	10.0
13		1.4							1.0
14									
15						10.0			
16	11.3	13.3							7.2
17	1.0	10.2			7.0	8.0		10.5	19.8
18		4.5							21.8
19									
20									
21									
22									
23									
24									
25						2.0			
26	2.0				25.0				
27								1.7	
28	6.0							2.5	
29	10.0	43.7	98.0				9.0	28.6	28.8
30		6.8							
TOTAL	68.5	166.7	268.0	35.1	58.0	80.0	51.0	149.4	215.9

APRIL 1969. TABLE 12 e.

نيسان ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

الايام	حويجة	افتخار	كفرى	بكره جو	سليمانية	بعقوبة	منصور	جلولاء	بلدروز	مندلي
DAYS	HAWIJA	IFTI-KHAR	KIFRI	BAK-RAJO	SULAI-MANIYA	BAQ-UBA	MAN-SOOR	JAJA-WLA	BALA-DROZ	MANDILI
1	11.2	16.0	27.8	60.0	80.0	10.0	10.0			22.9
2				2.0	7.2			2.5	23.0	
3				4.0						5.3
4				12.0	20.0		9.0			78.5
5				13.0	12.0				10.0	
6	9.7		13.1	25.0	32.0					12.7
7				22.0	28.0		3.0			
8			5.2							5.2
9	2.3			10.0	12.0		20.0		35.0	
10	[illegible]	[illegible]		8.0	12.0	22.0	5.0			17.8
11	3.3	5.9		5.0	12.0	8.0	1.0			25.4
12			23.5	25.0	16.0					
13			10.4	1.0						
14										
15	4.2							3.8		11.4
16					4.0					
17				14.0	12.0					
18								2.5		
19										
20										
21										
22										
23										
24										
25										
26										
27	6.2									
28				6.0						
29	8.5			6.0	12.0					3.8
30	1.5			12.0	20.0					5.4
TOTAL	46.9	22.9	80.0	225.0	275.2	40.0	48.0	8.8	68.0	193.1

APRIL 1969. TABLE 12 r. (14) نيسان ١٩٦٩

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm (ملليمترات) الهطول اليومي

الايام	هيت	القائم	بيجي	تكريت	سامرا	دجيل	محمودية	نعمانية	بدرة	علي الغربي	فضيلية
DAYS	HIT	QAIM	BAIJI	TIK-RIT	SAM-ARRA	DUJAIL	MAHM-ODIYA	NUMA-NIYA	BAD-RAH	ALIAL-GHARBI	FADI LIYA
1	2.8		6.5			21.1					
2							10.9				
3										3.7	
4					2.5			13.5	47.0	28.5	1.7
5									1.0	18.7	
6			4.0								
7			0.4								4.3
8											
9			2.0	[illegible]		18.5			17.0	10.4	
10			4.7			0.5		7.0	2.5		5.3
11			0.4	21.8							0.4
12									4.5		0.4
13											
14											
15			2.2			tr.					
16										21.7	
17					2.0	0.8				1.0	
18											
19											
20											
21											
22	1.1										
23											
24											
25			0.5								
26					1.3						
27											
28											
29		25.2	12.6							2.7	
30				21.8						4.2	
TOTAL	3.9	25.2	33.3	43.6	5.8	40.9	10.9	20.5	72.0	90.9	12.1

APRIL 1969. TABLE 12 g. (15) نيسان ١٩٦٩

DAILY PRECIPITATION(MILLIMETERS) tr <0.05mm (المهطول اليومي (بالمليمترات

الايام DAYS	عمارة AMA-RAH	كربلاء KAR-BALA	مسيب MUSA IYAB	حلة HILLA	اور UR	فاو FAO	شقلاوة SHAQ-LAWA	الديم DAIM	فتحة FATHA	الدواية ALDI WAYA.
1										
2		14.0	2.0	4.6			2.5			
3			4.8			5.5				
4	1.2		3.6	1.0						
5	10.5				13.7	2.0				
6	25.8				2.5					
7										
8	2.4	14.0	7.5	7.6						
9										
10	0.5									
11			10.0			6.5				
12										
13	1.0		0.2							
14										
15										
16										
17	15.0		0.2		24.1	8.0				
18	14.0		1.0				0.5			
19							13.5	2.5		
20							10.8			
21							3.4			
22								2.5	tr.	
23										
24										
25										
26										
27								2.0	tr.	
28									2.0	
29								8.5	4.5	
30	10.0				7.6	5.0				
TOTAL	80.4	28.0	29.3	13.2	47.9	27.0	30.7	15.5	11.2	0.0

APRIL 1969. TABLE 13. نيسان ١٩٦٩ (16)

DAILY GRASS MINIMUM TEMPERATURE °C AND SOIL TEMPERATURE °C OF 0.3M AND 1.2M درجات الحرارة للحشيش و التربة (سنتغراد)

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	12.1	16.4	17.8	17.1	21.5	24.4	23.0	16.5	23.8	21.6	25.3	22.8	22.0	25.8	22.6	14.6
2	8.0	5.5	16.8	17.1	12.2	23.3	22.0	6.4	20.9	21.7	21.8	22.0	17.4	25.7	22.8	15.7
3	1.2	4.2	16.5	17.3	6.7	22.5	22.2	7.6	19.6	21.8	21.8	23.0	11.5	23.5	22.4	9.3
4	9.5	5.8	16.6	17.2	11.1	22.2	22.1	6.4	18.4	21.7	21.0	23.0	12.1	22.9	23.1	13.8
5	10.8	10.0	16.4	17.2	9.5	22.0	22.3	9.5	19.0	21.7	19.3	13.0	11.6	22.0	23.3	10.5
6	8.0	7.5	16.8	17.2	11.7	22.7	22.1	8.5	19.5	21.8	19.4	13.4	11.2	20.5	23.2	6.7
7	4.2	7.6	16.0	17.3	12.7	23.0	22.2	9.2	20.2	21.5	21.5	22.5	13.1	21.5	23.1	6.4
8	3.2	6.1	16.1	17.2	10.9	22.5	22.3	10.0	19.4	21.8	22.6	21.2	14.2	22.5	23.2	11.8
9	2.8	8.5	16.6	17.2	14.0	23.5	22.2	14.6	20.3	21.7	23.2	22.7	18.9	23.7	23.1	14.4
10	5.4	8.5	15.9	16.6	12.8	23.5	22.4	13.2	20.4	21.6	23.0	22.6	17.0	24.3	23.0	14.8
11	5.8	10.7	17.0	17.3	15.0	24.4	22.5	14.2	21.2	21.6	23.7	22.7	19.4	24.7	23.1	14.9
12	7.2	8.5	16.6	17.2	15.6	24.8	22.5	14.5	21.6	21.5	24.6	23.0	20.3	25.9	23.1	15.2
13	4.0	2.6	16.0	17.3	11.1	23.5	21.5	8.5	19.5	21.7	22.3	23.2	17.2	24.2	23.2	16.2
14	4.0	3.4	15.5	17.2	7.8	23.0	22.7	2.6	18.5	21.7	21.2	23.0	11.8	23.3	23.4	10.5
15	2.8	4.9	16.2	17.4	12.8	23.5	22.6	5.5	19.2	21.6	22.1	23.0	11.5	23.3	23.3	xx
16	7.5	10.7	16.4	17.2	16.1	23.6	22.6	14.3	20.2	21.6	22.8	23.2	16.2	24.1	23.4	7.0
17	10.5	10.0	16.1	17.2	14.5	22.8	22.6	10.7	19.8	21.7	22.7	23.1	18.0	24.1	23.3	15.8
18	3.0	6.1	16.1	17.2	11.1	23.0	22.8	6.5	20.0	24.4	22.0	23.1	12.2	22.4	23.5	8.6
19	5.0	6.8	16.5	17.2	11.1	24.0	22.8	4.6	20.6	21.6	22.8	22.8	13.7	22.8	23.5	9.5
20	6.0	8.4	17.1	17.2	12.1	24.5	22.8	8.0	21.8	22.1	23.0	23.0	13.9	23.5	23.5	5.9
21	4.5	9.4	17.7	17.3	12.2	25.2	23.0	12.8	23.0	21.6	25.0	23.6	16.2	24.0	23.5	9.5
22	7.0	8.7	18.2	17.3	13.4	25.7	22.9	9.3	23.8	21.8	24.5	23.6	15.7	24.6	23.5	9.6
23	7.2	10.2	18.6	17.5	14.1	26.1	23.0	11.0	25.0	22.0	26.1	23.8	17.6	25.2	23.5	9.2
24	5.5	9.0	18.9	17.6	16.5	26.6	23.4	12.3	24.6	22.0	26.6	24.2	16.2	25.3	23.5	10.6
25	16.7	15.4	19.5	17.8	18.9	27.0	23.3	15.5	25.0	22.2	27.6	24.4	21.5	26.5	23.6	14.4
26	9.1	11.5	19.1	17.8	18.9	27.0	23.6	18.5	25.6	22.1	27.8	24.6	20.6	27.5	23.8	17.2
27	8.6	17.5	20.5	18.1	21.0	28.0	23.7	18.8	27.1	22.5	28.6	25.0	22.4	27.5	23.8	15.0
28	15.6	19.5	21.4	18.2	23.2	29.3	24.0	22.0	28.0	22.8	28.5	25.2	26.1	29.0	24.0	18.9
29	13.7	18.2	21.1	18.4	20.6	29.5	24.0	19.5	28.0	22.9	29.6	25.5	26.5	29.5	24.0	18.7
30	12.4	14.5	20.8	18.5	20.0	28.1	24.4	19.4	26.5	23.0	26.4	25.7	19.2	28.7	24.1	18.4
MEANS	7.2	9.5	17.5	17.4	14.3	24.6	22.9	11.7	22.0	22.0	23.9	22.7	16.8	24.6	23.4	12.5

APRIL 1969. TABLE 14. (17) نيسان ١٩٦٩

DAILY EVAPORATION IN PAN CLASS A. AT 0600 GMT. التبخر اليومي (بالمليمترات)

DAYS	MOSUL	KIRKUK	ANAH	BAGHDAD	NUKHAIB	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	3.6	6.3	4.0	6.7	3.0	8.0	5.3	8.0	9.0
2	3.0	3.5	7.0	6.0	5.0	5.0	4.3	6.0	4.0
3	5.5	5.0	4.0	5.0	6.0	4.0	2.6	3.0	5.0
4	4.0	1.7	5.0	1.2	6.0	2.0	3.1	2.2	0.8
5	4.2	2.1	4.0	4.0	7.0	3.0	1.1	2.1	0.8
6	5.0	3.3	2.0	6.0	6.0	4.0	3.0	4.0	3.0
7	4.0	6.8	5.0	2.6	6.0	3.0	6.0	4.0	5.0
8	5.0	5.0	5.0	5.0	8.0	3.0	4.0	4.0	5.0
9	5.7	0.8	6.0	6.0	5.0	4.0	3.8	4.0	5.0
10	3.8	5.0	6.0	4.6	9.0	4.0	4.0	4.0	5.0
11	3.7	2.3	6.0	5.0	9.0	5.0	6.0	4.0	7.0
12	4.9	3.2	10.0	4.4	7.0	5.0	4.2	5.7	4.1
13	3.4	3.0	6.0	7.0	6.0	6.0	5.0	4.0	4.0
14	4.0	3.0	6.0	5.0	8.0	4.0	4.0	5.0	4.0
15	4.8	2.9	5.0	5.4	8.0	5.0	5.0	5.0	6.0
16	4.8	0.0	3.0	5.3	6.0	5.0	3.0	6.0	4.9
17	3.5	5.7	6.0	6.0	6.0	6.0	4.0	4.6	1.8
18	5.0	4.0	5.0	6.0	8.0	5.0	6.0	5.0	6.0
19	5.0	4.0	5.0	7.0	9.0	6.0	5.0	5.0	7.0
20	6.0	5.0	5.0	6.0	9.0	6.0	6.0	5.0	4.0
21	6.0	6.0	6.0	10.0	10.0	5.0	5.0	6.0	5.0
22	7.0	5.0	7.0	8.0	12.0	7.0	7.0	7.0	10.0
23	6.0	6.0	6.0	10.0	12.0	7.0	6.0	5.0	3.0
24	5.0	6.0	6.0	5.0	13.0	6.0	6.0	7.0	6.0
25	4.0	4.0	8.0	12.0	13.0	6.0	7.0	7.0	5.0
26	7.0	5.0	8.0	11.0	11.0	7.0	5.0	5.0	4.0
27	5.9	9.0	7.0	9.0	3.0	6.0	7.0	8.0	5.0
28	7.5	6.0	3.0	8.9	13.0	9.0	5.0	7.0	5.0
29	6.5	1.7	4.0	6,0	15.0	7.0	5.0	5.5	1.0
30	6.0	2.0	6.0	3.0	15.0	6.0	5.3	3.2	6.5
TOTAL	149.8	123.3	166.0	187.1	254.0	159.0	143.7	151.33	149.93
MEAN	5.0	4.1	5.5	6.2	8.5	5.3	4.8	5.0	4.7

CLIMATOLOGICAL SUMMARY الملخصات المناخيـــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE عدد الايام التي حدثت فيها الظواهر الجوية ومدة سطوع الشمس

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	MONTH TOTAL	DURATION OF SUNSHINE Hrs. MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	12	0	0	1	0	4	0	0	0	0	0	3	3	-	-	-	-
MOSUL	16	0	0	3	0	3	0	1	0	0	0	3	7	202.7	13.0	14th	3
SALAHADDIN	16	1	0	5	3	1	0	0	0	0	0	3	11	-	-	-	-
KIRKUK	12	0	0	5	0	0	4	1	7	0	0	5	9	-	-	-	-
ANA	6	0	0	4	0	1	0	4	1	2	0	5	5	-	-	-	-
RUTBAH	3	0	0	2	0	0	0	5	2	2	0	6	2	-	-	-	-
HABBANIYA	4	0	0	5	0	4	5	5	7	2	0	5	5	254.5	13.2	21st	2
BAGHDAD	8	0	0	1	0	2	16	4	2	3	0	3	7	224.2	12.6	21st	2
NUKHAIB	3	0	0	1	0	0	0	3	1	0	0	7	2	-	-	-	-
HAI	7	0	0	1	1	0	0	0	2	0	0	5	6	-	-	-	-
NAJAF	8	0	0	3	0	1	3	4	7	3	0	5	8	-	-	-	-
DIWANIYA	8	0	0	1	0	0	2	4	7	4	0	7	5	-	-	-	-
NASIRIYA	8	0	0	5	0	0	0	1	12	2	0	5	7	-	-	-	-
BASRAH	7	0	0	1	5	3	0	3	10	2	0	5	5	214.0	12.3	23rd	2

TABLE-16 HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL & RELATIVE HUMIDITY أعلى وأوطأ ضغط جوي على سطح البحر ورطوبة نسبية

STATION	PRESSURE AT MSL for 1969 mb. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL RECORDS-mb. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY 1969. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1022.6	0300	19th	1001.0	1500	12th	1024.7	0300	24th	1964	999.8	0900	17th	1963	94	1800	6th	24	0900	24th
MOSUL	1022.8	0600	19th	1002.5	1200	12th	1027.9	0300	2nd	1956	995.6	0900	17th	1964	98	0300	24th	34	1200	26th
SALAHADDIN	1021.0	1800	14th	1002.0	1500	12th	1021.0	1800	14th	1969	1001.2	1500	24th	1967	100	0900	29th	34	0600	25th
KIRKUK	1021.6	0300	19th	1003.6	0600	1st	1026.5	2100	1st	1956	994.4	1200	17th	1964	95	0300	5th	20	1200	24th
ANAH	1022.3	0600	19th	999.1	0300	1st	1022.3	0600	19th	1969	999.1	0300	1st	1969	97	0300	30th	16	1200	12th
RUTBAH	1020.0	0900	14th	998.2	0000	1st	1028.7	0600	1st	1956	998.2	0000	1st	1969	92	0600	17th	10	0900	15th
HABBANIYA	1021.4	0600	19th	1000.3	0300	1st	1022.8	0600	6th	1965	994.0	0900	17th	1964	97	0000	2nd	19	1200	24th
BAGHDAD	1021.5	0600	19th	1001.1	0300	1st	1026.6	0900	26th	1956	991.5	0900	17th	1964	94	0300	11th	15	1500	22nd
NUKHAIB	1021.8	0600	19th	1005.4	1500	27th	1023.1	0900	24th	1964	999.0	1200	23rd	1963	75	1800	4th	10	1200	15th
HAI	1020.2	0600	19th	1002.5	1200	1st	1024.8	0900	1st	1956	996.8	0900	19th	1964	99	0300	5th	19	0900	25th
NAJAF	1021.6	0600	19th	1001.5	0300	1st	1023.2	0600	6th	1965	994.6	0900	17th	1964	95	0000	5th	14	0900	1st
DIWANIYA	1021.4	0600	19th	1002.8	0900	1st	1025.7	2100	1st	1956	995.6	0900	17th	1964	93	0300	5th	17	0900	23rd
NASIRIYA	1020.3	0600	19th	1000.7	1500	1st	1025.9	2100	1st	1956	997.9	1200	24th	1967	95	0600	17th	10	0900	1st
BAGHDAD	1019.6	0900	14th	1003.8	1500	1st	1024.7	1800	1st	1956	999.4	1500	24th	1967	100	0300	8th	13	0900	1st

APRIL - 1969. TABLE - 17.

UPPER AIR CLIMATOLOGICAL DATA

Station : BAGHDAD RADIOSONDE STATION.

TIME: 0000 G.M.T.

PRESSURE SURFACE Mbs.	HEIGHT OF PRESSURE (G.P.M.)				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRE-CTION	SPEED KNOTS	DIREC-TION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS
1000	27	115	167	29	26	19.6	29.0	12.2	26	11.6	26	070	03	120	22	00 0	00
850	27	1502	1585	1440	27	12.5	24.2	6.0	27	0.6	27	260	09	200	42	200	06
700	27	3097	3185	3011	27	1.0	9.4	-5.4	27	-9.3	27	260	18	230	45	200	08
500	27	5712	5866	5600	27	-16.8	-23.2	-10.2	27	-27.8	27	250	32	240	90	260	10
300	24	9358	9594	9216	24	-41.8	-46.3	-38.0	24	-50.7	22	250	43	270	122	280	10
200	17	12002	12240	11834	17	-56.5	-64.2	-45.1	15	-62.2	15	240	57	200	150	240	24
150	15	13813	14027	13684	15	-55.6	-47.5	-60.0	13	-61.2	10	240	51	240	130	270	20
100	14	16353	16537	16157	14	-60.9	-58.2	-64.1	10	-66.9	9	240	56	250	125	250	15
70	12	18558	18690	18501	9	-64.8	-58.0	-75.6	6	-68.9	3	250	62	260	120	260	50

NOTE: N = Total Number of Observations.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND IN UPPER AIR.

Station: BAGHDAD RADIOSONDE STATION. TIME: 0000 G.M.T.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	DIRECTION 000-360	SPEED "KNOTS"	PRESSURE "mb."
		HEIGHT "GPM"	PRESSURE "mb."	DEW POINT °C	HEIGHT "GPM"	DEW POINT °C	PRESSURE mb.	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C		HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C				
0001	30	3198	695	-9.3	4120	-0.5	837	2150	622	-27.2	16	11769	210	-58.1	13260	310	-43.4	8930	170	-71.0	-	-	-	-

N = Total Number of observations.

الجمهورية العراقيـــــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــــة

مفتشية الانواء الجوية العامـــــة

مديرية احصاءات المنـــاخ

بغداد

تقرير المنـــاخ الشهـــــــري

المجلـد : ٣٢

العدد : ٥

الشهر : مايـــو

السنـة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS
DIRECTORATE GENERAL OF CIVIL AVIATION
INSPECTORATE GENERAL OF METEOROLOGY
CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 5

Month : MAY

Year : 1969

C O N T E N T S

	TABLE	PAGE
Daily maximum & minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind speed during one hour	11	8
Daily precipitation	12a-d	9-12
= evaporation	13	13
= grass-minimum & soil temperatures	14	14
Number of days for the cases of phenomena and duration of sunshine	15	15
Highest, lowest & records of pressure at MSL and highest & lowest relative humidity	16	15
Upper air climatological data at BAGHDAD	17	16
Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air at Baghdad	18	17

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE: JANUARY 1969.

MAY 1969.

TABLE 1 a

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	26.2	15.1	26.5	16.2	19.0	10.4	28.4	17.6	31.7	15.6
2	27.1	14.9	28.4	14.2	21.8	12.1	30.1	15.4	32.5	16.6
3	25.6	15.0	31.6	19.1	24.2	11.9	32.3	21.2	31.7	19.0
4	26.1	16.3	28.4	14.5	23.1	15.0	31.4	18.2	31.0	17.4
5	26.4	16.0	28.0	15.4	21.6	14.4	31.3	17.8	35.0	16.4
6	24.5	17.2	24.0	16.5	19.3	11.4	28.7	15.2	31.0	18.4
7	24.6	14.2	27.2	13.7	18.2	9.4	26.0	15.0	31.4	17.4
8	26.3	12.8	27.0	13.2	20.8	8.3	28.5	14.4	32.4	12.8
9	29.6	15.1	29.9	15.1	23.0	13.4	31.2	16.4	34.8	15.0
10	30.2	15.9	33.8	15.4	25.0	15.0	33.0	18.6	38.5	17.4
11	30.1	20.1	32.8	18.3	27.5	18.5	35.5	21.2	38.8	20.6
12	32.5	21.0	34.4	18.3	29.4	19.4	38.4	20.6	39.6	21.8
13	36.6	20.1	39.0	19.5	29.2	21.0	40.0	22.7	44.4	23.4
14	28.3	18.1	32.3	20.8	26.0	18.5	35.6	22.7	32.2	20.0
15	29.6	18.2	28.6	19.8	20.5	16.0	32.4	21.3	32.0	20.8
16	29.6	17.7	32.6	17.3	24.5	16.1	32.2	20.9	34.2	19.8
17	28.5	17.7	32.0	17.7	24.0	16.5	31.6	21.5	32.4	19.4
18	22.3	17.6	23.6	19.0	22.5	17.5	31.6	21.8	30.0	21.0
19	26.8	19.1	29.1	13.5	22.0	12.0	30.4	16.3	31.0	18.0
20	30.6	19.3	33.0	15.8	25.0	14.5	33.2	20.0	31.8	19.0
21	32.6	19.3	34.7	18.0	27.5	15.5	35.0	20.8	37.5	17.4
22	34.6	19.9	37.4	18.0	29.5	17.4	37.6	22.7	39.0	19.0
23	35.0	20.3	37.5	18.4	30.0	20.4	38.6	22.4	41.0	18.8
24	33.1	20.0	34.7	19.3	29.4	21.4	35.8	25.7	39.6	24.4
25	33.8	19.0	38.5	19.0	29.3	18.5	37.6	22.4	38.4	19.0
26	30.8	18.3	35.6	16.5	27.8	19.2	37.1	24.1	36.0	21.4
27	29.1	17.7	32.5	17.2	26.9	17.8	34.3	19.8	32.8	18.8
28	31.2	18.7	35.4	13.7	27.1	16.7	35.0	18.1	35.4	18.6
29	32.2	19.1	36.0	17.4	28.4	18.8	36.1	19.8	37.5	15.0
30	32.6	19.8	36.4	19.2	28.7	18.6	36.6	21.1	39.0	19.4
31	33.0	19.2	36.4	15.9	28.7	18.3	37.0	22.8	38.8	19.0
MEANSS	30.0	17.8	32.2	17.0	25.2	15.9	33.6	20.0	35.2	18.7
NORMAL	....	....	33.1	14.3	....	....	33.4	18.8	....	....
HIGHEST	38.1	28.2	44.1	26.5	31.5	23.0	43.3	30.9	44.4	24.3
DAY	31st	31st	31st	21st	23rd	24th	7th	26th	13th	26th
YEAR	1962	1962	1955	1959	1967	1967	1942	1960	1969	1968
LOWEST	14.1	4.3	16.2	6.1	18.2	8.3	17.3	6.7	29.0	12.8
DAY	1st	1st	1st	1st	7th	8th	10th	1st	13th	8th
YEAR	1963	1964	1963	1948	1969	1969	1963	1964	1968	1969

MAY 1969.

TABLE 1b.

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	29.0	13.2	32.7	18.0	32.5	16.8	30.6	21.2	32.8	16.5
2	33.0	15.9	34.7	19.0	34.4	16.5	32.2	18.0	36.0	18.8
3	28.8	14.2	35.3	23.6	34.4	23.4	30.5	16.2	37.4	21.5
4	28.0	13.0	34.3	20.2	36.2	21.4	32.5	16.2	37.9	22.3
5	29.5	12.0	34.8	19.4	35.2	21.1	31.2	15.3	34.9	21.4
6	28.0	15.2	30.6	20.6	35.4	24.0	31.5	15.2	31.2	23.2
7	27.4	13.5	31.5	19.0	31.4	18.5	31.8	15.5	33.2	17.1
8	29.5	13.7	31.0	17.0	32.0	17.0	31.6	17.2	35.5	19.3
9	32.8	14.2	33.2	18.4	34.0	15.6	33.2	16.5	35.1	18.8
10	36.6	19.2	37.6	19.1	37.3	18.6	37.0	18.5	37.4	20.1
11	35.2	20.0	38.3	21.6	39.2	18.0	38.4	21.5	40.8	22.1
12	37.8	18.8	40.3	23.0	41.0	22.0	40.6	24.4	41.5	22.6
13	39.5	19.5	43.7	26.5	43.2	23.3	43.0	26.2	43.2	23.0
14	29.0	16.5	35.0	25.0	38.3	22.4	33.0	22.2	42.9	23.7
15	29.5	19.2	30.0	23.2	31.8	24.6	28.5	21.2	35.6	27.0
16	30.0	16.6	33.0	21.0	34.2	22.8	31.6	19.6	31.6	24.6
17	30.6	19.2	35.4	24.2	35.0	23.3	31.0	23.6	36.6	23.4
18	27.5	16.7	32.5	24.4	35.2	25.0	32.6	22.1	40.4	22.8
19	28.0	14.6	32.3	19.8	32.8	20.6	32.4	18.6	34.6	22.5
20	32.0	17.2	34.6	20.2	35.9	18.6	35.2	19.6	36.6	19.8
21	34.0	16.0	36.8	22.5	38.1	25.2	36.1	19.6	39.3	21.5
22	36.1	17.5	38.7	22.0	39.2	22.8	37.8	20.2	40.4	20.7
23	38.0	17.6	39.8	20.5	39.8	19.6	39.2	18.5	41.0	21.3
24	35.5	25.0	38.0	28.0	40.7	24.8	38.0	25.1	41.1	23.2
25	37.0	19.6	42.5	25.0	41.7	22.0	40.5	22.4	42.4	22.7
26	31.5	17.7	38.0	25.0	40.2	27.5	37.2	23.0	43.3	23.7
27	31.5	17.5	35.4	20.5	35.6	21.4	34.5	19.2	39.2	26.4
28	33.0	14.5	35.6	19.5	35.8	16.8	36.0	18.0	36.6	19.4
29	34.0	16.0	37.3	19.7	37.8	17.0	36.5	17.9	38.3	20.2
30	35.8	16.5	38.0	22.6	38.4	20.0	37.5	19.1	39.4	19.9
31	35.5	19.6	36.8	21.7	37.5	22.4	36.3	22.2	39.6	21.4
MEANS	32.4	16.8	35.7	21.6	36.6	21.1	34.8	19.8	38.0	21.6
NORMAL	31.5	15.8	36.3	20.0	35.8	19.9	....	....	37.0	21.1
HIGHEST	42.4	27.4	46.7	29.4	44.6	30.8	43.0	26.2	46.1	30.5
DAY	7th	26th	7th	29th	28th	29th	13th	13th	26th	31st
YEAR	1942	1960	1960	1960	1964	1966	1969	1969	1941	1945
LOWEST	9.4	5.6	22.1	8.3	21.1	10.0	21.6	9.8	22.0	11.0
DAY	6th	1st	1st	4th	8th	4th	2nd	4th	2nd	2nd
YEAR	1944	1948	1963	1940	1950	1965	1963	1964	1963	1964

MAY 1969.

TABLE 1c.

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	32.3	16.7	33.0	16.0	31.6	18.8	29.0	21.7
2	37.7	20.0	35.0	18.0	33.0	21.2	32.0	23.4
3	37.4	21.5	35.4	23.3	37.4	21.6	34.2	23.0
4	35.8	22.5	37.3	24.0	39.2	25.4	38.3	25.4
5	36.2	21.7	37.0	22.0	35.1	24.1	33.0	26.2
6	36.7	23.0	35.3	23.8	31.8	24.4	31.8	24.6
7	33.0	19.6	32.2	17.3	29.4	19.8	28.6	19.6
8	34.4	21.5	34.1	17.4	32.9	20.1	31.5	22.0
9	36.0	19.5	34.2	17.0	31.7	19.2	31.4	24.9
10	39.4	21.0	38.3	17.5	35.3	20.8	33.2	23.7
11	40.7	23.2	40.6	19.5	38.9	21.0	34.4	23.6
12	43.3	23.5	42.0	26.0	39.5	26.1	37.2	26.0
13	44.4	26.4	43.6	26.4	40.8	24.7	37.0	24.7
14	39.2	28.0	39.4	25.0	38.5	26.2	39.2	25.3
15	34.7	26.0	34.6	27.0	34.5	27.8	34.0	26.4
16	33.0	24.5	29.5	24.2	30.0	26.0	31.8	27.6
17	38.0	26.4	37.2	24.5	36.0	24.9	33.2	26.8
18	38.5	25.2	38.2	24.5	37.2	26.2	35.0	26.1
19	33.2	22.2	32.5	21.5	32.9	25.4	32.4	27.7
20	37.0	20.7	36.2	19.7	32.8	21.9	33.2	25.7
21	38.4	23.6	38.6	21.8	36.3	23.5	33.6	25.5
22	40.4	23.2	40.2	20.5	37.2	25.4	36.1	27.2
23	40.7	23.2	40.2	20.5	38.0	22.3	35.7	25.8
24	42.4	25.2	40.5	20.0	39.7	23.0	37.8	25.9
25	43.0	27.0	42.4	22.3	40.1	26.1	37.6	28.1
26	42.3	27.8	41.8	28.0	43.5	27.5	44.6	28.5
27	37.5	25.4	37.5	23.1	36.7	27.5	36.3	27.5
28	38.0	20.4	36.3	17.5	33.7	23.2	32.6	27.4
29	39.4	23.5	38.0	19.7	35.5	21.9	34.2	24.8
30	40.6	23.8	39.0	19.4	37.0	25.2	35.7	27.8
31	40.5	23.6	38.4	22.5	36.7	27.2	35.6	29.5
MEANS	38.2	23.2	37.4	21.6	35.9	23.8	34.5	25.6
NORMAL	....	....	36.7	19.5	36.9	22.4	35.9	23.9
HIGHEST	44.4	28.9	45.6	30.0	46.2	30.6	45.6	30.6
DAY	24th	23rd	12th	21st	24th	20th	23rd	30th
YEAR	1966	1965	1941	1962	1962	1955	1951	1945
LOWEST	16.6	13.0	23.5	7.8	22.5	11.6	20.5	8.9
DAY	1st	2nd	2nd	1st	5th	1st	2nd	1st
YEAR	1964	1964	1963	1948	1963	1948	1963	1952

TABLE 2. MONTHLY MEANS

DRY BULB TEMPERATURES T I M E - G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	20.9	24.8	27.3	29.0	28.5	25.8	....	26.1
MOSUL	18.3	17.9	24.6	30.0	31.5	29.5	24.2	21.3	24.7
SALAHADDIN	....	19.0	21.2	23.7	24.2	22.8	19.6	....	21.8
KIRKUK	22.4	21.7	27.9	31.7	32.9	30.2	26.4	24.1	27.1
ANAH	21.0	19.1	25.8	31.9	34.5	32.7	27.0	....	27.4
RUTBAH	19.1	17.6	23.9	29.3	31.5	30.0	25.0	21.6	24.8
HABBANIYA	23.2	22.2	27.9	33.1	35.2	33.4	28.1	26.0	28.6
BAGHDAD	23.9	22.6	29.0	34.2	35.9	33.6	29.2	26.1	29.4
NUKHAIB	....	....	27.4	32.2	34.2	33.3	28.1	....	31.0
HAI	23.6	22.6	31.5	36.1	37.0	34.1	28.5	25.8	29.9
NAJAF	25.5	23.6	30.4	35.7	37.6	35.7	30.7	27.9	30.9
DIWANIYA	23.2	22.6	29.6	35.1	36.4	34.3	28.4	25.4	29.4
NASIRIYA	25.8	24.4	29.2	33.4	34.8	33.2	29.9	27.9	29.8
BASRAH	26.6	26.4	29.9	32.9	33.7	32.5	29.1	28.1	29.9

TABLE 3. VAPOUR PRESSURE (MBS.)

SINJAR	....	10.6	10.7	10.6	10.2	10.4	10.5	....	10.5
MOSUL	15.3	14.5	15.1	15.1	13.5	13.6	15.5	15.2	14.7
SALAHADDIN	....	11.1	11.7	12.5	12.1	12.0	10.8	....	11.7
KIRKUK	11.5	12.4	12.3	10.0	9.8	10.1	11.4	11.3	11.1
ANAH	12.4	12.8	12.0	12.0	11.1	11.4	11.5	....	11.9
RUTBAH	9.7	9.9	10.4	9.1	8.6	8.9	9.4	9.9	9.5
HABBANIYA	14.6	15.4	15.1	13.3	11.3	12.3	14.8	14.3	13.9
BAGHDAD	13.3	14.0	15.0	13.0	11.3	11.2	12.1	12.8	12.8
NUKHAIB	....	....	9.9	9.2	8.5	8.5	8.6	....	8.9
HAI	16.4	16.7	18.7	17.9	17.1	16.9	16.8	16.0	17.1
NAJAF	14.0	13.1	13.9	13.3	12.5	12.7	13.9	13.9	13.4
DIWANIYA	14.4	14.6	15.7	14.3	13.1	13.5	13.6	14.3	14.2
NASIRIYA	17.6	17.2	17.8	17.0	16.4	18.8	21.1	19.3	18.2
BASRAH	25.1	25.2	26.2	27.5	27.4	26.7	27.5	25.6	26.4

TABLE 4. WET-BULB. TEMPERATURES (°C)

SINJAR	....	14.0	15.9	16.5	16.9	16.9	16.0	....	16.0
MOSUL	15.5	15.0	17.9	19.8	19.5	18.9	17.9	16.6	18.3
SALAHADDIN	....	13.5	14.8	16.2	16.2	15.6	13.6	....	15.0
KIRKUK	15.0	15.4	17.6	18.1	18.4	17.7	16.6	15.7	16.8
ANAH	15.0	14.3	17.0	19.1	19.7	19.1	17.3	....	17.3
RUTBAH	12.8	12.2	15.2	16.7	17.4	16.9	15.3	13.9	15.1
HABBANIYA	17.0	17.1	19.1	20.1	20.0	19.8	19.0	18.0	18.8
BAGHDAD	16.7	16.5	19.5	20.4	20.2	19.5	18.2	17.3	18.5
NUKHAIB	....	....	16.3	17.9	18.3	18.0	16.1	....	17.3
HAI	17.7	17.5	21.4	22.4	22.2	21.3	19.5	18.1	20.0
NAJAF	17.5	16.4	19.4	21.0	21.3	20.8	19.5	18.5	19.3
DIWANIYA	17.0	16.8	20.1	21.3	21.4	20.7	18.7	17.9	19.2
NASIRIYA	19.4	18.7	20.8	21.9	22.0	22.5	22.3	20.9	21.1
BASRAH	22.9	22.9	24.3	25.7	25.9	25.3	24.6	23.6	24.4

TABLE 5. DEW- POINT.

SINJAR	....	7.6	7.7	7.6	7.0	7.3	7.4	....	7.4
MOSUL	13.1	12.2	12.8	12.8	10.8	10.8	13.0	12.5	12.3
SALAHADDIN	....	8.5	9.1	10.1	9.6	9.5	7.9	....	9.1
KIRKUK	8.3	9.6	9.2	6.2	5.8	6.3	8.1	7.9	7.7
ANAH	9.8	10.3	9.9	9.1	8.0	8.4	9.2	....	9.2
RUTBAH	6.1	6.4	7.2	9.1	4.0	4.6	5.8	6.3	6.2
HABBANIYA	12.4	13.2	12.7	10.5	8.0	9.6	12.6	11.8	11.4
BAGHDAD	11.0	11.7	12.9	10.4	8.1	8.2	9.4	10.4	10.3
NUKHAIB	....	....	5.8	4.5	3.6	3.8	4.2	....	4.4
HAI	14.2	14.5	16.3	15.6	14.8	14.6	14.6	13.8	14.8
NAJAF	11.7	10.6	11.5	10.8	9.9	10.1	11.6	11.7	11.0
DIWANIYA	12.2	12.3	13.5	12.0	10.4	11.0	11.5	12.1	11.9
NASIRIYA	15.2	14.9	15.4	14.6	14.0	16.2	18.1	16.8	15.7
BASRAH	21.0	21.1	21.6	22.4	22.4	21.9	22.4	21.3	21.8

TABLE 6 .

MONTHLY MEANS

RELATIVE HUMIDITY (%)	TIME - G. M. T.								
STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	44	35	30	27	29	33	,,	35
MOSUL	72	71	51	39	32	36	51	62	52
SALAHADDIN	,,	52	48	45	42	46	49	,,	47
KIRKUK	45	50	35	23	22	26	35	40	35
ANAH	51	58	40	27	21	24	33	,,	36
RUTBAH	44	50	36	23	20	22	31	39	33
HABBANIYA	53	58	41	28	21	25	40	44	39
BAGHDAD	46	52	38	25	20	21	30	39	34
NUKHAIB	,,,	,,,	28	20	16	17	23	,,	21
HAI	57	62	41	31	28	32	44	49	43
NAJAF	44	46	33	24	20	22	32	37	32
DIWANIYA	51	54	36	26	22	25	36	45	37
NASIRIYA	54	58	46	34	34	38	50	52	46
BASRAH	72	74	63	56	53	55	69	68	64

TABLE 7. PRESSURE(MBS.) AT M.S.L.

SINJAR	,,,,	09.9	09.7	09.4	08.4	08.0	09.3	,,,,	1009.1
MOSUL	10.0	10.4	10.8	10.0	08.3	08.0	09.3	09.8	1009.6
SALAHADDIN	,,,,	09.6	09.3	08.8	08.1	07.7	09.5	,,,,	1008.8
KIRKUK	09.3	09.6	09.5	08.7	07.4	07.3	08.7	09.1	1008.7
ANAH	09.8	10.4	11.1	10.2	08.7	07.9	09.2	,,,,	1009.6
RUTBAH	08.9	09.6	10.1	09.5	08.4	08.0	08.6	08.8	1009.0
HABBANIYA	08.4	08.3	09.2	08.7	07.2	06.6	07.6	07.8	1007.9
BAGHDAD	07.5	08.1	08.8	08.5	07.1	06.4	07.5	07.8	1007.7
NUKHAIB	,,,,	,,,,	10.0	09.1	08.1	07.8	08.9	,,,,	1008.8
HAI	06.7	07.3	08.0	07.7	06.5	05.8	06.8	06.9	1007.0
NAJAF	07.2	08.1	08.8	09.0	07.0	05.9	07.5	07.6	1007.7
DIWANIYA	07.5	08.1	09.0	08.6	07.1	06.4	07.8	07.9	1007.7
NASIRIYA	06.6	07.3	08.3	07.9	06.4	05.9	06.9	07.0	1007.0
BASRAH	06.7	07.3	08.6	08.4	07.2	06.4	07.2	07.0	1007.4

TABLE 8. TOTAL CLOUD AMOUNTS (OKTAS)

SINJAR	,,,,	2.4	2.6	3.0	3.2	3.2	2.1	,,,	2.8
MOSUL	3.0	3.1	3.4	4.0	4.6	4.4	2.8	1.8	3.4
SALAHADDIN	,,,	2.6	2.6	3.2	3.6	3.6	3.2	,,,	3.1
KIRKUK	2.7	3.3	2.8	3.3	3.8	3.9	2.9	2.4	3.1
ANAH	1.5	2.8	3.2	2.7	2.4	2.7	2.0	,,,	2.5
RUTBAH	1.6	2.7	2.6	3.0	3.8	3.7	2.4	1.5	2.7
HABBANIYA	3.1	3.1	2.8	2.9	3.3	2.8	2.3	2.5	2.9
BAGHDAD	2.5	3.7	2.8	3.0	3.2	3.3	2.6	2.2	2.9
NUKHAIB	,,,	,,,	2.5	3.0	3.6	3.6	2.4	,,,,	3.0
HAI	1.8	2.3	2.7	2.9	3.5	3.4	2.1	1.8	2.6
NAJAF	1.9	2.9	3.2	3.6	3.8	3.4	2.2	1.7	2.8
DIWANIYA	1.7	2.3	2.8	3.3	2.9	2.8	1.8	1.5	2.3
NASIRIYA	0.9	2.1	2.0	2.9	2.9	2.9	0.9	0.7	1.9
BASRAH	1.0	2.1	2.1	2.4	2.5	2.6	1.7	0.7	1.9

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	,,,	0.3	0.5	0.6	1.3	1.0	0.5	,,,	0.7
MOSUL	2.3	1.9	2.5	2.3	3.0	2.9	1.6	1.0	2.2
SALAHADDIN	,,,	1.4	1.4	1.6	2.2	2.1	1.6	,,,	1.7
KIRKUK	1.3	2.3	1.1	1.2	1.9	1.7	1.4	1.3	1.5
ANAH	0.8	0.5	0.4	0.6	0.9	1.0	0.8	,,,	0.7
RUTBAH	0.5	0.5	0.7	1.1	2.1	1.8	1.2	0.5	1.1
HABBANIYA	0.5	0.5	0.4	0.4	0.7	0.7	0.5	0.5	0.5
BAGHDAD	0.3	0.4	0.2	0.5	0.9	0.6	0.3	0.3	0.4
NUKHAIB	,,,	,,,	1.0	1.1	1.5	1.9	1.5	,,,	1.4
HAI	0.5	0.9	0.4	0.6	1.1	0.9	0.3	0.4	0.6
NAJAF	0.3	0.7	0.7	0.6	0.8	0.9	0.7	0.5	0.7
DIWANIYA	0.5	0.5	0.6	0.6	0.4	0.6	0.5	0.6	0.5
NASIRIYA	0.2	0.7	0.5	0.3	0.9	1.4	0.5	0.5	0.7
BASRAH	0.2	0.4	0.3	0.4	0.2	0.4	0.5	0.1	0.3

TABLE 10a SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.
SINJAR	0300	14	0	9	0	1	0	3	3	11	23	6	1	0	-
	0600	6	4	6	0	1	0	3	3	8	17	5	1	0	
	0900	7	1	7	3	3	0	4	2	4	20	5	2	0	
	1200	5	0	4	4	7	2	4	4	4	23	6	1	0	
	1500	5	0	3	0	6	3	5	3	6	16	8	1	0	
	1800	10	0	1	1	2	1	8	5	3	21	7	0	0	
MOSUL	0000	1	0	1	0	2	0	5	4	18	11	2	0	0	
	0300	1	0	1	0	1	0	5	5	18	12	1	0	0	
	0600	5	0	1	4	1	0	3	8	9	20	2	0	0	
	0900	7	2	4	4	2	0	5	1	6	24	1	0	0	
	1200	6	3	3	4	2	0	2	4	7	22	2	0	0	
	1500	6	1	7	2	2	1	1	4	7	22	2	0	0	
	1800	0	0	2	0	0	1	3	4	21	10	0	0	0	
	2100	0	0	0	1	0	0	2	6	22	8	1	0	0	
SALAHADDIN	0300	9	1	5	4	8	0	2	0	2	26	3	0	0	
	0600	7	2	3	5	8	2	1	0	3	26	2	0	0	
	0900	4	3	0	2	13	3	3	0	3	21	7	0	0	
	1200	8	2	1	0	11	5	2	0	2	22	5	2	0	
	1500	7	2	2	1	4	9	3	1	2	26	1	2	0	
	1800	6	3	1	1	4	0	1	2	13	15	2	1	0	
KIRKUK	0000	0	2	4	1	0	0	0	0	24	7	0	0	0	
	0300	0	5	0	1	0	0	0	1	24	7	0	0	0	
	0600	0	3	5	3	0	0	0	0	20	9	2	0	0	
	0900	1	6	1	3	2	4	5	0	9	20	1	1	0	
	1200	1	5	1	0	3	3	5	2	11	17	2	1	0	
	1500	2	4	3	0	0	1	2	1	18	11	2	0	0	
	1800	0	5	3	1	0	0	0	1	21	10	0	0	0	
	2100	0	5	4	1	1	0	0	0	20	11	0	0	0	
ANAH	0000	2	2	2	2	0	0	8	2	13	14	4	0	0	
	0300	1	0	0	2	2	2	7	3	14	15	2	0	0	
	0600	1	2	0	2	0	0	8	9	9	15	7	0	0	
	0900	9	4	1	2	1	1	9	2	2	18	11	0	0	
	1200	9	2	3	0	2	0	9	5	1	22	7	1	0	
	1500	6	3	2	1	2	0	11	2	4	23	4	0	0	
	1800	3	0	2	0	1	0	8	1	16	8	7	0	0	

TABLE 10b

SURFACE-WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
RUTBAH	0000	2	3	2	1	2	2	5	9	5	22	4	0	0	6
	0300	4	1	3	1	2	3	8	8	1	21	9	0	0	8
	0600	9	2	5	1	3	2	2	6	1	25	4	1	0	8
	0900	8	0	4	5	3	2	3	6	0	21	9	1	0	8
	1200	8	1	0	4	2	5	5	4	2	17	11	1	0	9
	1500	8	2	1	3	0	5	5	5	2	15	14	0	0	10
	1800	9	2	7	1	2	2	5	2	1	22	8	0	0	9
	2100	6	0	3	1	2	0	3	11	5	20	6	0	0	6
HABBANIYA	0000	5	0	0	1	0	0	5	5	15	12	4	0	0	5
	0300	6	0	1	1	1	1	6	5	10	18	3	0	0	5
	0600	6	2	2	1	2	1	7	6	4	18	9	0	0	8
	0900	1	2	2	0	5	1	8	11	1	17	13	0	0	11
	1200	5	1	1	1	4	4	9	6	0	13	17	1	0	12
	1500	6	0	2	0	4	2	9	6	2	19	9	1	0	10
	1800	1	1	1	1	0	1	4	7	15	15	1	0	0	4
	2100	2	1	1	0	0	1	4	5	16	14	1	0	0	4
BAGHDAD	0000	4	2	3	3	0	2	3	7	7	19	5	0	0	6
	0300	4	2	2	3	1	0	1	10	8	21	2	0	0	5
	0600	3	2	1	5	2	3	2	9	4	19	8	0	0	8
	0900	5	0	1	7	1	1	6	9	1	13	17	0	0	11
	1200	4	0	0	3	4	3	3	14	0	18	13	0	0	11
	1500	5	1	1	3	0	1	5	13	2	15	13	1	0	10
	1800	5	3	1	4	0	1	2	11	4	19	8	0	0	8
	2100	4	2	1	3	0	1	3	9	8	18	5	0	0	6
NUKHAIB	0600	10	0	1	1	7	0	9	2	1	18	10	2	0	10
	0900	9	0	1	5	4	0	8	3	1	18	11	1	0	11
	1200	5	1	0	3	4	2	9	7	0	16	15	0	0	11
	1500	8	0	1	4	3	2	10	3	0	21	10	0	0	9
	1800	13	1	3	0	1	3	8	1	1	24	6	0	0	8
HAI	0000	0	0	4	0	2	1	1	16	7	18	5	1	0	6
	0300	2	1	5	1	0	0	1	17	4	23	3	1	0	6
	0600	1	0	7	0	1	1	2	16	3	19	7	2	0	8
	0900	4	1	5	2	2	1	2	13	1	19	7	4	0	9
	1200	4	0	6	2	3	0	0	14	2	15	9	5	0	11
	1500	6	0	7	0	1	1	2	12	2	17	11	1	0	9
	1800	2	1	6	1	0	0	3	15	3	23	3	2	0	6
	2100	1	0	4	3	0	0	2	19	2	19	8	2	0	8

TABLE 10c.

SURFACE-WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	0000	5	3	1	3	0	1	2	7	9	17	5	0	0	5
	0300	4	1	1	1	0	1	6	9	8	22	1	0	0	4
	0600	8	0	0	4	0	1	9	6	3	27	1	0	0	4
	0900	10	1	1	3	3	1	1	8	3	27	1	0	0	5
	1200	9	2	2	2	0	1	1	12	2	25	4	0	0	7
	1500	11	4	0	6	0	0	3	7	0	31	0	0	0	6
	1800	7	4	2	2	2	0	1	8	5	25	1	0	0	4
	2100	9	4	0	5	1	1	0	7	4	25	2	0	0	5
DIWANIYA	0000	4	1	0	5	1	0	5	1	14	12	5	0	0	4
	0300	1	0	0	4	2	0	6	3	15	12	4	0	0	3
	0600	5	0	0	4	2	3	4	5	8	20	3	0	0	5
	0900	7	0	2	0	0	2	8	5	7	17	7	0	0	7
	1200	8	0	2	0	0	2	12	3	4	12	14	1	0	10
	1500	9	0	1	2	0	0	7	6	6	17	8	0	0	8
	1800	3	0	2	2	0	0	4	5	15	15	0	1	0	4
	2100	7	0	2	5	0	0	5	2	10	16	5	0	0	5
NASIRIYA	0000	6	2	1	7	1	0	4	7	3	20	7	1	0	7
	0300	2	0	0	1	4	2	6	7	9	17	5	0	0	5
	0600	2	0	1	4	0	1	8	14	1	24	6	0	0	7
	0900	3	0	5	2	2	0	7	12	0	23	8	0	0	8
	1200	3	0	7	3	0	0	7	11	0	23	8	0	0	8
	1500	1	1	10	1	0	0	5	12	1	27	3	0	0	7
	1800	4	1	4	5	2	0	3	10	2	26	2	1	0	7
	2100	3	0	3	4	1	1	5	10	4	20	7	0	0	7
BASRAH	0000	3	0	1	2	6	0	6	10	3	25	3	0	0	6
	0300	8	4	0	3	4	1	7	4	0	28	3	0	0	6
	0600	6	1	1	2	3	0	3	12	1	21	9	0	0	8
	0900	11	1	5	1	2	0	0	11	0	23	8	0	0	7
	1200	9	5	4	3	1	0	1	8	0	19	12	0	0	9
	1500	7	4	4	1	4	0	1	10	0	24	7	0	0	7
	1800	3	3	2	3	3	1	5	9	2	23	6	0	0	6
	2100	2	0	2	1	7	2	8	9	0	23	8	0	0	7

TABLE 11.

HIGHEST-WIND SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	27 Knots	090°	0600	3rd
MOSUL	20	360	1200	24th
SALAHADDIN	30	230	1200	25th
KIRKUK	28	180	1200	7th
ANAH	24	180	1200	13th
RUTBAH	24	220	1200	2nd
HABBANIYA	23	320	1500	18th
BAGHDAD	22	330	1500	6th
NUKHAIB	26	330	0600	26th
HAI	34	090	0600	6th
NAJAF	18	060	0000	3rd
DIWANIYA	24	360	1800	18th
NASIRIYA	26	120	1800	5th
BASRAH	20	170	1200	26th

TABLE 12a.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA	BAGHDAD
1								
2		0.5	1.6	tr.				tr.
3								tr.
4								
5				17.2		tr.	tr.	tr.
6	1.3		4.6		tr.	tr.	tr.	
7		19.7	34.2	12.6				0.2
8								
9								
10								
11						3.4		
12						tr.		
13								
14								
15						tr.	0.6	tr.
16								
17		0.4		0.4	tr.		0.4	tr.
18	1.4	2.8	tr.	tr.	tr.	2.4		
19								
20								
21								
22								
23								
24		0.5			tr.			
25								
26								
27								
28								
29								
30								
31								
TOTAL	2.7	23.9	40.4	30.2	tr.	5.8	1.0	0.2
NORMAL	28.6	29.3	76.6	16.5	6.8	9.7	3.7	7.1

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	78.5 mms.	20th	1959
MOSUL	40.4	11th	1963
SALAHADDIN	80.0	8th	1961
KIRKUK	45.1	10th	1963
ANAH	30.0	13th	1950
RUTBAH	46.6	12th	1957
HABBANIYA	17.7	1st	1963
BAGHDAD	65.0	9th	1959

MAY 1969.

TABLE 12b.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						
2						
3						
4			tr.	tr.		tr.
5		tr.	tr.		tr.	3.7
6		tr.			30.5	7.4
7						
8						
9						
10						
11						
12						
13						
14	1.0					
15	1.0	tr.	tr.	tr.		
16			tr.	tr.		
17						
18						
19						
20						
21						
22						
23						
24		tr.			tr.	tr.
25						
26						
27						
28						
29						
30						
31						
TOTAL	2.0	tr.	tr.	tr.	30.5	11.1
NORMAL	2.1	6.9	1.5	9.0	5.4	7.3

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
NUKHAIB	9.2	23rd	1936
HAI	28.7	5th	1949
NAJAF	45.8	15th	1968
DIWANIYA	27.7	5th	1963
NASIRIYA	40.2	15th	1945
BASRAH	35.6	8th	1950

MAY 1969.

TABLE 12c

DAILY PRECIPITATION(MILLMETERS) tr. <0.05mm

DAYS	RAB-IAA	TAL-HIKNA	SLU-BI	TAL-AFAR	BASH-IQA	HAMAM-ALIL	AQRA	SHIR-QAT	QUAIR	AR-BIL	IFR-AZ	DIA-NA
1											5.6	
2				1.0								
3					6.0			9.0				
4												
5												
6							13.4				4.9	31.2
7	8.0	15.0				30.4	6.5		15.0			
8										16.1	7.6	
9												
10												
11												
12								13.0				
13	4.0						1.3					
14												
15												
16					16.0							
17		10.0					tr.					
18			2.0	3.0		5.5					5.3	2.2
19								1.0		0.5		
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	12.0	25.0	2.0	4.0	22.0	35.9	21.2	32.0	15.0	16.6	23.4	33.4

MAY 1969.

TABLE 12 d.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	RIY-ADH	HAW-IJA	BAK-RAJO	SULAI-MANIYA	BAQ-OBA	MAN-SOOR	MAN-DILI	HIT	BAI-JI	BAD-RAH	AMA-RAH
1					12.2						3.8
2											
3											
4		5.2		6.4						1.0	
5		3.0	6.0	7.2		12.0	45.0	4.5	6.3		
6	13.9		32.0	36.0						3.5	
7		4.4	31.0	16.0		1.0					27.0
8	4.4										
9											
10		[illegible]							[illegible]		
11	[illegible]										
12											
13											
14											
15											
16											
17		3.6							5.0		
18	1.3										
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL	19.6	16.2	69.0	65.6	12.2	13.0	45.0	4.5	11.3	4.5	30.8

MAY 1969.TABLE 13.

DAILY EVAPORATION(MILLIMETERS) IN PAN CLASS A. AT 0600 GMT.

DAYS	KIR-KUK	MOSUL	RUT-BAH	ANAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	5.0	6.0	10.0	5	8	16	5	5	4	5
2	8.0	7.5	15.0	9	12	17	5	6	7	8
3	9.0	9.0	12.0	10	10	16	6	7	9	7
4	8.0	8.0	15.0	9	12	17	6	6	9	7
5	12.2	6.0	10.0	7	9	16	7	7	9	5
6	4.0	5.0	11.0	9	12	18	8	8	13	4
7	8.6	9.7	15.0	9	19	16	7	8	4	8
8	7.0	7.0	12.0	10	17	17	9	7	7	3
9	6.0	7.0	12.0	7	18	18	7	6	6	8
10	7.0	7.0	20.0	10	17	18	7	8	6	6
11	8.0	7.0	12.0	8	19	18	8	7	7	7
12	7.0	6.0	23.4	9	18	17	10	9	7	5
13	10.0	16.0	20.0	15	14	18	10	9	9	6
14	10.0	10.0	15.0	12	15	11	9	9	12	9
15	6.0	10.0	15.0	8	7	9	9	10	9	7
16	5.0	12.0	15.0	7	8	16	6	3	6	6
17	5.4	10.4	10.0	5	9	15	9	7	7	7
18	7.0	5.9	12.4	4	11	16	9	8	9	5
19	6.0	5.0	8.0	7	15	17	8	7	9	8
20	8.0	9.0	12.0	10	13	18	7	8	7	6
21	11.0	12.0	18.0	9	16	18	6	11	9	8
22	11.0	9.0	20.0	10	9	17	7	7	7	6
23	11.0	9.0	15.0	10	16	18	7	8	7	9
24	10.0	6.5	20.0	9	20	16	8	9	6	11
25	10.0	10.0	20.0	12	19	18	8	7	11	7
26	11.0	10.0	16.0	14	19	18	7	10	11	14
27	10.0	9.0	16.0	10	18	15	8	10	9	9
28	10.0	11.0	17.0	11	14	16	7	9	7	6
29	10.0	10.0	16.0	12	11	17	10	8	7	7
30	11.0	12.0	16.0	14	18	18	11	9	9	6
31	12.0	12.0	16.0	10	15	17	8	12	11	9
TOTAL	264.2	273.9	464.8	291	438	512	239	245	250	217
MEANS	8.5	8.8	15.0	9.4	14	16.5	7.7	7.9	8.1	7.0

MAY 1969. TABLE 14.

DAILY GRASS MINIMUM TEMPERATURES °C AND SOIL TEMPERATURES °C OF 0.3M and 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	11.4	15.0	20.5	18.9	17.8	28.0	24.5	12.5	25.4	23.2	24.2	25.8	18.0	26.8	24.3	15.5
2	12.5	12.0	20.8	18.9	18.4	28.7	24.8	15.2	28.0	23.5	26.9	25.7	19.5	27.8	24.4	14.8
3	16.5	17.6	21.6	19.0	20.3	29.3	25.0	21.7	28.0	23.5	28.4	25.5	20.7	28.8	24.5	14.8
4	11.5	12.0	21.5	19.1	19.5	29.5	25.0	16.5	28.3	23.6	28.4	25.5	24.6	27.7	24.3	17.9
5	11.2	13.5	22.1	19.3	18.0	29.5	25.3	15.4	28.5	23.8	28.8	26.0	23.1	30.4	24.7	19.2
6	13.0	14.0	22.2	19.4	20.0	30.0	25.5	22.6	28.6	24.0	28.8	26.0	23.8	29.9	24.9	18.9
7	11.0	14.6	21.6	19.5	18.4	29.8	25.6	14.6	28.5	24.0	28.8	26.4	18.9	27.9	25.0	15.4
8	10.4	11.6	21.1	19.7	16.6	29.8	25.7	12.6	28.2	24.3	29.0	26.7	19.2	28.5	25.2	13.6
9	9.2	13.4	21.9	20.0	17.2	30.0	25.8	12.4	27.3	24.3	29.0	26.7	18.7	28.6	25.3	15.2
10	12.5	15.2	22.3	20.0	18.1	30.5	26.0	15.0	29.0	24.5	29.2	27.0	20.0	29.7	25.4	13.5
11	15.0	14.0	22.8	20.0	20.5	30.8	26.0	17.6	30.0	24.5	30.5	27.3	19.5	30.0	25.5	14.0
12	15.8	17.0	23.5	20.3	21.7	31.1	26.2	17.6	30.2	24.2	31.5	27.4	24.2	30.8	25.6	16.2
13	12.4	18.8	24.3	20.4	23.2	31.2	26.5	19.5	31.0	24.8	31.4	27.3	22.9	31.5	25.8	14.1
14	19.0	21.1	25.3	20.5	23.5	32.4	26.6	20.5	31.8	25.0	33.2	28.0	24.3	32.7	26.0	15.2
15	16.7	18.1	25.5	20.8	21.3	32.0	28.7	22.6	31.2	25.5	31.5	28.2	23.4	33.0	26.1	14.9
16	14.2	17.0	24.7	21.1	20.0	30.2	27.0	19.8	30.2	25.4	31.5	28.5	25.9	32.2	26.2	18.9
17	13.5	19.1	24.8	21.2	23.2	30.5	27.0	20.0	30.0	25.5	30.4	28.7	24.3	31.0	26.4	16.0
18	15.5	17.3	24.4	21.3	20.6	30.0	27.0	20.0	30.0	25.5	31.5	28.6	25.0	31.8	26.5	15.4
19	10.5	12.0	24.0	21.4	18.9	30.6	27.3	18.8	29.6	25.7	31.5	28.6	25.0	32.5	26.7	17.3
20	12.8	16.9	23.9	21.6	18.9	31.0	27.2	15.0	30.0	26.1	30.7	28.9	21.3	31.5	26.8	17.6
21	12.6	13.0	24.0	21.9	20.6	31.5	27.2	22.2	30.8	25.8	31.2	29.0	22.6	31.2	26.8	17.2
22	15.0	17.0	24.8	21.8	21.0	31.8	27.5	18.0	31.0	26.0	31.2	29.0	24.3	31.7	27.0	17.9
23	13.7	17.9	25.5	22.1	19.2	32.0	27.5	14.0	31.5	26.0	32.1	29.0	21.0	32.4	27.1	16.7
24	14.4	19.1	26.5	22.2	27.4	32.2	27.5	21.1	32.0	26.1	33.0	28.4	21.5	32.7	27.2	16.6
25	14.0	17.6	26.1	22.4	22.9	32.0	27.5	17.3	30.8	25.0	33.3	29.6	24.1	33.2	27.3	20.2
26	12.6	20.4	26.7	22.5	24.5	32.4	27.9	22.0	33.0	26.5	34.0	29.5	26.3	33.8	27.4	20.0
27	10.5	14.4	26.9	22.8	19.5	32.5	28.0	15.6	34.0	26.5	34.0	28.8	26.6	34.3	27.5	23.2
28	9.7	11.0	27.0	23.0	17.8	32.0	28.0	10.6	31.5	26.7	33.0	30.2	22.1	33.5	27.6	xxxx
29	13.2	13.8	27.3	23.2	16.6	31.9	28.2	10.5	31.1	26.8	32.8	30.2	21.0	33.0	27.8	16.3
30	17.5	17.2	26.8	23.3	20.6	31.9	28.2	18.0	31.6	26.8	33.5	30.4	22.8	33.0	27.9	19.0
31	12.0	15.5	27.1	23.4	19.7	31.8	28.3	18.0	31.8	26.8	33.5	30.4	26.3	33.5	28.1	20.0
MEANS	13.2	15.7	24.1	21.0	20.2	30.9	26.7	17.4	30.1	25.2	30.9	28.0	22.7	31.1	26.2	16.8

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE - HOURS MONTH TOTAL	HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	2	0	0	0	0	0	0	3	0	0	0	13	2	-	-	-	-
MOSUL	5	0	0	1	0	3	4	3	1	0	0	7	2	326.0	14.0	31st	0
SALAHADDIN	3	0	1	2	0	0	0	1	0	0	0	8	4	-	-	-	-
KIRKUK	3	0	0	3	0	0	10	4	9	0	0	8	3	-	-	-	-
RUTBAH	2	0	0	3	0	0	0	6	4	0	0	-	-	-	-	-	-
ANAH	0	0	0	1	0	0	0	3	0	0	0	11	2	-	-	-	-
HABBANIYA	2	0	0	2	0	0	6	9	6	0	0	12	4	341.8	14.1	31st	0
BAGHDAD	1	0	0	1	0	1	21	9	2	1	0	9	3	324.0	13.6	31st	0
NUKHAIB	2	0	0	0	0	0	0	9	1	0	0	8	4	-	-	-	-
HAI	0	0	0	1	0	0	0	13	3	0	0	13	3	-	-	-	-
NAJAF	0	0	0	1	0	1	1	3	12	0	0	12	2	-	-	-	-
DIWANIYA	0	0	0	0	0	1	3	6	9	2	0	15	2	-	-	-	-
NASIRIYA	1	0	1	2	0	0	1	7	6	1	0	14	1	-	-	-	-
BASRAH	2	0	0	2	0	0	0	2	8	0	0	12	0	325.4	13.2	11th	0

TABLE-16. HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELATIVE HUMIDITY

STATION	1969 PRESSURE HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	RECORDS PRESSURE HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	1969 HUMIDITY HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1019.1	1800	17th	1000.7	1500	5th	1021.5	0600	4th	1965	996.7	1500	24th	1962	81%	1800	18th	14	30th	1200
MOSUL	1017.1	0300	17th	1000.2	1500	2nd	1022.0	0600	4th	1965	994.8	1500	15th	1966	98	2100	1st	9	30th	1500
SALAHADDIN	1016.1	0600	17th	1000.4	1500	25th	1017.6	0900	2nd	1967	998.5	1200	30th	1967	99	1200	7th	19	30th	1500
KIRKUK	1016.0	0300	17th	1000.7	1500	25th	1020.9	0600	4th	1965	994.4	1500	25th	1962	89	0300	1st	7	27th	1500
ANAH	1017.0	0600	17th	1001.7	1500	29th	1017.0	0600	17th	1969	1000.9	1500	2nd	1968	90	0300	1st	40	18th	1200
RUTBAH	1015.2	0300	21st	999.3	1800	2nd	1023.3	0600	6th	1944	997.4	1200	1st	1946	87	0000	19th	50	18th	0900
HABBANIYA	1014.9	0900	17th	999.8	1500	25th	1021.0	0600	4th	1965	997.8	0000	25th	1962	81	0300	1st	38	15th	1200
BAGHDAD	1014.8	0900	17th	1000.0	1200	24th	1021.0	0600	4th	1965	996.8	0000	25th	1962	90	0300	1st	37	1st	1500
NUKHAIB	1016.0	0600	17th	999.7	1800	3rd	1016.9	0600	18th	1964	999.7	1800	3rd	1969	65	0600	15th	43	15th	1200
HAI	1013.6	0300	17th	998.6	1500	26th	1020.8	0600	4th	1965	997.5	1500	31st	1958	96	0300	1st	55	5th	0900
NAJAF	1017.1	0900	2nd	1000.1	1200	26th	1020.7	0600	4th	1965	997.7	1200	28th	1963	91	0000	1st	39	16th	1200
DIWANIYA	1014.7	1800	16th	999.8	1500	26th	1020.9	0600	4th	1965	996.2	0000	3rd	1946	93	0300	1st	46	1st	0900
NASIRIYA	1014.2	2100	16th	998.4	1200	26th	1019.8	0600	4th	1965	997.2	0000	31st	1948	91	0300	7th	62	7th	0900
BASRAH	1013.6	0600	1st	998.6	1500	26th	1019.2	0600	4th	1965	997.7	0000	31st	1959	97	1800	6th	77	7th	1200

UPPER AIR CLIMATOLOGICAL DATA

Station : BAGHDAD RADIOSONDE STATION. TIME: 0000 G.M.T.

PRESSURE SURFACE Mbs.	HIGHEST OF PRESSURE (G.P.M.)				TEMPERATURE °C				DEW POINT °C		W I N D						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRE-CTION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS
1000	31	32	128	25	27	25.4	30.0	19	26	12.0	27	340	06	270	20	00	00
850	31	1508	1580	1446	31	20.2	29.2	7.0	30	2.8	31	300	06	002	30	00	00
700	31	3143	3220	3085	31	7.9	14.4	-4.0	30	-6.6	31	270	15	280	70	00	00
500	31	5822	5931	5720	31	-11.7	-6.6	-19.2	30	-24.4	30	250	23	330	50	280	06
300	31	9515	9715	9305	31	-38.7	-32.5	-45.2	30	-50.7	29	260	42	250	96	00	00
200	31	1222	1243	1185	31	-53.7	-45.0	-61.0	24	-65.2	25	260	54	260	107	230	25
150	30	1403	1427	1356	30	-55.0	-52.1	-73.6	15	-66.3	22	260	56	260	125	230	15
100	29	1655	1678	1591	29	-64.3	-57.0	-76.0	4	-67.5	20	260	50	270	115	230	15
70	23	1866	1991	1772	23	-66.1	-61.1	-76.0	-	-	9	260	49	270	85	280	30

MAY-1969. TABLE 18.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR

Station : BAGHDAD RADIOSONDE , TIME : 0000 G.M.T.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST						
		HEIGHT "GPM"	PRESSURE Mbs.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mbs.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mbs.	DEW POINT °C		HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	DIRECTION 000-360	SPEED "KNOTS"
0000	34	4240	616	-15.0	5480	750	-1.2	2500	550	-27.9	31	12200	202	-56.6	17150	260	-40.3	10430	93	-72.0	14000	155	260	125

N = Total Number of Observations.

الجمهوريـــــة العراقيـــــــة

وزارة المواصـــــلات

مديرية الطيران المدني العامـــــــة

مفتشية الانواء الجوية العامـــــة

مديرية احصائيات المنـــاخ

بغداد

تقرير المناخ الشهـــــــــري

المجلد : ٣٢

العدد : ٦

الشهر : حزيـــران

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 6

MONTH : JUNE

YEAR : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation	12a-b	9-10
Daily evaporation	13	11
Daily grass minimum and soil temperatures	14	12
Number of days for the cases of phenomena abd duration of sunshine	15	13
Highest, lowest & records of pressure and humidity	16	13
Upper air climatological data for Baghdad	17	14
Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air for Baghdad	18	15

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE: JANUARY 1969.

JUNE 1969.

TABLE 1a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	34.8	20.0	38.2	15.7	30.2	17.6	38.0	23.9	39.7	17.2
2	35.7	21.0	39.5	19.2	31.6	20.1	41.1	26.7	41.4	18.4
3	38.1	22.3	41.8	23.6	34.1	22.6	42.6	23.6	43.0	19.0
4	38.2	21.6	43.0	21.0	35.0	22.7	42.7	26.1	44.2	20.5
5	38.5	20.9	42.6	23.1	35.1	23.4	44.0	26.3	45.0	27.2
6	39.2	23.6	43.5	26.0	35.0	24.2	43.0	30.5	44.0	24.8
7	28.7	24.6	41.3	26.5	33.7	22.7	41.4	28.0	44.0	25.4
8	38.4	25.1	41.6	24.2	33.1	22.5	41.3	26.6	43.4	27.0
9	38.5	26.1	43.0	24.6	34.4	24.0	43.0	29.0	43.4	22.8
10	37.6	26.2	42.6	24.8	34.4	24.3	42.6	25.7	41.0	24.6
11	34.7	23.0	42.6	23.2	33.0	23.2	42.0	25.5	40.0	24.0
12	38.5	23.3	40.2	18.0	32.8	22.4	40.7	24.0	40.5	23.0
13	36.6	22.3	40.6	19.0	32.4	23.0	41.2	24.5	40.4	25.0
14	35.1	23.2	39.9	22.7	33.1	23.3	40.0	24.6	39.0	24.8
15	33.2	20.1	37.5	22.5	29.0	20.4	35.9	23.0	36.0	24.0
16	33.1	19.3	37.5	21.4	28.0	17.5	36.4	20.2	38.8	21.1
17	32.3	20.0	37.0	22.0	29.4	20.1	38.0	24.0	36.5	23.6
18	31.7	18.0	35.8	20.4	28.0	18.5	36.6	23.4	35.0	22.4
19	32.4	19.1	37.3	20.4	29.5	19.5	37.6	23.1	36.4	22.0
20	33.6	20.2	38.0	18.8	30.0	19.0	39.0	24.1	38.5	19.0
21	32.6	20.1	37.2	21.6	29.5	21.3	37.3	24.9	37.6	22.2
22	35.3	20.3	39.2	19.5	31.4	21.8	39.0	23.9	39.5	22.4
23	32.6	20.1	39.7	22.1	32.4	21.7	40.9	25.2	37.0	23.0
24	31.7	19.2	37.0	20.3	29.3	19.1	37.1	23.6	35.5	22.0
25	33.6	19.0	38.2	20.5	31.3	20.9	38.3	23.8	38.4	21.2
26	35.7	19.6	39.5	19.0	33.1	22.4	40.5	24.3	40.5	19.0
27	35.8	20.9	41.8	19.0	34.2	23.4	41.7	23.1	43.6	20.0
28	38.4	21.7	41.3	21.2	34.3	23.5	42.9	25.4	43.0	23.4
29	36.2	22.5	38.6	23.3	32.6	23.3	41.1	25.3	37.0	24.4
30	37.7	20.3	38.9	23.8	31.4	20.3	39.0	24.6	37.8	22.0
MEANS	35.7	21.5	39.8	21.6	32.0	21.6	40.2	24.9	40.0	22.5
NORMAL	....	....	39.6	18.6	....	....	39.2	23.6	....	....
HIGHEST	41.7	32.4	47.6	31.6	35.5	24.3	47.8	32.8	45.0	27.2
DAY	7th	9th	23rd	30th	27th	10th	23rd	22nd	5th	5th
YEAR	1965	1966	1961	1926	1968	1969	1961	1942	1969	1969
LOWEST	26.0	13.0	25.9	11.1	22.2	10.0	29.6	13.9	32.0	16.4
DAY	5th	5th	3rd	1st	5th	5th	5th	2nd	22nd	8th
YEAR	1967	1967	1963	1952	1967	1967	1967	1943	1968	1968

JUNE 1969.

TABLE 1b .

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	36.7	20.0	39.2	22.0	40.6	23.6	38.1	22.2	41.2	20.0
2	38.5	18.6	41.2	23.8	42.4	19.7	39.6	21.3	42.8	21.0
3	40.5	18.5	42.2	23.5	41.8	20.4	42.2	27.0	43.0	21.2
4	40.7	20.0	43.7	24.0	43.5	22.0	42.0	22.2	42.8	21.8
5	40.6	21.6	44.6	23.5	45.2	23.6	43.2	26.0	45.4	23.8
6	39.8	21.7	45.2	24.7	45.4	29.4	41.5	23.2	46.0	25.7
7	39.5	23.8	43.0	27.8	44.7	30.0	40.5	25.0	45.2	26.3
8	40.0	23.0	43.0	26.6	43.6	25.4	43.0	24.0	43.8	28.4
9	39.4	21.6	43.6	27.0	44.2	25.5	42.8	23.2	44.4	25.2
10	40.4	22.5	43.6	26.2	44.5	24.1	43.0	23.6	45.0	26.2
11	37.5	21.6	42.0	27.4	44.6	28.0	42.0	25.0	46.0	30.2
12	37.0	19.8	40.5	24.5	41.0	26.0	40.2	24.2	42.7	28.3
13	37.2	20.5	41.0	26.2	41.8	25.0	41.2	24.7	42.2	24.8
14	35.2	22.1	40.0	25.6	40.5	24.5	38.5	23.9	41.6	24.3
15	34.5	21.7	37.0	25.0	36.6	23.0	37.0	24.4	38.4	24.8
16	38.0	20.4	38.6	23.0	38.4	21.5	39.2	21.6	38.4	22.2
17	35.2	24.0	41.0	26.0	42.0	22.5	42.5	22.5	42.8	24.0
18	32.5	18.5	36.0	23.6	38.4	22.7	36.5	23.0	41.6	27.7
19	34.5	18.8	37.6	21.5	39.5	21.2	38.3	21.2	40.4	24.7
20	35.2	20.5	40.6	24.2	41.6	23.0	36.2	22.5	43.4	23.8
21	33.8	20.6	37.8	26.5	40.4	26.8	36.5	24.0	41.5	26.7
22	37.2	19.8	39.8	25.0	40.2	22.2	39.3	22.0	40.0	24.4
23	35.0	20.6	41.4	26.6	42.7	22.7	40.3	22.5	42.4	24.5
24	32.5	19.0	37.4	24.5	39.6	23.0	37.0	22.0	43.0	26.8
25	34.5	20.0	37.6	24.1	39.6	25.9	38.2	22.5	40.3	25.2
26	37.5	18.3	40.5	23.0	41.4	23.7	39.8	20.7	41.4	24.4
27	41.6	18.5	42.0	24.0	42.8	22.7	42.6	21.0	42.4	23.5
28	38.5	22.5	43.0	25.0	44.3	22.3	43.2	24.2	45.0	26.4
29	35.2	22.3	39.5	26.2	42.8	26.1	39.9	24.2	44.3	25.9
30	38.0	18.3	38.0	25.0	40.3	26.0	39.2	22.8	41.3	27.4
MEANS	37.2	20.6	40.7	24.9	41.8	24.1	40.1	23.2	42.6	25.0
NORMAL	36.1	18.7	40.9	23.3	41.0	23.3	....	....	41.5	24.8
HIGHEST	44.5	26.1	48.9	30.9	48.3	32.2	44.5	31.0	49.5	33.0
DAY	17th	10th	24th	5th	18th	6th	9th	5th	26th	8th
YEAR	1949	1932	1942	1965	1949	1958	1966	1965	1942	1966
LOWEST	25.4	7.8	30.3	15.6	30.4	13.5	30.3	12.8	32.0	16.4
DAY	5th	22nd	5th	3rd	5th	7th	5th	6th	5th	6th
YEAR	1967	1936	1967	1943	1967	1967	1967	1967	1967	1967

JUNE 1969.

TABLE 1 c.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	40.8	24.4	40.2	22.5	37.2	21.9	34.8	24.6
2	42.5	27.2	41.4	22.0	39.4	23.4	37.0	26.4
3	44.6	25.4	42.3	20.4	41.1	25.2	38.4	24.5
4	44.8	26.8	43.5	21.4	41.1	25.1	38.1	25.9
5	45.0	27.8	45.5	23.5	43.5	26.6	37.8	27.3
6	47.3	28.4	45.6	24.5	44.7	29.1	40.0	29.4
7	46.3	30.0	44.3	25.5	43.4	29.7	39.8	31.4
8	45.6	29.0	43.8	30.0	42.8	32.6	39.0	31.2
9	46.4	28.3	44.1	25.0	42.0	27.7	40.2	30.2
10	45.9	29.4	44.2	27.0	41.0	30.7	41.0	31.0
11	46.2	28.2	44.8	27.0	44.1	32.0	39.1	32.0
12	43.0	27.8	42.0	26.3	38.0	29.7	37.8	32.0
13	42.5	27.7	42.0	25.7	38.9	27.1	38.7	29.8
14	43.2	27.4	41.0	24.7	38.2	25.6	38.5	27.8
15	42.3	29.2	38.0	25.0	36.5	28.2	36.3	29.0
16	41.2	24.4	38.2	24.4	36.3	26.3	36.0	28.4
17	45.4	26.6	43.6	21.5	41.4	24.4	36.2	27.6
18	40.5	28.5	38.5	27.0	37.6	29.8	41.1	28.2
19	40.4	24.5	40.2	21.0	38.5	25.2	37.1	29.2
20	44.2	27.8	42.4	22.4	42.1	27.7	39.6	28.4
21	42.4	28.2	39.8	27.0	39.4	29.4	38.0	29.0
22	42.2	25.4	39.4	24.0	37.7	24.9	37.2	28.4
23	44.5	28.4	42.9	21.9	41.3	25.9	38.0	27.0
24	41.8	27.4	40.7	25.0	42.3	28.0	38.5	27.3
25	41.4	26.5	39.5	24.5	38.5	29.1	36.9	31.0
26	41.4	27.2	40.0	24.3	37.6	26.3	37.0	29.5
27	44.4	25.4	42.8	23.0	38.0	25.6	37.8	28.4
28	46.0	28.4	44.3	24.3	41.4	28.7	39.5	27.6
29	44.6	28.7	42.8	27.5	42.1	29.7	40.3	30.1
30	41.4	27.3	39.5	24.5	38.0	28.5	37.5	29.7
MEANS	43.6	27.4	41.9	24.5	40.1	27.5	38.2	28.7
NORMAL	44.8	....	41.0	22.5	40.2	24.9	38.8	27.1
HIGHEST	47.5	30.7	47.0	31.1	48.3	32.6	48.2	36.0
DAY	9th	30th	2nd	5th	27th	8th	26th	21st
YEAR	1966	1963	1962	1964	1955	1969	1957	1959
LOWEST	31.3	17.8	31.2	14.4	31.1	18.2	24.5	18.2
DAY	5th	6th	5th	1st	5th	6&7th	9th	7th
YEAR	1967	1967	1967	1942	1943	1967	1957	1967

TABLE 2 .

MONTHLY MEAN DRY-BULB TEMPERATURES (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
								TIME. G.M.T.	
SINJAR	....	26.7	30.9	33.4	35.0	34.4	30.7	....	31.9
MOSUL	24.0	22.9	31.0	37.3	39.1	36.8	32.1	27.4	31.3
SALAHADDIN	....	25.2	27.9	30.1	31.6	30.6	26.0	....	28.6
KIRKUK	27.3	26.9	34.3	38.0	39.6	38.2	32.3	29.4	33.3
ANAH	24.9	23.5	30.4	37.2	39.4	38.6	32.0	....	32.3
RUTBAH	22.8	21.5	28.6	34.3	36.5	36.0	30.2	26.0	29.5
HABBANIYA	26.7	25.8	32.6	38.6	40.5	38.9	32.1	27.7	32.9
BAGHDAD	27,6	25.7	33.4	39.5	41.2	40.0	32.5	29.6	33.7
NUKHAIB	....	....	32.1	37.4	39.5	39.1	33.5	....	36.3
HAI	27.1	25.9	35.7	40.8	42.2	38.9	32.6	29.7	34.1
NAJAF	29.6	27.9	35.5	41.4	43.2	41.2	35.8	32.7	36.9
DIWANIYA	26.2	25.4	34.6	40.1	41.6	39.3	31.6	28.5	33.4
NASIRIYA	29.1	28.5	33.0	37.1	39.4	37.9	32.3	31.7	33.6
BASRAH	30.2	29.5	33.7	35.7	37.3	36.3	33.0	31.7	33.4

TABLE 3. MONTHLY MEAN VAPOUR PRESSURE(MBS.)

SINJAR	....	10.0	10.5	10.4	10.1	9.9	10.5	....	10.2
MOSUL	12.2	12.6	13.8	13.4	12.0	11.5	11.9	12.7	12.5
SALAHADDIN	....	10.2	11.2	10.6	10.2	9.4	9.2	....	10.1
KIRKUK	8.9	9.6	9.7	7.9	7.7	7.5	9.4	9.3	8.8
ANAH	10.2	10.9	11.3	11.4	10.2	10.4	11.5	....	10.8
RUTBAH	8.5	9.9	9.3	7.9	6.6	6.5	7.7	7.9	8.0
HABBANIYA	14.5	15.3	13.7	10.8	9.5	11.1	14.7	14.2	13.0
BAGHDAD	11.1	12.1	13.2	10.2	8.8	9.5	11.6	11.3	11.0
NUKHAIB	....	....	7.5	7.6	7.8	7.5	7.4	....	7.6
HAI	15.1	16.3	18.5	17.2	15.3	17.1	16.7	15.1	16.4
NAJAF	10.5	10.1	10.8	10.3	8.8	9.0	10.5	10.5	10.1
DIWANIYA	14.4	15.0	16.2	14.8	13.1	14.2	16.0	15.0	14.8
NASIRIYA	16.6	16.8	18.8	19.0	17.2	18.9	22.2	21.7	18.9
BASRAH	27.8	28.5	29.0	31.6	31.7	31.3	32.2	29.6	30.3

TABLE 4. MONTHLY MEAN WET-BULB TEMPERATURES (°C)

SINJAR	....	15.7	17.4	18.3	18.7	18.4	17.4	....	17.6
MOSUL	16.4	16.0	19.6	21.9	21.7	21.0	19.0	17.8	19.2
SALAHADDIN	....	15.7	17.3	17.8	18.2	17.4	15.6	....	17.0
KIRKUK	15.8	16.0	18.9	19.5	20.0	19.4	18.0	16.9	18.1
ANAH	15.5	15.2	18.4	20.8	21.1	20.7	18.9	....	18.7
RUTBAH	13.7	13.6	16.7	17.9	18.4	18.1	16.5	14.8	16.2
HABBANIYA	18.2	18.2	20.2	20.9	21.1	21.1	20.4	19.3	19.9
BAGHDAD	17.1	16.8	20.2	21.0	21.0	20.9	19.2	17.9	19.3
NUKHAIB	....	....	17.2	19.2	20.0	19.7	17.6	....	18.7
HAI	18.2	17.9	22.5	23.4	23.4	22.8	20.7	19.1	21.0
NAJAF	17.5	16.7	19.9	21.7	21.7	21.1	19.9	18.7	19.7
DIWANIYA	18.2	18.1	21.8	23.1	22.9	22.7	20.9	19.4	21.6
NASIRIYA	20.2	20.0	22.4	23.9	23.8	24.0	24.1	23.2	22.7
BASRAH	25.0	25.1	26.5	27.9	28.4	28.0	27.4	26.1	26.8

TABLE 5. MONTHLY MEAN DEW-POINT (°C)

SINJAR	....	6.8	7.5	7.3	6.9	6.7	7.5	....	7.1
MOSUL	10.6	10.1	11.5	11.0	9.4	8.7	9.2	10.4	10.0
SALAHADDIN	....	7.3	8.7	7.7	7.1	6.8	5.8	....	7.2
KIRKUK	5.1	6.1	6.3	3.2	2.9	2.4	5.7	5.7	4.7
ANAH	7.0	8.0	8.9	8.6	7.0	7.1	8.7	....	7.9
RUTBAH	4.4	5.6	5.5	2.9	0.4	0.3	2.9	3.4	3.2
HABBANIYA	12.1	12.2	11.3	7.6	5.8	8.1	12.6	11.9	10.2
BAGHDAD	8.3	9.5	10.7	7.0	4.7	5.8	8.9	8.5	7.9
NUKHAIB	....	....	2.7	3.0	3.3	2.6	2.5	....	2.8
HAI	13.0	13.2	16.1	15.0	14.2	15.0	14.6	13.1	14.3
NAJAF	7.5	6.7	7.7	7.2	4.9	5.1	7.2	7.6	6.7
DIWANIYA	12.4	12.9	13.8	12.9	10.8	11.8	13.9	12.9	12.7
NASIRIYA	14.2	14.4	16.0	16.4	14.6	16.1	18.9	18.6	16.2
BASRAH	22.6	23.0	23.3	24.7	24.8	24.6	25.0	23.7	24.0

TABLE 6 . MONTHLY MEAN RELATIVE HUMIDITY(%) TIME - G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	30	25	21	18	18	24	...	23
MOSUL	43	45	31	21	17	16	25	36	30
SALAHADDIN	...	33	31	25	22	21	28	...	27
KIRKUK	25	26	19	13	11	12	20	23	19
ANAH	33	38	27	18	14	15	25	...	24
RUTBAH	31	36	25	15	11	11	18	25	22
HABBANIYA	43	46	28	16	13	16	31	34	28
BAGHDAD	31	37	26	14	11	13	24	28	23
NUKHAIB	...	...	16	12	11	11	15	...	13
HAI	43	46	32	22	22	20	25	37	33
NAJAF	26	27	19	13	10	11	18	22	18
DIWANIYA	43	46	29	20	17	20	35	39	31
NASIRIYA	41	43	38	31	25	30	42	47	37
BASRAH	65	69	56	55	50	52	64	64	59

TABLE 7. MONTHLY MEAN PRESSURE(MBS.) AT M.S.L.

SINJAR	....	05.0	04.9	04.5	03.5	03.0	04.3	....	1004.2
MOSUL	04.9	05.5	05.4	04.3	02.7	01.9	03.6	04.5	1004.1
SALAHADDIN	....	04.2	03.8	03.0	02.0	01.7	03.8	....	1003.1
KIRKUK	04.6	04.8	04.5	03.6	02.3	01.8	03.6	04.3	1003.7
ANAH	05.7	05.5	06.9	06.0	04.6	03.7	04.9	.....	1005.7
RUTBAH	05.5	06.2	06.5	05.9	05.0	04.4	04.8	05.2	1005.4
HABBANIYA	03.6	04.1	04.7	04.2	03.0	02.3	03.3	03.4	1003.6
BAGHDAD	03.0	03.4	04.2	03.9	02.7	02.0	02.9	03.2	1003.2
NUKHAIB	....	....	06.3	05.2	04.3	03.9	05.0	....	1004.9
HAI	01.6	02.1	02.8	02.6	01.7	01.1	01.8	02.0	1002.0
NAJAF	02.9	03.6	04.5	04.1	02.9	02.0	03.1	03.1	1003.3
DIWANIYA	02.9	03.5	04.4	04.0	03.1	02.4	03.2	03.2	1003.3
NASIRIYA	01.8	02.5	03.4	03.3	02.2	01.6	02.3	02.3	1002.4
BASRAH	01.4	01.9	03.0	03.1	02.1	01.6	02.0	01.9	1002.1

TABLE 8. MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

SINJAR	...	0.6	0.7	0.7	1.1	1.5	0.9	...	0.9
MOSUL	0.3	0.7	0.6	0.6	1.6	1.6	1.2	0.3	0.9
SALAHADDIN	...	0.5	0.6	1.1	1.5	1.5	1.4	...	1.1
KIRKUK	0.1	0.5	0.6	0.7	1.0	0.7	0.2	0.1	0.5
ANAH	0.1	0.5	0.3	0.1	0.5	0.6	0.5	...	0.4
RUTBAH	0.2	0.3	0.4	0.6	0.6	0.8	0.3	0.1	0.4
HABBANIYA	0.2	0.1	0.3	0.4	0.2	1.1	0.4	0.2	0.4
BAGHDAD	0.1	0.3	0.6	0.4	0.9	0.7	0.2	0.2	0.4
NUKHAIB	...	...	0.2	0.4	0.6	0.4	0.0	...	0.3
HAI	0.2	0.4	0.4	1.0	0.9	1.0	0.3	0.2	0.6
NAJAF	0.3	0.5	0.2	0.5	0.6	0.9	0.5	0.3	0.5
DIWANIYA	0.1	0.2	0.2	0.3	0.1	0.6	0.0	0.1	0.2
NASIRIYA	0.2	0.2	0.2	0.7	0.7	0.6	0.0	0.0	0.3
BASRAH	0.1	0.0	0.1	0.1	0.1	0.6	0.1	0.2	0.2

TABLE 9. MONTHLY MEAN LOW CLOUD(OKTAS)

SINJAR	....	0.4	0.4	0.3	0.7	0.9	0.7	...	0.5
MOSUL	0.2	0.4	0.4	0.5	1.5	1.2	0.9	0.2	0.7
SALAHADDIN	...	0.4	0.5	0.9	1.3	1.2	1.0	...	0.9
KIRKUK	0.1	0.2	0.5	0.6	0.9	0.5	0.2	0.1	0.4
ANAH	0.0	0.0	0.0	0.0	0.1	0.1	0.0	...	0.0
RUTBAH	0.0	0.0	0.0	0.2	0.4	0.5	0.1	0.0	0.1
HABBANIYA	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.1
BAGHDAD	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.1
NUKHAIB	...	...	0.0	0.1	0.3	0.3	0.0	...	0.1
HAI	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1
NAJAF	0.0	0.0	0.1	0.1	0.3	0.3	0.0	0.0	0.1
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
NASIRIYA	0.0	0.0	0.0	0.5	0.6	0.4	0.0	0.0	0.2
BASRAH	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0

TABLE 10a. SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	9	0	4	3	0	3	5	6	0	25	5	0	0	7
	0600	7	0	4	2	2	1	4	4	6	17	7	0	0	7
	0900	3	2	3	0	3	1	10	6	2	18	10	0	0	9
	1200	2	2	0	0	2	0	22	2	0	15	15	0	0	10
	1500	1	1	0	0	0	2	21	5	0	12	17	1	0	12
	1800	6	0	0	0	0	0	13	10	1	21	7	1	0	8
MOSUL	0000	0	0	0	0	3	0	4	4	19	11	0	0	0	2
	0300	0	0	0	0	3	0	4	8	15	15	0	0	0	2
	0600	5	1	3	0	2	0	4	9	6	24	0	0	0	3
	0900	7	1	1	2	4	0	3	7	5	24	1	0	0	4
	1200	10	0	3	2	4	0	5	2	3	25	2	0	0	5
	1500	4	0	0	1	1	2	13	4	5	24	1	0	0	5
	1800	0	1	1	1	1	0	12	5	9	20	1	0	0	4
	2100	0	0	0	0	0	1	6	4	19	11	0	0	0	2
SALAHADDIN	0300	5	3	0	0	10	1	2	0	9	18	3	0	0	4
	0600	5	5	0	1	8	3	1	0	6	21	3	0	0	5
	0900	5	3	0	0	12	6	2	0	2	26	1	1	0	7
	1200	4	1	0	1	13	6	1	0	4	18	7	1	0	8
	1500	4	1	0	1	9	7	3	2	3	19	7	1	0	8
	1800	4	2	0	1	2	3	8	2	8	20	2	0	0	3
KIRKUK	0000	0	3	2	0	0	0	0	0	25	4	1	0	0	1
	0300	0	4	1	0	0	0	0	0	25	4	1	0	0	1
	0600	1	3	2	0	0	1	1	0	22	6	2	0	0	2
	0900	0	2	3	0	2	2	10	3	8	20	2	0	0	4
	1200	0	3	1	0	0	0	18	4	4	21	5	0	0	6
	1500	2	3	0	0	0	0	16	4	5	23	2	0	0	5
	1800	0	3	2	0	0	1	3	1	20	9	1	0	0	2
	2100	0	3	1	0	0	0	1	0	25	4	1	0	0	1
ANAH	0000	2	0	1	0	1	0	9	6	11	9	10	0	0	7
	0300	0	1	0	0	1	0	14	5	9	14	7	0	0	7
	0600	2	0	0	0	0	0	22	4	2	19	9	0	0	9
	0900	8	0	0	1	0	1	10	8	2	18	8	2	0	10
	1200	6	0	1	1	1	0	15	5	1	18	8	2	1	11
	1500	1	1	1	1	0	1	16	7	2	20	7	1	0	9
	1800	0	0	0	0	1	1	7	7	14	13	3	0	0	4

JUNE 1969.

TABLE 1 (b) SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
RUTBAH	0000	6	0	0	1	1	1	5	12	3	21	6	0	0	7
	0300	6	0	0	0	1	4	5	7	4	22	4	0	0	5
	0600	16	2	0	0	1	1	7	6	0	22	7	1	0	8
	0900	9	2	1	1	0	4	4	9	0	21	8	1	0	9
	1200	5	2	0	1	0	0	13	9	0	17	13	0	0	10
	1500	6	2	1	1	0	2	8	10	0	19	11	0	0	9
	1800	12	2	0	2	0	0	5	6	2	26	2	0	0	7
	2100	7	2	1	1	0	1	7	5	5	16	9	0	0	7
HABBANIYA	0000	0	1	0	0	1	0	5	11	12	17	1	0	0	4
	0300	1	0	0	0	0	0	10	9	10	17	3	0	0	5
	0600	3	0	0	0	2	0	9	16	0	17	13	0	0	10
	0900	4	0	0	0	1	4	8	13	0	17	12	1	0	11
	1200	1	0	0	0	1	1	14	12	1	16	11	2	0	10
	1500	9	0	0	0	0	0	7	10	4	20	6	0	0	7
	1800	4	0	0	0	1	0	6	3	16	13	1	0	0	3
	2100	3	0	0	0	0	0	6	6	15	15	0	0	0	3
BAGHDAD	0000	10	2	0	0	0	1	2	10	5	19	6	0	0	7
	0300	5	0	0	1	0	0	1	15	8	20	2	0	0	5
	0600	5	0	0	1	2	0	1	18	3	13	14	0	0	9
	0900	6	1	0	1	2	2	5	13	0	14	16	0	0	12
	1200	1	0	0	0	2	2	10	15	0	13	15	2	0	12
	1500	1	0	0	1	0	0	11	16	1	10	19	0	0	11
	1800	1	0	0	0	0	0	9	13	7	21	2	0	0	6
	2100	6	1	0	0	1	0	6	10	6	20	4	0	0	7
NUKHAIB	0600	9	1	2	0	0	0	10	8	0	18	9	3	0	12
	0900	11	3	0	0	1	1	8	6	0	21	9	0	0	9
	1200	8	2	1	0	0	1	11	7	0	20	9	1	0	9
	1500	8	0	1	0	0	3	11	7	0	25	5	0	0	8
	1800	11	0	2	0	1	0	10	3	3	27	0	0	0	5
HAI	0000	3	0	1	0	0	0	5	19	2	15	13	0	0	9
	0300	5	0	1	0	0	0	4	19	1	24	5	0	0	7
	0600	7	0	2	0	0	0	3	16	2	21	7	0	0	7
	0900	7	0	1	0	2	0	2	17	1	14	14	1	0	10
	1200	5	0	2	0	2	0	4	17	0	10	17	3	0	13
	1500	7	0	1	2	0	0	3	16	1	17	12	0	0	10
	1800	4	0	2	0	0	0	0	19	5	17	8	0	0	7
	2100	1	0	2	0	1	0	3	19	4	15	11	0	0	8

JUNE 1969.

TABLE 10c.

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥ 34	MEAN V.K.
NAJAF	0000	3	3	0	1	0	0	4	15	3	26	1	0	0	5
	0300	8	1	0	0	0	2	3	13	3	26	1	0	0	5
	0600	8	1	0	0	0	0	5	14	2	27	1	0	0	5
	0900	6	2	1	4	0	0	1	14	2	27	1	0	0	5
	1200	5	2	3	1	0	0	5	13	1	24	5	0	0	6
	1500	9	0	2	1	0	0	5	12	1	28	1	0	0	5
	1800	6	3	1	1	0	0	1	14	4	25	1	0	0	4
	2100	10	0	0	2	0	0	3	10	5	25	0	0	0	3
DIWANIYA	0000	9	0	1	0	2	0	6	6	6	22	2	0	0	5
	0300	10	0	0	0	1	0	6	7	6	24	0	0	0	5
	0600	9	0	1	1	0	3	9	6	1	22	7	0	0	7
	0900	9	0	0	0	3	0	11	4	3	17	10	0	0	8
	1200	6	0	0	0	1	1	9	11	2	15	13	0	0	10
	1500	8	1	0	0	0	0	7	10	4	23	3	0	0	7
	1800	8	0	1	0	0	0	9	3	9	20	1	0	0	4
	2100	8	3	0	1	0	0	3	4	11	18	1	0	0	3
NASIRIYA	0000	1	1	1	0	2	4	5	12	4	19	7	0	0	7
	0300	5	0	0	0	0	2	1	13	9	16	5	0	0	6
	0600	1	0	0	0	0	0	9	17	3	19	8	0	0	7
	0900	0	0	1	0	0	0	7	22	0	19	11	0	0	9
	1200	0	0	1	1	0	0	2	26	0	17	13	0	0	7
	1500	1	1	1	2	0	0	5	18	2	20	8	0	0	8
	1800	5	1	1	1	1	0	3	14	4	19	7	0	0	7
	2100	1	1	1	1	1	0	4	12	9	15	6	0	0	6
BASRAH	0000	5	0	0	0	3	2	7	12	1	25	4	0	0	6
	0300	5	1	1	0	0	0	12	9	2	24	4	0	0	6
	0600	5	2	1	0	1	0	6	14	1	25	4	0	0	7
	0900	8	0	2	0	0	0	1	19	0	23	7	0	0	8
	1200	10	2	1	0	0	0	1	16	0	23	8	0	0	8
	1500	10	1	1	0	0	0	2	15	1	24	5	0	0	6
	1800	6	1	0	2	1	0	2	15	3	21	6	0	0	6
	2100	4	1	0	0	3	1	7	13	1	20	9	0	0	7

TABLE 11. HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR(V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	27 Knots	270	1800	14th
MOSUL	15	170	0900	17th
SALAHADDIN	30	210	1200	23rd
KIRKUK	20	250	1200	17th
ANAH	36	270	1200	15th
RUTBAH	25	250	0600	17th
HABBANIYA	25	280	0900	15th
BAGHDAD	22	300	1200	16th
NUKHAIB	26	270	1200	15th
HAI	24	330	1200	29th
NAJAF	16	290	1500	14th
DIWANIYA	18	340	1200	25th
NASIRIYA	18	320	1200	11th
BASRAH	18	320	2100	30th

TABLE 12a. DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16		tr	tr				
17				tr			
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL	0.0	tr	tr	tr	0.0	0.0	0.0
NORMAL	0.3	0.7	0.6	0.2	0.0	0.7	0.0

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	6.1 mms	13th	1957
MOSUL	5.4	5th	1959
SALAHADDIN	3.3	2nd	1957
KIRKUK	2.7	12th	1957
RUTBAH	1.7	2nd	1954
HABBAniya	0.5	1st	1963

JUNE 1959.

TABLE 12b. DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.1	0.0	0.0	0.0	0.0	0.0	0.0

STATION	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
BAGHDAD	2.5 mmms.	2nd	1955
NUKHAIB	tr.	8th	1965
HAI	0.3	4th	1957
NAJAF	tr.	1st	1963
DIWANIYA	tr.	11th	1944
NASIRIYA	tr.	5th	1968
BASRAH	tr.	2nd	1958

JUNE 1969. TABLE 13.

DAILY EVAPORATION(MILLIMETERS) IN PAN CLASS A. AT 0600 G.M.T.

DAYS	MOSUL	KIR-KUK	RUT-BAH	ANAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	12	14	17	9	15	16	8	10	10	7
2	14	12	16	10	11	17	10	10	8	7
3	11	12	18	9	11	20	10	11	8	9
4	11	10	18	11	10	20	10	9	8	4
5	11	12	17	11	12	20	12	8	8	8
6	13	13	17	14	15	19	10	10	10	8
7	8	14	20	12	16	18	11	10	11	6
8	7	12	20	13	16	20	14	10	10	9
9	13	12	19	14	15	20	13	10	10	8
10	12	13	20	14	19	20	12	12	13	10
11	13	13	18	13	15	18	14	11	13	7
12	10	12	20	15	18	18	10	11	11	8
13	11	13	25	14	15	18	10	14	12	8
14	13	13	24	15	20	19	12	11	14	6
15	13	11	22	15	17	17	10	9	13	7
16	14	9	25	15	14	18	9	10	9	6
17	15	10	22	12	12	20	12	6	9	9
18	13	9	20	13	12	16	10	9	8	9
19	16	11	20	10	10	18	9	7	8	7
20	14	11	20	11	14	18	10	9	12	7
21	10	12	16	12	14	17	10	11	10	8
22	12	12	18	13	13	18	15	9	10	7
23	12	13	17	11	14	19	12	7	10	9
24	12	11	17	13	13	18	12	10	11	5
25	12	12	18	10	17	17	10	11	12	10
26	13	12	18	14	17	18	10	10	10	7
27	9	13	21	13	15	20	10	9	10	10
28	12	13	18	12	14	19	10	9	9	8
29	12	13	16	12	17	17	11	12	11	9
30	9	13	17	11	18	18	10	11	12	10
TOTAL	357	360	574	372	442	551	326	296	310	234
MEAN	11.9	12.0	19.1	12.4	14.6	18.4	10.9	9.9	10.3	7.8

TABLE 14 . DAILY GRASS MINIMUM TEMPERATURES °C AND SOIL TEMPERATURES °C OF 0.3M and 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	12.4	20.2	27.6	23.7	20.0	32.0	28.4	16.7	32.0	27.0	33.4	31.2	21.0	34.0	28.1	19.2
2	15.6	23.6	28.4	23.9	22.1	32.4	28.5	15.0	32.5	27.0	33.6	31.4	22.7	33.0	28.2	19.0
3	17.0	18.5	29.2	23.9	22.0	32.6	28.5	18.2	32.8	27.1	34.2	30.8	23.2	33.7	28.3	17.3
4	16.1	22.1	29.6	24.0	23.5	32.8	28.6	15.3	34.2	27.2	34.8	30.8	22.9	34.5	28.4	17.4
5	17.2	20.9	28.5	24.4	22.2	33.0	28.6	17.6	33.5	27.3	34.7	30.7	25.2	35.1	28.4	18.5
6	18.4	25.0	28.2	24.5	23.4	33.5	28.6	21.2	34.2	27.3	35.8	31.2	28.6	36.0	28.8	20.6
7	17.5	24.4	28.9	24.5	26.0	33.9	28.9	27.0	35.0	27.5	36.6	31.5	28.9	36.4	28.7	21.9
8	18.5	19.6	29.5	24.9	24.5	34.2	29.0	19.0	34.7	27.2	37.0	31.7	30.5	36.8	28.8	22.7
9	21.8	23.0	30.4	25.0	24.5	34.0	29.0	19.5	34.8	27.8	36.7	31.9	26.1	36.7	29.1	21.8
10	19.0	20.7	30.5	25.3	23.4	34.2	29.2	17.0	34.6	27.9	37.2	32.3	29.9	36.7	29.2	21.0
11	18.3	19.4	28.8	25.5	24.6	24.1	29.3	24.7	35.0	28.0	37.1	32.3	30.9	36.5	29.5	24.0
12	13.4	18.9	28.1	26.1	23.4	34.0	29.5	20.2	35.0	28.2	37.0	32.7	28.6	36.7	29.4	23.3
13	12.5	16.8	27.8	26.0	23.9	34.0	29.5	20.4	34.3	28.3	36.6	32.7	25.5	35.8	29.5	20.9
14	16.5	17.7	27.4	26.1	24.2	34.0	29.6	20.0	34.2	28.3	36.4	33.8	25.2	35.3	29.8	18.2
15	18.6	14.5	27.8	26.0	24.0	33.9	29.8	19.1	34.0	28.5	36.6	33.9	27.0	35.7	30.0	21.5
16	17.0	15.5	27.8	26.1	21.5	33.0	29.8	15.5	33.3	28.6	36.0	32.9	25.5	35.3	29.8	22.1
17	17.8	18.5	27.2	26.0	23.4	33.0	29.8	16.2	33.5	28.5	35.8	33.0	23.3	35.0	30.0	19.8
18	16.2	17.0	26.1	26.1	22.8	33.0	29.8	19.8	33.5	28.7	36.3	33.0	29.1	35.9	30.1	21.2
19	16.4	18.5	26.6	26.1	20.5	33.1	29.9	15.5	33.4	28.6	35.8	33.3	24.7	35.7	30.1	21.8
20	15.6	17.0	26.6	26.1	22.2	33.3	30.0	17.1	33.9	28.7	36.0	32.8	25.2	36.0	30.2	20.4
21	17.1	19.0	26.7	26.1	25.6	33.8	29.8	23.5	34.5	28.8	36.6	33.2	28.0	36.7	30.3	21.2
22	15.5	16.4	27.3	26.1	22.8	34.0	30.0	15.8	34.0	28.8	36.2	33.3	23.0	36.0	30.6	21.0
23	17.2	19.2	27.9	26.1	23.6	34.2	30.0	16.4	34.2	27.8	36.2	33.2	24.6	36.3	30.4	19.8
24	15.6	17.0	28.3	26.1	22.2	34.3	30.0	18.0	34.3	28.9	36.5	33.4	25.5	36.5	30.5	20.2
25	15.5	18.5	28.8	26.4	22.8	34.2	30.0	21.3	34.4	29.0	36.4	33.4	28.2	37.0	30.6	21.2
26	13.2	15.6	28.9	26.4	21.1	34.2	30.2	19.5	34.0	29.0	36.3	33.4	24.9	36.7	30.7	19.4
27	14.5	14.8	29.1	26.4	22.2	34.2	30.3	18.0	34.0	29.0	36.0	33.4	24.8	36.4	30.5	19.3
28	13.8	17.1	29.4	26.6	23.2	34.2	30.3	17.0	33.9	29.2	36.4	33.8	27.6	35.6	30.8	17.6
29	17.2	18.6	30.0	26.6	23.4	34.7	30.3	19.4	34.8	29.2	37.2	33.6	27.7	36.3	30.8	19.7
30	19.6	18.7	29.5	26.8	22.8	34.7	30.5	23.2	34.8	28.4	37.0	33.6	27.3	36.5	31.1	19.5
MEANS	16.5	18.9	28.4	25.6	23.1	33.7	28.9	18.9	34.0	28.2	36.1	32.6	26.2	35.8	29.7	20.4

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST STORM: RISING	DUST STORM: SUSPENDED	DUST STORM: BLOWN	STATE OF SKY: CLEAR	STATE OF SKY: CLOUDY	DURATION OF SUNSHINE-HOURS: MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	1	0	0	0	2	0	0	21	0	-	-	-	-
MOSUL	0	0	0	0	0	0	1	0	6	0	23	0	382.8	13.9	2nd	0
SALAHADDIN	0	0	0	0	0	0	0	0	1	0	23	0	-	-	-	-
KIRKUK	0	0	0	0	0	0	12	3	5	1	27	0	-	-	-	-
ANAH	0	0	0	0	0	0	0	6	0	0	27	0	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	4	0	0	29	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	1	4	4	0	26	0	397.1	14.1	26th	0
BAGHDAD	0	0	0	0	0	0	22	6	4	0	26	0	387.6	13.7	25th	0
NUKHAIB	0	0	0	0	0	0	0	10	0	0	28	0	-	-	-	-
HAI	0	0	0	0	0	0	0	16	6	0	25	0	-	-	-	-
NAJAF	0	0	0	0	0	0	1	1	7	0	26	0	-	-	-	-
DIWANIYA	0	0	0	0	0	0	1	4	14	0	29	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	3	8	14	0	29	0	-	-	-	-
BASRAH	0	0	0	0	0	0	0	1	11	0	30	0	363.7	13.1	28th	0

TABLE-16. HIGHEST, LOWEST & RECORDS OF PRESSURE AT M.S.L. AND RELATIVE HUMIDITY

STATION	PRESSURE AT M.S.L. for 1969 - HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL. - mbs.-RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY (%)-1969 HIGH EST	TIME GMT.	DAY	LOW EST	TIME GMT.	DAY
SINJAR	1009.0	0300	11th	997.4	1500	14th	1016.1	0300	2nd	1967	995.1	1500	30th	1967	55	0300	18th	12	1500	11th
MOSUL	1009.3	0600	1st	995.2	1500	14th	1017.3	0300	1st	1952	992.8	1800	29th	1960	66	0300	17th	10	1500	27th
SALAHADDIN	1008.5	1800	1st	995.8	1500	14th	1014.9	0300	2nd	1967	994.4	1500	30th	1967	52	0300	17th	13	1200	10th
KIRKUK	1008.3	0000	1st	996.0	1500	14th	1014.4	0300	1st	1952	991.2	1500	1st	1951	41	0300	18th	5	1500	27th
ANAH	1010.7	0600	11th	999.5	1500	17th	1014.5	0600	2nd	1968	999.2	1500	22nd	1968	61	0300	9th	8	1500	4th
RUTBAH	1008.5	0300	26th	1000.7	1500	17th	1018.3	0300	1st	1952	997.3	1200	30th	1944	57	0300	18th	5	1500	27th
HABBANIYA	1007.1	0900	10th	998.7	1500	17th	1015.0	0600	1st	1967	994.4	1500	29th	1960	86	0000	4th	5	1200	9th
BAGHDAD	1006.6	0600	25th	997.4	1500	17th	1014.4	0600	1st	1967	991.1	1800	24th	1963	60	0000	19th	6	1800	26th
NUKHAIB	1009.1	0600	11th	1000.9	1500	23rd	1016.7	0600	1st	1967	995.8	1500	30th	1963	25	0600	19th	4	1500	9th
HAI	1006.3	0600	4th	997.0	0300	10th	1012.6	0300	1st	1952	992.3	1500	29th	1960	75	0300	4th	14	1200	10th
NAJAF	1006.7	0900	25th	997.6	1500	17th	1014.6	0600	1st	1967	992.9	1500	30th	1963	50	0300	19th	6	1200	8th
DIWANIYA	1006.8	0600	16th	998.2	1500	17th	1013.8	0600	1st	1967	992.9	1500	29th	1960	69	0300	23rd	11	1500	26th
NASIRIYA	1006.2	0600	4th	998.5	1500	7th	1012.6	0600	1st	1967	993.2	1500	29th	1960	66	2100	22nd	12	1200	3rd
BASRAH	1006.9	0900	3rd	998.3	1500	7th	1012.6	0600	2nd	1968	992.4	1500	29th	1960	92	0300	23rd	19	0900	18th

JUNE 1969. TABLE 15

STATION : BAGHDAD RADIOSONDE STATION TIME : 0000 G.M.T.

UPPER AIR CLIMATOLOGICAL DATA

PRESSURE SURFACE mb.	HEIGHTS OF PRESSURE (G.P.M.)				TEMPERATURE °C				DEW POINT °C		WIND						
												AVERAGE VICTOR WIND		MAX.SPEED		MIN.SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIREC-TION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS	DIREC-TION	SPEED KNOTS
1000	30	37	0067	-0019	21	28.5	33.7	25.3	20	12.0	21	330	06	350	20	000	00
850	30	1490	1520	1446	30	24.7	29.3	20.0	29	-0.6	30	320	09	310	23	160	02
700	30	3145	3195	3044	30	11.4	16.3	8.4	29	-10.0	30	290	14	290	28	220	02
500	30	5856	5915	5780	30	-8.4	-2.4	-14.0	29	-27.8	28	270	19	270	40	220	05
300	30	9612	9748	9533	30	-35.0	-29.0	-41.0	29	-52.1	28	260	36	240	88	270	08
200	30	12340	12510	12230	30	-50.4	-46.7	-55.4	22	-65.2	28	250	50	240	118	270	15
150	29	14170	14350	14020	29	-58.4	-52.0	-64.1	5	-67.0	27	250	48	240	110	270	15
100	29	16670	16860	16580	29	-67.9	-61.6	-74.0	-	-	23	250	44	240	90	230	17
70	26	18800	18990	18710	26	-67.3	-61.0	-73.2	-	-	15	250	34	250	68	250	17

N = Total Number of Observations.

JUNE 1969. TABLE [illegible]

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL.
THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.
STATION: BAGHDAD:RADIOSONDE STATION.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
		AVERAGE			MAXIMUM			LOWEST				AVERAGE			MAXIMUM			LOWEST						
	N	HEIGHT "GPM."	PRESSURE mb.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C	N	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	DIRECTION 000-360	SPEED "Knots"
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
00001	30	4715	579	19.8	5570	625	-10.7	4060	523	-27.8	29	14922	139	-64.4	16800	250	-48.0	10774	70	-75.5	1960	210	240	130

N= Total Number of Observations.

1969 ( )

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

مديرية احصائيات المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٢

العدد : ٧

الشهر : تموز

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 7

MONTH : JULY

YEAR : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation 12a-b	12a-b	9-10
Daily evaporation	13	11
Daily grass minimum and soil temperatures	14	12
Number of days for the cases of phenomena and duration of sunshine	15a	13
Highest, lowest & records of pressure at M.S.L. and relative humidity	15b	13
Upper air climatological data at BAGHDAD	16	14
Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air at BAGHDAD	17	15

JULY 1969. TABLE 1a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	37.5	20.7	39.2	19.5	31.6	21.2	39.0	25.0	35.2	20.6
2	37.4	20.4	39.4	19.8	33.4	21.3	40.2	23.3	39.0	22.1
3	37.8	20.7	41.2	24.4	33.2	22.4	41.6	23.8	41.8	23.2
4	35.6	24.1	40.3	21.0	33.4	23.3	41.2	25.5	40.0	23.0
5	35.1	22.0	38.4	21.5	32.1	21.8	39.0	22.2	37.8	23.0
6	36.8	20.7	40.0	20.4	32.4	21.5	40.3	27.4	41.0	22.6
7	37.5	21.8	40.5	23.0	32.6	22.1	41.2	26.9	41.8	25.0
8	37.6	21.7	41.4	22.8	33.0	22.0	41.5	27.0	42.2	26.3
9	36.6	21.0	41.3	23.5	33.0	22.4	42.0	28.2	41.2	24.4
10	36.8	22.1	41.1	24.0	34.0	22.1	42.0	28.4	41.8	24.6
11	37.5	22.7	41.1	26.0	33.0	23.0	41.7	25.7	43.0	27.4
12	39.0	22.8	42.0	23.6	33.4	24.1	41.3	31.0	44.0	27.0
13	39.6	24.0	43.0	22.9	36.1	25.0	44.2	30.7	44.5	28.0
14	40.3	22.4	39.5	27.4	34.5	25.0	42.6	26.2	39.0	25.4
15	30.1	21.4	39.3	24.0	31.4	21.2	39.2	24.5	39.0	23.0
16	39.4	23.1	42.8	23.6	36.0	22.1	43.1	22.7	41.0	23.0
17	40.9	24.1	42.5	22.1	36.1	24.0	43.4	26.9	41.0	23.8
18	41.4	24.1	42.5	22.5	35.1	24.0	44.2	25.4	41.5	24.5
19	37.6	24.2	42.6	26.0	35.1	24.0	42.5	27.5	40.3	24.0
20	36.1	21.3	42.2	20.8	33.0	23.2	39.8	26.0	40.4	23.8
21	36.6	21.1	41.7	22.1	34.2	24.1	41.9	28.9	42.0	25.4
22	35.5	21.2	41.0	27.4	34.3	23.1	41.7	25.6	39.6	25.8
23	36.8	20.3	40.8	20.5	34.2	22.3	41.1	24.0	40.6	24.6
24	38.8	22.2	44.3	25.1	36.4	24.3	45.3	25.7	41.8	25.5
25	38.6	22.1	44.6	28.2	37.1	25.3	45.3	27.5	41.0	23.5
26	36.2	20.1	40.3	26.0	34.3	24.2	41.1	26.8	37.8	22.8
27	36.0	19.3	39.7	25.3	33.6	22.3	40.0	24.5	37.6	22.0
28	36.3	20.1	41.1	26.2	34.3	22.2	41.3	24.8	39.2	21.5
29	37.6	23.0	41.5	21.4	34.4	22.6	42.4	24.9	41.4	24.8
30	39.2	24.1	43.7	23.3	36.2	24.2	45.0	26.6	42.2	25.1
31	39.8	23.8	44.0	26.8	35.2	24.4	45.1	30.0	42.3	23.4
MEANS	37.8	22.0	41.4	23.6	34.1	23.0	42.0	26.3	40.7	24.2
NORMAL	....	....	43.4	22.2	....	....	42.6	26.5	....	....
HIGHEST	44.7	33.2	51.1	32.8	38.4	28.4	49.5	35.5	47.6	28.6
DAY	19th	14th	21st	8th	24th	19th	16th	21st	24th	26th
YEAR	1962	1964	1937	1938	1968	1968	1965	1940	1968	1968
LOWEST	33.0	19.3	34.4	13.8	31.1	20.5	34.0	22.0	36.2	20.6
DAY	5th	27th	5th	12th	6th	5th	11th	13th	1st	1st
YEAR	1966	1969	1926	1958	1968	1969	1958	1950	1969	1969

JULY 1959. TABLE 1b.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	34.5	17.6	38.7	24.5	41.1	24.6	39.0	22.6	42.7	26.4
2	37.0	19.5	39.6	24.5	40.5	25.3	40.2	22.4	41.4	27.0
3	38.2	19.6	40.8	24.3	42.2	25.5	41.5	23.4	42.4	25.4
4	37.0	20.3	41.0	24.0	42.1	25.0	41.3	24.3	41.8	26.2
5	35.6	20.1	39.0	23.5	39.0	23.8	39.9	23.4	40.6	25.2
6	37.5	19.7	40.5	22.5	42.0	21.1	40.5	21.2	41.7	23.0
7	38.0	20.4	41.7	25.0	43.0	23.0	41.6	23.1	42.8	23.4
8	38.6	21.0	42.4	25.0	43.1	22.0	41.7	23.0	43.4	23.8
9	37.6	21.6	42.4	25.0	43.9	26.2	41.2	23.4	44.1	24.0
10	38.5	22.8	42.0	26.4	42.4	25.1	41.8	23.4	42.5	26.4
11	38.6	22.6	41.7	27.2	42.5	27.4	41.7	26.3	42.6	25.8
12	40.2	22.5	42.8	25.6	43.8	25.7	42.7	25.3	44.8	25.7
13	40.5	23.8	44.3	26.0	45.4	24.7	43.5	26.1	45.7	25.6
14	36.5	22.6	42.0	28.0	44.4	28.0	40.4	26.3	46.6	26.7
15	37.6	20.5	38.8	26.0	41.3	26.3	40.6	24.0	43.4	28.7
16	39.0	20.6	41.8	25.5	42.3	26.5	41.6	24.1	42.8	28.3
17	37.3	20.2	42.8	23.6	42.8	25.5	41.5	24.0	42.3	27.4
18	37.0	20.8	42.1	26.6	42.2	24.5	40.6	24.1	43.0	25.4
19	35.7	21.0	40.6	25.5	41.5	25.2	40.3	22.5	42.5	24.3
20	37.3	20.3	41.4	23.0	41.7	21.0	40.6	22.4	43.6	23.6
21	37.0	21.0	42.5	23.4	43.3	24.8	39.5	23.5	44.8	25.1
22	35.7	21.7	41.5	26.2	43.0	27.0	38.6	23.0	44.0	24.8
23	36.2	20.7	39.6	25.0	40.0	26.1	39.2	22.1	40.7	28.1
24	36.7	20.4	41.8	26.0	42.6	27.0	38.0	23.1	42.7	25.4
25	37.1	21.7	41.8	26.0	42.0	27.4	38.5	22.0	42.2	26.2
26	36.0	22.0	39.5	25.4	40.9	27.1	38.1	22.8	41.8	29.6
27	35.5	20.0	37.6	23.5	37.9	27.1	38.5	21.6	41.0	30.1
28	37.0	20.2	40.0	23.6	40.4	25.5	40.8	22.3	41.0	27.4
29	36.6	20.4	41.5	24.5	41.0	25.9	41.0	22.8	41.3	25.2
30	37.5	22.0	42.4	26.5	42.7	26.4	41.0	23.6	42.8	25.6
31	37.0	21.6	42.3	26.0	42.3	23.8	41.3	24.0	43.2	26.2
MEANS	37.2	20.9	41.2	25.1	42.0	25.3	40.5	22.8	42.8	26.0
NORMAL	38.6	21.8	43.9	25.7	43.4	25.2	....	....	43.6	26.3
HIGHEST	46.1	31.4	50.6	33.9	50.0	38.2	47.2	30.0	50.0	32.4
DAY	22nd	31st	3rd	22nd	31st	25th	23rd	17th	22nd	16th
YEAR	1940	1959	1948	1953	1957	1957	1967	1965	1943	1967
LOWEST	29.3	14.4	36.0	21.1	35.5	16.6	36.3	20.2	35.0	20.7
DAY	11th	6th	5th	2nd	5th	8th	13th	29th	12th	13th
YEAR	1958	1933	1959	1948	1940	1946	1965	1963	1958	1965

JULY 1969. TABLE 1c.

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

DAYS	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	43.4	27.0	40.8	26.0	38.4	28.6	37.2	28.6
2	41.6	27.0	40.2	25.2	36.0	27.7	36.7	29.2
3	42.8	26.8	41.3	25.2	37.5	28.2	37.7	27.8
4	42.8	26.4	41.8	25.3	37.4	27.4	37.4	28.8
5	41.0	27.6	39.3	23.2	36.7	28.0	36.4	29.5
6	42.2	26.2	40.0	26.1	37.7	25.6	37.4	27.4
7	43.5	27.2	41.9	24.1	39.0	25.7	36.8	26.6
8	44.7	29.4	42.3	22.4	40.9	26.3	38.7	27.2
9	45.9	27.5	42.5	23.0	43.2	25.6	38.6	27.8
10	44.6	28.2	41.8	22.8	40.6	28.0	39.0	27.2
11	44.2	30.2	41.3	23.4	40.0	28.1	39.5	29.3
12	45.0	29.4	41.8	22.8	40.8	28.5	37.8	29.5
13	46.4	29.4	43.2	26.9	42.5	28.7	39.3	28.5
14	45.0	30.4	42.9	29.0	45.7	28.7	42.2	28.6
15	45.7	28.2	40.7	25.8	40.3	28.8	38.5	30.3
16	43.0	28.8	41.4	25.3	37.0	25.7	38.1	29.2
17	43.5	28.4	41.3	24.0	37.4	26.3	37.4	29.8
18	43.4	28.5	41.4	24.0	38.6	25.5	37.8	27.5
19	42.7	28.2	40.4	23.8	38.9	26.4	36.5	27.9
20	43.2	27.2	42.2	21.8	41.9	24.4	39.0	27.5
21	44.4	27.4	42.7	22.5	44.1	27.8	40.5	28.4
22	43.4	28.0	42.0	25.4	41.1	27.3	39.3	27.7
23	42.0	27.2	39.5	25.5	36.8	27.5	38.3	31.1
24	43.4	28.4	41.1	26.0	38.4	26.2	37.2	27.7
25	43.4	29.0	41.4	25.8	37.8	26.5	37.6	27.5
26	41.2	29.4	40.0	28.0	35.6	27.4	37.2	30.7
27	40.4	27.2	38.5	25.0	36.4	27.4	37.0	28.3
28	41.4	27.8	40.0	25.3	37.4	26.2	37.2	26.4
29	43.4	26.2	40.3	25.0	37.6	25.6	37.6	26.8
30	43.2	28.2	40.6	27.2	39.7	26.2	38.6	26.4
31	43.8	28.7	41.0	27.0	39.9	26.5	38.0	27.2
MEANS	43.4	28.1	41.1	24.3	39.2	27.0	38.1	28.3
NORMAL	....	....	42.4	23.7	42.7	25.5	40.3	27.6
HIGHEST	50.4	34.7	49.5	33.0	49.5	32.1	50.5	38.8
DAY	14th	29th	4th	24th	19th	22nd	26th	19th
YEAR	1964	1968	1948	1967	1962	1968	1951	1962
LOWEST	37.5	19.4	35.5	16.5	32.8	20.0	32.2	22.2
DAY	26th	30th	5th	12th	8th	15th	8th	15th
YEAR	1965	1965	1959	1958	1942	1952	1942	1952

TABLE 2. MONTHLY MEAN DRY-BULB TEMPERATURES (°C) TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,,	27.0	32.2	35.3	37.2	36.9	33.4	,,,,	33.7
MOSUL	26.6	24.5	32.1	38.5	41.0	39.5	33.7	29.7	33.2
SALAHADDIN	,,,,	26.6	29.3	32.1	33.6	32.8	28.5	,,,,	30.4
KIRKUK	28.6	27.9	35.1	39.6	41.5	39.9	33.9	31.1	34.7
ANAH	26.6	24.9	29.9	37.2	40.0	39.6	33.3	,,,,	33.1
RUTBAH	23.3	21.5	27.7	33.6	36.5	36.1	30.7	26.5	29.5
HABBANIYA	27.3	26.0	32.8	38.6	40.9	39.7	33.1	30.1	33.6
BAGHDAD	28.4	26.3	33.0	39.5	41.6	40.3	33.3	30.0	34.1
NUKHAIB	,,,,	,,,,	31.6	37.4	39.8	39.0	33.4	,,,,	36.2
HAI	28.3	26.5	35.0	40.8	42.3	39.1	33.0	30.2	34.4
NAJAF	30.2	28.4	34.0	40.5	42.9	41.5	35.6	32.9	35.8
DIWANIYA	26.6	25.9	33.6	39.1	40.9	39.4	31.8	29.0	33.3
NASIRIYA	28.8	27.5	30.9	37.0	38.9	36.8	32.9	30.8	33.0
BASRAH	29.8	28.7	32.2	34.9	37.7	35.9	33.1	31.4	33.0

TABLE 3. MONTHLY MEAN VAPOUR PRESSURE (MBS.)

SINJAR	,,,,	11.0	11.6	11.5	11.1	10.7	11.0	,,,,	11.2
MOSUL	11.5	12.2	13.1	12.9	12.0	11.2	11.9	11.7	12.1
SALAHADDIN	,,,,	11.3	12.6	12.5	12.5	11.9	10.6	,,,,	11.9
KIRKUK	9.3	9.4	9.7	8.8	8.0	7.4	9.6	9.4	9.0
ANAH	11.1	12.1	13.4	13.1	11.8	11.4	10.8	,,,,	12.0
RUTBAH	9.5	9.9	10.0	9.0	7.9	7.8	8.0	8.2	8.8
HABBANIYA	13.4	14.0	15.6	13.0	11.6	12.9	14.4	14.0	13.6
BAGHDAD	11.4	12.0	13.4	11.3	9.5	10.1	11.1	11.2	11.3
NUKHAIB	,,,,	,,,,	7.9	6.9	7.3	7.6	8.1	,,,,	7.6
HAI	13.8	14.0	17.7	17.6	16.9	17.4	15.7	14.7	16.0
NAJAF	10.0	10.4	11.8	9.7	8.7	8.4	10.4	10.4	10.0
DIWANIYA	13.5	14.0	15.5	14.9	12.7	12.1	14.8	14.0	13.9
NASIRIYA	15.2	15.9	17.4	19.1	17.6	19.3	19.9	17.4	17.9
BASRAH	25.4	24.5	26.9	29.4	29.8	29.1	27.0	26.9	27.4

MONTHLY MEAN WET-BULB TEMPERATURES (°C) TABLE 4.

SINJAR	,,,,	16.2	18.5	19.4	19.8	19.6	18.4	,,,,	18.7
MOSUL	16.9	16.4	19.7	21.9	22.2	21.5	19.7	18.1	19.6
SALAHADDIN	,,,,	15.8	18.5	19.8	19.7	19.4	17.2	,,,,	18.6
KIRKUK	15.6	16.3	19.2	20.4	20.7	19.9	18.5	17.5	18.6
ANAH	16.7	16.6	19.1	21.3	21.9	21.5	19.0	,,,,	19.4
RUTBAH	14.5	13.9	16.6	18.4	19.0	18.8	16.8	15.2	16.7
HABBANIYA	18.0	17.7	20.9	22.0	21.8	22.1	20.6	19.4	20.4
BAGHDAD	17.6	17.0	20.2	21.5	21.4	21.3	19.3	18.1	19.6
NUKHAIB	,,,,	,,,,	17.1	18.8	19.8	19.7	17.9	,,,,	18.7
HAI	18.0	17.5	22.0	23.5	23.7	23.0	20.4	19.1	21.2
NAJAF	17.5	17.0	20.1	20.5	21.5	21.0	19.7	18.8	19.5
DIWANIYA	17.9	17.8	21.3	23.0	22.6	21.8	20.3	19.1	20.5
NASIRIYA	19.9	19.3	21.2	23.9	23.9	23.9	22.8	21.1	22.0
BASRAH	24.0	23.3	25.3	27.0	27.8	27.1	25.6	25.1	25.7

TABLE 5 MONTHLY MEAN DEW-POINT (°C)

SINJAR	,,,,	8.2	8.9	8.9	8.4	7.5	8.0	,,,,	8.3
MOSUL	8.9	9.5	10.8	10.5	9.3	8.4	8.8	8.9	9.4
SALAHADDIN	,,,,	8.6	10.2	10.2	10.0	9.3	7.6	,,,,	9.4
KIRKUK	5.6	5.8	6.2	4.7	3.4	2.2	6.0	5.7	5.0
ANAH	8.2	9.6	11.1	10.3	9.0	8.5	7.5	,,,	9.2
RUTBAH	5.9	6.6	6.4	5.0	2.8	2.5	3.3	3.9	4.6
HABBANIYA	11.0	11.5	13.4	11.0	8.8	10.4	12.2	11.9	11.3
BAGHDAD	8.8	9.4	11.0	8.3	5.8	6.8	8.2	8.6	8.4
NUKHAIB	,,,,	,,,,	3.3	1.1	1.7	2.6	3.9	,,,,	2.5
HAI	11.7	12.0	15.5	15.4	14.8	15.2	13.6	12.6	13.9
NAJAF	6.5	7.2	9.1	6.4	4.6	4.2	7.0	7.5	6.6
DIWANIYA	11.3	11.7	13.5	12.9	10.3	9.6	12.6	11.9	11.7
NASIRIYA	13.7	13.6	15.2	16.7	15.1	16.7	17.1	14.9	15.4
BASRAH	21.1	20.5	22.1	23.6	23.7	23.3	22.1	22.1	22.3

MONTHLY MEAN RELATIVE HUMIDITY(%) TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	30	24	21	17	17	21	..	22
MOSUL	34	40	28	20	15	16	23	29	26
SALAHADDIN	..	33	31	28	25	25	27	..	28
KIRKUK	24	25	17	12	10	10	18	21	17
ANAH	32	39	32	20	16	16	21	..	25
RUTBAH	33	37	27	18	13	13	18	24	23
HABBANIYA	38	42	32	20	15	19	29	33	28
BAGHDAD	30	35	27	16	12	13	22	27	23
NUKHAIB	..	..	17	11	10	11	16	..	13
HAI	36	41	32	23	20	25	31	34	30
NAJAF	23	27	21	13	10	11	17	21	18
DIWANIYA	39	42	30	21	17	17	32	35	29
NASIRIYA	41	43	39	31	26	32	40	40	37
BASRAH	61	62	56	53	46	49	54	59	55

TABLE 7. MONTHLY MEAN PRESSURE (MBS.)AT M.S.L.

SINJAR	...7	01.7	01.3	00.2	999.8	999.3	00.6	....	1000.5
MOSUL	01.5	01.9	01.8	00.7	999.1	998.6	999.8	00.6	1000.5
SALAHADDIN	....	00.7	00.0	999.3	998.2	997.9	00.1	....	999.5
KIRKUK	00.9	01.3	0 .7	999.7	998.5	998.7	999.9	00.6	1000.0
ANAH	02.7	05.3	03.9	02.9	01.4	00.5	01.9	....	1002.7
RUTBAH	03.4	04.0	04.2	03.5	02.7	02.5	03.0	03.0	1003.0
HABBANIYA	00.6	01.1	04.8	01.0	999.8	999.3	00.2	00.6	1000.9
BAGHDAD	999.4	999.9	00.7	00.3	999.1	998.4	999.4	999.6	999.6
NUKHAIB	....	....	03.7	02.3	00.9	00.6	01.7	....	1001.8
HAI	997.6	997.9	998.6	998.4	997.5	997.1	997.6	997.9	997.8
NAJAF	999.6	00.3	01.1	00.8	999.1	998.7	999.7	00.1	999.9
DIWANIYA	999.7	00.1	00.8	00.6	999.6	999.1	999.7	999.8	999.9
NASIRIYA	998.2	998.7	999.5	999.4	998.4	997.9	998.7	998.6	998.7
BASRAH	997.4	997.9	998.8	998.8	997.9	997.2	998.0	998.0	998.0

TABLE 8. MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

SINJAR	...	0.1	0.0	0.2	0.4	0.4	0.1	...	0.2
MOSUL	0.0	0.3	0.1	0.2	0.5	0.6	0.3	0.0	0.3
SALAHADDIN	...	0.1	0.2	0.5	0.6	0.6	0.4	...	0.4
KIRKUK	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.1
ANAH	0.0	0.2	0.2	0.0	0.0	0.1	0.0	...	0.1
RUTBAH	0.0	0.2	0.0	0.2	0.2	0.1	0.1	0.0	0.1
HABBANIYA	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1
BAGHDAD	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
NUKHAIB	...	...	0.0	0.0	0.0	0.0	0.0	...	0.0
HAI	0.2	0.5	0.3	0.4	0.3	0.6	0.3	0.4	0.4
NAJAF	0.1	0.5	0.6	0.4	0.5	0.5	0.2	0.2	0.4
DIWANIYA	0.0	0.4	0.4	0.4	0.1	0.5	0.2	0.3	0.3
NASIRIYA	0.0	0.5	0.6	2.4	3.2	1.6	0.3	0.5	1.1
BASRAH	0.1	0.6	0.6	0.4	0.1	0.1	0.1	0.1	0.3

TABLE 9. MONTHLY LOW CLOUD (OKTAS)

SINJAR	...	0.0	0.0	0.1	0.1	0.3	0.0	...	0.1
MOSUL	0.0	0.3	0.0	0.2	0.5	0.5	0.1	0.0	0.2
SALAHADDIN	...	0.1	0.2	0.4	0.6	0.6	0.4	...	0.4
KIRKUK	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.1
ANAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
RUTBAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	...	...	0.0	0.0	0.0	0.0	0.0	...	0.0
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.0	0.3	2.3	3.1	1.5	0.0	0.0	0.9
BASRAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 10a. SURFACE-WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	12	2	4	1	1	3	4	3	1	12	16	2	0	9
	0600	8	0	5	0	1	1	4	5	7	7	15	2	0	11
	0900	3	0	2	3	1	2	8	7	5	12	12	2	0	10
	1200	2	0	0	3	1	2	16	6	1	15	13	2	0	11
	1500	1	1	0	1	0	2	17	6	3	16	10	2	0	10
	1800	4	0	0	0	1	0	17	8	1	20	9	1	0	9
MOSUL	0000	2	0	1	0	0	0	6	6	16	14	1	0	0	3
	0300	1	1	1	0	0	0	5	10	13	17	1	0	0	3
	0600	5	0	5	1	0	0	8	10	2	29	0	0	0	5
	0900	2	3	3	1	1	1	3	13	4	25	2	0	0	5
	1200	2	2	3	2	1	1	7	9	4	26	1	0	0	4
	1500	2	4	4	0	2	1	5	10	3	28	0	0	0	5
	1800	1	0	2	0	0	0	14	3	11	19	1	0	0	4
	2100	1	0	2	0	0	0	7	4	17	13	1	0	0	3
SALAHADDIN	0300	11	3	3	0	5	0	3	0	6	24	1	0	0	4
	0600	10	5	3	0	4	4	2	1	2	24	5	0	0	5
	0900	5	3	3	1	7	6	5	1	0	31	0	0	0	5
	1200	4	2	2	2	8	9	2	0	2	29	0	0	0	6
	1500	5	0	1	1	7	10	4	1	2	26	3	0	0	7
	1800	7	0	0	1	2	6	12	1	2	29	0	0	0	4
KIRKUK	0000	0	4	1	0	0	0	0	0	26	4	1	0	0	1
	0300	0	4	3	0	0	0	0	0	24	7	0	0	0	1
	0600	3	1	6	0	0	1	3	2	15	15	1	0	0	3
	0900	2	1	1	0	0	1	12	4	10	19	2	0	0	5
	1200	3	0	0	1	1	1	10	7	8	22	1	0	0	5
	1500	3	2	0	0	0	1	10	8	7	23	1	0	0	5
	1800	0	3	0	0	0	0	2	0	26	5	0	0	0	1
	2100	0	5	2	0	0	0	1	1	22	9	0	0	0	2
ANAH	0000	0	0	0	0	0	4	16	7	4	8	18	1	0	13
	0300	0	0	0	0	0	1	22	8	0	9	19	3	0	14
	0600	5	0	0	0	0	2	20	4	0	9	16	6	0	16
	0900	3	1	1	0	0	2	18	5	0	5	19	7	0	16
	1200	3	2	0	0	0	1	18	6	1	8	18	4	0	15
	1500	3	1	0	0	0	1	18	7	1	11	17	2	0	12
	1800	1	0	0	0	0	4	13	9	4	19	8	0	0	9

JULY 1969. TABLE 10 b.

SURFACE -WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	>34	MEAN V.K.
RUTBAH	0000	6	0	0	0	0	0	5	19	1	14	16	0	0	11
	0300	3	0	0	0	0	1	8	18	1	17	13	0	0	10
	0600	17	0	0	0	0	0	1	13	0	7	19	5	0	15
	0900	13	0	0	0	0	1	1	16	0	12	18	1	0	13
	1200	12	0	0	1	0	2	6	10	0	10	19	2	0	13
	1500	10	0	0	0	0	0	4	17	0	12	18	1	0	12
	1800	12	1	0	0	0	0	4	13	1	24	6	0	0	8
	2100	6	2	0	0	0	0	4	17	2	19	10	0	0	8
HABBANIYA	0000	0	0	0	0	0	0	10	17	4	17	9	1	0	9
	0300	0	0	0	0	0	0	11	19	1	14	16	0	0	11
	0600	3	0	0	0	0	0	7	21	0	5	25	0	0	15
	0900	1	0	0	0	1	0	12	17	0	4	26	1	0	15
	1200	5	0	0	0	1	0	11	14	0	10	21	0	0	14
	1500	4	0	0	0	1	0	9	17	0	16	15	0	0	10
	1800	1	0	0	0	0	1	13	11	5	22	4	0	0	6
	2100	1	0	0	0	0	0	12	14	4	17	10	0	0	8
BAGHDAD	0000	4	0	0	0	0	0	2	23	2	13	16	0	0	10
	0300	0	0	0	0	0	0	3	25	3	18	10	0	0	9
	0600	1	0	0	0	0	0	3	27	0	8	20	3	0	15
	0900	1	0	0	0	0	0	6	23	1	4	23	3	0	16
	1200	3	0	0	0	0	1	8	19	0	3	24	4	0	16
	1500	2	0	0	0	0	1	12	16	0	10	19	2	0	13
	1800	0	0	0	0	0	0	11	17	3	17	11	0	0	9
	2100	0	0	0	0	0	0	6	21	4	13	14	0	0	9
NUKHAIB	0600	9	0	0	0	0	0	6	16	0	7	21	3	0	15
	0900	9	0	0	0	0	0	8	12	2	5	22	2	0	13
	1200	2	0	0	1	0	0	12	14	2	10	18	1	0	12
	1500	2	0	0	0	0	2	9	17	1	14	16	0	0	11
	1800	1	1	0	1	0	0	9	16	3	24	4	0	0	7
HAI	0000	1	0	0	0	1	0	4	24	1	6	18	6	0	16
	0300	1	0	0	0	0	0	1	29	0	12	14	5	0	13
	0600	2	0	0	0	0	0	2	27	0	10	15	6	0	14
	0900	5	0	0	0	1	0	1	24	0	6	18	7	0	17
	1200	2	0	0	0	1	0	1	27	0	5	15	11	0	19
	1500	1	0	0	1	0	0	1	28	0	7	19	5	0	15
	1800	0	0	0	0	1	0	2	28	0	14	15	2	0	11
	2100	1	0	1	0	1	0	3	25	0	12	17	2	0	13

JULY 1969. TABLE 10 c. (8)

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	0000	6	0	0	0	0	0	3	20	2	23	6	0	0	7
	0300	7	0	0	0	0	0	3	19	2	28	1	0	0	6
	0600	8	1	0	0	0	0	1	21	0	24	7	0	0	8
	0900	8	0	1	0	0	1	1	20	0	24	7	0	0	9
	1200	7	0	0	1	0	1	0	22	0	22	9	0	0	10
	1500	6	0	1	0	0	1	2	21	0	26	5	0	0	8
	1800	5	0	1	0	0	0	2	21	2	29	0	0	0	5
	2100	6	1	0	0	0	0	2	22	0	29	2	0	0	6
DIWANIYA	0000	5	0	0	0	0	0	12	0	6	18	7	0	0	7
	0300	5	1	0	0	0	0	10	11	4	21	6	0	0	7
	0600	7	0	0	0	0	1	6	16	1	0	22	0	0	12
	0900	7	0	0	0	0	0	10	13	1	6	23	1	0	13
	1200	8	0	0	0	0	0	11	11	1	4	19	7	0	15
	1500	5	0	0	0	0	0	14	11	1	17	12	1	0	11
	1800	2	0	0	0	0	0	13	9	7	24	0	0	0	4
	2100	6	0	0	0	0	0	7	7	11	17	3	0	0	5
NASIRIYA	0000	1	0	0	0	0	0	11	16	3	8	20	0	0	12
	0300	1	0	0	0	0	1	10	15	4	13	14	0	0	10
	0600	3	0	0	0	0	0	6	22	0	12	19	0	0	12
	0900	0	0	0	0	0	0	13	18	0	15	16	0	0	11
	1200	1	0	0	0	0	0	7	23	0	8	23	0	0	12
	1500	0	0	0	0	0	0	11	19	1	15	15	0	0	10
	1800	2	0	0	0	0	0	18	9	2	18	11	0	0	9
	2100	0	1	0	0	0	0	13	15	2	15	14	0	0	9
BASRAH	0000	3	0	0	0	0	0	5	23	0	20	11	0	0	9
	0300	1	0	0	0	1	0	9	20	0	23	8	0	0	8
	0600	1	0	0	0	0	0	5	25	0	15	16	0	0	10
	0900	4	0	0	0	0	0	0	27	0	16	13	0	0	10
	1200	7	0	0	0	0	0	1	23	0	15	15	1	0	11
	1500	5	0	0	0	0	0	1	25	0	18	13	0	0	9
	1800	3	1	0	0	0	0	2	25	0	15	16	0	0	11
	2100	3	0	0	0	0	0	5	23	0	21	10	0	0	10

TABLE 11.

HIGHEST WIND-SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND - SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	27 knots	360	0300	25th
MOSUL	15	170	0900	20th
SALAHADDIN	15	090	1500	20th
KIRKUK	15	270	1500	25th
ANAH	30	240	0000	30th
RUTBAH	24	340	0600	10th
HABBANIYA	26	300	0900	25th
BAGHDAD	25	300	0600	25th
NUKHAIB	25	340	0600	14th
HAI	30	300	0600	26th
NAJAF	20	320	1500	26th
DIWANIYA	26	350	1200	15th
NASIRIYA	19	310	1200	29th
BASRAH	23	320	1200	28th

JULY 1969. TABLE 12 a.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	.	0.1	.	.	.	.	.

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	tr.	10th	1968
MOSUL	2.3 mms.	8th	1943
SALAHADDIN			
KIRKUK	0.3	11th	1947
ANAH			
RUTBAH	tr.	9th	1950
HABBANIYA	tr.	3rd	1954

JULY 1969. TABLE 12b.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL					0.2		0.1

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	tr.	9th	1950
DIWANIYA	3.7mms.	30th	1945
NASIRIYA	tr.	30th	1954
BASRAH	3.2	30th	1945

JULY 1969. TABLE 13.

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. AT 0600 GMT.

DAYS	MOSUL	KIRKUK	RUTBAH	ANAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	MASI-RIYA	BAS-RAH
1	11	13	15	14	18	20	13	11	11	10
2	12	14	17	13	18	21	10	12	11	9
3	15	13	16	14	19	22	10	12	11	13
4	16	13	15	15	19	21	10	13	11	12
5	13	13	15	14	20	20	8	10	10	10
6	12	14	15	15	19	23	12	10	11	7
7	13	14	16	15	18	22	12	11	12	6
8	17	14	17	12	17	21	10	10	10	10
9	16	13	20	14	12	20	11	8	6	6
10	16	11	18	16	18	22	10	11	10	9
11	13	13	20	14	18	23	10	10	10	6
12	16	13	25	17	15	24	12	15	10	6
13	15	14	23	16	20	24	9	11	10	10
14	16	14	23	15	18	21	12	14	11	5
15	16	14	18	14	18	21	10	12	12	10
16	17	14	18	14	22	22	12	15	11	7
17	14	14	20	15	19	23	10	12	12	7
18	16	12	20	18	20	23	13	13	10	9
19	19	12	18	17	13	22	10	8	9	5
20	12	12	18	18	14	22	9	9	7	9
21	11	12	19	16	18	23	7	9	7	5
22	12	13	15	18	19	23	10	12	15	8
23	12	13	15	18	20	23	10	12	12	9
24	14	12	18	15	17	22	13	12	9	7
25	17	14	23	18	21	22	11	15	10	7
26	17	13	25	14	21	21	13	14	9	8
27	12	12	22	15	16	23	15	12	10	8
28	15	12	18	12	19	21	12	12	8	8
29	15	13	18	14	15	22	12	11	10	7
30	12	12	22	13	14	22	11	10	11	11
31	13	12	22	16	15	23	10	10	9	5
TOTAL	445	402	584	469	550	682	337	356	315	248
MEAN	14.4	13.0	18.8	15.1	18.0	22.0	10.9	11.5	10.2	8.0

JULY 1969. TABLE 14.

DAILY GRASS MINIMUM TEMPERATURE °C AND SOIL TEMPERATURE °C OF 0.3M & 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	14.5	19.3	28.3	26.8	22.8	34.5	30.5	22.0	34.6	29.5	36.6	33.6	27.5	36.0	30.8	19.9
2	14.0	17.2	28.5	27.1	22.6	34.8	30.7	24.5	34.5	29.5	36.4	33.4	26.5	35.8	31.0	19.3
3	18.0	16.1	28.8	27.0	23.4	34.6	30.6	22.3	34.5	29.5	36.5	33.8	27.2	35.3	31.1	18.9
4	14.2	16.5	29.2	27.2	22.2	34.6	30.6	21.5	34.5	29.6	36.4	33.8	26.4	35.0	31.1	19.4
5	17.5	16.8	29.4	27.1	22.2	34.7	30.7	21.0	34.5	29.7	36.5	33.8	26.3	34.7	31.1	20.0
6	15.5	21.1	29.9	27.2	22.2	34.4	30.8	18.4	34.2	29.6	36.0	33.8	25.0	34.6	31.0	17.6
7	16.8	25.0	30.6	27.4	23.2	34.4	30.8	19.7	34.0	29.3	36.3	33.9	25.2	34.5	31.0	19.4
8	17.0	22.5	31.1	27.3	23.4	34.3	30.6	16.3	34.3	29.2	36.4	33.8	25.3	34.9	31.1	18.3
9	18.2	25.5	29.3	27.6	21.1	34.6	30.8	23.6	34.7	29.8	35.6	33.0	23.4	35.2	31.0	17.4
10	17.5	19.0	29.3	27.8	23.5	34.6	31.0	1[illegible].3	35.4	29.8	33.8	37.0	26.0	36.3	31.1	16.4
11	21.0	17.8	29.6	27.7	25.5	34.8	31.0	22.5	35.2	30.0	37.4	34.0	27.1	36.0	31.6	19.8
12	18.1	25.6	30.1	27.8	24.2	35.0	31.0	23.0	35.0	30.0	32.4	34.0	26.6	36.5	31.4	21.2
13	17.2	25.2	29.0	27.8	24.1	35.0	31.0	19.9	35.2	30.0	37.5	34.0	27.4	35.7	31.1	19.3
14	21.6	1[illegible].5	29.4	27.8	26.8	35.3	31.0	25.0	35.0	30.2	37.8	34.2	27.6	36.3	31.2	20.6
15	21.2	19.5	29.7	28.0	25.0	35.3	31.0	24.3	35.4	30.2	37.5	34.3	27.8	36.8	31.2	21.0
16	21.4	18.6	30.1	28.1	23.4	35.1	31.2	24.4	34.8	30.1	37.2	34.5	24.7	35.8	31.4	20.3
17	15.6	20.5	30.5	28.2	21.6	35.0	31.3	23.5	35.0	30.4	36.8	34.3	25.5	35.0	31.4	20.7
18	17.0	17.5	29.1	28.2	25.6	34.9	31.3	21.9	34.7	30.5	36.8	35.4	24.4	34.9	31.3	19.2
19	20.0	19.5	30.0	28.3	23.5	35.0	31.3	23.5	34.8	30.5	37.0	34.2	25.7	35.0	30.9	19.6
20	16.5	18.0	30.5	28.3	21.7	34.8	31.3	15.5	34.3	30.4	36.8	34.4	22.7	35.0	31.4	18.1
21	1[illegible].2	21.5	31.1	28.3	22.2	34.7	31.4	18.5	34.9	30.5	37.2	34.3	26.9	35.0	31.8	19.5
22	23.0	19.6	30.0	28.4	25.5	35.0	31.4	25.0	35.1	30.5	37.5	35.4	26.8	36.6	31.5	17.6
23	17.0	18.2	29.7	28.5	24.4	35.0	31.5	22.4	35.0	30.5	37.4	34.5	27.5	36.2	31.6	21.7
24	21.8	21.2	30.1	28.6	24.5	34.8	31.4	24.3	34.7	30.6	36.9	34.6	25.5	35.2	31.5	20.1
25	24.0	23.2	31.1	28.8	25.5	34.8	31.4	24.5	34.8	30.7	36.7	34.4	25.7	35.3	31.5	19.8
26	22.8	21.5	31.5	29.4	24.4	34.8	31.5	25.9	34.5	30.6	31.7	34.4	26.9	35.0	31.5	23.9
27	21.0	20.7	31.4	28.9	22.8	34.6	31.5	25.6	34.5	30.7	36.5	34.4	25.7	34.3	31.5	18.7
28	20.8	17.5	31.4	28.9	22.8	34.5	31.5	23.0	34.2	30.5	36.3	34.4	25.4	34.0	31.5	17.2
29	17.6	17.8	31.6	28.9	23.2	34.4	31.6	20.8	34.3	30.7	36.1	34.4	24.8	33.9	31.7	16.9
30	16.8	21.2	32.1	29.2	26.1	34.6	31.5	23.5	34.5	30.7	34.4	36.4	25.2	33.8	31.5	17.5
31	21.8	21.5	31.1	29.3	25.0	34.6	31.5	20.8	34.0	30.7	36.7	34.3	25.3	34.0	31.7	18.0
MEANS	18.6	20.1	30.1	28.1	23.7	34.8	31.1	22.1	34.7	30.1	36.3	34.4	25.9	35.3	31.6	19.3

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	0	0	0	0	0	31	0	-	-	-
MOSUL	0	0	0	0	0	0	0	0	0	0	0	30	0	416.8	14.0	16th 0
SALAHADDIN	0	0	0	0	0	0	0	0	0	0	0	29	0	-	-	-
KIRKUK	0	0	0	0	0	0	5	1	3	0	0	31	0	-	-	-
ANAH	0	0	0	0	0	0	0	14	2	0	0	30	0	-	-	-
RUTBAH	0	0	0	0	0	0	0	2	0	0	0	30	0	-	-	-
HABBANIYA	0	0	0	0	0	0	1	10	0	0	0	31	0	418.9	14.0	9th 0
BAGHDAD	0	0	0	0	0	0	11	11	3	0	0	29	0	406.4	13.8	3rd 0
NUKHAIB	0	0	0	0	0	0	0	6	0	2	0	31	0	-	-	-
HAI	0	0	0	0	0	0	0	2	2	0	0	31	0	-	-	-
NAJAF	0	0	0	0	0	0	0	11	3	0	0	28	0	-	-	-
DIWANIYA	0	0	0	0	0	0	0	14	10	0	0	26	0	-	-	-
NASIRIYA	0	0	0	0	0	0	1	6	17	4	0	23	0	-	-	-
BASRAH	0	0	0	0	0	0	0	7	17	2	0	29	0	345.1	13.0	9th 0

TABLE-15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELATIVE HUMIDITY

STATION	PRESSURE AT MSL for 1969 - mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1969. HIGH EST	TIME GMT.	DAY	LOW EST	TIME GMT.	DAY
SINJAR	1007.2	0600	15th	993.5	1500	19th	1007.2	0600	15th	1969	991.3	1500	8th	1964	43	0300	27th	13	1200	14th
MOSUL	1007.1	0600	15th	993.0	1500	18th	1015.0	0600	23rd	1941	990.2	1300	22nd	1939	54	0300	6th	8	1200	17th
SALAHADDIN	1005.6	0600	15th	993.1	1500	19th	1005.6	0600	15th	1969	992.1	1200	26th	1967	48	0300	20th	16	1200	23rd
KIRKUK	1006.5	0300	15th	992.7	1200	18th	1009.2	2100	4th	1957	990.3	1800	26th	1950	40	0300	27th	5	1500	17th
ANAH	1009.3	0600	15th	995.5	1500	31st	1009.3	0600	15th	1969	990.9	1500	10th	1968	60	0300	27th	9	1500	7th
RUTBAH	1008.1	0600	2nd	998.8	1500	30th	1010.8	0600	2nd	1944	991.0	1500	10th	1968	56	2100	31st	5	1500	6th
HABBANIYA	1006.0	0600	15th	994.2	1500	15th	1006.0	0600	15th	1969	992.0	1500	10th	1968	69	0300	14th	9	1500	6th
BAGHDAD	1005.1	0600	15th	992.8	1500	18th	1008.5	2100	4th	1957	990.0	0600	19th	1944	56	0300	8th	6	1200	6th
NUKHAIB	1007.3	0600	2nd	997.1	1200	23rd	1007.6	0600	15th	1965	993.7	1500	21st	1964	31	0600	27th	5	1200	11th
HAI	1007.7	0900	2nd	993.0	1200	18th	1006.8	0900	4th	1957	990.0	1500	25th	1967	52	0300	21st	13	1200	21st
NAJAF	1004.7	0900	2nd	994.0	1500	18th	1004.7	0900	2nd	1969	991.6	1500	26th	1967	44	0300	27th	6	1500	9th
DIWANIYA	1004.5	0900	2nd	994.5	1500	18th	1008.1	2100	4th	1957	991.1	1500	26th	1954	67	0600	11th	10	1200	19th
NASIRIYA	1002.9	0900	2nd	993.9	1500	18th	1006.7	0600	4th	1957	996.3	1500	26th	1967	71	0000	10th	9	1200	21st
BASRAH	1001.3	0900	3rd	994.3	1500	18th	1006.0	0900	4th	1957	990.7	1500	3rd	1959	89	0300	20th	30	1500	8th

JULY 1969. TABLE 16.

UPPER AIR CLIMATOLOGICAL DATA

BAGHDAD RADIOSONDE STATION TIME 0000 GMT.

PRESSURE SURFACE Mb.	HEIGHT OF PRESSURE (G.P.M.)				TEMPERATURE °C				DEW-POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND DIRECTION	AVERAGE VECTOR WIND SPEED KNOTS	MAX.SPEED DIRECTION	MAX.SPEED SPEED KNOTS	MIN. SPEED DIRECTION	MIN. SPEED SPEED KNOTS
1000	31	015	047	-022	6	28.7	32.1	24.5	6	10.4	-	-	-	-	-	-	-
850	31	1462	1505	1413	31	26.6	29.0	20.9	31	2.0	30	330	12	350	33	300	04
700	31	3140	3192	3093	31	15.5	21.0	9.5	31	-3.6	30	300	09	300	27	310	05
500	31	5896	5984	5810	31	-2.8	3.0	-8.6	31	-25.7	30	260	13	260	33	200	05
300	31	9768	9856	9655	31	-27.0	-22.0	-31.9	31	-48.2	29	250	26	260	68	120	06
200	31	12580	12700	12440	31	-46.4	-42.0	-50.0	31	-64.1	28	250	29	220	72	250	05
150	31	14430	14550	14320	31	-59.4	-55.7	-62.9	2	-69.9	28	250	28	250	79	250	05
100	30	16930	17020	16710	30	-73.4	-63.4	-79.0	-	-	22	240	27	240	75	240	07
70	27	18960	19120	18770	27	-70.5	-63.0	-73.5	-	-	13	250	28	260	92	060	07

NOTE: N = Total number of Observations.

JULY 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR

STATION: BAGHDAD RADIOSONDE. TIME 0000 GMT.

TIME OF OBS. GMT.	N	FREEZING LEVEL									FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
		AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST						
		HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C	HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C	HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C		HEIGHT GPM.	PRESSURE mb.	TEMPERATURE °C	HEIGHT GPM.	PRESSURE mb.	TEMPERATURE °C	HEIGHT GPM.	PRESSURE mb.	TEMPERATURE °C	HEIGHT GPM.	PRESSURE mb.	DIRECTION 000-360	SPEED KNOTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
0000	31	5459	529	-23.1	6300	665	-7.6	4300	427	-34.7	29	17276	95	-75.5	16520	130	-66.0	15320	70	-80.0	17710	80	260	95

NOTE: N = Total number of observation

الجمهوريـــــة العراقيـــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــة

مفتشية الانواء الجوية العامـــة

مديرية احصائيات المناخ

بغداد

تقرير المنـــاخ الشهـــــري

المجلد : ٣٢

العدد : ٨

الشهر : آب

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 8

MONTH : AUGUST

YEAR : 1969

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation 12a-b	12a-b	9-10
Daily evaporation	13	11
Daily grass minimum and soil temperatures	14	12
Number of days for the cases of phenomena and duration of sunshine	15a	13
Highest, lowest & records of pressure at M.S.L. and relative humidity	15b	13
Upper air climatological data at BAGHDAD	16	14
Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air at BAGHDAD	17	15

AUGUST 1969. TABLE 1 a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	38.7	24.7	43.5	28.4	36.4	25.3	42.6	31.1	40.6	25.6
2	37.4	22.1	41.3	23.0	34.6	24.0	40.6	26.6	40.0	26.0
3	39.2	21.7	40.8	25.5	33.6	22.3	40.6	25.7	44.3	25.6
4	38.2	21.4	38.7	26.0	32.2	22.4	32.5	25.3	37.1	23.8
5	39.1	23.2	41.0	20.7	35.3	22.4	42.3	26.0	40.3	24.0
6	39.6	24.1	42.3	24.5	35.3	24.2	42.9	23.9	41.5	25.2
7	40.1	23.2	41.7	25.0	35.1	24.6	42.1	25.5	41.6	23.4
8	38.3	22.9	41.3	22.8	34.2	23.4	41.3	25.0	39.2	24.3
9	38.6	25.0	43.7	23.3	36.2	24.0	45.1	26.1	42.0	24.5
10	41.5	25.1	45.0	27.2	38.0	25.0	47.5	32.0	43.8	24.7
11	42.1	26.1	47.0	28.1	39.4	28.0	47.5	34.5	42.1	25.0
12	41.3	25.3	45.2	31.2	39.3	28.0	47.6	30.3	41.5	24.1
13	36.7	25.5	43.6	28.3	37.4	26.1	44.0	29.9	41.2	23.6
14	34.6	23.0	40.0	21.4	33.4	24.4	40.7	26.2	38.9	22.6
15	36.2	24.0	41.3	23.2	34.2	23.0	41.1	25.9	41.0	22.1
16	38.6	23.8	42.5	22.0	35.3	24.0	42.7	26.6	42.4	21.1
17	37.6	23.3	42.5	23.6	35.3	25.0	42.2	27.6	42.8	21.8
18	39.3	23.8	43.5	24.8	37.4	25.4	43.4	26.6	42.2	21.1
19	41.3	25.8	45.8	26.1	38.4	26.0	47.2	27.6	44.3	23.2
20	42.6	25.1	46.8	28.5	40.0	27.0	48.2	29.1	44.7	26.4
21	39.5	25.3	44.0	29.2	38.4	27.0	45.3	27.9	41.0	24.9
22	36.1	23.2	41.1	26.5	34.4	22.4	41.2	26.4	39.2	24.0
23	37.6	22.9	40.2	21.4	35.0	23.2	43.2	28.8	40.9	19.0
24	38.6	24.1	42.5	22.1	35.6	25.0	43.1	28.8	43.4	20.3
25	39.6	24.3	43.0	21.4	36.4	26.2	43.3	28.3	44.3	20.8
26	40.1	25.0	44.2	21.8	36.8	26.4	43.6	28.1	45.2	22.0
27	39.4	22.4	43.5	23.4	36.0	24.0	44.3	29.2	44.8	23.0
28	36.8	21.1	40.7	25.1	33.9	24.1	41.0	30.1	41.0	21.9
29	38.0	21.6	41.4	23.0	34.4	23.3	41.0	30.6	43.2	24.4
30	38.7	22.7	42.2	23.5	34.7	24.0	40.9	29.9	44.0	23.9
31	37.9	22.8	42.2	22.2	34.0	21.7	41.0	27.9	43.4	22.0
MEANS	38.8	23.7	42.7	24.6	35.8	24.6	43.1	28.0	42.0	23.4
NORMAL	....	....	43.4	21.1	....	....	42.3	26.2	....	....
HIGHEST	45.2	34.0	49.8	32.2	40.0	28.0	48.2	35.5	45.2	26.4
DAY	17th	22nd	6th	25th	20th	12th	20th	14th	26th	20th
YEAR	1965	1965	1957	1958	1969	1969	1969	1951	1969	1969
LOWEST	31.6	20.3	33.3	12.8	29.7	19.0	34.0	19.4	36.5	16.2
DAY	31st	31st	10th	26th	3rd	3rd	25th	26th	3rd	31st
YEAR	1965	1968	1928	1952	1968	1968	1960	1941	1958	1958

AUGUST 1969. TABLE 1 b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	37.2	20.5	41.6	26.0	42.3	25.4	41.2	23.5	43.6	25.0
2	36.5	21.4	41.3	25.0	41.8	23.6	41.0	24.0	43.0	26.4
3	36.4	22.2	41.3	25.5	41.4	24.2	40.5	22.6	42.0	25.0
4	34.6	19.9	38.3	24.0	39.9	23.0	38.3	23.6	41.7	25.1
5	36.5	21.5	40.5	25.6	40.7	23.0	40.0	23.1	41.0	24.5
6	37.0	21.4	41.0	25.5	41.2	25.0	40.2	23.5	41.4	25.0
7	37.1	21.2	41.4	24.5	42.4	26.0	40.7	24.1	42.7	26.2
8	34.6	20.3	40.0	24.0	39.2	25.4	39.1	21.1	40.0	28.6
9	36.0	19.4	42.0	24.5	42.1	20.6	39.8	22.8	42.0	24.4
10	38.4	20.3	44.0	25.5	44.9	21.6	41.6	23.1	43.7	23.8
11	38.3	20.5	44.0	27.7	45.1	26.6	42.2	25.6	46.2	27.4
12	39.6	20.2	43.0	25.0	44.6	26.0	42.6	24.1	45.0	27.0
13	39.0	21.2	42.0	25.0	44.2	27.6	42.4	23.6	45.0	29.4
14	37.2	21.5	40.5	24.0	41.8	23.0	41.3	22.5	44.0	26.0
15	38.0	20.0	41.0	23.5	41.5	23.0	41.3	22.3	43.0	26.0
16	39.6	19.4	42.7	23.6	43.2	23.1	42.0	22.6	43.7	25.3
17	39.0	20.6	43.5	24.5	43.5	27.5	43.0	22.2	44.5	27.7
18	40.0	19.6	42.0	24.5	43.6	25.6	42.6	24.1	43.7	24.8
19	41.6	20.5	44.5	24.5	44.6	25.5	43.6	23.3	44.8	27.0
20	40.9	21.8	45.0	27.3	46.0	28.7	44.0	24.2	45.6	24.4
21	39.5	21.6	44.0	25.5	45.1	26.5	43.0	23.8	45.6	23.4
22	38.5	20.5	43.4	23.5	41.8	26.5	40.5	22.6	44.8	26.8
23	40.0	17.8	41.0	22.0	41.5	20.6	42.5	22.3	43.4	25.4
24	43.5	18.8	42.5	24.5	43.0	19.8	42.1	22.4	42.7	23.6
25	42.6	22.0	44.0	24.0	44.2	22.0	45.0	26.0	44.4	25.6
26	43.0	21.2	44.0	24.3	43.8	23.5	43.8	23.8	44.6	23.7
27	39.2	21.4	44.6	23.5	43.7	23.0	44.5	24.0	44.4	25.0
28	40.6	24.3	41.3	27.0	41.3	29.5	41.2	24.0	42.2	26.9
29	40.6	22.5	41.5	24.0	40.7	22.0	41.0	25.0	42.0	25.2
30	39.2	21.4	42.0	22.5	41.6	21.6	40.8	23.2	43.2	25.8
31	40.6	21.3	41.0	25.5	41.5	27.0	41.1	22.5	43.8	23.2
MEANS	37.9	20.8	43.2	23.2	42.6	24.4	41.7	23.5	43.5	25.6
NORMALS	38.9	21.1	43.7	24.8	43.5	24.7	....	....	43.9	25.9
HIGHEST	45.6	32.8	50.0	32.8	50.2	32.8	47.6	31.2	48.9	32.8
DAY	10th	19th	1 & 8	5th	5th	1st	16th	22nd	26th	6th
YEAR	1930	1965	1938	1952	1957	1957	1965	1965	1943	1952
LOWEST	32.2	15.0	35.6	19.4	35.5	17.8	37.3	19.8	36.4	18.9
DAY	10th	25th	25th	29th	27th	27th	17th	4th	25th	30th
YEAR	1928	1949	1960	1941	1941	1937	1968	1968	1960	1941

AUGUST 1969. TABLE 1 c.

DAILY MAXIMUM AND MINIMUM TEMPERATURE (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	43.4	28.4	41.0	23.5	42.3	26.0	39.2	27.1
2	44.4	27.8	41.6	24.3	42.0	26.4	39.2	28.5
3	42.5	28.0	40.7	25.5	40.2	26.9	39.7	27.2
4	43.2	27.2	40.0	25.6	39.7	26.0	38.5	28.8
5	42.4	25.8	39.8	24.0	38.4	25.0	37.7	27.4
6	42.4	27.6	41.6	26.0	38.5	26.0	38.2	26.3
7	43.4	27.8	40.6	26.5	38.3	26.4	38.7	25.8
8	40.4	27.8	38.5	24.8	37.3	25.2	36.9	29.2
9	42.5	27.0	40.7	22.3	39.8	25.0	37.2	25.3
10	44.4	27.8	41.7	22.4	40.5	25.2	38.8	25.6
11	44.2	28.2	42.8	25.3	44.0	25.3	40.6	27.3
12	44.0	28.4	42.2	27.4	43.2	28.5	42.2	29.2
13	44.4	28.8	43.7	25.8	40.2	28.4	40.0	28.0
14	44.0	28.7	43.0	25.6	42.6	27.2	40.5	28.2
15	43.3	27.8	42.3	22.4	41.9	26.9	40.0	27.1
16	44.5	26.8	43.3	24.4	43.6	26.2	39.7	26.4
17	44.8	29.4	45.2	23.8	44.5	28.1	41.3	27.5
18	45.0	28.6	44.6	26.2	42.2	27.9	40.2	29.3
19	45.3	27.2	44.0	23.8	41.6	25.4	39.0	28.6
20	47.5	31.8	45.6	27.5	44.0	26.7	40.5	26.6
21	45.2	30.4	44.5	26.5	44.7	25.9	43.8	27.2
22	43.6	29.4	42.6	25.0	43.7	26.8	40.9	28.5
23	44.6	25.6	42.5	23.0	42.6	25.7	39.6	27.4
24	45.4	27.0	44.1	21.2	43.4	24.2	40.7	25.5
25	44.4	28.1	44.5	21.5	44.0	27.2	41.2	25.7
26	45.4	28.0	44.5	22.5	43.0	26.5	39.6	29.0
27	46.2	27.6	44.5	22.0	42.6	26.7	42.2	27.9
28	42.9	29.6	41.0	27.6	40.5	28.4	39.1	27.2
29	43.4	28.6	41.5	26.0	40.0	27.8	40.7	28.3
30	43.4	28.0	43.0	25.0	41.7	28.5	39.0	28.0
31	42.8	26.2	43.0	22.0	42.0	25.8	39.1	25.7
MEANS	44.0	28.0	42.5	24.5	41.7	26.5	39.8	27.4
NORMAL	....	....	42.7	22.9	44.1	24.7	41.2	26.1
HIGHEST	51.2	33.0	48.3	30.0	49.4	31.3	48.9	32.2
DAY	20th	22nd	26th	4th	15th	15th	9th	7th
YEAR	1965	1965	1943	1953	1951	1965	1938	1954
LOWEST	34.5	22.2	35.5	16.1	36.6	16.1	34.6	20.0
DAY	14th	6th	27th	29th	25th	24th	26th	29th
YEAR	1964	1964	1941	1941	1960	1946	1959	1941

DRY BULB TEMPERATURES °C MONTHLY MEANS TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	29.0	33.3	36.4	38.1	37.6	33.6	....	34.7
MOSUL	27.3	25.3	32.0	39.9	42.0	40.1	33.5	30.0	33.8
SALAHADDIN	....	27.7	30.8	33.9	35.4	34.1	29.4	....	31.9
KIRKUK	30.0	28.5	35.3	40.8	42.6	40.5	34.2	31.8	35.5
ANAH	26.1	23.9	29.6	37.8	41.4	40.8	33.9	....	33.4
RUTBAH	23.2	21.4	29.0	35.6	38.4	37.1	30.4	25.8	30.1
HABBANIYA	27.0	25.5	32.6	39.4	41.8	39.1	32.3	29.7	33.4
BAGHDAD	27.9	26.1	32.9	40.0	42.2	40.4	32.9	30.2	34.1
NUKHAIB	....	....	32.2	38.8	41.1	40.1	37.0	....	37.8
HAI	28.0	26.1	34.6	41.0	42.9	38.3	32.4	29.9	34.2
NAJAF	30.1	28.4	35.3	41.0	43.4	41.7	35.8	32.8	36.1
DIWANIYA	26.9	25.1	33.7	41.0	42.1	39.1	32.3	28.3	33.6
NASIRIYA	28.5	26.9	32.4	39.2	41.4	38.6	33.6	31.0	34.0
BASRAH	29.1	27.7	32.7	37.0	39.2	36.6	32.9	31.0	33.3

TABLE 3. VAPOUR PRESSURE (MBS.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	12.2	13.3	13.3	13.2	12.5	12.2	....	12.8
MOSUL	11.9	12.3	13.1	12.7	10.8	11.8	12.0	11.8	12.1
SALAHADDIN	....	10.4	11.6	12.2	10.8	11.1	10.7	....	11.1
KIRKUK	9.9	10.0	10.7	8.9	8.0	7.7	9.6	9.6	9.3
ANAH	11.5	13.2	14.5	13.9	13.0	12.3	12.4	....	13.0
RUTBAH	9.9	10.4	10.8	9.5	8.7	8.1	8.6	8.4	9.3
HABBANIYA	15.2	15.5	18.5	17.1	16.9	18.2	17.7	17.0	17.0
BAGHDAD	12.5	12.5	14.2	13.0	10.9	11.3	13.4	13.2	12.6
NUKHAIB	....	....	11.1	9.5	10.0	9.4	8.4	....	9.7
HAI	15.7	15.7	18.9	18.8	18.6	20.3	18.2	16.8	17.9
NAJAF	11.8	11.5	12.8	12.2	10.7	10.9	13.1	12.8	12.0
DIWANIYA	14.6	14.6	17.1	16.5	15.1	16.0	15.9	15.2	15.6
NASIRIYA	16.5	15.5	17.7	17.6	16.3	20.4	21.5	19.4	18.1
BASRAH	26.7	26.1	27.6	29.1	29.5	31.0	29.8	29.3	28.7

TABLE 4. WET-BULB TEMPERATURES (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	17.4	19.4	20.4	20.9	20.5	19.0	....	19.6
MOSUL	17.4	16.8	19.7	22.2	22.1	21.9	19.7	18.4	19.8
SALAHADDIN	....	16.1	18.5	19.9	20.3	19.5	17.9	....	18.7
KIRKUK	17.4	16.8	19.7	20.9	21.1	20.2	18.9	17.9	19.1
ANAH	16.7	16.5	19.3	22.0	22.8	22.3	19.9	....	19.9
RUTBAH	14.7	14.3	17.5	19.3	20.0	19.2	16.9	15.5	17.2
HABBANIYA	18.8	18.4	22.2	23.8	24.4	24.2	21.8	20.5	21.8
BAGHDAD	17.9	17.2	20.5	22.4	22.2	21.8	20.2	19.1	20.2
NUKHAIB	....	....	18.9	20.5	21.5	20.9	19.3	....	20.2
HAI	18.3	18.3	22.4	24.2	24.6	24.1	21.4	20.6	21.7
NAJAF	18.4	17.5	20.7	22.4	22.5	22.0	21.0	19.8	20.5
DIWANIYA	18.4	17.8	22.0	23.8	23.9	23.3	21.9	19.6	21.3
NASIRIYA	19.9	18.8	21.8	24.0	24.1	24.8	23.0	22.0	22.3
BASRAH	24.3	23.6	25.7	27.4	28.2	28.0	26.5	25.8	26.2

TABLE 5. DEW-POINT (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.9	11.2	11.1	11.0	10.5	9.8	....	10.6
MOSUL	9.3	9.9	10.7	10.2	8.0	9.1	9.2	9.1	9.4
SALAHADDIN	....	7.3	8.9	9.8	9.1	8.1	7.7	....	8.5
KIRKUK	6.6	6.7	7.5	4.9	3.5	2.6	6.0	6.0	5.5
ANAH	8.9	10.6	12.0	11.6	10.5	9.7	9.9	....	10.5
RUTBAH	5.7	7.3	7.9	5.9	4.5	3.4	4.1	4.5	5.4
HABBANIYA	13.0	13.3	16.3	14.8	14.1	15.8	15.4	14.8	14.7
BAGHDAD	10.2	10.1	11.9	10.6	7.9	8.5	11.1	10.8	10.1
NUKHAIB	....	....	8.5	6.0	6.7	5.6	4.3	....	6.2
HAI	13.7	13.7	16.2	15.2	16.2	17.6	15.8	14.7	15.5
NAJAF	9.1	8.5	10.3	9.7	7.6	7.9	10.6	10.3	9.3
DIWANIYA	12.4	12.5	14.9	14.2	12.9	13.6	13.8	13.1	13.4
NASIRIYA	14.1	13.0	15.2	15.3	13.9	17.5	18.4	16.8	15.5
BASRAH	22.0	21.6	22.5	23.4	23.7	24.5	23.8	23.5	23.1

TIME G.M.T. MONTHLY MEANS RELATIVE HUMIDITY(%)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	31	26	22	20	20	23	,,	24
MOSUL	34	39	28	17	13	16	24	29	25
SALAHADDIN	,,	28	26	23	21	21	26	,,	24
KIRKUK	24	26	19	12	10	10	18	21	18
ANAH	34	44	34	22	17	16	24	,,	27
RUTBAH	31	42	28	17	13	13	20	26	24
HABBANIYA	45	48	38	24	21	26	37	41	35
BAGHDAD	31	38	29	18	13	15	27	31	26
NUKHAIB	,,	,,	23	14	13	13	14	,,	15
HAI	42	46	35	24	22	31	38	40	35
NAJAF	28	30	23	16	12	14	23	26	22
DIWANIYA	42	46	33	23	18	23	34	39	32
NASIRIYA	42	43	37	25	21	30	42	44	36
BASRAH	67	70	56	46	42	51	60	65	57

TABLE 7 PRESSURE (MBS.) AT M.S.L.

SINJAR	,,,,	03.0	02.8	02.4	01.2	00.8	02.1	,,,,	1002.1
MOSUL	02.4	03.4	03.5	02.3	00.6	00.2	01.7	02.6	1002.1
SALAHADDIN	,,,,	02.4	01.7	00.9	999.7	999.6	02.0	,,,,	1001.1
KIRKUK	02.5	02.9	02.6	01.5	00.3	00.1	01.9	02.5	1001.8
ANAH	03.7	04.6	05.1	04.0	02.4	01.6	03.0	,,,,	1003.5
RUTBAH	03.6	04.4	04.6	03.8	03.0	02.9	03.5	03.6	1003.7
HABBANIYA	01.8	02.2	03.0	02.4	01.2	00.6	01.6	01.7	1001.8
BAGHDAD	00.2	01.5	02.5	02.1	00.7	00.3	01.2	01.3	1001.2
NUKHAIB	,,,,	,,,,	04.8	03.3	02.1	01.7	02.1	,,,,	1002.8
HAI	999.8	00.3	00.2	01.0	00.0	999.4	00.3	00.5	1000.2
NAJAF	00.9	01.6	02.6	02.1	00.8	00.2	01.3	01.2	1001.3
DIWANIYA	01.0	01.7	02.5	02.2	01.1	00.7	01.7	01.5	1001.5
NASIRIYA	00.1	00.8	01.7	01.4	00.2	999.7	00.7	00.6	1000.7
BASRAH	999.8	00.5	01.7	01.4	00.2	999.5	00.4	00.6	1000.6

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	,,,	0.3	0.2	0.2	0.4	0.3	0.1	,,,	0.3
MOSUL	0.1	0.5	0.8	0.6	0.7	1.0	0.5	0.3	0.6
SALAHADDIN	,,,	0.5	0.6	0.5	0.5	0.5	0.4	,,,	0.5
KIRKUK	0.0	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.2
ANAH	0.0	0.1	0.1	0.0	0.2	0.2	0.0	,,,	0.1
RUTBAH	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BAGHDAD	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.4	0.3
NUKHAIB	,,,	,,,	0.0	0.1	0.2	0.1	0.1	,,,	0.1
HAI	0.3	0.3	0.0	0.4	0.0	0.2	0.1	0.2	0.2
NAJAF	0.1	0.3	0.3	0.4	0.5	0.3	0.0	0.1	0.3
DIWANIYA	0.1	0.3	0.3	0.2	0.2	0.1	0.0	0.2	0.2
NASIRIYA	0.1	0.6	0.4	1.3	1.2	0.3	0.1	0.1	0.5
BASRAH	0.2	0.2	0.4	0.2	0.4	0.4	0.2	0.1	0.3

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	,,,	0.0	0.0	0.0	0.2	0.1	0.0	,,,	0.1
MOSUL	0.1	0.6	0.6	0.5	0.6	0.8	0.3	0.3	0.5
SALAHADDIN	,,,	0.5	0.6	0.4	0.4	0.5	0.4	,,,	0.5
KIRKUK	0.0	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.2
ANAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	,,,	0.0
RUTBAH	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.1
HABBANIYA	0.0	0.1	0.0	0.1	0.2	0.2	0.0	0.0	0.1
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	,,,	,,,	0.0	0.0	0.1	0.0	0.0	,,,	0.0
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.1	0.0	0.1	1.1	1.1	0.3	0.1	0.1	0.4
BASRAH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

AUGUST 1969. TABLE 10a (6)

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTIONS N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEV.
SINJAR	0300	7	2	7	0	1	1	3	3	7	19	5	0	0	6
	0600	5	0	4	0	0	0	2	5	15	11	5	0	0	4
	0900	4	1	4	3	1	1	7	2	8	15	8	0	0	6
	1200	1	0	1	3	5	2	14	2	3	22	6	0	0	6
	1500	2	0	2	0	1	1	13	5	7	20	4	0	0	5
	1800	4	0	2	1	0	1	11	9	3	25	3	0	0	6
MOSUL	0000	0	1	0	1	0	0	4	7	18	13	0	0	0	2
	0300	1	0	0	0	1	0	9	5	15	16	0	0	0	2
	0600	2	1	0	0	1	0	8	8	11	20	0	0	0	3
	0900	4	1	4	2	3	0	4	9	4	27	0	0	0	4
	1200	2	3	3	0	5	0	6	6	6	25	0	0	0	3
	1500	1	0	1	0	2	0	11	2	14	16	1	0	0	2
	1800	0	1	1	0	1	0	15	2	11	19	1	0	0	3
	2100	0	1	2	1	0	0	7	4	16	15	0	0	0	2
SALAHADDIN	0300	9	4	4	0	7	1	0	0	6	25	0	0	0	3
	0600	6	3	3	2	4	4	1	1	7	23	1	0	0	3
	0900	4	4	2	1	7	7	2	2	2	27	2	0	0	5
	1200	0	4	2	0	8	10	5	0	2	27	2	0	0	6
	1500	2	1	4	0	5	9	5	2	3	23	5	0	0	6
	1800	1	3	2	1	0	9	4	1	10	20	1	0	0	3
KIRKUK	0000	0	4	2	0	1	0	2	1	21	9	1	0	0	2
	0300	1	2	2	1	0	0	0	0	25	5	1	0	0	1
	0600	0	1	4	1	0	0	1	0	24	6	1	0	0	1
	0900	0	3	2	1	1	2	9	5	8	20	3	0	0	5
	1200	0	3	0	1	1	0	10	3	13	15	3	0	0	4
	1500	0	2	0	0	0	0	11	4	14	16	1	0	0	3
	1800	0	2	1	0	0	0	1	1	26	5	0	0	0	1
	2100	2	1	2	0	3	0	1	0	22	8	1	0	0	2
ANAH	0000	0	0	2	0	0	1	16	3	9	8	12	2	0	9
	0300	0	0	1	0	0	0	16	4	10	7	13	1	0	8
	0600	1	0	0	0	0	0	15	10	5	4	20	2	0	13
	0900	0	0	0	2	0	2	15	6	6	5	17	3	0	13
	1200	1	1	1	1	3	1	15	6	2	12	17	0	0	12
	1500	2	1	1	0	1	2	17	3	4	14	13	0	0	9
	1800	2	0	0	1	1	1	10	8	8	18	5	0	0	6

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
RUTBAH	0000	2	0	0	0	0	2	6	12	9	12	9	1	0	8
	0300	0	0	0	1	0	6	9	12	3	21	5	2	0	8
	0600	6	1	1	0	0	2	5	15	1	13	16	1	0	11
	0900	7	1	2	1	1	1	9	9	0	15	15	1	0	11
	1200	4	1	3	0	0	1	15	7	0	15	15	1	0	12
	1500	6	3	1	0	0	0	9	12	0	13	18	0	0	11
	1800	7	4	1	1	0	0	1	17	0	26	5	0	0	8
	2100	2	2	0	0	0	1	6	11	9	18	4	0	0	5
HABBANIYA	0000	0	1	0	1	0	1	6	9	13	15	3	0	0	5
	0300	2	0	0	1	0	1	8	10	9	14	8	0	0	6
	0600	2	2	0	0	0	1	7	17	2	12	17	0	0	11
	0900	3	0	2	0	2	1	8	15	0	14	17	0	0	12
	1200	6	0	1	1	2	2	8	11	0	19	11	1	0	11
	1500	7	2	0	0	0	1	7	11	3	22	6	0	0	6
	1800	3	1	0	0	0	0	7	4	16	13	2	0	0	3
	2100	2	0	0	0	0	0	6	7	16	12	3	0	0	3
BAGHDAD	0000	3	0	0	1	0	0	2	17	8	16	7	0	0	7
	0300	3	0	0	1	0	0	4	15	8	18	5	0	0	7
	0600	1	0	1	1	0	2	3	20	3	11	16	1	0	10
	0900	1	0	1	2	0	1	5	20	1	15	14	1	0	11
	1200	0	1	0	2	0	0	9	19	0	12	19	0	0	13
	1500	1	2	0	1	0	2	8	16	1	15	15	0	0	9
	1800	3	0	2	0	0	0	6	12	8	19	4	0	0	6
	2100	3	0	0	1	1	1	2	13	10	13	8	0	0	6
NUKHAIB	0600	4	0	2	1	0	0	6	18	0	14	13	4	0	13
	0900	3	0	3	0	2	0	9	12	2	16	13	0	0	10
	1200	6	0	0	0	1	1	12	10	1	16	14	0	0	10
	1500	6	0	0	0	0	0	12	12	1	20	10	0	0	9
	1800	6	1	0	0	0	0	14	8	2	25	4	0	0	6
HAI	0000	4	0	2	0	0	2	1	18	4	21	6	0	0	7
	0300	2	0	2	0	0	1	1	15	10	18	3	0	0	5
	0600	5	1	3	0	0	0	4	16	2	21	8	0	0	8
	0900	7	0	3	1	0	1	4	12	3	15	8	5	0	11
	1200	12	0	1	0	1	0	5	8	4	11	13	3	0	12
	1500	6	0	1	0	0	0	1	16	7	13	11	0	0	8
	1800	6	0	2	0	0	0	0	17	6	21	4	0	0	6
	2100	6	0	2	0	1	2	0	14	6	16	8	1	0	7

SURFACE - WIND NUMBER OF OBSERVATION OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	0000	7	0	1	0	0	1	0	17	5	24	2	0	0	5
	0300	4	0	1	0	0	2	4	16	4	26	1	0	0	4
	0600	8	1	0	1	0	1	2	15	3	25	3	0	0	6
	0900	8	0	2	1	0	0	1	15	4	21	5	0	0	6
	1200	8	0	4	2	0	0	0	15	2	25	4	0	0	6
	1500	6	3	3	1	0	0	2	13	3	25	3	0	0	5
	1800	2	2	2	1	0	0	4	8	12	19	0	0	0	2
	2100	6	1	2	1	0	0	3	12	6	24	1	0	0	4
DIWANIYA	0000	5	1	0	1	0	1	9	5	9	21	1	0	0	5
	0300	3	0	1	1	1	1	10	8	6	24	1	0	0	5
	0600	9	0	1	1	0	1	4	12	3	23	5	0	0	7
	0900	9	1	0	1	1	0	3	13	3	16	12	0	0	9
	1200	7	0	1	0	0	0	5	13	5	13	13	0	0	9
	1500	9	1	0	1	0	0	7	9	4	24	3	0	0	6
	1800	5	1	1	0	0	0	5	6	13	18	0	0	0	3
	2100	8	2	0	1	0	0	5	4	11	20	0	0	0	4
NASIRIYA	0000	4	0	0	1	0	0	7	12	2	18	6	0	0	6
	0300	0	1	0	1	0	1	10	11	7	22	2	0	0	5
	0600	0	0	0	0	2	0	5	20	4	21	6	0	0	6
	0900	1	0	1	1	1	0	4	22	1	22	8	0	0	8
	1200	2	0	3	1	0	0	3	22	0	22	9	0	0	9
	1500	1	0	6	1	0	0	7	14	2	25	4	0	0	7
	1800	1	1	4	2	0	0	5	14	4	25	2	0	0	6
	2100	2	1	1	2	0	0	6	15	4	21	5	0	0	7
BASRAH	0000	5	1	1	1	4	2	8	7	0	26	3	0	0	6
	0300	3	1	2	0	3	2	13	7	0	30	1	0	0	5
	0600	1	2	1	0	0	3	7	17	0	26	5	0	0	7
	0900	7	2	1	0	0	0	3	18	0	20	11	0	0	8
	1200	11	1	1	0	0	0	0	18	0	21	10	0	0	8
	1500	6	3	1	0	0	0	0	21	0	26	5	0	0	6
	1800	7	0	0	1	3	1	5	13	1	23	7	0	0	6
	2100	5	1	1	1	6	0	4	11	2	25	4	0	0	6

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR(V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	21 knots	340	0600	7th
MOSUL	12	270	1800	21th
SALAHADDIN	18	210	1500	2nd
KIRKUK	16	070	2100	30th
ANAH	28	260	0000	10th
RUTBAH	26	340	0900	8th
HABBANIYA	22	290	1500	8th
BAGHDAD	25	300	0900	7th
NUKHAIB	26	320	0600	11th
HILLA	25	330	0900	18th
NAJAF	20	330	1200	7th
DIWANIYA	18	310	1500	7th
NASIRIYA	18	300	1200	8th
BASRAH	18	310	1500	8th

AUGUST 1969. TABLE 12a. (9)

DAILY PRECIPITATION(MILLIMETERS) tr. < 0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
MOSUL	0.2mm.	5th	1954
KIRKUK	0.2	10th	1956
RUTBAH	tr.	20th	1965
HABBANIYA	tr.	10th	1956

AUGUST 1969. TABLE 12b.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	tr.mm	7th	1942
NUKHAIB	tr.	25th	1965
DIWANIYA	0.5	11th	1940
BASRAH	tr.	13th	1965

DAILY GRASS MINIMUM TEMPERATURE °C AND SOIL TEMPERATURE °C OF 0.3M and 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	25.6	24.1	31.6	29.3	25.1	34.7	31.5	21.5	34.6	31.0	36.8	34.2	24.3	34.8	31.4	18.9
2	18.0	21.0	31.9	29.4	23.3	34.7	31.5	18.0	34.4	30.8	37.0	34.3	25.4	35.0	31.4	20.0
3	20.6	18.6	32.1	29.4	24.5	34.7	31.5	18.0	34.5	30.8	37.0	34.2	26.0	35.0	31.7	18.3
4	22.8	18.6	32.2	29.5	23.0	34.8	31.7	18.0	34.5	30.8	37.0	35.4	25.0	35.7	31.4	20.0
5	16.3	20.6	32.3	29.5	24.5	34.5	31.5	18.6	34.8	30.8	36.7	34.4	24.0	35.3	31.5	19.2
6	18.5	17.9	32.4	29.7	24.2	34.6	31.6	19.0	34.5	31.0	41.6	39.4	25.0	34.7	31.7	21.1
7	20.5	22.0	32.7	29.8	23.5	34.5	31.6	21.0	34.3	30.8	36.7	34.4	26.2	34.7	31.6	19.7
8	16.6	18.4	32.8	30.0	23.4	34.5	31.6	21.8	34.5	31.0	36.6	34.3	24.3	33.7	31.5	22.5
9	16.8	20.9	32.9	30.0	23.7	34.4	31.6	15.5	34.0	31.0	36.4	34.4	24.2	33.8	31.5	19.5
10	24.5	28.5	33.9	30.0	24.3	34.4	31.7	18.0	33.8	30.8	36.4	34.4	24.4	33.7	31.5	20.0
11	24.9	30.5	33.6	30.1	26.7	34.5	31.7	22.8	34.6	30.8	36.7	34.4	24.3	34.3	31.5	20.8
12	26.0	25.6	35.1	30.1	24.2	34.7	31.8	xxxx	35.1	31.0	35.8	34.2	27.6	35.3	31.7	23.2
13	25.5	27.6	35.5	30.3	24.2	34.7	31.8	xxxx	35.0	31.0	36.8	34.3	27.9	35.5	31.6	23.0
14	18.0	20.6	34.9	30.5	22.0	34.6	31.6	xxxx	34.8	31.0	36.8	34.3	26.2	35.2	31.5	21.1
15	19.5	21.4	33.9	30.5	22.2	34.4	31.6	xxxx	34.4	31.1	37.0	34.4	25.0	35.5	31.5	20.6
16	17.5	23.3	34.4	30.6	22.4	34.4	31.7	17.3	34.4	31.0	37.0	34.3	25.0	35.4	31.6	18.6
17	19.0	22.0	34.5	30.8	22.8	34.3	31.7	19.4	34.8	31.0	37.2	35.4	26.8	35.7	31.7	22.2
18	20.0	22.4	34.4	30.8	22.2	34.5	31.8	24.0	35.0	31.2	37.4	34.4	27.2	36.0	31.6	20.2
19	22.0	21.5	34.3	31.0	23.9	34.4	32.8	22.5	35.0	31.2	37.1	34.4	25.0	35.6	31.7	19.3
20	24.0	22.1	35.0	31.1	26.7	34.5	31.7	25.0	35.0	31.3	37.3	34.4	25.5	35.3	31.6	18.8
21	25.6	23.5	35.3	31.0	24.9	34.7	31.7	20.4	35.0	31.3	37.4	34.5	25.1	35.4	31.7	19.3
22	21.5	21.3	31.9	31.0	21.2	34.8	31.8	21.8	35.0	31.5	37.0	34.5	25.6	35.6	31.6	21.9
23	17.6	21.5	31.4	31.1	20.0	34.4	31.8	15.0	34.5	31.0	36.7	34.6	23.9	35.4	31.6	19.0
24	18.4	22.5	31.6	31.1	22.2	34.0	31.8	17.0	34.0	31.5	36.8	34.6	23.0	35.5	31.6	18.5
25	17.5	22.5	32.1	30.9	22.0	34.3	31.8	16.0	34.2	31.4	37.0	34.6	25.3	35.7	31.6	18.2
26	19.2	22.0	32.0	31.0	21.7	34.2	31.8	16.0	34.0	31.5	37.1	34.5	25.2	35.9	31.6	21.3
27	20.2	26.6	32.3	30.8	21.6	34.0	31.8	16.5	34.0	31.4	37.2	34.5	25.2	36.0	31.6	21.2
28	20.9	27.4	32.9	30.8	25.6	34.3	31.8	27.2	34.5	31.0	37.3	34.5	27.9	36.2	31.8	22.0
29	18.7	27.5	33.2	30.8	21.1	34.3	31.8	xxxx	34.2	31.5	37.0	34.5	27.4	36.2	31.8	22.0
30	17.2	24.0	32.9	31.0	20.9	34.0	31.8	19.2	33.8	31.4	37.0	34.5	27.4	36.0	31.8	21.5
31	17.5	18.4	30.0	30.8	22.8	33.8	31.8	23.8	34.0	31.5	35.6	34.6	24.5	36.1	31.8	18.7
MEANS	20.3	22.8	33.1	30.4	23.3	34.4	31.7	19.7	34.5	31.1	37.0	34.7	25.5	35.3	31.6	20.3

AUGUST 1969. TABLE 141 (12)

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. AT 0600 GMT.

DAYS	MOSUL	KIR-KUK	ANA	RUT-BA	BAG-HDAD	NUK-HAIB	NAJAF	DIW-ANIYA	NASI-RIYA	BASRAH
1	15	13	15	21	13	22	10	9	10	8
2	11	12	14	20	12	23	10	10	10	11
3	13	12	15	20	14	23	9	10	10	9
4	11	11	14	19	14	21	10	10	12	8
5	12	12	16	20	10	22	10	11	12	7
6	11	13	13	20	10	23	11	12	12	9
7	13	13	15	20	10	24	10	13	12	11
8	12	13	14	19	10	23	10	12	11	5
9	13	13	19	18	15	24	11	10	11	10
10	10	12	16	21	14	25	13	9	9	4
11	14	13	13	22	15	25	9	8	11	7
12	14	15	14	22	17	24	10	10	9	6
13	10	13	14	21	10	23	10	11	10	8
14	13	12	15	21	14	23	11	11	9	8
15	15	13	14	20	9	22	10	10	9	8
16	16	10	13	22	10	24	11	10	9	9
17	15	17	12	21	15	24	11	7	10	8
18	17	12	10	22	10	24	11	12	10	7
19	11	13	17	24	13	25	12	11	12	9
20	14	13	17	23	10	25	13	11	10	7
21	15	13	13	20	10	23	11	11	10	7
22	12	13	12	20	13	22	11	10	10	6
23	11	12	12	22	10	22	11	6	10	8
24	14	11	12	24	15	23	12	6	9	5
25	12	11	14	22	10	25	10	6	8	8
26	13	11	12	24	19	24	12	5	7	8
27	12	13	12	23	8	24	10	7	10	7
28	11	12	10	22	6	22	6	7	9	6
29	14	12	9	22	9	22	8	6	7	7
30	13	12	8	20	13	21	12	7	8	5
31	13	12	8	22	10	23	12	6	7	8
TOTAL	406	397	419	656	441	720	315	284	303	235
MEAN	13.3	12.5	13.5	21.2	14.2	23.2	10.2	9.2	9.8	8.0

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION - HOURS MONTH TOTAL HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	0	1	1	0	0	30	0	-	-	-
MOSUL	0	0	0	0	0	0	1	0	2	0	0	29	0	381.7	13.5	5th	0
SALAHADDIN	0	0	0	0	0	0	0	0	0	0	0	27	0	-	-	-	-
KIRKUK	0	0	0	0	0	0	7	2	2	0	0	31	0	-	-	-	-
ANAH	0	0	0	0	0	0	0	7	1	0	0	31	0	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	4	1	0	0	31	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	2	7	1	0	0	31	0	396.2	13.9	15th	0
BAGHDAD	0	0	0	0	0	0	17	4	3	2	0	29	0	379.4	13.1	5th	0
NUKHAIB	0	0	0	0	0	0	0	6	0	0	0	30	0	-	-	-	-
HAI	0	0	0	0	0	0	0	14	2	0	0	29	0	-	-	-	-
NAJAF	0	0	0	0	0	0	0	4	1	0	0	29	0	-	-	-	-
DIWANIYA	0	0	0	0	0	0	3	8	8	1	0	30	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	2	6	11	1	0	27	0	-	-	-	-
BASRAH	0	0	0	0	0	0	0	4	14	1	0	29	0	344.9	12.6	1st	0

TABLE 15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT M.S.L. AND RELATIVE HUMIDITY

STATION	PRESSURE AT MSL -mbs. for 1969 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - mbs. - RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1969 HIGH	TIME EST GMT.	DAY	LOW	TIME EST GMT.	DAY
SINJAR	1011.8	0600	31st	995.0	1200	7th	1011.8	0600	31st	1969	989.8	1500	16th	1961	43%	0600	14th	13%	1200	26th
MOSUL	1012.7	0300	31st	995.2	1200	1st	1012.7	0300	31st	1969	990.9	1500	17th	1964	56	0300	13th	7	1200	26th
SALAHADDIN	1011.8	0300	31st	995.1	1800	8th	1011.8	0300	31st	1969	993.3	1200	19th	1967	44	1800	10th	13	1500	8th
KIRKUK	1011.3	0300	31st	994.1	1500	9th	1011.3	0300	31st	1969	990.1	1500	13th	1952	36	0300	27th	5	1500	20th
ANAH	1011.7	0600	31st	997.0	1500	10th	1011.7	0600	31st	1969	997.0	1500	10th	1969	57	0300	15th	10	1500	27th
RUTBAH	1013.1	0300	[illegible]	[illegible]	[illegible]	[illegible]	1013.7	0300	[illegible]	1953	992.0	0000	2nd	1961	64	0300	15th	6	1500	28th
HABBANIYA	1008.8	0600	30th	999.7	1500	10th	1009.5	1200	31st	1969	994.1	1500	17th	1964	71	0300	31st	10	1200	26th
BAGHDAD	1008.5	0600	30th	995.0	1500	10th	1009.3	0600	30th	1968	992.7	1500	3rd	1954	53	0000	24th	9	1200	17th
NUKHAIB	1009.1	0600	31st	997.2	1500	10th	1009.7	0600	31st	1965	995.4	1500	17th	1964	35	0600	4th	[illegible]	1500	25th
HAI	1007.9	0600	31st	994.4	1500	7th	1008.4	0600	30th	1953	992.2	1500	13th	1964	63	0300	28th	16	1200	17th
NAJAF	1008.0	0600	30th	995.5	1500	10th	1009.0	0600	30th	1968	993.2	1500	12th	1963	64	0300	28th	6	1200	19th
DIWANIYA	1007.5	0600	31st	996.4	1500	10th	1009.0	0600	30th	1953	991.8	1500	3rd	1954	64	0000	30th	12	1200	18th
NASIRIYA	1007.3	0600	31st	995.4	1500	7th	1008.1	0600	31st	1953	992.1	2100	3rd	1954	71	0300	28th	10	1200	25th
BASRAH	1007.7	0600	30th	994.1	1500	7th	1007.7	0600	30th	1969	992.4	1500	3rd	1954	94	0000	25th	29	1200	25th

AUGUST 1969. TABLE 16.

STATION BAGHDAD RADIOSONDE. TIME 0000 GMT. UPPER AIR CLIMATOLOGICAL DATA

PRESSURE SURFACE mb.	HEIGHT OF PRESSURE GPM.				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VICTOR WIND DIRECTION	AVERAGE VICTOR WIND SPEED KNOTS	MAX. SPEED DIRECTION	MAX. SPEED SPEED KNOTS	MIN. SPEED DIRECTION	MIN. SPEED SPEED KNOTS
1000	0	20	76	-20	0	29.8	32.5	28.0	0	14.8	0	320	08	330	16	300	02
850	31	1477	1536	1433	31	25.7	30.9	20.3	31	2.9	30	320	11	300	24	000	00
700	31	3147	3210	3102	31	14.1	18.0	9.6	31	-5.3	29	300	04	320	20	030	03
500	29	5[illegible]	5940	5853	29	-3.5	2.1	-10.0	29	-26.9	29	270	17	240	35	100	05
300	29	9725	9799	9629	29	-28.8	-23.3	-34.2	29	-49.1	29	250	16	250	40	250	00
200	28	12510	12651	12367	28	-40.2	-44.5	-51.0	22	-62.2	28	270	19	270	60	190	05
150	28	14346	14483	14177	28	-61.0	-57.2	-65.8	-	-	26	250	20	230	75	110	07
100	28	16790	17009	16625	28	-69.0	-64.0	-76.0	-	-	23	230	11	190	71	040	02
70	21	18901	19091	18706	21	-67.9	-61.0	-78.0	-	-	14	160	05	240	56	290	05

NOTE: N = Total number of observations.

AUGUST 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.

STATION BAGHDAD:RADIOSONDE STATION.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT GPM.	PRESSURE mb.	DIRECTION 000-360	SPEED " Knots"
		HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C	HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C	HEIGHT GPM.	PRESSURE mb.	DEW-POINT °C		HEIGHT GPM.	PRESSURE mb.	TEMPERATURE °C	HEIGHT GPM.	PRESSURE mb.	TEMPERATURE °C	HEIGHT GPM.	PRESSURE mb.	TEMPERATURE				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
0000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-35.6	23	[illegible]	94	-73.1	[illegible]	433	-67.0	[illegible]	[illegible]	-76.3	[illegible]	[illegible]	200	85

NOTE: N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

مديرية احصاءات المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٢

العدد : ٩

الشهر : ايلول

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 9

MONTH : SEPTEMBER

YEAR : 1969.

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation 12a-b	12a-b	9-10
Daily evaporation	13	11
Daily grass minimum and soil temperatures	14	12
Number of days for the cases of phehomena and duration of sunshine	15a	13
Highest, lowest & records of pressure at M.S.L. and relative humidity	15b	13
Upper air climatological data at BAGHDAD	16	14
Mean and extreme values of the freezing level, the tropopause and the maximum wind speed in upper air at BAGHDAD	17	15

SEPTEMBER 1969. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	37.6	23.0	41.4	19.6	34.1	23.5	41.0	28.6	43.6	20.5
2	39.0	22.1	42.6	20.6	35.3	23.8	42.5	29.1	43.7	20.4
3	38.2	23.1	43.2	20.4	36.2	25.2	43.6	29.0	42.8	21.5
4	38.9	22.1	43.3	20.7	36.8	25.4	43.4	26.0	42.2	21.4
5	38.6	23.5	43.0	22.8	36.5	25.3	44.0	27.0	43.6	23.0
6	38.8	23.4	42.0	20.4	35.4	24.4	43.6	25.0	44.4	22.3
7	38.1	24.1	42.4	24.4	36.0	25.0	43.0	28.2	41.7	26.4
8	38.0	21.4	40.2	20.5	34.0	24.0	42.6	23.6	41.4	23.2
9	35.0	18.1	38.2	22.6	31.4	24.4	39.0	26.0	35.8	24.4
10	28.1	20.3	35.3	21.0	28.0	20.5	36.3	23.6	35.1	23.1
11	28.5	18.3	33.6	17.7	27.0	16.9	35.0	20.5	35.0	19.4
12	29.3	17.3	33.2	21.2	26.1	15.0	33.5	22.4	34.5	19.9
13	30.3	19.0	34.6	18.9	28.0	14.3	35.1	22.0	34.8	16.7
14	31.7	20.1	36.5	21.0	28.0	17.4	37.8	23.7	37.5	16.5
15	32.0	23.0	36.8	20.4	30.0	19.3	38.6	21.1	39.0	24.5
16	33.1	22.3	37.3	20.1	30.0	20.4	38.6	24.2	38.8	19.2
17	33.1	21.8	37.2	17.2	29.0	20.4	36.5	21.5	37.2	19.5
18	33.5	22.6	37.2	18.0	30.0	21.0	38.0	21.4	38.5	20.2
19	31.6	18.1	37.0	17.2	29.0	20.3	37.2	22.5	36.2	20.2
20	33.1	20.1	36.9	19.4	29.9	19.5	37.2	22.7	35.6	20.7
21	33.5	18.8	36.8	15.6	29.4	19.6	37.2	22.4	37.1	20.2
22	32.6	20.3	37.5	15.2	30.3	20.8	37.6	21.4	37.3	16.0
23	33.3	19.9	36.2	19.2	30.3	20.6	37.6	21.0	38.5	16.3
24	34.6	19.2	38.3	15.8	31.2	21.0	38.7	22.2	39.5	17.6
25	34.3	20.1	37.3	16.3	30.8	21.7	38.9	22.0	40.1	17.8
26	30.6	19.3	36.2	15.7	29.5	21.1	37.4	23.4	37.3	20.1
27	29.6	17.6	33.2	14.9	27.1	17.5	35.4	19.6	34.7	16.9
28	31.6	18.2	35.5	14.5	28.6	17.6	36.9	20.2	34.1	15.4
29	33.1	17.9	37.1	15.6	29.6	19.2	37.5	22.0	38.5	22.4
30	33.3	19.2	37.3	17.4	30.2	20.2	38.1	22.7	38.5	19.4
MEANS	33.8	20.5	37.9	18.8	30.9	20.8	38.7	23.5	38.6	20.2
NORMAL	....	....	38.9	15.8	....	....	38.2	22.1	....	....
HIGHEST	40.3	30.3	47.2	28.3	36.8	26.3	46.1	31.1	44.4	26.4
DAY	5th	12th	?	7th	4th	5th	2nd	7th	6th	7th
YEAR	1966	1965	1935	1952	1969	1967	1945	1952	1969	1969
LOWEST	24.8	14.2	23.9	6.9	25.4	14.3	28.5	9.4	32.5	14.4
DAY	19th	25th	18th	26th	30th	13th	29th	30th	30th	24th
YEAR	1964	1964	1932	1956	1967	1969	1965	1938	1968	1968

SEPTEMBER 1969. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	40.6	20.0	41.5	21.5	42.2	21.5	41.3	22.4	43.1	25.7
2	40.8	23.0	42.0	22.5	42.0	20.3	42.2	22.0	43.0	23.0
3	40.4	23.5	42.9	23.6	43.7	23.0	42.5	24.0	44.4	24.0
4	40.6	19.8	42.8	24.0	43.3	21.7	42.6	22.0	44.8	25.6
5	41.6	20.0	43.0	23.0	43.8	20.9	43.0	23.2	43.8	23.8
6	42.6	21.5	43.6	23.4	44.3	23.0	44.2	22.5	45.6	24.4
7	38.2	22.4	42.8	24.0	44.3	22.6	43.8	24.5	45.4	26.1
8	38.6	21.5	43.3	25.0	44.8	23.8	44.2	25.0	46.5	25.0
9	33.5	20.0	38.3	25.0	39.8	24.8	38.9	24.0	44.3	26.8
10	31.5	19.5	36.5	22.0	38.2	21.2	35.3	22.2	41.4	24.4
11	31.0	18.4	35.0	21.8	36.2	21.0	34.5	20.6	37.4	23.6
12	32.0	17.5	34.0	19.0	35.3	21.5	33.8	19.2	37.2	20.4
13	32.3	13.6	35.0	17.8	36.0	22.0	35.1	17.3	38.8	18.4
14	33.8	14.2	38.0	17.5	37.2	16.2	35.6	16.5	40.4	18.9
15	35.5	17.0	37.7	18.4	38.0	19.0	37.4	17.5	40.4	19.6
16	36.0	16.5	39.0	19.0	39.2	24.0	38.0	20.0	40.2	24.4
17	35.6	17.3	37.8	21.0	38.9	21.0	37.5	19.6	40.4	24.4
18	35.8	18.0	38.6	20.8	38.3	21.0	36.3	19.0	39.4	22.8
19	33.2	17.5	37.3	20.0	39.6	21.4	37.3	20.6	40.4	23.5
20	33.5	15.5	36.7	20.6	36.4	21.5	35.5	21.6	38.6	23.4
21	34.0	15.3	37.4	20.5	37.8	21.1	36.5	19.1	39.0	21.4
22	35.8	15.4	37.5	18.4	37.5	18.4	37.2	19.5	39.4	21.5
23	36.6	19.3	39.5	19.0	39.4	19.0	38.7	21.9	42.2	23.2
24	36.5	16.7	39.5	23.6	40.0	26.0	38.6	21.6	41.6	24.0
25	37.4	19.1	39.8	20.0	40.0	20.0	38.6	19.6	41.0	23.4
26	35.2	17.0	38.0	20.9	39.7	20.8	36.4	20.0	42.2	20.2
27	34.6	15.3	35.8	21.0	36.7	24.0	35.5	18.6	40.2	20.0
28	34.4	19.0	38.0	20.0	38.0	21.6	37.0	21.0	40.2	23.4
29	38.4	19.1	38.7	23.0	38.4	20.4	38.6	21.6	42.1	23.0
30	39.8	22.4	40.0	21.6	39.9	21.4	40.0	20.5	42.4	22.4
MEANS	36.3	18.5	38.9	21.9	39.6	21.5	38.6	20.9	41.5	23.0
NORMAL	35.6	17.3	40.0	21.4	39.9	21.0	.....	.....	40.9	22.6
HIGHEST	45.0	26.7	48.4	30.6	46.6	28.9	44.2	25.0	48.4	31.1
DAY	3rd	4th	2nd	7th	6th	13th	8th	6th	16th	2nd
YEAR	1925	1929	1945	1940	1945	1957	1969	1965	1945	1940
LOWEST	25.0	8.9	30.0	11.1	30.0	10.5	32.8	15.4	31.8	15.0
DAY	30th	21st	30th	30th	30th	30th	26th	19th	29th	28th
YEAR	1928	1936	1938	1938	1938	1938	1966	1964	1955	1961

DAILY MAXIMUM AND MINIMUM TEMPERATURE (°C)

DAYS	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	43.2	27.0	42.8	23.4	42.3	25.1	40.4	26.0
2	43.5	25.2	42.4	23.6	42.0	23.5	41.0	24.3
3	45.2	26.4	43.7	22.8	42.7	25.8	41.0	23.9
4	44.5	28.3	43.0	26.0	44.3	23.9	40.7	24.9
5	44.7	26.0	44.0	22.0	42.7	26.2	40.8	24.5
6	45.7	26.8	44.9	24.0	44.1	24.2	44.7	24.0
7	46.6	28.0	44.6	23.4	44.6	25.5	42.0	24.3
8	46.6	28.2	44.3	25.1	44.4	26.8	41.6	25.3
9	43.2	28.8	42.2	24.0	44.2	27.0	42.7	25.6
10	42.4	26.8	39.0	20.0	41.1	27.2	40.4	26.1
11	38.4	25.0	37.2	23.0	37.7	25.6	36.5	27.0
12	37.4	22.0	36.4	20.5	36.0	23.0	35.5	23.7
13	36.4	21.5	37.0	19.9	37.3	20.3	35.1	20.9
14	39.4	21.4	36.7	16.8	38.0	20.1	37.0	21.0
15	39.8	21.0	38.2	18.2	37.6	22.7	41.1	22.8
16	40.0	22.0	39.5	25.0	41.0	28.3	41.8	26.7
17	40.8	25.8	40.4	23.8	41.0	23.5	36.6	25.7
18	40.5	24.8	39.2	20.8	39.2	22.8	37.6	23.7
19	40.6	23.8	39.0	19.4	39.2	22.8	37.5	23.4
20	38.4	24.2	37.7	22.3	39.7	21.8	38.4	23.2
21	40.2	23.6	38.0	21.0	38.2	24.1	37.2	23.0
22	39.4	23.8	38.8	19.9	38.8	23.7	38.6	21.4
23	40.2	24.2	39.0	22.6	40.5	24.4	39.3	22.0
24	40.5	24.0	40.2	22.8	41.2	24.5	43.4	25.0
25	40.4	26.2	40.6	22.0	40.5	24.6	39.6	23.3
26	40.6	26.2	40.0	19.5	42.3	22.7	40.4	22.0
27	39.4	22.9	40.2	20.7	38.9	22.1	38.7	25.5
28	40.2	23.8	39.9	19.8	39.4	21.2	39.0	21.9
29	40.2	24.0	39.0	18.7	41.0	23.8	39.2	24.6
30	41.4	23.6	41.1	25.0	40.9	23.7	39.8	24.0
MEANS	41.3	24.8	40.3	21.9	40.7	24.0	39.6	24.0
NORMAL	....	....	39.9	19.7	41.5	21.5	39.3	22.4
HIGHEST	46.6	28.8	46.6	28.3	48.9	31.2	46.6	30.9
DAY	8th	9th	1st	14th	6th	3rd	9th	3rd
YEAR	1969	1969	1945	1951	1940	1956	1951	1956
LOWEST	34.4	18.3	32.6	11.6	32.6	13.9	31.1	13.1
DAY	26th	23rd	15th	26th	10th	23rd	29th	16th
YEAR	1966	1964	1959	1943	1953	1940	1955	1958

SEPTEMBER 1969. TABLE 2. (4)

MONTHLY MEANS TIME G.M.T.

DRY BULB TEMPERATURES (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	24.4	28.3	31.6	33.2	32.6	29.3	....	29.9
MOSUL	21.4	19.8	27.1	35.1	37.0	34.0	27.0	24.3	28.2
SALAHADDIN	....	23.5	26.5	29.4	30.2	28.2	24.0	....	27.0
KIRKUK	26.3	24.7	31.7	37.0	37.9	35.1	29.7	27.5	31.2
ANAH	22.4	21.2	26.7	35.4	38.1	35.9	28.9	....	29.8
RUTBAH	21.2	18.8	26.6	33.9	35.6	33.4	27.5	23.9	27.6
HABBANIYA	23.9	22.2	29.3	36.7	38.5	34.5	28.5	26.4	30.0
BAGHDAD	25.2	22.9	30.3	37.5	39.3	36.4	29.1	26.4	30.9
NUKHAIB	....	....	29.7	36.2	38.1	36.9	32.2	....	34.6
HAI	25.0	23.7	32.2	39.4	40.6	34.8	30.0	27.5	31.7
NAJAF	27.2	25.2	32.1	39.0	41.0	38.0	32.5	29.5	33.1
DIWANIYA	24.5	22.6	31.1	38.7	39.9	34.9	28.9	26.8	30.9
NASIRIYA	26.5	24.5	31.0	38.2	40.5	37.0	31.4	28.4	32.2
BASRAH	26.1	24.3	31.0	37.5	38.9	34.1	30.1	27.9	31.2

TABLE 3. VAPOUR PRESSURE (MBS.)

SINJAR	....	10.7	11.6	11.9	11.8	11.4	11.2	....	11.4
MOSUL	10.6	10.0	10.7	11.2	10.4	11.4	10.9	10.9	10.4
SALAHADDIN	....	8.5	9.1	8.6	8.5	8.7	8.5	....	8.6
KIRKUK	8.3	7.8	9.0	7.9	7.3	7.9	9.1	8.6	8.2
ANAH	9.7	10.2	11.2	11.3	10.6	10.9	10.4	....	10.6
RUTBAH	8.7	8.4	10.2	9.6	9.1	8.8	8.7	9.0	9.1
HABBANIYA	14.3	13.5	16.5	14.8	14.8	15.9	15.6	15.1	15.1
BAGHDAD	11.6	11.5	13.3	12.8	11.3	13.4	13.7	12.6	12.5
NUKHAIB	....	....	7.5	7.5	7.9	7.8	7.7	....	7.7
HAI	14.8	14.5	18.2	18.0	17.1	18.4	16.3	15.1	16.5
NAJAF	11.2	10.7	11.9	11.1	10.4	11.2	11.8	11.3	11.2
DIWANIYA	13.6	12.8	15.7	14.3	13.9	16.1	14.4	13.8	14.3
NASIRIYA	16.4	14.0	14.7	13.9	12.0	17.1	18.1	17.9	15.5
BASRAH	24.8	22.9	26.9	28.8	29.3	31.4	30.8	28.3	27.9

TABLE 4. WET BULB TEMPERATURES (°C)

SINJAR	....	14.9	16.8	18.1	18.6	18.2	16.9	....	17.3
MOSUL	14.3	13.6	16.6	20.1	20.2	19.6	16.9	15.3	17.1
SALAHADDIN	....	14.0	15.6	16.6	16.7	16.1	14.2	....	15.5
KIRKUK	15.1	14.1	17.6	19.1	19.1	18.4	16.9	15.3	17.0
ANAH	14.2	13.9	16.7	20.0	20.7	20.0	17.2	....	17.5
RUTBAH	13.0	11.8	16.2	18.7	19.2	18.2	15.8	14.4	16.0
HABBANIYA	17.2	16.1	20.1	22.0	22.6	21.6	19.5	18.5	19.7
BAGHDAD	16.4	15.4	19.2	21.5	21.4	21.3	18.9	17.3	18.9
NUKHAIB	....	....	16.1	18.6	19.5	19.0	17.2	....	18.1
HAI	17.4	16.8	21.3	23.3	23.3	22.2	19.7	18.3	20.3
NAJAF	17.0	15.9	19.1	21.2	21.6	21.0	19.3	17.9	19.1
DIWANIYA	17.1	15.9	20.5	22.5	22.8	21.9	19.2	18.2	19.8
NASIRIYA	19.1	17.3	20.0	22.2	22.1	23.0	21.6	20.5	20.7
BASRAH	22.6	21.2	24.9	27.5	28.0	27.4	26.1	24.6	25.3

TABLE 5. DEW POINT (°C)

SINJAR	....	7.7	9.0	9.3	9.2	8.7	8.4	....	8.7
MOSUL	7.7	7.5	7.7	8.8	7.1	8.9	7.9	8.1	8.0
SALAHADDIN	....	4.4	5.4	4.7	4.2	4.6	4.4	....	4.6
KIRKUK	3.7	2.9	5.0	3.1	1.7	3.2	5.2	8.6	4.2
ANAH	6.2	7.1	8.2	8.2	7.5	7.8	7.1	....	7.4
RUTBAH	4.2	3.8	6.7	5.8	5.1	4.5	4.8	4.9	5.0
HABBANIYA	12.1	11.1	14.1	12.4	12.5	16.4	13.1	12.9	13.1
BAGHDAD	9.0	8.9	11.1	10.5	8.6	11.2	11.5	10.2	10.1
NUKHAIB	....	....	2.6	2.7	3.1	2.8	3.2	....	2.9
HAI	12.7	12.4	15.9	15.7	14.9	16.1	14.2	13.0	14.4
NAJAF	8.5	7.8	9.3	8.1	7.2	8.4	9.3	8.5	8.4
DIWANIYA	11.4	10.4	13.6	11.9	11.5	13.6	12.2	11.6	12.0
NASIRIYA	14.1	11.5	12.6	11.7	9.4	14.9	15.7	15.4	13.2
BASRAH	20.8	19.5	22.0	23.2	23.4	24.6	24.3	23.0	22.6

SEPTEMBER 1969. TABLE 6.

RELATIVE HUMIDITY (%) MONTHLY MEANS TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	36	31	26	24	24	28	,,	28
MOSUL	43	47	30	21	17	22	31	37	31
SALAHADDIN	,,	30	27	22	20	23	29	,,	25
KIRKUK	25	26	20	13	11	15	22	24	20
ANAH	35	41	32	20	16	19	26	,,	27
RUTBAH	34	38	30	18	16	17	23	30	26
HABBANIYA	49	51	41	25	22	30	41	45	38
BAGHDAD	37	42	31	20	16	22	35	37	30
NUKHAIB	,,	,,	18	13	12	13	16	,,	14
HAI	47	50	38	25	22	32	39	41	37
NAJAF	31	34	25	16	14	17	24	28	24
DIWANIYA	45	47	35	21	19	29	37	40	34
NASIRIYA	48	45	33	21	16	28	40	46	35
BASRAH	73	75	60	45	42	59	72	75	63

TABLE 7. PRESSURE MBS. AT (M.S.L.)

SINJAR	,,,,	09.3	09.0	08.5	07.2	06.9	08.3	,,,,	1008.2
MOSUL	09.1	09.6	09.7	08.7	07.0	06.7	08.4	09.0	1008.5
SALAHADDIN	,,,,	08.7	08.0	07.2	06.1	06.7	08.9	,,,,	1007.6
KIRKUK	08.4	08.6	08.5	07.4	06.2	06.2	08.0	08.4	1007.7
ANAH	08.8	09.5	10.5	09.2	07.4	07.2	08.6	,,,,	1008.7
RUTBAH	07.9	08.8	09.3	08.2	07.3	07.4	08.2	07.9	1008.1
HABBANIYA	07.0	07.4	08.4	07.8	06.2	06.1	07.1	07.5	1007.2
BAGHDAD	06.5	06.9	07.9	07.5	06.2	05.9	07.0	07.0	1006.9
NUKHAIB	,,,,	,,,,	09.2	08.1	07.1	07.0	07.8	,,,,	1007.8
HAI	05.5	05.9	07.0	06.6	05.3	05.2	06.2	06.2	1005.9
NAJAF	06.2	06.9	08.0	07.3	05.8	05.6	06.8	06.6	1006.7
DIWANIYA	06.3	06.8	08.0	07.5	06.1	06.0	06.9	06.8	1006.7
NASIRIYA	05.5	06.1	07.4	06.8	05.4	05.1	06.2	06.0	1006.1
BASRAH	05.5	06.0	07.3	06.9	05.6	05.4	06.2	06.0	1006.1

TABLE 8. TOTAL CLOUD AMOUNT(OKTAS)

SINJAR	,,,	2.0	2.2	2.1	2.2	1.9	1.5	,,,	2.0
MOSUL	0.5	1.4	2.1	2.3	2.4	2.1	0.6	.5	1.5
SALAHADDIN	,,,	1.2	1.4	1.8	2.2	1.7	0.9	,,,	1.5
KIRKUK	0.5	0.8	0.9	1.1	1.5	1.3	0.8	0.4	0.9
ANAH	0.8	1.0	1.0	1.3	1.7	1.9	1.3	,,,	1.3
RUTBAH	0.3	0.8	0.8	0.8	2.0	2.2	1.1	0.6	1.1
HABBANIYA	0.4	0.8	0.7	0.7	1.0	1.1	0.6	0.3	0.7
BAGHDAD	0.4	0.7	0.7	0.7	1.1	1.2	0.5	0.8	0.8
NUKHAIB	,,,	,,,	0.9	1.0	1.3	1.1	1.2	,,,	1.1
HAI	0.1	0.3	0.5	0.7	0.7	0.7	0.4	0.2	0.4
NAJAF	0.5	0.8	0.8	1.0	1.1	1.0	0.5	0.6	0.8
DIWANIYA	0.3	0.6	0.5	0.7	0.8	0.7	0.4	0.3	0.5
NASIRIYA	0.4	0.4	0.7	0.8	1.0	0.7	0.5	0.6	0.6
BASRAH	0.3	0.5	0.5	0.5	0.7	0.6	0.3	0.3	0.5

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	,,,	0.1	0.2	0.2	1.2	0.4	0.2	,,,	0.4
MOSUL	0.2	0.8	1.1	1.0	1.3	1.0	0.3	0.1	0.7
SALAHADDIN	,,,	0.7	0.8	1.1	1.6	1.2	0.4	,,,	1.0
KIRKUK	0.2	0.4	0.4	0.4	0.9	0.7	0.4	0.1	0.4
ANAH	0.1	0.1	0.2	0.3	0.3	0.4	0.0	,,,	0.2
RUTBAH	0.0	0.1	0.1	0.2	1.1	1.2	0.4	0.3	0.4
HABBANIYA	0.0	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.1
BAGHDAD	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
NUKHAIB	,,,	,,,	0.1	0.1	0.3	0.2	0.4	,,,,	0.2
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.1	0.3	0.2	0.3	0.5	0.4	0.0	0.1	0.2
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
BASRAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SEPTEMBER 1969. TABLE 10a. (5)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	4	2	8	3	2	0	6	4	1	29	0	0	0	4
	0600	2	1	6	1	1	0	4	3	12	14	4	0	0	4
	0900	1	1	6	2	8	1	7	1	3	24	3	0	0	6
	1200	4	0	5	1	7	1	8	3	1	18	11	0	0	8
	1500	3	0	5	1	1	1	15	4	0	24	6	0	0	7
	1800	8	3	0	1	2	0	11	5	0	29	0	1	0	6
MOSUL	0000	0	0	1	0	0	0	4	0	25	5	0	0	0	1
	0300	0	0	1	0	0	0	2	6	21	9	0	0	0	1
	0600	2	0	2	0	0	0	4	11	11	19	0	0	0	2
	0900	2	0	3	3	2	0	7	3	10	19	1	0	0	3
	1200	3	2	7	0	1	1	6	8	2	27	1	0	0	4
	1500	0	1	3	0	1	0	7	6	12	18	0	0	0	3
	1800	2	1	1	0	0	1	10	2	13	17	0	0	0	3
	2100	1	1	2	1	2	0	7	0	16	14	0	0	0	2
SALAHADDIN	0300	5	4	0	1	6	0	4	1	9	19	2	0	0	4
	0600	4	4	0	0	0	1	2	3	8	21	1	0	0	3
	0900	5	2	2	0	10	8	3	0	0	29	1	0	0	3
	1200	3	1	3	0	5	10	7	1	0	28	1	1	0	7
	1500	2	2	3	0	2	10	7	4	0	27	3	0	0	6
	1800	4	0	1	2	2	2	11	1	7	23	0	0	0	3
KIRKUK	0000	0	9	3	0	0	0	0	0	18	9	3	0	0	3
	0300	0	7	4	0	0	0	0	0	19	10	1	0	0	2
	0600	0	2	3	0	1	0	0	0	24	3	2	1	0	2
	0900	0	2	3	1	0	2	12	1	9	20	1	0	0	4
	1200	2	2	2	0	0	0	17	1	6	24	0	0	0	4
	1500	2	2	0	0	0	1	10	1	14	15	1	0	0	3
	1800	0	5	0	0	0	0	0	1	24	5	1	0	0	1
	2100	1	7	3	0	0	0	0	0	19	9	2	0	0	2
ANAH	0000	2	1	1	0	2	1	5	0	18	9	3	0	0	3
	0300	1	1	0	1	2	0	7	1	17	8	4	1	0	3
	0600	3	1	2	0	0	0	18	1	5	12	13	0	0	9
	0900	7	1	0	1	1	0	15	1	4	14	12	0	0	10
	1200	1	3	1	0	0	4	13	0	8	12	10	0	0	9
	1500	3	3	0	0	0	0	18	2	4	15	10	0	0	9
	1800	0	0	0	1	4	0	8	1	16	13	1	0	0	3

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS 1-10	11-21	22-33	34	MEAN V.K.
RUTBAH	0000	2	3	2	2	2	5	8	4	2	26	2	0	0	6
	0300	1	2	1	1	1	10	7	5	2	27	1	0	0	6
	0600	6	2	1	0	1	9	4	7	0	22	8	0	0	8
	0900	8	3	1	6	3	2	4	3	0	20	10	0	0	10
	1200	5	2	4	3	2	1	6	7	0	21	9	0	0	10
	1500	10	3	3	3	1	1	4	5	0	18	11	1	0	11
	1800	8	7	4	1	3	1	2	3	1	25	4	0	0	7
	2100	3	3	4	1	7	2	3	4	3	21	6	0	0	7
HABBANIYA	0000	2	0	0	0	0	1	3	0	16	13	1	0	0	3
	0300	2	1	1	0	0	1	5	6	14	15	1	0	0	3
	0600	6	1	0	0	0	1	7	11	4	23	3	0	0	6
	0900	6	3	1	0	2	1	7	7	3	22	5	0	0	7
	1200	10	1	2	0	2	1	4	7	3	18	9	0	0	8
	1500	11	0	1	1	0	0	3	7	7	23	0	0	0	4
	1800	2	0	0	1	0	0	2	6	19	10	1	0	0	3
	2100	2	0	0	0	1	0	1	6	20	9	1	0	0	2
BAGHDAD	0000	7	4	0	1	0	1	0	9	8	20	2	0	0	5
	0300	6	2	0	1	0	0	1	11	9	19	2	0	0	4
	0600	6	1	2	0	0	1	1	13	6	23	1	0	0	4
	0900	7	3	1	0	3	3	1	11	1	25	4	0	0	8
	1200	13	1	0	0	2	2	5	7	0	16	14	0	0	10
	1500	6	0	0	0	0	0	5	10	9	19	2	0	0	5
	1800	1	0	0	0	0	0	5	13	14	16	0	0	0	3
	2100	7	0	0	1	0	0	1	10	11	19	0	0	0	4
NUKHAIB	0600	10	1	3	2	2	1	5	5	1	20	9	0	0	8
	0900	5	3	5	3	4	0	7	2	1	23	6	0	0	8
	1200	9	0	4	2	6	0	4	5	0	26	4	0	0	7
	1500	6	2	4	2	5	0	5	5	1	26	3	0	0	7
	1800	9	1	4	1	5	0	5	5	0	29	1	0	0	5
HAI	0000	8	0	0	1	0	0	8	6	7	21	2	0	0	6
	0300	3	0	1	0	2	0	7	11	6	23	1	0	0	5
	0600	7	0	3	0	1	1	6	11	1	28	1	0	0	6
	0900	6	1	2	1	2	0	5	11	2	19	9	0	0	8
	1200	5	1	1	1	2	0	9	11	0	22	7	1	0	9
	1500	4	0	3	0	1	1	8	12	1	23	6	0	0	7
	1800	7	1	1	0	1	0	4	12	4	21	5	0	0	6
	2100	8	1	1	0	0	0	7	10	3	22	5	0	0	7

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	0000	5	2	0	0	0	1	2	11	9	21	0	0	0	3
	0300	5	2	0	0	0	0	6	11	6	24	0	0	0	3
	0600	5	1	0	1	0	1	4	14	4	26	0	0	0	3
	0900	7	2	0	3	0	0	2	11	5	25	0	0	0	3
	1200	6	4	1	3	0	1	3	8	4	26	0	0	0	4
	1500	7	5	1	2	0	0	3	7	5	25	0	0	0	3
	1800	6	3	2	1	0	0	0	8	10	20	0	0	0	3
	2100	6	3	2	1	0	0	3	6	9	21	0	0	0	3
DIWANIYA	0000	8	5	1	1	0	0	3	3	9	20	1	0	0	5
	0300	6	3	1	0	0	0	6	4	10	20	0	0	0	3
	0600	5	0	2	0	1	1	10	8	3	26	1	0	0	5
	0900	8	1	0	2	0	2	6	5	6	24	0	0	0	5
	1200	6	1	1	1	1	2	6	7	5	21	4	0	0	6
	1500	3	1	0	0	3	0	10	8	5	25	0	0	0	4
	1800	5	1	3	0	0	0	4	5	12	18	0	0	0	3
	2100	11	4	0	0	1	0	3	4	7	23	0	0	0	4
NASIRIYA	0000	4	0	0	1	1	0	7	6	11	17	2	0	0	3
	0300	1	0	0	1	0	1	8	6	13	16	1	0	0	2
	0600	2	0	0	1	0	2	15	5	5	23	2	0	0	4
	0900	2	1	1	0	2	2	14	8	0	27	3	0	0	6
	1200	2	0	3	0	0	2	5	16	2	25	3	0	0	7
	1500	2	0	3	2	0	0	5	9	9	21	0	0	0	3
	1800	5	0	2	2	0	0	7	4	10	20	0	0	0	3
	2100	3	0	0	3	0	0	4	9	11	19	0	0	0	3
BASRAH	0000	7	1	0	0	3	1	11	6	1	29	0	0	0	4
	0300	4	0	0	1	2	2	14	6	1	29	0	0	0	4
	0600	4	1	0	0	2	2	12	9	0	29	1	0	0	5
	0900	9	0	0	1	1	1	1	17	0	27	3	0	0	6
	1200	10	0	0	1	2	0	1	16	0	28	2	0	0	7
	1500	9	3	1	1	1	0	3	12	0	30	0	0	0	5
	1800	13	2	0	2	1	0	1	11	0	30	0	0	0	4
	2100	11	0	0	2	2	1	8	6	0	29	1	0	0	4

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)		DIRECTION	TIME GMT.	DAY
SINJAR	25	Knots	350	1800	25th
MOSUL	15		310	1200	10th
SALAHADDIN	25		180	1200	10th
KIRKUK	22		050	0600	12th
ANAH	22		040	0300	15th
RUTBAH	30		210	1500	30th
HABBANIYA	15		32	0600	9th
BAGHDAD	16		310	0900	11th
NUKHAIB	18		170	1500	8th
HAI	22		250	1200	25th
NAJAF	10		340	1800	15th
DIWANIYA	13		070	0600	16th
NASIRIYA	17		140	0300	16th
BASRAH	15		300	1200	12th

SEPTEMBER 1969. TABLE 12a. (9)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2						tr.	
3							
4							
5							
6							
7							
8						tr.	
9							
10	tr.						
11		tr.					
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28					tr.	tr.	
29				tr.		tr.	
30					tr.	tr.	
TOTAL	tr	tr	0.0	tr	tr	tr	0.0
NORMAL	0.3	0.4	2.4	0.2	0.0	0.5	0.1

STATION	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
SINJAR	2.7 mms.	23rd	1963
MOSUL	7.1	29th	1957
SALAHADDIN	17.0	28th	1955
KIRKUK	3.2	24th	1942
RUTBAH	15.0	12th	1957
HABBANIYA	6.4	25th	1951

SEPTEMBER 1969. TABLE 12b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH	ZALHO	GUAIR
1									
2									
3									
4									
5									
6									
7									
8									
9									
10								3.6	
11									
12									
13									
14									
15									
16									
17									
18									
19									1.0
20									
21									
22									0.5
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.5
NORMAL	0.1	0.0	0.0	0.0	0.0	0.0	0.0	xxx	xxx

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	6.2 mms.	28th	1965
NUKHAIB	3.0	24th	1966
HAI	tr.	12th	1965
NAJAF	2.0	28th	1965
DIWANIYA	tr.	29th	1966
NASIRIYA	0.2	7th	1951
BASRAH	0.4	12th	1938

SEPTEMBER 1969. TABLE 13.

DAILY GRASS MINIMUM TEMPERATURE °C AND SOIL TEMPERATURE °C OF 0.3M & 1.2M.

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	18.0	24.3	28.4	30.9	18.9	33.8	31.8	15.3	33.7	31.6	36.3	34.5	24.2	35.7	32.1	20.5
2	16.0	24.2	28.5	30.6	20.0	34.0	31.8	13.0	32.8	31.5	36.4	34.6	23.0	36.0	31.7	xxxx
3	16.0	23.3	29.3	30.8	22.0	33.3	31.8	15.0	35.0	31.5	36.1	34.5	24.2	35.1	31.9	17.0
4	16.5	19.6	28.4	30.6	21.1	33.4	31.7	14.6	33.0	31.5	36.3	34.7	22.4	34.8	32.2	18.0
5	18.0	19.7	28.1	30.5	20.3	33.4	31.7	14.2	32.6	31.3	36.0	34.5	25.3	35.0	31.9	19.5
6	16.5	20.4	28.4	30.5	20.6	33.3	31.8	16.0	33.0	31.4	36.4	34.4	23.8	34.7	32.1	18.0
7	15.0	22.2	29.1	30.5	21.7	33.3	31.6	16.5	33.0	31.3	36.5	34.4	24.3	34.8	32.0	18.7
8	16.2	19.6	28.3	30.5	23.2	33.4	31.6	19.0	35.3	31.3	36.7	34.6	25.7	34.8	32.0	17.9
9	17.4	21.6	28.1	30.4	23.9	33.5	31.8	17.5	33.4	32.0	36.1	34.4	24.9	35.2	32.1	18.0
10	18.5	19.4	27.8	30.3	21.4	33.3	31.5	16.0	32.7	31.4	35.9	34.6	25.7	35.2	32.1	18.6
11	16.0	14.5	27.7	30.1	20.9	33.0	31.5	15.0	32.4	31.4	35.4	34.4	24.8	34.9	32.0	20.5
12	17.4	20.0	26.6	30.1	17.2	32.6	31.6	14.4	31.6	31.2	34.8	34.4	22.2	34.1	31.9	17.5
13	13.8	19.5	25.8	30.0	19.5	32.1	31.5	15.4	31.1	31.4	34.0	34.3	20.3	32.0	31.6	15.8
14	16.0	20.6	25.5	29.8	15.5	31.8	31.5	9.5	30.4	31.4	33.4	34.1	19.3	32.5	31.8	14.5
15	15.5	17.5	25.4	29.6	16.3	31.5	31.5	12.8	30.5	31.2	33.0	33.8	21.0	32.4	31.8	15.5
16	14.7	20.0	25.6	29.5	17.0	31.4	31.4	16.3	31.0	31.2	33.2	33.8	27.3	32.8	31.8	xxxx
17	12.0	15.5	25.8	29.4	18.4	31.5	31.2	14.5	31.8	31.0	33.8	33.7	22.8	32.4	31.7	21.3
18	14.3	17.4	26.1	28.8	19.2	31.5	31.2	15.0	31.8	31.0	33.7	33.6	22.5	32.9	31.7	17.0
19	14.5	17.5	26.6	29.2	15.0	31.5	31.0	14.5	32.0	31.0	33.6	33.4	22.0	32.6	31.5	19.0
20	14.5	16.8	26.9	29.4	19.1	31.5	31.0	15.0	32.3	31.0	33.5	33.3	20.9	32.0	31.7	17.6
21	13.0	18.6	27.2	29.2	19.5	31.4	31.0	14.5	31.8	31.0	33.3	33.3	22.5	32.3	31.5	17.0
22	12.0	16.5	27.1	29.0	16.5	31.2	31.0	11.5	31.2	31.0	33.2	33.3	22.3	32.1	31.4	15.0
23	14.5	16.1	27.1	29.1	17.5	31.0	30.8	13.5	31.3	30.8	33.2	33.3	22.4	32.0	31.4	15.6
24	12.0	20.0	27.3	29.0	19.8	31.0	30.8	19.0	32.0	31.0	33.3	33.4	23.6	32.1	31.4	17.9
25	12.0	16.3	27.5	29.0	18.4	30.7	30.7	14.5	31.3	30.8	32.8	33.0	22.7	32.8	31.3	17.0
26	11.4	16.0	26.6	28.9	18.9	31.0	30.6	14.5	31.4	30.8	32.9	32.8	21.0	32.3	31.1	14.6
27	11.5	15.2	25.1	28.9	17.8	30.8	30.8	17.8	31.8	30.8	32.8	32.9	21.0	33.3	31.3	17.5
28	7.2	16.5	25.0	28.9	18.6	30.6	30.6	15.0	31.2	30.8	32.6	32.8	19.9	32.0	31.1	15.8
29	9.2	17.1	25.2	28.9	21.4	30.6	30.6	16.0	31.1	30.8	32.5	32.6	21.9	31.8	31.1	16.9
30	11.4	20.5	25.0	28.6	19.5	30.5	30.5	16.3	31.3	30.8	32.4	32.7	22.0	31.8	31.0	15.6
MEANS	14.4	18.9	27.0	29.7	20.3	32.1	31.2	15.1	32.1	31.1	34.3	33.8	22.9	33.4	31.7	17.4

SEPTEMBER 1969. TABLE 14 . (12)

TIME G.M.T. DAILY EVAPORATION(MILLIMETERS) IN PAN CLASS A. AT 06oo.

DAYS	MOSUL	KIRKUK	ANAH	RUTBAH	BAGHDAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	12	13	9	21	10	23	9	8	8	8
2	12	12	11	20	8	23	10	8	8	6
3	13	11	11	20	12	22	10	9	8	7
4	11	12	12	20	12	23	9	7	9	5
5	12	11	14	22	10	24	11	8	10	7
6	12	11	8	20	9	24	13	9	9	7
7	13	12	12	20	9	25	12	8	9	6
8	12	10	12	18	12	25	10	8	8	6
9	12	10	10	18	12	20	8	7	9	4
10	10	10	10	15	10	1[illegible]	12	7	8	8
11	11	13	11	15	10	18	8	8	9	7
12	10	10	10	15	13	17	6	8	9	5
13	11	10	12	15	11	18	8	8	7	4
14	11	8	8	14	9	17	6	6	7	6
15	12	8	6	16	8	18	6	6	8	3
16	12	8	7	15	10	18	9	5	7	5
17	13	9	10	16	8	19	8	6	8	4
18	11	8	9	15	10	20	10	7	8	5
19	12	8	10	14	13	18	12	5	8	7
20	11	8	13	17	12	17	9	7	8	7
21	15	9	12	16	8	17	12	6	8	5
22	7	8	12	15	9	18	10	6	8	5
23	10	9	11	15	10	20	6	5	7	6
24	10	8	8	15	9	17	4	4	8	7
25	10	8	6	16	8	18	5	5	8	7
26	12	9	8	15	9	17	6	6	8	6
27	9	8	6	14	8	17	6	5	7	6
28	10	8	8	14	8	19	4	4	6	4
29	5	7	6	14	7	19	6	6	6	6
30	9	7	7	14	8	20	5	6	5	8
TOTAL	330	283	289	495	292	589	250	198	236	177
MEAN	11.0	9.4	9.6	16.5	9.7	19.6	8.3	6.6	7.9	5.9

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISEN	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION - HOURS MONTH TOTAL HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	0	1	0	0	0	13	0	-	-	-
MOSUL	0	0	0	0	0	0	7	1	3	0	0	15	0	324.9	12.5 12th	0
SALAHADDIN	0	0	0	0	0	0	2	1	0	0	0	18	0	-	-	-
KIRKUK	0	0	0	0	0	0	9	3	2	0	0	23	0	-	-	-
ANAH	0	0	0	0	0	0	0	2	1	1	0	20	0	-	-	-
RUTBAH	0	0	0	2	0	0	0	5	6	0	0	21	0	-	-	-
HABBANIYA	0	0	0	0	0	0	3	1	1	0	0	25	0	345.0	12.5 1st	0
BAGHDAD	0	0	0	0	0	0	28	1	0	0	0	24	0	320.6	12.0 1st	0
NUKHAIB	0	0	0	0	0	0	0	0	2	0	0	21	0	-	-	-
HAI	0	0	0	0	0	0	0	6	0	0	0	25	0	-	-	-
NAJAF	0	0	0	0	0	0	1	0	2	0	0	23	0	-	-	-
DIWANIYA	0	0	0	0	0	0	8	0	0	0	0	26	0	-	-	-
NASIRIYA	0	0	0	0	0	0	10	4	8	0	0	26	0	-	-	-
BASRAH	0	0	0	0	0	0	0	0	2	0	0	26	0	327.6	12.0 1st	0

TABLE 15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT M.S.L. AND RELATIVE HUMIDITY

STATION	PRESSURE AT MSL - mbs. for 1969. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT M.S.L. -mbs. - RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1969 HIGH	TIME EST GMT.	DAY	LOW	TIME EST GMT.	DAY
SINJAR	1015.0	0300	30th	1000.8	1500	7th	1016.5	0900	29th	1964	992.6	1200	11th	1961	55%	0300	21st	14%	1500	2nd
MOSUL	1016.0	0600	30th	999.8	1500	7th	1018.7	0600	30th	1938	997.2	1500	1st	1955	86	0300	20th	9	1200	3rd
SALAHADDIN	1014.6	0300	29th	998.7	1500	7th	1013.1	1800	24th	1968	998.7	1500	7th	1969	59	1800	10th	12	0900	6th
KIRKUK	1014.3	0600	29th	999.7	1500	7th	1017.1	0300	29th	1962	995.5	1500	1st	1955	45	0300	11th	6	1200	22nd
ANAH	1015.3	0600	30th	1001.6	1800	7th	1015.3	0600	30th	1969	1008.6	1800	7th	1969	60	0300	9th	8	1200	27th
RUTBAH	1012.8	0600	21st	1001.6	1200	7th	1023.2	0200	30th	1938	997.9	1200	1st	1955	66	0300	10th	7	1500	14th
HABBANIYA	1013.9	0600	30th	1000.2	1500	8th	1016.1	0600	29th	1962	998.2	1500	12th	1965	76	0300	14th	13	1200	3rd
BAGHDAD	1013.7	0600	29th	1000.3	1200	7th	1017.5	0600	30th	1938	996.5	1500	1st	1955	60	0300	10th	10	1200	6th
NUKHAIB	1013.1	0600	30th	1001.2	1800	8th	1015.9	0600	30th	1964	999.1	1500	1st	1964	26	0600	28th	3	1200	1st
HAI	1012.4	0600	29th	1000.4	1200	7th	1016.3	0600	29th	1962	995.5	1500	3rd	1956	62	0000	27th	17	1200	4th
NAJAF	1013.7	0600	29th	1000.0	1500	7th	1014.8	0600	25th	1966	998.0	1500	3rd	1963	44	0000	16th	6	1200	8th
DIWANIYA	1013.5	0600	29th	1001.1	1200	7th	1015.7	0600	29th	1962	995.2	1500	3rd	1956	65	0300	10th	9	1200	4th
NASIRIYA	1012.8	0600	29th	999.7	1800	7th	1016.1	0600	29th	1962	995.1	0600	8th	1948	75	0000	17th	10	1200	26th
BASRAH	1011.8	0600	29th	1000.0	1500	7th	1016.7	0600	29th	1962	995.7	0300	1st	1955	52	0000	29th	22	0600	9th

SEPTEMBER 1969. TABLE 16.

STATION BAGHDAD: RADIOSONDE TIME 0000 GMT. UPPER AIR CLIMATOLOGICAL DATA

PRESSURE SURFACE mb.	HEIGHT OF PRESSURE (GPM.)				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND DIRECTION	AVERAGE VECTOR WIND SPEED KNOTS	MAX. SPEED DIRECTION	MAX. SPEED SPEED KTS	MIN. SPEED DIRECTION	MIN. SPEED SPEED KTS
1000	30	70	116	25	28	27.0	32.2	25.2	28	11.6	28	030	06	020	13	000	00
850	30	1511	1550	1475	30	23.0	28.8	18.0	30	1.0	30	290	05	210	26	000	00
700	30	3160	3206	3100	30	9.6	13.5	5.3	29	-8.6	30	280	11	260	27	000	00
500	30	5849	5926	5777	30	-9.9	-5.6	-13.6	30	-27.4	30	270	21	260	40	000	00
300	30	9591	9739	9466	30	-35.7	-29.5	-41.3	29	-50.1	30	250	31	230	60	290	14
200	30	12304	12516	12119	30	-47.4	-45.7	-61.1	23	-65.0	30	250	44	270	96	250	10
150	29	14129	14343	13889	29	-61.4	-52.0	-69.5	4	-69.0	28	240	40	230	90	210	06
100	28	16509	16847	16506	28	-66.2	-61.0	-70.3	-	-	26	250	28	240	82	180	04
70	27	18730	18975	18272	27	-64.2	-57.8	-74.1	-	-	21	250	16	230	50	060	07

NOTE : N = Total number of observations.

SEPTEMBER 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREESING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.

STATION: BAGHDAD RADIOSONDE STATION TIME 0000 GMT.

TIME OF OBS. GMT.	FREESING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST						
		HEIGHT "GPM"	PRESSURE mb.	DEW - POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C		HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	DIRECTION 000 - 360	SPEED " KNOTS"
0000	30	4460	600	-16.0	5020	655	-4.0	3670	556	-28.0	29	15930	110	-69.0	18220	148	-60.0	14100	80	-82.0	13300	175	240	110

NOTE : N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

مديرية احصاءات المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٢

العدد : ١٠

الشهر : تشرين الاول

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 32

No. : 10

Month : OCTOBER

YEAR : 1 9 6 9

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures & Records	1a-c	1-3
Monthly mean dry-bubl-temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb-temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation	12a-e	9-13
Daily grass minimum and soil temperatures	13	14
= evaporation	14	15
Number of days for the cases of phenomena & duration of sunshine	15a	16
Highest, lowest & records of pressure at M.S.L. and relative humidity	15b	16
Upper air climatological data at BAGHDAD	16	17
Mean and extreme values of freezing level, the tropopause and the maximum wind speed in upper at Baghdad	17	18

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE: JANUARY 1965.

OCTOBER 1969. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	35.0	19.0	38.6	16.6	31.7	21.1	39.7	23.2	40.3	20.0
2	35.1	19.8	38.3	21.4	32.1	22.3	40.5	24.2	40.3	24.9
3	32.3	20.1	37.4	23.4	30.7	20.4	38.0	22.8	36.0	21.8
4	30.5	19.8	34.2	18.5	30.1	20.8	39.9	24.0	39.0	22.4
5	32.8	20.7	35.5	23.5	30.2	20.8	38.0	25.1	39.6	23.6
6	33.6	20.0	37.4	19.5	31.1	21.3	38.3	25.1	39.2	18.9
7	30.1	19.3	30.5	24.4	26.2	19.4	35.0	26.4	33.6	22.5
8	28.6	15.8	31.0	16.4	24.0	15.0	30.9	20.8	32.7	19.5
9	27.5	13.6	30.0	18.5	26.4	12.4	33.2	20.0	31.1	20.3
10	30.5	17.3	33.8	15.6	27.0	17.5	34.7	[illegible]	34.8	18.5
11	31.0	18.0	35.0	15.9	28.0	18.4	35.1	20.2	35.8	17.1
12	32.0	17.8	36.5	15.5	29.4	19.0	36.1	18.5	38.5	16.2
13	23.6	16.1	24.2	16.5	22.4	17.4	31.0	22.5	34.0	20.1
14	27.1	14.0	32.2	14.9	25.0	13.0	34.1	20.4	33.8	18.4
15	27.3	15.1	28.2	17.4	23.0	15.4	30.6	21.6	30.4	18.4
16	25.1	13.8	30.4	17.2	23.2	14.0	31.7	16.2	30.0	16.7
17	25.5	14.2	29.5	14.5	23.6	14.6	30.2	17.0	30.7	14.1
18	25.8	13.3	29.5	15.2	23.2	14.0	30.9	17.5	29.5	15.0
19	19.3	12.3	24.3	13.9	18.8	10.8	30.7	16.7	27.3	17.6
20	18.8	12.1	22.0	15.2	17.2	13.0	26.1	15.8	23.4	13.9
21	23.1	11.2	28.0	15.8	20.7	12.0	30.6	19.2	28.5	13.0
22	21.5	11.5	24.8	17.0	19.2	12.0	28.9	16.9	24.2	16.3
23	23.6	12.8	26.2	14.8	22.6	12.8	29.0	15.2	26.5	14.2
24	19.6	12.1	24.3	13.2	18.6	12.4	27.5	15.4	24.7	14.1
25	20.1	10.0	26.0	12.2	19.9	10.4	26.8	12.8	25.5	10.2
26	22.5	11.1	27.5	10.0	21.7	11.7	28.1	12.8	27.8	11.5
27	23.6	12.2	27.4	12.0	21.6	16.7	28.5	15.5	28.9	12.0
28	21.7	10.8	27.0	11.4	18.0	10.8	26.5	15.0	26.1	14.1
29	18.5	10.2	22.0	7.3	14.1	8.6	21.8	14.2	23.5	12.0
30	18.8	8.1	22.0	6.0	16.4	4.6	22.9	5.0	20.8	4.8
31	19.6	6.2	23.8	5.8	13.3	8.3	24.3	8.9	23.4	0.8
MEANS	25.9	14.5	29.6	15.4	23.7	14.9	31.6	18.3	31.0	16.2
NORMAL	....	....	31.6	10.8	....	....	31.6	17.0	....	....
HIGHEST	36.6	23.8	41.3	24.4	32.1	23.0	41.4	26.4	40.3	24.9
DAY	21st	17th	3&4	7th	2nd	8th	2nd	7th	1&2	2nd
YEAR	1962	1964	1952	1969	1969	1968	1953	1969	1969	1969
LOWEST	14.8	6.2	16.7	0.0	14.1	4.6	18.2	1.1	20.8	0.8
DAY	12th	31st	30th	25th	29th	30th	27th	29th	30th	31st
YEAR	1967	1969	1953	1947	1969	1969	1965	1946	1969	1969

OCTOBER 1969. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

DAYS	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	40.5	24.5	40.5	21.0	40.0	21.0	40.1	20.6	41.6	23.4
2	38.0	23.5	41.3	22.0	42.0	22.0	40.2	23.2	42.6	23.1
3	35.0	19.9	36.0	25.0	39.7	23.4	38.2	24.5	39.0	22.4
4	37.2	22.2	38.7	21.0	40.4	23.4	39.0	23.0	41.0	20.5
5	37.4	21.5	39.0	22.5	38.2	23.5	38.5	23.0	40.8	20.5
6	37.0	19.0	41.0	22.5	39.1	23.6	40.6	19.2	40.2	21.2
7	32.3	19.2	39.0	25.7	35.2	23.0	34.4	24.4	39.0	20.2
8	31.0	19.3	32.0	21.5	33.1	24.0	31.8	22.5	38.2	23.7
9	29.0	16.4	36.0	23.0	35.2	23.2	33.5	20.0	40.2	20.4
10	32.0	14.6	35.0	20.6	36.3	22.6	38.0	19.0	39.0	20.4
11	34.6	14.8	39.0	19.0	36.0	20.2	34.6	17.5	37.4	22.0
12	36.5	18.0	36.1	19.4	36.4	17.5	36.3	16.6	38.8	22.4
13	31.6	16.7	34.5	20.5	34.6	18.3	35.5	17.5	37.5	19.0
14	32.0	16.3	34.8	20.0	35.4	22.0	34.0	17.5	38.4	18.3
15	30.0	14.0	31.5	21.6	31.2	22.5	31.8	20.6	38.4	19.4
16	28.6	15.2	32.5	20.5	33.6	20.6	31.0	17.4	35.4	18.0
17	30.0	14.0	31.3	18.5	32.2	22.1	31.4	16.3	36.0	21.4
18	30.5	14.8	30.6	17.3	31.2	16.7	32.5	16.4	35.3	20.8
19	27.7	15.3	32.5	18.3	32.9	20.2	32.4	18.0	33.0	21.2
20	27.0	14.0	29.5	16.0	31.0	16.5	30.4	14.5	36.8	22.0
21	26.7	12.4	32.5	18.0	34.8	22.4	30.0	15.4	37.5	22.4
22	22.5	12.6	32.5	19.0	32.4	18.8	28.0	16.8	36.7	22.4
23	26.4	12.1	29.7	19.0	29.6	18.4	29.0	15.9	33.8	23.6
24	23.5	10.6	27.2	17.2	29.7	17.0	28.0	15.2	35.2	20.3
25	25.0	10.4	26.5	15.0	26.6	13.5	26.8	13.9	32.0	19.0
26	26.0	14.8	29.0	15.5	29.8	15.5	28.0	17.2	34.0	18.2
27	26.6	11.2	31.3	15.0	30.6	18.8	29.4	13.5	34.0	17.8
28	24.5	11.0	27.5	15.3	28.1	13.6	28.0	13.2	31.0	15.8
29	21.5	11.2	27.3	15.0	29.0	14.4	27.6	13.8	29.3	16.2
30	19.9	2.8	20.7	7.5	22.8	9.6	19.2	7.5	27.0	13.0
31	22.0	4.6	23.5	5.7	24.8	3.5	22.0	6.1	27.9	9.5
MEANS	29.8	15.1	32.7	18.7	33.3	19.1	32.2	17.5	36.4	20.0
NORMAL	30.0	12.6	33.5	16.1	33.9	16.2	....	....	35.1	17.2
HIGHEST	40.5	24.5	42.2	25.7	42.0	25.0	40.6	24.5	43.9	26.7
DAY	1st	1st	2nd	7th	2nd	1st	1&6	3rd	3rd	2nd
YEAR	1969	1969	1953	1969	1969	1951	1969	1969	1947	1951
LOWEST	15.5	0.6	20.0	5.6	20.0	3.5	19.2	6.1	19.0	6.7
DAY	20th	19th	28th	29th	14th	31st	30th	31st	29th	15th
YEAR	1965	1948	1965	1946	1948	1969	1969	1969	1965	1948

OCTOBER 1969. TABLE 1e. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	42.2	23.8	41.3	22.3	41.5	24.6	39.4	24.0
2	43.0	24.0	41.0	25.0	41.7	23.9	37.3	20.9
3	41.0	25.4	40.2	24.2	38.7	23.4	39.8	26.2
4	40.5	24.2	38.7	22.0	36.5	24.3	40.2	25.1
5	39.0	24.2	38.6	20.3	37.9	22.2	41.5	23.1
6	42.4	22.2	41.0	19.4	42.2	24.0	42.6	24.6
7	37.5	21.4	37.0	20.5	37.7	23.5	39.0	22.7
8	34.4	24.0	35.0	19.8	36.5	23.0	39.8	23.3
9	39.6	23.4	39.0	19.5	38.2	23.0	37.9	22.2
10	36.6	21.2	37.6	21.0	38.1	20.9	37.7	21.6
11	37.0	22.5	36.4	20.0	36.9	21.0	35.1	20.5
12	39.2	22.0	36.4	19.4	36.8	22.0	35.0	22.6
13	39.4	21.0	36.4	15.7	37.7	19.5	35.4	19.5
14	36.5	20.0	35.0	17.0	36.7	20.2	36.5	19.2
15	34.5	21.2	35.8	21.1	35.8	20.6	38.5	19.9
16	35.4	20.2	35.1	20.2	34.5	17.8	38.5	25.4
17	34.4	20.0	34.4	19.2	34.2	19.6	35.2	23.9
18	33.4	19.8	34.0	19.7	33.7	22.2	34.0	23.9
19	35.2	21.2	33.2	19.0	34.1	22.0	37.4	21.2
20	34.2	20.4	34.9	17.2	35.1	21.9	37.8	25.7
21	37.4	21.6	36.8	21.0	36.0	21.2	39.2	24.4
22	33.8	20.4	35.0	20.8	35.0	23.3	39.0	24.2
23	33.2	21.5	32.8	22.2	34.9	22.2	36.4	22.5
24	34.2	20.5	32.5	20.6	34.0	20.8	38.1	23.2
25	29.8	16.2	30.3	17.0	32.2	19.7	33.5	19.9
26	31.6	17.0	32.3	18.5	33.4	18.6	34.2	19.3
27	32.5	18.4	32.8	18.0	32.8	18.1	33.5	19.6
28	31.5	18.2	29.2	13.8	30.3	17.0	31.1	16.8
29	30.4	16.2	29.9	15.6	29.6	17.2	32.7	17.6
30	23.6	11.0	24.0	11.5	25.7	15.1	28.1	19.6
31	25.4	7.0	26.2	4.1	25.3	9.6	28.0	14.9
MEANS	35.4	20.4	34.9	18.9	35.3	20.0	36.6	21.9
NORMAL	....	....	34.6	15.1	35.6	16.5	34.8	17.7
HIGHEST	43.0	25.4	43.9	25.0	43.9	26.7	45.6	26.6
DAY	2nd	3rd	2nd	2nd	1st	3rd	1st	23rd
YEAR	1969	1969	1947	1969	1951	1940	1951	1963
LOWEST	22.8	7.0	23.6	2.8	19.0	7.8	21.6	6.1
DAY	28th	31st	29th	18th	29th	30th	27th	6th
YEAR	1965	1969	1965	1948	1965	1948	1965	1941

OCTOBER 1969. TABLE 2.

DRY BULB TEMPERATURES (°C) MONTHLY MEANS TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	18.1	21.3	24.2	25.7	21.3	21.6	....	22.5
MOSUL	17.7	16.7	20.6	27.[illegible]	29.7	25.4	21.4	18.0	22.1
SALAHADDIN	....	16.7	18.7	22.[illegible]	22.4	20.0	17.4	....	19.5
KIRKUK	20.6	19.6	24.3	29.[illegible]	30.5	26.6	23.4	21.6	24.6
ANAH	18.3	17.1	20.7	27.4	30.4	27.6	22.5	....	23.4
RUTBAH	17.5	15.[illegible]	20.[illegible]	26.5	29.1	26.2	21.8	18.9	22.1
HABBANIYA	20.3	19.5	25.3	30.7	32.1	27.3	23.6	21.9	25.1
BAGHDAD	21.9	21.[illegible]	24.6	31.[illegible]	32.[illegible]	29.[illegible]	24.6	23.1	26.1
NUKHAIB	....	....	23.2	30.[illegible]	31.[illegible]	30.[illegible]	24.[illegible]	....	23.[illegible]
HAI	22.1	20.2	27.5	34.2	35.2	29.1	25.5	23.1	27.[illegible]
NAJAF	22.[illegible]	21.[illegible]	25.2	32.5	34.9	31.[illegible]	26.8	24.3	27.3
DIWANIYA	20.9	19.7	26.6	32.9	34.3	29.7	24.9	22.2	26.3
NASIRIYA	22.9	21.3	22.[illegible]	33.3	34.[illegible]	30.[illegible]	27.1	24.[illegible]	27.7
BASRAH	23.5	22.5	27.9	34.[illegible]	35.5	29.9	26.9	24.9	28.1

TABLE 3. VAPOUR PRESSURE (MBS.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	11.1	11.8	12.1	12.2	11.9	11.5	....	11.[illegible]
MOSUL	12.6	12.9	14.[illegible]	14.2	13.1	13.5	13.0	12.5	13.2
SALAHADDIN	....	9.4	9.9	10.5	10.3	10.1	9.6	....	10.[illegible]
KIRKUK	10.5	10.7	11.6	11.2	10.3	10.8	11.2	10.6	10.9
ANAH	13.9	13.[illegible]	13.9	13.9	14.1	14.4	13.3	....	13.7
RUTBAH	11.5	11.4	12.[illegible]	10.[illegible]	10.1	10.3	10.7	11.2	11.[illegible]
HABBANIYA	15.3	15.2	16.7	13.4	16.2	16.7	16.0	15.5	15.6
BAGHDAD	12.7	12.1	13.9	13.6	12.6	14.1	13.4	12.8	13.2
NUKHAIB	....	....	10.3	9.5	8.9	8.9	9.3	....	9.4
HAI	14.7	14.3	17.7	17.2	16.3	17.0	15.4	14.9	15.9
NAJAF	12.7	12.5	12.9	13.1	11.9	13.4	13.7	13.2	12.9
DIWANIYA	13.0	13.1	15.3	15.6	15.8	16.1	14.3	13.7	14.6
NASIRIYA	15.5	14.2	15.6	14.1	13.7	17.0	17.4	16.6	15.5
BASRAH	21.8	20.6	21.5	20.6	19.9	22.5	22.5	23.1	21.6

TABLE 4. MONTHLY MEAN WET BULB TEMPERATURES (°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	12.5	14.3	15.5	16.2	15.2	14.3	....	14.7
MOSUL	13.7	13.3	15.5	18.3	18.4	18.3	15.4	14.1	15.9
SALAHADDIN	....	11.4	12.7	14.4	14.3	13.3	11.9	....	13.0
KIRKUK	13.7	13.4	15.9	17.9	17.7	16.4	15.3	14.1	15.6
ANAH	14.0	13.5	15.6	18.2	19.5	18.6	16.1	....	16.5
RUTBAH	12.9	12.1	14.6	16.4	17.1	16.0	14.4	13.4	14.6
HABBANIYA	16.2	15.3	18.3	20.6	20.9	19.9	17.8	16.8	18.2
BAGHDAD	15.5	14.8	17.2	19.4	19.6	19.8	17.0	16.0	17.3
NUKHAIB	....	....	14.9	17.2	17.6	16.9	15.1	....	16.3
HAI	16.5	15.9	19.3	21.8	21.7	20.0	18.1	16.9	18.8
NAJAF	15.9	15.[illegible]	16.9	19.8	20.2	19.4	17.9	15.7	17.7
DIWANIYA	15.3	14.8	18.6	21.3	21.5	19.7	17.5	16.3	18.1
NASIRIYA	17.3	16.0	18.8	20.5	20.9	20.9	19.7	18.5	19.1
BASRAH	20.4	19.4	21.8	23.4	23.6	22.6	21.9	20.4	21.7

TABLE 5. DEW-POINT (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.0	8.8	9.3	9.3	9.1	8.6	....	8.9
MOSUL	9.7	10.1	11.3	11.8	10.6	10.8	10.3	10.6	10.6
SALAHADDIN	....	5.7	5.9	7.2	6.6	6.7	6.0	....	6.4
KIRKUK	7.0	7.4	8.7	8.2	6.9	7.7	8.1	7.2	7.7
ANAH	10.3	10.4	11.4	11.3	11.6	12.0	10.8	....	11.1
RUTBAH	8.4	8.3	9.0	7.5	6.6	7.0	7.1	8.0	7.7
HABBANIYA	13.0	15.3	14.1	14.1	13.9	14.8	13.6	13.1	14.0
BAGHDAD	10.4	9.4	11.4	11.0	9.8	11.7	11.0	10.4	10.6
NUKHAIB	....	....	7.1	5.9	4.8	4.9	5.6	....	5.7
HAI	12.6	12.2	15.0	14.9	14.1	14.6	13.2	12.6	13.7
NAJAF	10.3	9.8	10.4	10.6	9.3	10.9	11.3	10.7	10.4
DIWANIYA	10.7	10.7	13.3	13.1	13.4	13.7	12.1	11.3	12.3
NASIRIYA	13.1	11.6	13.2	11.5	11.1	14.7	14.9	14.1	13.0
BASRAH	18.4	17.5	18.1	17.5	17.2	19.3	19.2	19.4	18.3

MONTHLY MEANS

RELATIVE HUMIDITY (%) — TIME G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	54	47	41	38	41	46	...	45
MOSUL	2	68	57	41	35	43	52	58	52
SALAHADDIN	...	52	48	42	39	46	50	...	46
KIRKUK	45	49	40	29	25	33	40	43	38
ANAH	53	68	58	41	35	42	51	...	51
RUTBAH	57	64	50	34	26	32	43	52	45
HABBANIYA	64	66	53	38	34	47	56	59	52
BAGHDAD	53	50	45	31	25	35	43	46	41
NUKHAIB	...	...	38	24	20	22	31	...	27
HAI	56	60	50	32	29	42	47	52	46
NAJAF	46	50	41	27	22	30	39	43	37
DIWANIYA	53	57	43	31	29	41	45	49	44
NASIRIYA	55	56	44	27	25	38	48	52	43
BASRAH	74	74	57	39	35	54	64	72	59

TABLE 7. PRESSURE (MBS.) AT M.S.L.

SINJAR	....	14.3	14.2	13.5	11.5	12.1	13.2	....	1013.1
MOSUL	13.9	14.4	15.3	14.1	12.3	12.3	13.5	14.0	1013.7
SALAHADDIN	....	14.1	13.7	12.7	11.6	12.1	13.6	....	1013.0
KIRKUK	13.2	13.4	13.8	12.5	11.2	11.7	12.9	13.3	1012.8
ANAH	13.7	14.0	14.6	14.2	12.0	12.0	13.2	....	1013.4
RUTBAH	11.9	12.5	13.3	12.4	10.9	11.3	12.1	12.2	1012.1
HABBANIYA	11.8	12.4	13.5	12.4	10.9	10.9	11.9	12.0	1012.0
BAGHDAD	11.5	11.8	13.1	12.4	11.1	10.8	11.6	11.7	1011.8
NUKHAIB	....	....	13.8	12.7	11.5	11.5	12.5	....	1012.4
HAI	10.6	11.0	12.1	11.5	10.1	10.1	10.8	10.7	1010.9
NAJAF	11.1	11.7	12.9	12.1	10.3	10.2	11.3	11.3	1011.4
DIWANIYA	11.2	11.6	12.8	11.9	10.5	10.5	11.3	11.0	1011.4
NASIRIYA	10.2	10.8	12.2	11.2	09.7	09.8	10.7	10.5	1010.6
BASRAH	10.6	11.0	12.5	11.8	10.2	10.2	11.1	11.0	1011.1

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	....	3.7	3.9	3.7	4.6	4.4	3.2	....	3.9
MOSUL	2.9	4.4	5.0	4.8	5.4	4.7	3.8	3.0	4.3
SALAHADDIN	....	3.1	4.0	3.1	4.1	4.0	2.1	...	3.4
KIRKUK	2.4	3.1	3.5	4.2	4.4	3.9	1.9	1.9	3.2
ANAH	2.0	2.1	3.1	3.1	4.0	4.0	2.0	....	2.9
RUTBAH	2.5	4.1	3.7	3.5	4.4	4.3	2.8	2.7	3.5
HABBANIYA	2.8	3.5	3.8	3.5	3.8	3.6	2.6	2.7	3.3
BAGHDAD	2.8	3.2	3.5	3.8	4.3	4.0	2.7	2.9	3.4
NUKHAIB	...	...	2.7	3.0	3.7	3.4	2.5	...	3.1
HAI	1.3	2.5	3.2	3.1	3.2	3.0	1.3	1.0	2.3
NAJAF	2.7	3.5	3.2	3.3	3.2	3.7	3.0	2.9	3.2
DIWANIYA	1.3	2.0	2.6	2.8	2.5	2.7	1.4	1.6	2.1
NASIRIYA	1.0	3.0	2.6	2.5	3.0	2.8	1.8	1.7	2.3
BASRAH	1.4	1.9	2.2	2.2	2.7	2.4	1.7	1.9	2.1

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	...	1.5	1.2	1.4	2.6	1.8	1.4	...	1.8
MOSUL	2.1	3.3	2.8	2.7	3.0	2.4	2.4	1.6	2.5
SALAHADDIN	...	3.0	3.0	2.1	3.0	2.1	1.1	...	2.4
KIRKUK	1.6	1.8	1.9	2.1	2.2	1.8	0.8	1.1	1.7
ANAH	1.0	1.0	1.1	1.0	1.0	1.1	1.0	...	1.0
RUTBAH	0.7	1.3	1.2	1.2	1.9	1.6	1.3	1.4	1.3
HABBANIYA	0.7	1.1	0.7	0.6	0.9	0.4	0.2	0.7	0.7
BAGHDAD	0.6	0.5	0.7	0.5	0.7	0.7	0.1	0.5	0.5
NUKHAIB	...	...	0.8	0.8	1.0	1.3	1.3	...	1.0
HAI	0.6	1.0	0.6	0.4	0.6	0.7	0.5	0.4	0.6
NAJAF	1.2	1.8	1.1	1.4	1.1	1.3	0.8	1.3	1.3
DIWANIYA	0.3	0.6	0.9	0.9	0.4	1.0	0.5	0.6	0.7
NASIRIYA	0.7	1.2	1.2	1.3	1.5	1.4	0.9	0.8	1.1
BASRAH	0.3	0.5	0.7	0.5	0.7	0.5	0.4	0.4	0.5

OCTOBER 1969. TABLE 10a. (6)

SURFACE WIND-NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CA-IM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	18	2	4	4	2	0	1	0	0	24	5	2	0	0
	0600	7	4	5	0	3	1	1	1	9	19	3	0	0	5
	0900	2	0	11	4	3	1	4	1	5	21	5	0	0	7
	1200	1	1	4	5	7	2	6	3	2	22	7	0	0	7
	1500	1	0	3	5	5	3	10	2	2	24	5	0	0	7
	1800	5	0	2	1	5	5	7	6	0	29	2	0	0	6
MOSUL	0000	2	1	3	1	0	0	2	4	18	13	0	0	0	2
	0300	0	0	1	1	1	0	0	4	16	15	0	0	0	2
	0600	6	0	4	0	1	0	5	8	7	24	0	0	0	4
	0900	5	1	6	2	1	0	5	4	7	24	0	0	0	3
	1200	3	2	3	4	1	1	7	5	5	26	0	0	0	4
	1500	2	0	2	3	1	0	5	3	15	16	0	0	0	2
	1800	2	0	1	1	1	0	7	7	12	19	0	0	0	3
	2100	1	1	2	1	1	0	4	6	15	15	1	0	0	3
SALAHADDIN	0300	5	2	5	3	13	1	0	0	2	28	1	0	0	4
	0600	4	2	4	3	11	1	0	1	5	23	3	0	0	5
	0900	3	0	2	2	13	8	1	1	1	28	2	0	0	6
	1200	3	1	1	0	15	7	2	1	1	26	4	0	0	6
	1500	3	2	1	0	10	9	3	2	1	29	0	1	0	5
	1800	4	3	1	0	7	3	4	2	7	24	0	0	0	3
KIRKUK	0000	0	10	3	2	0	0	0	0	16	15	0	0	0	2
	0300	0	6	2	3	0	0	0	0	18	12	1	0	0	3
	0600	0	7	3	3	1	0	2	0	15	14	2	0	0	3
	0900	1	4	0	3	1	2	5	3	12	16	1	0	0	3
	1200	2	1	0	1	3	1	8	7	8	22	1	0	0	4
	1500	2	4	0	0	0	0	4	1	20	10	1	0	0	2
	1800	2	6	0	1	0	0	0	0	22	8	1	0	0	2
	2100	1	7	2	1	0	0	1	0	19	11	0	1	0	3
ANAH	0000	2	0	1	2	2	2	6	0	16	11	3	1	0	5
	0300	1	0	0	2	3	2	7	1	15	12	4	0	0	4
	0600	1	2	3	1	0	1	13	0	10	18	3	0	0	5
	0900	2	1	6	2	3	1	12	1	3	22	5	1	0	7
	1200	2	1	6	1	2	0	13	0	6	20	5	0	0	6
	1500	2	3	3	1	1	1	14	2	4	26	1	0	0	5
	1800	1	2	3	0	3	1	7	3	11	14	6	0	0	5

SURFACE - WIND NUMBER OF OBSERVATION OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
RUTBAH	0000	4	5	2	4	0	3	5	2	6	21	3	1	0	6
	0300	5	1	3	5	1	7	1	6	2	27	2	0	0	6
	0600	4	4	1	5	7	4	3	3	0	22	9	0	0	8
	0900	1	3	4	9	4	3	3	4	0	11	19	1	0	13
	1200	1	1	4	7	5	3	4	5	1	0	20	2	0	14
	1500	5	4	2	6	4	1	4	3	0	14	15	2	0	12
	1800	7	5	5	6	3	0	2	2	1	22	5	3	0	10
	2100	7	7	2	6	2	2	2	1	2	22	5	2	0	[illegible]
HABBANIYA	0000	6	1	1	0	1	0	4	4	14	14	3	0	0	4
	0300	5	3	2	0	0	1	3	4	13	16	1	1	0	4
	0600	0	4	1	3	0	0	3	9	3	23	5	0	0	[illegible]
	0900	0	3	2	1	3	0	3	0	2	21	6	0	0	[illegible]
	1200	12	2	0	1	3	1	2	7	3	23	5	0	0	6
	1500	6	4	0	1	1	0	0	10	9	19	3	0	0	4
	1800	6	1	1	3	0	0	0	5	15	13	3	0	0	3
	2100	7	0	1	1	1	1	3	3	14	14	3	0	0	4
BAGHDAD	0000	14	2	0	1	0	0	2	7	5	22	4	0	0	6
	0300	[illegible]	5	2	1	0	0	1	9	5	19	7	0	0	7
	0600	10	2	1	4	0	2	2	6	4	21	6	0	0	9
	0900	9	6	1	3	2	0	3	7	1	21	9	0	0	10
	1200	9	2	1	3	1	3	3	7	2	23	6	0	0	9
	1500	6	3	0	3	0	0	3	9	7	21	3	0	0	5
	1800	5	2	0	1	0	0	4	11	0	20	3	0	0	5
	2100	7	1	1	0	1	0	1	10	10	15	6	0	0	6
NUKHAIB	0600	7	6	6	3	0	0	7	0	2	20	0	1	0	[illegible]
	0900	3	7	9	3	4	0	3	1	1	24	6	0	0	8
	1200	4	6	0	3	5	0	4	0	1	28	2	0	0	7
	1500	5	5	11	2	2	0	4	0	2	25	4	0	0	7
	1800	9	0	12	2	3	0	5	0	0	29	2	0	0	7
HAI	0000	4	1	4	1	0	0	9	8	4	19	0	0	0	8
	0300	8	0	3	3	0	0	5	9	3	25	3	0	0	6
	0600	14	1	7	1	1	0	1	5	1	25	5	0	0	6
	0900	10	0	9	2	1	1	1	6	1	16	13	1	0	9
	1200	7	1	7	3	0	1	2	8	2	17	12	0	0	9
	1500	7	0	4	2	0	0	2	5	11	17	3	0	0	4
	1800	6	0	3	2	1	0	4	8	7	18	5	1	0	6
	2100	5	0	4	1	0	0	5	9	7	19	5	0	0	6

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	0000	8	2	1	4	1	0	0	10	5	25	1	0	0	5
	0300	10	2	1	7	0	0	4	6	1	29	1	0	0	5
	0600	10	2	2	4	0	0	2	8	3	25	3	0	0	5
	0900	10	7	1	2	0	1	0	5	5	25	1	0	0	4
	1200	7	7	5	2	0	0	2	5	3	24	4	0	0	4
	1500	12	5	4	2	0	0	0	3	5	26	0	0	0	3
	1800	8	3	4	3	0	0	0	6	7	23	1	0	0	4
	2100	9	3	0	5	1	0	4	6	3	25	3	0	0	5
DIWANIYA	0000	12	3	0	0	2	2	5	0	7	20	4	0	0	6
	0300	12	4	3	0	0	0	7	2	3	26	2	0	0	6
	0600	9	5	3	2	0	0	4	5	3	24	4	0	0	7
	0900	9	4	1	2	2	2	3	6	2	20	9	0	0	8
	1200	8	5	0	2	0	3	5	2	6	22	3	0	0	6
	1500	7	4	0	0	0	1	2	5	12	18	1	0	0	4
	1800	11	3	3	1	0	0	3	2	8	23	0	0	0	4
	2100	8	4	2	3	1	0	3	3	7	20	4	0	0	5
NASIRIYA	0000	2	1	2	4	1	1	2	9	9	21	1	0	0	4
	0300	3	1	1	1	2	1	5	7	10	21	0	0	0	3
	0600	2	2	2	4	1	1	6	9	4	26	1	0	0	4
	0900	3	2	3	3	0	2	8	10	0	23	8	0	0	7
	1200	6	2	5	5	0	0	4	9	0	25	6	0	0	7
	1500	2	3	6	4	0	0	4	6	5	24	1	0	0	6
	1800	2	0	5	3	0	0	2	0	11	17	3	0	0	4
	2100	1	2	5	6	0	0	4	6	7	23	1	0	0	5
BASRAH	0000	7	0	1	4	8	4	4	3	0	31	0	0	0	4
	0300	5	2	2	1	12	0	6	2	1	29	1	0	0	5
	0600	2	1	1	6	6	4	3	8	0	28	3	0	0	5
	0900	4	3	2	6	5	1	0	10	0	26	5	0	0	6
	1200	6	3	5	5	2	0	1	9	0	27	3	1	0	6
	1500	11	1	2	7	2	0	2	6	0	30	1	0	0	5
	1800	8	1	1	2	11	1	2	5	0	29	2	0	0	5
	2100	2	5	1	2	8	5	11	6	1	28	2	0	0	4

TABLE 11.

STATION	HIGHEST-WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	28 knots.	360	0300	30th
MOSUL	12	290	2100	29th
SALAHADDIN	25	030	1500	4th
KIRKUK	25	250	2100	18th
ANAH	30	200	0000	7th
RUTBAH	32	360	2100	8th
HABBANIYA	25	290	0300	7th
BAGHDAD	20	280	0300	7th
NUKHAIB	28	080	0600	9th
HAI	23	090	0900	19th
NAJAF	22	120	0000	22nd
DIWANIYA	20	360	0300	22nd
NASIRIYA	17	120	1200	23rd
BASRAH	23	270	1200	29th

OCTOBER 1969. TABLE 12a. (9) DAILY PRECIPITATION mm tr <0.5m

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3		tr.				tr.	
4							
5						tr.	
6		tr.			tr.	tr.	
7	tr.			tr.			
8		1.6	1.0		tr.	tr.	1.0
9				tr.	tr.	tr.	
10							
11							
12	tr.						
13	tr,	0.5	5.2				
14		0.8	1.6		7.3	tr.	
15	4.0	3.0		tr.			
16							
17						tr.	tr.
18	1.6	5.6	3.6	3.8	4.3	tr.	tr.
19		0.4			1.3	tr.	
20		0.6	9.6	tr.	0.1	0.4	tr.
21		1.8	tr.	4.9	0.6	0.8	tr.
22		tr.	3.4	0.5	4.9	5.7	0.1
23				0.2			tr.
24							
25							tr.
26		1.6	1.0	1.7			tr.
27							
28				tr.			
29				tr.			
30							
31							
TOTAL	5.6	15.9	25.4	11.1	18.5	6.9	1.1
NORMAL	11.1	7.1	5.4	3.3	4.5	5.0	1.7

STATION	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
SINJAR	35.0 mms.	29th	1937
MOSUL	30.2	22nd	1963
SALAHADDIN	35.2	25th	1968
KIRKUK	19.3	24th	1966
ANAH	10.0	18th	1941
RUTBAH	30.1	27th	1937
HABBANIYA	15.2	20th	1942

OCTOBER 1969. TABLE 12b. (1) DAILY PRECIPITATION mm tr. <0.05

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7	tr.	tr.		tr.			
8	tr.	tr.					
9							
10							
11							
12							
13							
14	0.2						
15							
16							
17	tr.						
18	0.2	tr.			tr.		
19					tr.		
20	tr.	tr.	tr.				tr.
21	13.1	1.8		3.3			
22	1.0		tr.	tr.	tr.	tr.	tr.
23			0.5	tr.	tr.	tr.	
24							
25			tr.		tr.		
26			tr.				
27							
28				tr.	tr.		
29	0.6		tr.			tr.	2.2
30							
31		tr.		2.5	tr.		
TOTAL	15.7	1.8	0.5	5.8	tr.	tr.	2.2
NORMAL	3.0	1.7	1.8	0.6	1.3	1.3	0.8

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	22.3 mms	24th	1966
NUKHAIB	10.0	25th	1937
HAI	10.8	28th	1965
NAJAF	23.5	24th	1966
DIWANIYA	16.2	24th	1966
NASIRIYA	19.6	28th	1965
BASRAH	4.4	27th	1965

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05 mm

DAYS	ZAKHO	TEL-HIKNA	THARI-ALQRAH	SLU-BI	TAL-ABTA	DUHOK	BASH-IKA	HAMAM-ALALIL	TAL-AFAR	AQRA	SHI-RQAT	GU-AIR
1			10.0									10.0
2		17.0										
3												
4												
5	1.6											
6	7.2											
7												
8								0.0				
9					4.0							5.0
10												
11												
12	4.0	10.0							0.5			
13								1.0				
14								0.6		2.6		
15								1.0	7.0			
16												
17	11.3											
18				1.0		0.0		10.0	7.5	tr.		
19					9.0		3.0			3.5		
20	1.2									19.4		
21	9.6						3.0		0.5	1.2		
22				14.0	3.0			1.0		0.0	31.4	
23												
24						1.0						
25												
26				1.0					1.0			
27						2.0						
28												
29												
30												5.0
31												
TOTAL	34.9	27.0	10.0	16.0	26.0	11.0	6.0	16.6	16.5	27.5	31.4	20.0

OCTOBER 1969. TABLE 12 d. (12)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	ARBIL	IFRAZ	DIANA	HAWIJA	KUFRI	BAKRAJO	SULAMANIYA	HALABJA	BAQUBA	INJANA	MANSURIYA	BALADROZ
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13		7.9	9.1									
14	0.8											
15												
16												
17												
18		12.3	7.4	5.2			6.4					
19			10.4									
20			16.1				11.2			5.0		
21			2.0		13.9		12.0		4.0		4.0	
22		2.7		3.9		12.0		25.0	4.0		1.0	10.0
23		2.5	6.1									
24						3.0						
25												
26												
27												
28							4.0	50.0				
29								tr.				
30												
31												
TOTAL	0.8	25.4	51.1	9.0	13.9	15.0	33.6	75.0	8.0	5.0	5.0	10.0

OCTOBER 1969. TABLE 12e.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	MAN-DILI	HIT	QA-IM	BAIJI	SAM-ARRA	MAKh-MOOR	KUT	AMA-DIYA	RAO	MAN-RIF	AIN-SIFNI	HIN-DIYA
1												
2						10.9						
3												
4												
5			5.4									
6												
7												
8												
9										1.0		
10												
11												
12												
13												
14												
15												
16												
17												
18					tr.		0.1					
19			15.1	10.5			0.5	tr.			4.0	
20							0.2	tr.			30.5	
21												
22												
23		4.0	5.4					tr.				
24												
25												
26								tr.				
27												
28							0.4					
29							0.3					
30								tr.	7.2			
31												5.2
TOTAL	11.5	4.0	33.7	10.7	1.5	10.9	1.5	tr.	7.2	1.0	34.5	5.2

OCTOBER 1969. TABLE 13.

DAILY GRASS MINIMUM TEMPERATURES °C AND SOIL TEMPERATURES °C OF 0.3M & 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	9.2	20.0	25.0	28.4	18.9	30.5	30.5	16.5	31.4	30.6	32.5	32.5	23.4	32.0	30.6	15.6
2	14.5	21.4	25.4	28.4	19.7	30.5	30.4	17.0	31.4	30.2	32.6	32.4	22.7	32.1	30.9	13.4
3	16.5	16.5	25.5	28.4	22.8	30.7	30.4	16.6	31.7	30.6	32.3	32.4	22.2	32.0	30.9	17.7
4	9.4	18.0	25.2	28.3	19.5	30.3	30.3	16.6	31.5	30.5	32.4	32.4	23.0	31.9	30.9	19.5
5	17.7	20.5	25.5	28.3	20.6	30.5	30.4	17.8	31.4	30.5	32.0	32.4	21.8	31.7	30.8	16.0
6	13.5	19.8	25.5	28.4	20.6	30.4	30.3	16.8	31.4	30.6	31.8	32.4	22.6	31.7	30.8	18.1
7	15.6	22.0	25.8	28.2	22.2	30.6	30.1	17.5	31.4	30.3	32.2	32.2	21.5	31.7	30.8	14.2
8	16.5	15.3	25.5	28.3	18.9	30.4	30.1	20.8	31.0	30.5	31.8	32.0	20.6	31.3	30.8	15.5
9	15.0	18.4	25.0	28.3	21.4	29.8	30.0	19.3	30.2	30.4	31.2	32.0	20.8	31.3	30.7	15.0
10	9.8	14.6	25.0	28.3	19.5	29.8	30.0	19.6	30.5	30.5	30.8	32.0	18.9	30.8	30.5	13.1
11	9.2	14.8	25.1	27.9	17.8	30.0	30.2	15.5	30.0	30.4	30.6	31.8	20.3	30.5	30.7	13.5
12	9.0	15.1	25.3	28.1	17.8	30.2	30.0	13.1	29.6	30.5	30.4	31.6	21.8	30.7	30.8	17.0
13	12.4	17.0	24.5	27.8	17.8	30.0	30.0	12.2	30.3	29.4	30.4	31.6	19.2	30.0	30.5	12.0
14	9.5	15.6	23.5	27.8	18.1	30.0	30.0	19.0	29.5	30.2	30.0	31.4	19.0	29.9	30.5	xxxx
15	12.2	18.0	23.9	27.8	20.6	30.0	29.8	18.6	29.5	30.2	30.0	31.4	18.1	29.7	30.4	11.2
16	12.4	13.8	23.3	27.7	19.5	29.0	29.9	16.5	29.5	30.0	29.4	31.4	16.7	29.7	30.4	20.1
17	10.0	12.8	23.3	27.3	16.7	29.2	29.8	19.6	28.8	30.1	29.3	31.1	18.7	29.4	30.2	xxxx
18	10.4	12.4	23.8	27.5	15.8	29.2	29.8	11.0	28.4	29.8	29.1	31.0	20.7	29.3	30.1	xxxx
19	10.2	15.3	23.8	27.3	17.2	28.9	29.8	17.2	27.9	29.8	29.0	30.8	20.2	28.3	30.1	14.4
20	11.0	12.4	23.2	27.2	14.7	28.6	29.5	11.0	29.0	29.8	28.7	30.7	21.0	29.4	30.0	20.7
21	10.6	17.5	22.9	27.2	17.0	28.3	29.5	20.3	28.5	29.6	29.0	30.5	19.5	29.3	29.9	18.1
22	11.5	15.8	23.1	27.0	17.8	28.6	29.5	17.4	27.8	29.6	28.5	30.4	21.2	29.5	29.9	20.4
23	10.3	12.9	22.3	26.7	18.4	28.5	29.3	15.0	26.0	29.3	28.7	30.4	20.7	29.3	29.7	16.0
24	8.0	13.6	22.4	26.6	15.0	28.3	29.3	11.7	25.4	29.4	28.6	30.2	19.9	29.0	29.7	15.8
25	7.8	9.5	21.9	26.7	12.8	27.9	29.2	9.3	24.5	29.3	27.5	30.2	18.3	28.8	29.6	13.3
26	5.0	10.0	21.4	26.5	13.9	27.5	29.0	12.0	24.4	29.1	27.0	30.0	18.4	28.0	29.1	12.2
27	8.0	11.9	21.6	26.4	13.5	27.0	29.0	15.2	24.8	29.0	27.2	30.2	17.2	27.5	29.5	12.3
28	5.2	11.0	21.1	26.1	14.5	27.0	29.0	9.1	24.4	29.0	27.3	30.3	15.9	27.3	29.5	9.8
29	3.0	8.0	20.6	26.1	13.9	26.7	28.8	9.4	24.1	28.7	26.5	29.5	15.6	26.6	28.9	10.1
30	1.0	8.5	19.3	26.0	5.0	26.2	28.3	5.6	23.9	28.6	25.0	29.2	14.7	26.1	29.2	15.3
31	0.8	6.5	18.9	25.6	4.1	25.0	28.6	-3.5	20.6	28.5	23.0	29.2	8.7	24.7	29.3	7.9
MEANS	9.9	14.5	[illegible]	[illegible]	[illegible]	29.0	29.7	[illegible]	[illegible]	28.9	29.5	31.1	19.4	29.7	30.2	14.9

OCTOBER 1969. TABLE 14.

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. AT 0600 GMT.

DAYS	MOSUL	KIRKUK	ANAH	RUTBA	BAGHDAD	NUKHAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	13	7	10	14	10	18	5	4	9	7
2	10	7	7	13	5	17	5	5	7	4
3	8	7	8	13	7	16	6	4	6	4
4	9	7	8	13	7	17	6	2	5	5
5	10	9	9	13	8	18	5	5	8	7
6	11	10	9	13	11	20	5	4	9	8
7	10	8	8	13	6	13	4	5	7	5
8	9.6	6	6	10	10	13	6	5	7	4
9	8	6	4	9	10	14	6	5	6	4
10	8	6	6	10	9	12	4	5	4	7
11	8	7	6	8	11	12	5	5	7	6
12	8	5	7	8	5	13	4	5	8	4
13	10.5	5	5	9	8	13	5	5	6	4
14	9.8	5	4.3	7	9.2	13	5	4	3	4
15	11	5	5	9	4	12	4	5	6	3
16	10	5	4	7	10	12	5	5	6	7
17	10	5	5	7	5	11	8	3	5	5
18	10.6	4.8	4.3	12	6.2	11	4	3	3	4
19	9.4	4	4.3	12	7	12	5	5	5	9
20	9.6	4	3.1	8.4	6	10	3	5	3	5
21	9.8	4.9	2.6	6.8	8.1	7.8	3	5	4	7
22	8	4.5	2.9	5.7	5.0	10	3	2	5	5
23	8	2.2	3	5	5	11	3	3	4	7
24	9	4	3	6	7	12	4	3	6	6
25	8	3	3	5	3	10	5	5	2	5
26	8.6	4.7	3	5	7	11	5	3	5	2
27	8	5	3	7	5	10	5	3	4	4
28	7	4	5	4	4.6	9	4	4	3	6
29	7	2	4	4	8	8	4	3	6	1.2
30	6	4	2	5	6	8	5	3	4	5
31	6	3	2	5	3	7	4	3	3	3
TOTAL	278.9	164.1	156.5	266.9	206.1	380.8	145	126	166	159.2
MEAN	9.0	5.3	5.0	8.6	7.0	12.3	4.7	4.2	5.4	5.1

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION - HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	2	0	0	2	0	0	0	1	3	0	0	3	2	-	-	-	-
MOSUL	9	0	0	0	0	1	5	0	2	2	0	2	3	245.0	11.0	17th	0
KIRKUK	5	0	0	0	0	0	7	2	4	0	0	3	1	-	-	-	-
SALAHADDIN	7	0	0	0	0	0	3	0	0	0	0	6	4	-	-	-	-
ANAH	5	0	0	4	0	0	0	3	0	0	0	6	0	-	-	-	-
RUTBAH	3	0	0	3	0	0	0	5	5	1	0	3	0	-	-	-	-
HABBANIYA	1	0	0	2	0	1	6	6	3	2	0	5	0	268.0	11.0	12th	0
BAGHDAD	6	0	0	4	0	0	16	2	4	1	0	6	0	257.0	10.3	30th	0
NUKHAIB	1	0	0	1	0	0	0	2	0	0	0	4	1	-	-	-	-
HAI	1	0	0	2	0	0	0	5	0	0	0	9	0	-	-	-	-
NAJAF	2	0	0	0	0	0	1	2	4	0	0	7	2	-	-	-	-
DIWANIYA	0	0	0	2	0	0	3	2	5	0	0	14	0	-	-	-	-
NASIRIYA	0	0	0	0	0	1	6	1	13	0	0	12	0	-	-	-	-
BASRAH	1	0	0	1	2	11	6	3	8	1	0	10	0	282.5	11.0	2nd	0

TABLE 15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELATIVE HUMIDITY.

STATION	PRESSURE AT MSL -mbs. for 1969 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT M.S.L. -mbs. RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE-HUMIDITY % for 1969 HIGH EST	TIME GMT.	DAY	LOW EST	TIME GMT.	DAY
SINJAR	1021.9	0600	24th	1005.6	1500	2nd	1028.3	0600	28th	1962	1005.2	1200	1st	1967	95 %	0300	19th	19 %	1200	30th
MOSUL	1023.0	0600	26th	1006.5	1500	19th	1026.0	0600	26th	1950	1003.2	1200	12th	1948	95	1800	20th	17	1200	2nd
SALAHADDIN	1020.3	0300	26th	1000.5	1500	20th	1023.6	0300	27th	1967	1000.5	1500	20th	1969	94	1500	20th	13	1200	6th
KIRKUK	1021.4	0600	26th	1004.7	1500	19th	1024.4	0300	29th	1947	1002.5	1200	7th	1950	90	0300	19th	11	0900	2nd
ANAH	1022.2	0600	26th	1003.0	0600	13th	1022.2	0600	26th	1969	1003.0	0600	13th	1969	93	0300	23rd	13	1200	6th
RUTBAH	1020.2	0600	26th	1004.3	1200	19th	1027.3	0000	15th	1948	1000.0	1200	8th	1962	95	2100	22nd	27	1200	1st
HABBANIYA	1020.5	0600	26th	1002.8	1200	19th	1022.3	0600	28th	1965	1002.8	1200	19th	1969	94	1800	21st	22	0900	3rd
BAGHDAD	1019.7	0600	26th	1002.3	1200	19th	1023.4	0300	29th	1947	1003.8	1500	11th	1958	79	0300	29th	8	1200	30th
NUKHAIB	1020.5	0600	31st	1004.6	1500	14th	1022.7	0600	6th	1967	1004.6	1500	14th	1969	69	0600	22nd	4	1200	6th
HAI	1018.6	0600	31st	1002.5	1800	19th	1022.4	0600	29th	1947	1002.5	1800	19th	1969	81	0300	21st	19	1200	1st
NAJAF	1020.0	0600	26th	1002.1	1200	19th	1021.6	0900	15th	1967	1002.1	1200	19th	1969	76	0300	29th	10	1200	30th
DIWANIYA	1019.9	0900	31st	1002.4	1200	19th	1022.7	0600	29th	1947	1002.4	1200	19th	1969	81	0300	31st	18	1200	30th
NASIRIYA	1018.9	0600	31st	1002.2	1500	19th	1022.5	0600	29th	1947	1002.2	1500	19th	1969	88	0300	21st	12	0900	6th
BASRAH	1018.7	0600	31st	1004.3	2100	19th	1021.0	0600	26th	1950	1002.9	0000	1st	1954	99	0300	4th	13	0900	20th.

OCTOBER 1969. TABLE 16.

Station: BAGHDAD RADIOSONDE STATION. TIME 0000 GMT. UPPER AIR CLIMATOLOGICAL DATA

PRESSURE SURFACE mb.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VICTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRE-CTION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS	DIRE-CTION	SPEED KNOTS
1000	31	113	172	48	31	7.8	33.0	8.7	30	11.5	30	350	05	300	21	000	00
850	31	1531	1574	1461	31	18.7	25.9	9.0	30	1.8	30	260	05	200	28	000	00
700	31	3158	3209	3074	31	6.1	10.7	0.3	30	-6.5	29	250	12	270	35	000	00
500	31	5813	5917	5678	31	-13.7	-8.5	-18.4	30	-23.9	30	250	23	230	58	220	05
300	30	9490	9669	9271	30	-41.1	-35.2	-48.3	29	-51.2	29	250	38	260	84	240	18
200	30	12139	12355	11862	30	-56.7	-51.0	-65.4	21	-63.8	29	250	56	230	100	230	30
150	30	13934	14195	13667	30	-62.0	-58.0	-69.0	13	-67.2	29	250	51	270	85	270	20
100	30	16416	16690	16179	30	-66.1	-60.0	-71.9	4	-67.1	27	250	41	270	75	240	21
70	29	18587	18860	18360	29	-64.1	-57.8	-76.5	4	-64.1	24	250	30	230	60	290	15

N = Total Number of Observation.

OCTOBER 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.

STATION : BAGHDAD RADIOSONDE STATION. TIME 0000 GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE mb.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C	HEIGHT "GPM"	PRESSURE mb.	DEW POINT °C		HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE mb.	TEMPERATURE °C				
	31	3916	640	-10.8	4620	696	0.0	3100	588	-25.8	29	13770	150	-53.8	17360	245	-52.5	10200	90	-72.5	12950	178	260	120

N = Total Number of Observation.

الجمهورية العراقيـــــــــة

وزارة المواصلات

مديرية الطيران المدني العامـــة

مفتشية الانواء الجوية العامـة

مديرية احصائيات المنـاخ

بغداد

****

تقرير المنـــاخ الشهـــــري

المجلـــد : ٣٢

العـــدد : ١١

الشهر : تشرين الثاني

السنـــة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION
INSPECTORATE GENERAL OF METEOROLOGY
CLIMATOLOGICAL DEPARTMENT

MONTHLY CLIMATOLOGICAL DATA for :

VOLUME : 32
No. : 11
Month : NOVEMBER
YEAR : 1 9 6 9

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures & records	1a-c	1-3
Monthly mean dry-bulb temperature	2	4
" " vapour pressure	3	4
" " wet-bulb temperature	4	4
" " dew-point	5	4
" " relative humidity	6	5
" " pressure at M.S.L.	7	5
" " total-cloud-amount	8	5
" " low-cloud-amount	9	5
Surface wind, number of observations of	10a-c	6-8
Highest surface wind speed during one hour	11	8
Daily precipitation	12a-f	9-14
Daily grass minimum and soil temperatures	13	15
Daily evaporation	14	16
Number of days for the cases of phenomena and duration of sunshine	15a	17
Highest, lowest & records of pressure at MSL and relative humidity	15b	17
Upper air climatological data at Baghdad	16	18
Mean and extreme values of freezing leve, the tropopause and maximum wind speed in upper air	17	19

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE: JANUARY 1969.

NOVEMBER 1969. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	16.8	7.3	20.8	4.0	17.4	9.2	21.8	10.8	23.1	8.3
2	14.1	5.1	19.3	11.5	13.8	8.4	21.5	13.5	22.2	12.4
3	15.7	7.0	22.2	12.3	15.1	8.4	20.2	13.9	21.4	11.7
4	20.3	6.8	23.0	9.6	17.1	8.0	22.6	10.2	23.7	8.7
5	21.2	6.5	25.4	8.8	20.1	9.8	27.3	11.5	23.8	5.4
6	20.6	6.3	24.8	7.6	19.7	12.0	25.4	11.8	24.0	4.5
7	16.1	6.8	21.1	11.4	12.2	9.4	17.0	12.1	15.2	12.4
8	12.3	4.7	16.7	11.8	9.4	5.6	17.1	11.6	20.6	9.5
9	14.8	3.6	17.9	7.2	12.3	4.0	18.7	9.0	18.6	8.2
10	16.3	3.3	19.3	6.3	14.0	4.4	22.0	8.8	19.6	2.0
11	18.8	3.6	19.7	5.7	14.6	6.2	21.9	7.9	20.2	3.3
12	20.8	7.0	23.2	5.8	18.3	7.2	25.7	8.2	22.2	3.5
13	20.9	7.8	24.8	7.0	17.9	9.1	26.0	12.5	22.3	4.6
14	22.7	10.5	23.1	6.3	18.0	9.7	25.3	9.8	22.3	3.7
15	21.6	8.0	24.0	6.8	17.6	8.9	25.7	8.5	22.2	4.5
16	19.7	7.4	23.6	5.5	16.7	8.8	25.2	10.2	21.6	2.7
17	19.6	7.8	23.3	3.2	16.5	8.0	24.7	9.3	22.5	2.3
18	19.4	8.6	22.2	2.3	16.4	7.4	24.0	8.2	23.0	2.7
19	18.6	8.5	20.4	2.2	16.0	7.5	23.6	7.9	21.6	2.3
20	19.8	8.4	21.3	3.2	14.6	6.9	22.4	7.5	20.8	2.3
21	19.8	8.7	21.0	3.8	15.4	6.5	21.4	8.8	23.1	3.5
22	20.6	8.4	22.6	4.5	18.1	7.5	25.5	9.4	21.7	2.7
23	19.3	11.4	22.5	5.3	17.3	10.2	24.0	12.3	18.2	5.0
24	16.6	7.1	19.4	5.8	17.1	10.4	20.0	10.7	17.8	9.9
25	14.5	8.2	17.5	7.5	15.4	9.4	21.0	11.0	20.2	11.0
26	17.7	5.8	21.2	11.4	16.2	9.0	22.1	9.8	20.5	5.9
27	18.5	6.2	21.2	7.4	17.7	8.0	22.4	8.5	20.6	4.2
28	19.2	6.0	23.5	6.0	18.2	9.5	24.0	9.2	22.1	4.2
29	16.5	8.2	19.8	6.5	14.4	9.5	20.1	10.0	21.5	8.7
30	12.8	6.2	17.1	11.5	15.0	9.0	21.4	11.5	19.3	8.0
MEANS	18.2	7.0	21.4	6.9	16.1	8.3	22.7	10.1	21.2	5.6
NORMAL	....	....	22.2	6.8	....	....	22.6	11.2	....	....
HIGHEST	31.1	21.8	35.0	18.9	24.4	16.3	33.4	22.0	25.7	16.0
DAY	1st	1st	?	8th	4th	3rd	3rd	6th	8th	26th
YEAR	1966	1962	1932	1932	1967	1967	1966	1967	1968	1968
LOWEST	6.4	-2.4	5.1	-4.4	3.3	-3.2	6.6	-2.0	15.2	2.0
DAY	26th	29th	28th	24th	26th	28th	29th	30th	7th	10th
YEAR	1967	1967	1953	1958	1967	1967	1953	1953	1969	1969

NOVEMBER 1969. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	26.4	10.6	24.5	11.5	22.1	12.9	20.6	8.6	20.7	11.2
2	21.8	9.8	25.2	14.7	21.0	15.0	20.6	9.6	25.8	18.8
3	18.7	9.9	22.0	12.8	22.3	12.5	20.5	10.5	27.8	14.6
4	22.0	5.6	23.0	11.5	23.6	11.0	22.0	7.5	27.4	11.7
5	23.2	15.4	24.6	10.6	25.0	10.5	23.4	8.6	29.4	11.0
6	24.5	5.0	24.0	7.5	25.5	8.7	20.8	7.5	28.4	12.7
7	19.6	12.1	18.6	12.0	21.6	11.5	17.5	8.5	25.4	12.2
8	21.0	9.6	22.0	8.5	23.0	9.0	22.5	7.5	27.2	14.2
9	18.8	8.2	20.5	13.0	21.1	11.4	20.6	10.4	26.0	12.2
10	20.7	4.4	19.3	6.0	20.8	6.1	19.8	5.5	23.4	7.8
11	21.0	4.6	20.2	7.0	20.7	6.3	21.0	6.2	24.2	7.8
12	23.2	5.0	21.0	6.5	22.2	4.0	22.4	5.8	24.0	6.4
13	21.6	4.0	22.7	8.0	24.0	6.0	23.0	6.8	26.7	7.2
14	20.7	3.7	23.0	7.2	23.8	5.6	22.6	6.2	26.7	7.0
15	22.5	3.2	23.4	7.6	23.8	6.0	22.2	5.6	26.0	7.7
16	23.0	2.2	22.0	8.0	23.9	6.4	22.6	4.9	26.4	8.2
17	22.5	2.9	23.0	5.4	23.2	3.6	21.8	4.9	26.0	6.6
18	23.5	2.0	22.5	5.0	23.3	3.4	21.2	4.4	25.6	6.5
19	24.3	3.4	22.4	4.5	21.6	3.5	20.0	4.0	22.3	7.4
20	24.0	4.8	22.5	6.0	22.8	3.6	21.8	5.1	24.2	6.0
21	23.0	5.5	24.0	6.0	23.7	4.8	22.4	5.0	24.4	8.4
22	21.5	4.3	22.0	6.8	23.2	5.5	20.8	6.6	25.5	7.4
23	15.2	5.3	19.0	4.6	20.0	4.2	15.5	6.5	24.6	6.4
24	13.3	9.2	20.0	9.0	20.8	5.6	16.5	7.4	22.0	7.4
25	17.7	5.4	19.6	12.0	21.0	10.0	19.6	7.2	18.4	10.6
26	19.0	3.2	21.0	9.5	22.1	9.2	19.5	9.4	24.2	10.8
27	21.3	4.7	20.6	8.0	21.6	9.0	20.3	6.4	22.4	10.2
28	22.0	5.6	23.0	7.5	22.5	6.0	22.5	6.6	24.0	7.4
29	23.3	8.7	23.9	10.4	22.7	6.4	21.2	6.9	24.3	7.0
30	16.6	6.0	21.0	12.0	22.2	12.3	21.4	7.3	21.3	11.2
MEANS	21.3	6.1	22.0	8.6	22.5	7.7	21.0	6.9	25.1	9.5
NORMALS	21.3	7.4	24.4	10.1	24.5	10.6	....	....	26.2	11.8
HIGHEST	35.0	18.9	35.0	21.1	34.8	22.3	32.3	17.6	37.2	22.2
DAY	2nd	1st	1st	4th	1st	3rd	2nd	15th	3rd	4th
YEAR	1932	1938	1962	1960	1957	1957	1957	1966	1949	1947
LOWEST	4.6	-6.0	9.4	-3.3	11.1	-3.0	10.7	-0.7	12.2	-0.6
DAY	28th	30th	30th	30th	20th	30th	27th	29th	21st	24th
YEAR	1953	1953	1953	1953	1952	1953	1967	1954	1952	1958

NOVEMBER 1969. TABLE 1c.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	24.2	12.7	27.7	14.0	27.2	12.1	30.7	15.1
2	25.2	14.0	24.5	18.5	28.2	19.5	32.8	23.0
3	23.4	13.7	24.8	14.3	25.6	17.6	24.1	19.8
4	24.5	10.4	25.4	10.5	24.0	13.5	25.2	15.7
5	26.0	12.4	26.6	10.5	26.2	12.2	27.2	13.4
6	27.0	11.2	26.5	10.1	25.9	12.9	28.5	12.2
7	23.2	13.8	25.0	12.0	23.0	13.7	27.9	15.0
8	25.2	10.2	25.0	12.4	24.6	15.7	25.1	18.9
9	24.0	11.5	23.9	10.0	25.1	12.7	26.3	14.2
10	20.4	7.4	21.6	8.0	21.6	9.2	22.0	11.9
11	21.5	6.8	22.0	7.0	22.7	8.7	22.8	9.3
12	23.1	6.5	22.8	5.2	22.7	8.3	22.4	8.5
13	25.7	6.9	24.8	4.4	22.8	6.2	24.5	8.1
14	25.0	7.5	24.5	4.1	23.6	6.8	24.5	7.5
15	24.2	7.8	25.0	4.0	25.0	9.9	25.7	9.5
16	24.0	7.6	23.7	3.0	23.7	9.1	25.2	9.0
17	24.4	8.0	24.4	4.1	22.8	7.2	24.9	7.9
18	24.2	7.8	23.8	3.0	22.7	6.2	24.8	7.1
19	19.5	8.5	18.7	5.9	14.5	8.7	19.7	8.5
20	24.2	8.2	23.3	2.1	20.2	10.2	22.4	11.5
21	26.0	7.4	24.0	4.5	22.1	8.2	23.2	8.1
22	23.2	7.6	23.4	6.6	23.6	9.3	23.6	7.6
23	20.6	7.0	22.2	5.0	21.4	6.7	23.8	6.8
24	20.2	9.0	20.6	6.6	21.3	9.9	26.3	9.5
25	21.4	9.0	20.0	10.6	24.0	12.4	26.6	11.5
26	22.0	9.0	22.5	11.2	22.9	13.2	24.2	11.6
27	21.2	9.6	20.7	9.8	21.9	11.2	24.5	11.7
28	23.2	8.8	22.9	7.2	21.7	8.6	22.7	9.2
29	23.4	10.5	24.0	7.0	22.4	8.7	24.1	8.5
30	24.0	10.0	23.0	13.6	23.3	15.1	25.6	12.5
MEANS	23.5	9.4	23.5	8.2	23.3	10.8	25.0	11.4
NORMAL	....	....	25.6	9.9	26.4	11.7	26.7	13.2
HIGHEST	33.6	20.5	36.1	22.0	36.7	22.6	36.6	25.0
DAY	2nd	6th	4th	1st	2nd	6th	10th	3rd
YEAR	1967	1967	1949	1967	1942	1967	1939	1947
LOWEST	12.6	0.2	10.5	-2.8	11.7	-1.6	12.2	1.0
DAY	28th	29th	20th	16th	30th	24th	29th	29th
YEAR	1967	1964	1952	1948	1953	1958	1953	1964

MONTHLY MEANS. DRY BULB TEMPERATURES (°C) TIME G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.5	12.5	16.8	17.9	15.2	12.7	....	14.1
MOSUL	8.6	7.8	11.0	17.6	20.7	15.9	11.8	10.2	13.0
SALAHADDIN	....	9.5	11.4	15.1	15.0	11.3	9.9	....	12.0
KIRKUK	11.9	11.3	15.1	20.7	21.6	16.8	14.4	12.8	15.6
ANAH	....	6.8	9.3	16.6	20.7	17.4	12.4	....	13.8
RUTBAH	7.7	6.6	11.5	18.8	20.6	16.4	12.1	9.2	12.9
HABBANIYA	10.4	9.7	13.8	20.1	21.3	16.5	13.3	11.6	14.6
BAGHDAD	9.8	8.9	13.6	20.4	22.0	17.5	13.0	11.7	14.7
NUKHAIB	....	....	12.4	18.5	20.6	18.9	16.1	....	17.3
HAI	11.5	10.2	15.1	23.2	23.1	17.7	14.7	12.9	16.1
NAJAF	11.5	9.9	13.0	20.8	23.0	18.9	15.6	13.3	15.8
DIWANIYA	10.4	9.0	15.0	21.9	23.0	17.8	14.1	12.3	15.4
NASIRIYA	12.7	11.4	15.4	21.2	23.1	19.9	15.6	14.6	16.9
BASRAH	13.5	12.2	17.3	23.3	23.9	19.0	16.9	14.6	17.6

TABLE 3. VAPOUR PRESSURE (M.B.S.)

SINJAR	....	7.3	7.8	8.5	8.2	8.4	7.5	....	8.0
MOSUL	9.3	9.1	9.6	10.4	10.1	10.6	10.5	10.0	10.0
SALAHADDIN	....	6.9	7.2	7.4	7.7	8.1	7.6	....	7.5
KIRKUK	8.6	8.1	8.7	8.6	8.6	9.8	9.3	9.1	8.9
ANAH	....	8.3	8.8	9.9	9.5	9.8	9.7	....	9.3
RUTBAH	6.8	6.8	7.5	8.1	7.9	7.7	7.8	7.2	7.5
HABBANIYA	9.9	9.5	11.6	12.4	11.4	11.6	11.2	10.4	11.0
BAGHDAD	9.7	9.3	10.3	10.6	9.7	10.6	10.5	10.0	10.1
NUKHAIB	....	....	9.4	11.0	11.7	11.7	11.0	....	11.0
HAI	10.2	9.7	11.6	12.7	11.7	11.9	11.0	10.4	11.2
NAJAF	9.4	8.9	9.9	10.2	10.0	10.3	10.1	9.8	9.8
DIWANIYA	9.5	9.2	10.8	11.7	11.7	11.7	10.8	10.3	10.7
NASIRIYA	10.2	9.6	10.7	11.3	11.3	12.4	11.6	11.4	11.1
BASRAH	12.2	11.3	13.6	13.9	13.6	14.1	14.0	13.2	13.2

TABLE 4. WET-BULB TEMPERATURES (°)

SINJAR	....	6.4	8.4	10.6	11.3	10.1	8.3	....	9.2
MOSUL	7.3	6.7	8.5	12.6	13.7	11.8	9.7	8.6	9.9
SALAHADDIN	....	6.2	7.4	9.5	9.6	8.0	6.9	....	7.9
KIRKUK	8.5	7.9	10.2	12.8	13.2	11.7	10.2	9.3	10.5
ANAH	....	5.6	7.2	11.6	13.4	11.9	9.5	....	9.9
RUTBAH	5.1	4.4	7.7	11.9	12.4	10.3	8.1	8.1	8.3
HABBANIYA	8.6	8.3	11.1	14.6	14.6	12.6	10.8	9.5	11.3
BAGHDAD	8.2	7.4	10.5	13.9	14.0	12.5	10.7	9.4	10.8
NUKHAIB	....	....	9.4	13.2	14.5	13.8	12.1	....	12.6
HAI	9.3	8.3	11.9	16.1	15.6	13.3	11.5	10.2	12.0
NAJAF	8.9	7.7	9.9	13.7	14.6	12.9	11.3	9.3	11.0
DIWANIYA	8.3	7.5	11.5	15.1	15.5	13.2	11.0	9.8	11.5
NASIRIYA	9.9	8.8	11.5	14.5	15.3	14.6	12.7	11.6	12.4
BASRAH	11.4	10.2	14.0	16.7	16.8	15.0	14.0	12.6	13.8

TABLE 5. DEW-POINT. (°C)

SINJAR	....	2.2	3.1	3.9	4.1	3.9	2.8	....	3.3
MOSUL	5.0	5.3	6.1	7.2	6.8	7.7	7.4	6.7	6.6
SALAHADDIN	....	1.4	1.9	2.4	3.0	3.5	2.7	....	2.5
KIRKUK	4.1	3.3	4.5	4.1	3.9	6.1	5.2	4.9	4.5
ANAH	....	3.9	4.7	6.3	5.8	6.2	6.1	....	5.5
RUTBAH	0.8	0.7	2.2	3.5	3.2	2.7	2.7	1.6	2.2
HABBANIYA	6.3	5.8	8.3	10.0	8.6	8.9	8.3	7.3	7.9
BAGHDAD	6.3	5.7	7.1	7.5	6.0	7.5	7.4	6.7	6.8
NUKHAIB	....	....	5.9	8.1	9.0	9.1	8.3	....	8.1
HAI	6.8	6.2	8.8	10.3	9.1	9.3	8.1	7.2	8.2
NAJAF	5.6	4.8	6.2	6.7	6.5	6.9	6.7	6.2	6.2
DIWANIYA	5.8	5.4	7.8	9.1	8.9	9.0	7.9	7.2	7.6
NASIRIYA	6.7	5.6	7.5	8.4	8.4	9.9	8.9	8.5	8.0
BASRAH	9.3	8.1	11.0	11.5	11.2	11.8	11.7	10.7	10.7

MONTHLY MEANS

RELATIVE HUMIDITY (%) — TIME. G. M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	62	55	46	44	49	55	...	52
MOSUL	82	85	72	51	42	59	75	78	69
SALAHADDIN	...	59	55	45	46	61	60	...	54
KIRKUK	61	61	52	37	36	52	57	62	52
ANAH	...	32	74	53	39	58	66	...	61
RUTBAH	64	68	55	39	34	42	55	61	52
HABBANIYA	77	79	72	54	46	63	73	76	66
BAGHDAD	79	81	66	45	37	53	66	72	62
NUKHAIB	...	...	65	52	40	54	66	...	56
HAI	73	76	67	45	43	59	65	69	62
NAJAF	69	72	65	42	36	47	57	64	57
DIWANIYA	75	79	63	46	42	57	69	73	63
NASIRIYA	67	68	66	45	40	53	61	67	59
BASRAH	77	77	67	48	46	63	72	77	66

TABLE 7. PRESSURE (MBS.) AT M.S.L.

SINJAR	....	20.0	20.9	19.9	19.4	19.6	19.9	....	1019.7
MOSUL	20.7	20.1	21.7	20.4	19.6	19.2	20.4	20.6	1020.2
SALAHADDIN	....	20.0	19.7	19.1	17.9	18.8	19.0	....	1018.9
KIRKUK	19.4	19.4	20.0	19.7	17.6	18.5	19.3	19.6	1019.1
ANAH	....	20.5	21.5	20.3	19.4	19.8	20.1	....	1019.9
RUTBAH	19.7	19.3	20.2	19.0	17.7	18.6	19.3	19.9	1019.0
HABBANIYA	19.7	19.0	20.3	19.1	17.9	18.2	18.8	19.0	1018.9
BAGHDAD	19.2	19.6	19.7	19.1	17.6	17.9	18.5	18.4	1018.5
NUKHAIB	....	....	21.6	20.4	19.8	19.7	19.6	....	1019.[illegible]
HAI	17.6	18.0	19.2	18.6	17.1	17.4	18.1	17.9	1018.0
NAJAF	18.6	19.0	20.4	19.3	17.7	17.9	18.7	18.7	1018.8
DIWANIYA	18.4	18.8	19.9	18.9	17.7	18.1	18.6	18.6	1018.6
NASIRIYA	17.5	18.1	19.4	18.4	16.9	17.2	17.9	17.9	1017.9
BASRAH	17.6	17.9	19.4	18.4	17.1	17.3	17.9	17.9	1017.9

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	...	3.4	3.7	3.1	3.7	3.5	2.2	...	3.3
MOSUL	1.9	2.3	3.5	3.4	3.5	3.5	2.6	2.3	2.9
SALAHADDIN	...	2.7	3.0	3.1	3.1	3.2	2.3	...	2.9
KIRKUK	1.9	2.0	2.7	3.0	3.0	2.9	2.5	2.3	2.5
ANAH	...	2.2	2.7	2.7	2.7	2.7	2.1	...	2.5
RUTBAH	2.0	2.2	2.7	2.6	3.2	2.0	1.7	1.8	2.4
HABBANIYA	2.1	2.4	2.2	2.6	2.7	2.4	1.8	1.7	2.2
BAGHDAD	2.2	2.5	2.5	2.6	2.9	2.7	1.9	2.0	2.4
NUKHAIB	...	...	2.5	2.0	2.9	2.9	2.2	...	2.6
HAI	1.5	2.1	2.3	2.5	2.4	2.0	1.5	1.3	2.0
NAJAF	2.5	2.7	2.6	3.0	3.2	2.9	2.5	2.3	2.7
DIWANIYA	1.5	1.6	2.3	2.6	2.3	2.2	1.9	1.4	1.9
NASIRIYA	1.4	2.1	2.0	2.6	3.0	2.6	1.6	1.8	2.2
BASRAH	1.7	1.7	2.3	2.3	2.7	2.9	1.8	1.7	2.1

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	...	1.4	1.5	1.3	1.6	1.4	1.0	...	1.4
MOSUL	1.5	2.0	1.8	1.8	2.0	1.9	1.0	1.4	1.8
SALAHADDIN	...	1.4	1.4	1.9	2.0	2.3	1.5	...	1.8
KIRKUK	1.2	1.2	1.5	1.2	1.0	1.6	1.3	1.5	1.4
ANAH	...	0.8	1.4	1.1	1.2	1.1	1.0	...	1.1
RUTBAH	0.5	0.7	0.5	0.9	1.5	1.1	0.0	0.6	0.8
HABBANIYA	0.7	0.7	0.4	0.5	0.5	0.3	0.3	0.6	0.5
BAGHDAD	0.2	0.8	0.5	0.7	0.7	0.6	0.2	0.2	0.5
NUKHAIB	...	...	0.7	0.8	0.7	0.0	0.0	...	0.7
HAI	0.4	1.0	0.6	0.8	1.0	1.0	0.6	0.6	0.8
NAJAF	0.8	1.0	0.8	1.3	1.6	1.1	0.0	0.6	1.0
DIWANIYA	0.3	0.5	0.5	0.8	0.9	0.6	0.4	0.4	0.5
NASIRIYA	0.4	1.1	1.1	1.3	1.4	1.2	0.5	0.7	1.0
BASRAH	0.3	0.4	0.9	0.9	[illegible]	0.9	0.6	0.5	0.7

NOVEMBER 1969. TABLE 19a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.-
SINJAR	0300	22	0	5	1	1	0	0	0	1	20	1	0	0	5
	0600	17	4	0	1	1	0	0	0	1	20	0	0	0	4
	0900	0	0	13	1	6	1	2	0	7	23	0	0	0	3
	1200	1	1	0	3	0	2	1	0	6	22	2	0	0	4
	1500	3	0		2	4	4	4	2	3	27	0	0	0	4
	1800	7	1	2	3	5	1	1	2	1	20	1	0	0	5
MOSUL	0000	2	0	2	0	0	0	2	5	19	11	0	0	0	1
	0300	4	0	1	0	1	0	2	2	20	10	0	0	0	1
	0600	5	0	2	2	1	1	4	4	11	19	0	0	0	2
	0900	0	0	4	1	4	0	3	2	5	25	0	0	0	3
	1200	2	2	0	2	4	0	3	0	9	20	1	0	0	3
	1500	2	0	3	0	2	0	2	6	15	15	0	0	0	2
	1800	3	0	1	0	2	0	2	2	20	10	0	0	0	1
	2100	1	0	1	0	1	0	2	3	22	10	0	0	0	1
SALAHADDIN	0300	3	2	4	4	4	0	0	1	12	10	0	0	0	2
	0600	2	2	4	1	6	1	0	0	14	16	0	0	0	2
	0900	1	2	3	1	12	6	0	0	5	25	0	0	0	3
	1200	2	0	0	1	12	9	4	0	2	27	1	0	0	4
	1500	2	0	2	1	2	4	4	2	13	16	1	0	0	3
	1800	7	2	2	0	4	2	3	2	8	19	3	0	0	4
KIRKUK	0300	0	3	2	1	0	0	0	0	24	5	1	0	0	1
	0300	0	5	3	1	0	0	0	0	21	9	0	0	0	1
	0600	0	2	3	2	0	0	0	0	23	7	0	0	0	1
	0900	1	3	0	0	4	1	2	1	18	12	0	0	0	2
	1200	1	0	0	0	0	0	4	0	25	5	0	0	0	1
	1500	0	0	0	0	0	0	1	0	29	1	0	0	0	0
	1800	0	1	4	1	0	0	0	0	24	5	0	0	0	1
	2100	0	5	2	0	0	0	1	0	22	0	0	0	0	1
ANAH	0300	1	0	3	2	1	1	4	1	17	12	1	0	0	2
	0600	0	0	2	2	1	1	16	0	0	29	2	0	0	5
	0900	0	2	1	1	1	0	21	1	3	21	5	1	0	5
	1200	2	0	4	0	0	1	15	1	6	1[illegible]	5	1	0	7
	1500	0	0	3	0	6	1	12	1	7	21	2	0	0	5
	1800	0	0	3	2	4	3	1	[illegible]	17	12	1	0	0	2

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
RUTBAH	0000	1	0	2	4	5	13	2	2	1	25	4	0	0	7
	0300	0	1	1	3	2	17	2	3	1	20	1	0	0	7
	0600	0	1	0	4	1	15	5	4	0	20	1	0	0	10
	0900	4	1	2	1	3	9	7	3	0	17	13	0	0	10
	1200	0	3	1	2	5	3	3	5	0	22	7	1	0	9
	1500	6	4	4	6	3	1	0	4	2	22	6	0	0	8
	1800	7	3	4	5	1	3	2	1	4	24	2	0	0	6
	2100	4	1	4	5	2	5	2	3	4	23	3	0	0	5
HABBANIYA	0000	0	1	1	0	0	0	0	4	16	14	0	0	0	2
	0300	0	0	3	0	1	1	13	1	11	19	0	0	0	3
	0600	1	0	2	0	0	1	13	5	0	10	4	0	0	5
	0900	3	1	2	1	1	2	10	6	4	17	9	0	0	8
	1200	0	1	0	2	2	0	7	11	7	17	0	0	0	7
	1500	1	1	1	0	1	0	2	8	16	14	0	0	0	2
	1800	1	0	2	0	1	0	3	2	21	9	0	0	0	2
	2100	0	0	2	0	0	0	3	3	22	8	0	0	0	2
BAGHDAD	0000	0	1	1	1	0	0	2	11	14	16	0	0	0	3
	0300	2	1	0	0	1	1	3	8	14	16	0	0	0	3
	0600	1	0	3	2	0	0	5	11	0	21	1	0	0	4
	0900	2	0	1	3	0	2	4	15	3	20	7	0	0	6
	1200	1	0	1	4	0	3	1	13	2	22	6	0	0	7
	1500	1	1	1	2	1	2	3	12	7	20	3	0	0	4
	1800	0	2	1	1	0	0	7	0	11	19	1	0	0	3
	2100	1	0	0	2	1	0	4	8	14	15	1	0	0	3
NUKHAIB	0600	1	1	2	0	0	2	17	5	2	23	5	0	0	7
	0900	2	2	3	0	0	4	13	4	2	24	4	0	0	7
	1200	2	2	3	0	1	2	11	5	4	21	5	0	0	7
	1500	1	2	3	0	1	1	9	7	7	19	4	0	0	6
	1800	0	2	3	0	2	0	7	7	9	21	0	0	0	4
HAI	0000	0	0	1	0	2	1	4	3	11	14	5	0	0	5
	0300	0	1	1	1	2	1	2	8	6	20	4	0	0	5
	0600	11	1	2	0	1	0	1	10	4	25	1	0	0	5
	0900	11	0	2	1	3	0	1	11	1	24	5	0	0	7
	1200	14	0	0	3	2	0	4	7	0	25	5	0	0	7
	1500	10	0	0	1	4	0	1	8	6	24	0	0	0	3
	1800	9	0	0	0	3	0	4	4	10	19	1	0	0	4
	2100	9	2	0	0	2	0	1	5	11	14	5	0	0	4

NOVEMBER 1959. TABLE 1[illegible]c. ([illegible])

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
NAJAF	[illegible]	4	[illegible]	[illegible]	3	[illegible]	[illegible]	2	13	[illegible]	21	1	[illegible]	[illegible]	3
	0300	3	[illegible]	[illegible]	4	[illegible]	2	[illegible]	[illegible]	5	25	[illegible]	[illegible]	[illegible]	4
	0600	3	[illegible]	3	2	[illegible]	2	1[illegible]	7	3	27	[illegible]	[illegible]	[illegible]	4
	[illegible]	5	[illegible]	1	3	1	5	[illegible]	[illegible]	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	4
	1200	[illegible]	2	[illegible]	2	1	2	2	13	2	2[illegible]	[illegible]	[illegible]	[illegible]	4
	1500	4	1	1	3	1	1	1	13	5	25	[illegible]	[illegible]	[illegible]	3
	1[illegible]	4	1	[illegible]	5	[illegible]	[illegible]	3	[illegible]	[illegible]	22	[illegible]	[illegible]	[illegible]	3
	21[illegible]	3	[illegible]	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	3
DIWANIYA	[illegible]	2	1	1	2	[illegible]	[illegible]	14	2	[illegible]	21	1	[illegible]	[illegible]	5
	0300	1	2	2	1	1	[illegible]	14	4	5	25	[illegible]	[illegible]	[illegible]	4
	0600	3	[illegible]	2	3	[illegible]	[illegible]	1[illegible]	[illegible]	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	0900	3	1	2	2	[illegible]	1	9	11	1	23	[illegible]	[illegible]	[illegible]	7
	1200	[illegible]	[illegible]	2	2	[illegible]	2	[illegible]	[illegible]	1	24	5	[illegible]	[illegible]	5
	1500	2	1	1	2	[illegible]	[illegible]	13	[illegible]	5	23	2	[illegible]	[illegible]	5
	1[illegible]	3	1	3	1	[illegible]	[illegible]	15	3	4	23	3	[illegible]	[illegible]	5
	21[illegible]	1	1	1	1	1	[illegible]	12	5	[illegible]	2[illegible]	2	[illegible]	[illegible]	4
NASIRIYA	[illegible]	2	1	3	[illegible]	5	[illegible]	[illegible]	4	7	23	[illegible]	[illegible]	[illegible]	4
	0300	1	1	1	[illegible]	1	1	7	7	11	1[illegible]	[illegible]	[illegible]	[illegible]	3
	0600	1	1	2	1	1	1	1[illegible]	12	1	2[illegible]	3	[illegible]	[illegible]	[illegible]
	0900	4	1	2	2	1	[illegible]	1[illegible]	[illegible]	1	2[illegible]	1	[illegible]	[illegible]	[illegible]
	1200	2	2	4	1	[illegible]	1	4	15	1	23	[illegible]	[illegible]	[illegible]	7
	1500	2	1	4	[illegible]	[illegible]	[illegible]	5	11	7	22	1	[illegible]	[illegible]	5
	1[illegible]	2	1	4	[illegible]	2	[illegible]	7	[illegible]	[illegible]	21	3	[illegible]	[illegible]	5
	21[illegible]		[illegible]	4	2	1	[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]	2	[illegible]	[illegible]	4
BASRAH	[illegible]	3	5	1	3	[illegible]	1	12	5	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	4
	0300	2	[illegible]	5	[illegible]	2	[illegible]	1[illegible]	2	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	4
	[illegible]	1	2	1	2	1	[illegible]	12	[illegible]	2	2	[illegible]	[illegible]	[illegible]	4
	0900	4	3	1	2	[illegible]	1	4	14	1	24	5	[illegible]	[illegible]	7
	1200	[illegible]	1	1	1	[illegible]	[illegible]	4	17	[illegible]	27	3	[illegible]	[illegible]	7
	1500	3	1	4	[illegible]	[illegible]	[illegible]	1[illegible]	12	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1[illegible]	4	2	3	1	1	[illegible]	11	[illegible]	[illegible]	2[illegible]	1	[illegible]	[illegible]	5
	21[illegible]	5	1	2	1	1	1	9	1[illegible]	[illegible]	2[illegible]	1	[illegible]	[illegible]	5

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	15 knots.	110	1200	29th
MOSUL	12	1[illegible]	1200	1st
SALAHADDIN	20	210	1500	7th
KIRKUK	18	130	0000	2nd
ANAH	26	090	1200	1st
RUTBAH	22	310	1200	2nd
HABBANIYA	18	290	0600	3rd
BAGHDAD	16	320	0900	11th
NUKHAIB	20	050	1200	7th
HAI	15	350	1200	10th
NAJAF	14	340	0000	12th
DIWANIYA	20	130	0000	2nd
NASIRIYA	16	060	1500	7th
BASRAH	16	210	0900	2nd

NOVEMBER 1969. TABLE 12a. (9)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1	16.6	17.4	35.6	19.0	15.3	tr.	tr.
2		0.9	26.4	36.5	tr.	0.3	tr.
3			tr.			tr.	
4							
5							
6					5.0		
7	21.1	0.0	2.2	1.0	0.7		
8	3.6	0.6	10.0	3.3	tr.		0.9
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23						0.6	
24	tr.				0.6		tr.
25	1.1				tr.		2.3
26							
27							
28							
29	0.0	2.6		0.4	0.3	1.9	
30	1.1	1.4	22.7	1.5			3.7
TOTAL	51.1	31.7	97.7	82.5	21.9	2.8	6.9
NORMAL	44.5	43.3	87.1	41.5	9.6	15.6	18.7

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	4[illegible] mms.	2[illegible]th	1953
MOSUL	86.3	27th	1929
SALAHADDIN	80.3	3rd	1961
KIRKUK	61.0	1[illegible]th	1967
ANAH	32.0	25th	1960
RUTBAH	25.2	24th	1937
HABBANIYA	36.2	1[illegible]th	1960

NOVEMBER 1969. TABLE b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	16.3	11.0	tr.	2.6		tr.	tr.
2	tr.	1.8	1.5	tr.	tr.	0.2	tr.
3							0.2
4							
5							
6							
7	2.2		2.5	2.6	tr.	0.2	5.0
8	tr.						
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19						2.0	0.6
20							
21							
22							
23		tr.					
24		0.8	2.7	tr.	6.0		tr.
25			1.0		1.1		
26							
27							
28							
29	4.4						tr.
30			3.0				tr.
TOTAL	22.9	13.6	10.7	5.2	7.1	2.4	5.8
NORMAL	21.5	8.1	19.4	11.5	14.7	20.5	27.7

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	48.9 mms.	17th	1957
NUKHAIB	29.0	9th	1967
HAI	55.0	29th	1957
NAJAF	28.0	25th	1957
DIWANIYA	38.9	11th	1951
NASIRIYA	47.2	26th	1950
BASRAH	61.4	15th	1940

NOVEMBER 1959. TABLE c. (11)

DAILY PRECIPITATION (MILLIMETRES) tr. < .05mm

DAYS	ZAKHO	RABIA	TAL-HIKNA	THARI-ALQRAH	SLUBI	TAL-ABTA	DOHOK	BASH-IQA	HAMMA-MALIL	TAL-AFAR	AMA-RAH
1	34.9			5.0	10.0			15.0	16.2	11.0	
2		12.0	17.0	20.0	2.0	15.0		0.3	.3		
3										.	0.5
4											
5											
6											
7	17.4				2.0		20.0	5.0	4.2	9.0	
8	7.0	16.					12.0	13.0		1.0	1.6
9		4.0		4.							
10											
11											
12			10.0								
13					4.0						
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29					3.0			5.0		11.0	
30	26.2	20.0	10.0	3.0		5.0	21.0	4.0	2.6		
TOTAL	86.3	52.0	37.0	32.0	21.0	20.0	59.0	42.3	23.3	32.0	2.1

NOVEMBER 1969. TABLE d.

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.5mm

DAYS	HIN-DIYA	SAMA-WA	FAO	AMA-DIYA	AQRA	AIN-SIFN	SHIQAT	MAKH-MOOR	ARBIL	IF-RAZ	DIBNA
1	1.9			6[illegible].5	37.7	31.4		1[illegible]		24.3	34.2
2		tr.		3.0	5.3				26.0	2.6	4.0
3											
4											
5											
6											
7	3.3				7.4	13.5				2.3	2.0
8			3.5	13.0	19.6		9.6	1[illegible]			
9										9.3	17.0
10											
11											
12											
13											
14											
15											
16											
17											
18											
19		tr.									
20											
21											
22											
23											
24	4.2	18.0									
25											
26											
27											
28											
29	2.0										9.6
30					5.2	15.2					
TOTAL	12.2	18.0	3.5	82.5	75.2	6[illegible].1	9.6	36.0	26.0	37.5	66.0

NOVEMBER 1969. TABLE 12e.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.5mm

DAYS	KUFRI	TUZ	BAK-RAJO	SULAI-MANIYA	HALA-BJA	BA-QUBA	MAN-SORIYA	BALA-DROOZ	MAN-DILI	HIT
1			16.0	24.0	45.0	14.5	27.0		0.5	
2	30.5	35.0	4.0	56.0	75.0			4.0		
3				6.4	0.0					
4										
5										
6										
7					0.0	3.0			1.5	4.0
8				14.4	25.0					2.1
9										
10										
11										
12										
13										
14										
15			11.0							
16			33.0							
17										
18										
19										
20										
21										
22										
23										
24										
25										
26			60.0							
27										
28			0.0							
29										
30						0.5				
TOTAL	30.5	35.0	132.0	100.0	162.0	18.0	27.0	4.0	10.0	7.0

NOVEMBER 1969. TABLE 12f. (14)

DAILY PRECIPITATION(MILLIMETRES) tr. <0.05mm

DAYS	QAIM	BAIJI	SAMA-RRAH	DUJAIL	MAHMO-DIYA	KUT	NUMA-NIYA	BADRA	HAW-IJA	KAR-BALA
1		1[illegible].8	19.6				13.5		15.1	
2		tr.	2.[illegible]		[illegible].7	[illegible].4		1[illegible].[illegible]	41.3	
3										
4										
5	1[illegible].9									
6		[illegible].2								
7		5.[illegible]	1.7	3.					1.3	
8					[illegible].4			5.[illegible]		
9										
10										
11										
12										
13										
14						[illegible].3				
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										15.2
25										
26										
27										
28									7.[illegible]	
29		3.9	1.7			2.5				
30						1.2	[illegible].7			
TOTAL	1[illegible].9	2[illegible].1	25.[illegible]	3.[illegible]	[illegible].1	4.4	22.2	15.[illegible]	74.7	15.2

NOVEMBER 1969. TABLE 13.

DAILY GRASS MINIMUM TEMPERATURE °C AND SOIL TEMPERATURE °C OF 0.3M AND 1.2M.

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	[illegible]	6.3	[illegible]	25.5	[illegible]	24.5	[illegible]	12.5	21.5	[illegible]	23.4	[illegible]	11.2	24.[illegible]	[illegible]	[illegible]
2	5.4	12.7	[illegible]	25.3	13.5	24.3	[illegible]	[illegible]	21.2	[illegible]	23.1	[illegible]	[illegible]	[illegible]	[illegible]	16.5
3	[illegible]	12.[illegible]	[illegible]	25.[illegible]	12.5	24.4	[illegible]	[illegible]	[illegible]	27.[illegible]	22.7	[illegible]	[illegible]	25.3	[illegible]	16.5
4	[illegible]	7.2	18.4	24.5	11.2	24.[illegible]	[illegible]	[illegible]	[illegible]	27.6	22.[illegible]	[illegible]	12.7	24.1	[illegible]	11.3
5	5.4	[illegible]	[illegible]	24.4	[illegible]	24.[illegible]	27.[illegible]	[illegible]	[illegible]	27.[illegible]	21.[illegible]	27.6	11.7	23.7	[illegible]	7.[illegible]
6	4.4	[illegible]	[illegible]	24.4	[illegible]	23.7	27.1	[illegible]	[illegible]	27.3	21.4	27.4	12.2	23.2	[illegible]	5.[illegible]
7	7.[illegible]	[illegible]	[illegible]	24.2	[illegible]	23.2	27.3	11.[illegible]	[illegible]	27.[illegible]	21.[illegible]	27.1	11.4	23.[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	23.[illegible]	7.2	22.[illegible]	27.3	5.5	[illegible]	[illegible]	[illegible]	[illegible]	14.3	22.[illegible]	[illegible]	14.4
9	4.4	4.1	[illegible]	23.9	11.7	22.[illegible]	27.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.2	22.7	27.[illegible]	[illegible].5
10	3.[illegible]	4.3	17.4	23.[illegible]	5.3	21.6	27.[illegible]	1.2	[illegible]	27.[illegible]	[illegible]	[illegible]	[illegible].3	22.3	27.[illegible]	4.[illegible]
11	3.2	5.3	[illegible]	23.6	5.[illegible]	21.3	[illegible]	3.5	[illegible]	[illegible]	[illegible]	[illegible]	7.4	21.2	27.1	5.1
12	2.3	4.6	16.6	23.4	5.[illegible]	[illegible]	[illegible]	[illegible].4	17.2	[illegible]	[illegible].5	25.[illegible]	7.2	[illegible]	27.1	3.5
13	4.1	[illegible].4	[illegible]	23.2	[illegible]	[illegible].5	[illegible]	1.2	17.4	[illegible]	[illegible].2	25.4	5.2	[illegible]	27.2	2.5
14	2.[illegible]	6.7	[illegible]	23.1	5.[illegible]	[illegible].5	[illegible]	[illegible].2	17.4	25.[illegible]	[illegible].4	25.1	5.[illegible]	[illegible]	[illegible]	1.2
15	5.2	3.6	[illegible]	22.[illegible]	5.6	[illegible].5	[illegible]	[illegible].5	17.6	25.7	[illegible].3	24.[illegible]	[illegible]	[illegible].5	27.1	2.2
16	3.2	[illegible]	[illegible]	22.7	[illegible].1	[illegible]	[illegible]	1.[illegible]	17.2	25.5	[illegible]	24.7	[illegible].1	[illegible].1	[illegible].7	2.[illegible]
17	2.[illegible]	5.4	[illegible]	22.5	3.2	[illegible]	25.3	-2.5	[illegible]	25.3	17.[illegible]	24.5	[illegible]	[illegible].3	[illegible]	1.5
18	-1.4	5.3	15.5	22.3	2.2	[illegible].7	25.2	-2.2	16.4	25.2	17.[illegible]	24.2	5.[illegible]	[illegible].2	[illegible].5	xxx
19	-2.[illegible]	2.7	15.5	22.2	2.2	[illegible].3	25.[illegible]	-2.5	[illegible].2	25.[illegible]	17.[illegible]	24.[illegible]	[illegible]	[illegible]	24.[illegible]	1.2
20	-1.4	4.2	15.[illegible]	22.1	3.5	[illegible]	25.[illegible]	-2.[illegible]	15.[illegible]	24.[illegible]	17.[illegible]	24.[illegible]	[illegible]	[illegible].3	25.7	5.[illegible]
21	[illegible].2	[illegible]	15.[illegible]	21.[illegible]	3.[illegible]	[illegible]	24.7	-[illegible].7	15.7	24.5	17.2	23.9	7.7	[illegible].3	25.4	2.[illegible]
22	[illegible]	7.[illegible]	15.1	21.[illegible]	4.9	[illegible]	24.5	-1.[illegible]	[illegible].1	24.[illegible]	17.1	23.4	[illegible].2	[illegible].4	25.7	3.5
23	[illegible]	[illegible].3	15.1	21.6	2.5	[illegible]	24.3	-2.5	15.7	24.3	16.[illegible]	23.3	4.[illegible]	[illegible].1	25.2	1.[illegible]
24	2.4	7.4	15.1	21.6	7.[illegible]	[illegible].3	24.[illegible]	[illegible]	15.5	24.2	17.[illegible]	23.[illegible]	7.5	[illegible].3	25.2	2.2
25	3.5	5.[illegible]	15.5	21.2	[illegible].5	[illegible].5	24.[illegible]	5.4	[illegible]	24.3	17.2	23.2	11.7	[illegible]	25.2	4.[illegible]
26	7.7	4.7	15.[illegible]	21.2	3.9	[illegible]	24.[illegible]	4.4	[illegible]	23.[illegible]	17.5	22.[illegible]	12.5	[illegible].5	24.1	5.9
27	1.9	4.2	15.5	21.1	7.2	[illegible]	23.[illegible]	3.3	[illegible]	23.[illegible]	17.2	22.7	[illegible].4	[illegible].4	25.[illegible]	[illegible].5
28	3.2	4.[illegible]	15.5	21.1	5.[illegible]	[illegible]	23.7	1.1	[illegible].4	23.5	[illegible]	[illegible]	7.[illegible]	[illegible].2	24.[illegible]	3.5
29	3.[illegible]	[illegible].1	15.5	21.[illegible]	6.9	[illegible]	23.5	1.5	[illegible].5	23.5	17.[illegible]	[illegible].5	7.1	[illegible].5	25.[illegible]	3.2
30	[illegible].5	[illegible].2	15.7	[illegible]	[illegible].9	[illegible]	23.4	[illegible]	17.[illegible]	23.5	[illegible]	22.3	14.2	[illegible].2	24.[illegible]	5.9
MEANS	3.3	[illegible].7	[illegible].7	22.9	[illegible].9	[illegible]	25.[illegible]	3.5	17.[illegible]	25.7	[illegible]	25.1	[illegible].6	[illegible].7	[illegible].7	5.7

NOVEMBER 1969. TABLE 14. (10)

DAILY EVAPORATION (MILLIMETERS) IN PAN CLASS A. AT 0600 GMT.

DAYS	MOSUL	KIRKUK	ANA	RUTBAH	BAGHDAD	NUKHAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	7.4	5	6.3	4	2.3	3	3.6	1	1	2
2	3.9	6.5	1	4.3	2	4.[illegible]	2	2	2.2	4
3	5	2	4	4	2	3	3	2	3	2.2
4	[illegible]	[illegible]	4	4	3	5	2	2	2	4
5	7	2	2	3	3	6	2	2	3	2
6	6	3	1	5	4	6	3	2	2	3
7	[illegible].8	3.8	0.7	5	0.2	6	4.6	1	2.2	2
8	5.6	4.3	3	4	3	7	2	2	3	3
9	5	2	2	4	4	6	3	3	3	3
10	7	3	2	4	4	7	2	3	3	3
11	7	3	3	4	3	6	3	2	3	1
12	[illegible]	3	2	5	4	5	3	2	3	3
13	5	3	3	5	2	5	2	2	3	4
14	5	3	3	5	2	5	2	2	4	3
15	4	2	3	3	4	6	3	3	3	3
16	5	3	1	3	4	6	3	2	2	1
17	5	2	2	3	3	5	2	2	3	3
18	6	3	2	3	2	5	2	1	3	2
19	5	3	1	3	2	6	2	2	1	1.6
20	5	2	3	4	3	4	3	1	2	2
21	4	2	1	3	1	5	2	1	2	2
22	7	3	2	4	4	4	2	2	2	1
23	4	3	2	2.6	1	4	2	1	1	2
24	4	2	0.6	1	2	2.[illegible]	1	1	3	3
25	5	2	2	1	1	4	2	3.9	2	3
26	6	2	4	1	4	4	1	1	3	1
27	4	3	1	3	4	5	2	2	2	1
28	5	2	1	2	1	4	2	2	2	3
29	4.6	2.4	2.3	2.9	2.4	4	1	1	3	2
30	3.4	0.5	1	2	[illegible]	5	1	3	4	1
TOTAL	162.7	82.5	65.9	103.8	80.9	14[illegible].6	68.2	57.1	79.4	7[illegible].3
MEAN	5.4	2.8	2.2	3.5	2.7	5.0	2.3	1.9	2.6	2.4

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	6	0	0	1	2	3	0	0	0	0	0	10	7	-	-	-	-
MOSUL	6	0	0	3	0	0	0	0	0	0	0	14	7	218.0	10.4	5th	0
SALAHADDIN	5	0	0	0	1	1	2	0	0	0	0	14	7	-	-	-	-
KIRKUK	6	0	0	3	0	1	2	0	0	0	0	16	5	-	-	-	-
ANAH	5	0	0	1	0	0	0	0	0	0	0	14	6	-	-	-	-
RUTBAH	3	0	0	0	1	0	0	2	1	0	0	14	2	-	-	-	-
HABBANIYA	3	0	0	2	1	8	2	1	0	0	0	15	1	247.3	10.4	3rd	0
BAGHDAD	3	0	0	2	0	19	22	0	0	0	0	15	1	230.1	10.0	5&6th	1
NUKHAIB	3	0	0	1	0	0	0	1	0	0	0	13	3	-	-	-	-
HAI	5	0	0	3	0	0	0	0	0	0	0	18	2	-	-	-	-
NAJAF	2	0	0	2	0	4	0	0	0	0	0	15	4	-	-	-	-
DIWANIYA	2	0	0	2	0	0	2	1	3	0	0	20	0	-	-	-	-
NASIRIYA	3	0	0	1	0	1	1	0	2	0	0	16	1	-	-	-	-
BASRAH	3	0	1	2	0	3	1	1	1	0	0	16	0	241.3	10.3	4-6th	0

TABLE-15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT M.S.L. AND RELATIVE HUMIDITY

STATION	PRESSURE AT MSL mbs. for 1969 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT M.S.L. mbs. - RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY of 1969. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1027.[illegible]	0300	26th	1011.8	1500	2nd	1030.1	0900	25th	1961	1006.2	0300	22nd	1961	99%	0600	2nd	20	1200	22nd
MOSUL	1026.3	0900	25th	1012.1	1200	2nd	1034.5	0600	22nd	1958	1004.3	1200	7th	1944	95	0300	2nd	19	0900	1st
SALAHADDIN	1025.3	1800	24th	1010.6	1200	20th	1028.7	0300	29th	1967	1007.7	1500	24th	1967	100	1800	[illegible]th	25	1200	23rd
KIRKUK	1025.4	0600	25th	1011.2	1200	2nd	1031.1	0600	30th	1953	1005.8	0000	22nd	1961	95	2100	2nd	14	1200	18th
ANAH	1027.8	0600	26th	1010.8	1500	1st	1027.8	0600	26th	1969	1010.8	1500	1st	1969	94	1800	7th	14	1200	11th
RUTBAH	1026.0	0300	26th	1008.3	1200	1st	1034.7	0600	30th	1953	1004.0	1300	7th	1938	97	0300	25th	16	1200	19th
HABBANIYA	1025.6	0600	25th	1009.3	2100	1st	1030.5	0600	25th	1961	1007.1	0000	22nd	1961	98	0300	9th	27	1200	6th
BAGHDAD	1025.4	0600	25th	1008.6	2100	1st	1029.9	0600	25th	1961	1006.1	1200	7th	1938	95	0300	3rd	17	1200	16th
NUKHAIB	1026.2	0600	26th	1011.9	1800	1st	1030.2	0600	28th	1965	1009.0	1500	2nd	1963	85	1800	2nd	24	1500	22nd
HAI	1025.1	0600	25th	1010.1	0000	2nd	1028.2	0600	30th	1953	1004.9	1200	17th	1957	97	0000	3rd	24	0900	1st
NAJAF	1025.7	0600	25th	1008.6	0000	2nd	1028.2	0600	28th	1967	1004.2	1500	2nd	1963	92	0300	20th	21	1200	16th
DIWANIYA	1025.3	0600	25th	1009.2	0000	2nd	1030.0	1800	29th	1953	1004.5	1200	17th	1957	93	0000	3rd	25	1200	18th
NASIRIYA	1024.6	0600	25th	1009.8	0000	2nd	1028.6	0600	30th	1961	1006.2	1200	7th	1944	90	0300	20th	24	1200	12th
BASRAH	1024.6	0600	25th	1008.7	1200	2nd	1028.2	0600	30th	1961	1004.9	1300	26th	1939	95	0000	9th	31	1200	14th

STATION: BAGHDAD RADIOSONDE STATION. TIME 0000 GMT. UPPER AIR CLIMATOLOGICAL DATA

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE " GPM"				TEMPERATURE °C				DEW POINT °C		W I N D						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS
1000	30	162	206	86	30	15.6	21.0	11.0	30	7.7	30	280	06	140	18	000	00
850	30	1533	1576	1485	30	10.0	15.8	5.0	30	-4.9	30	270	05	220	33	000	00
700	30	3122	3169	3074	30	1.7	5.0	-3.9	30	-14.7	30	300	09	190	28	000	00
500	30	5744	5800	5664	30	-17.3	-12.8	-19.6	30	-27.9	30	270	13	270	35	250	03
300	30	9382	9556	9248	30	-44.4	-41.0	-49.3	30	-55.4	29	280	26	280	65	000	00
200	30	11987	12081	11808	30	-56.7	-50.8	-65.2	14	-66.1	29	270	33	270	94	000	00
150	30	13917	13866	13582	30	-63.3	-57.1	-68.8	6	-68.4	28	270	39	280	98	310	08
100	30	16233	16345	15948	30	-64.3	-59.2	-72.8	3	-67.6	27	260	35	270	89	020	09
70	28	18436	18583	18095	28	-61.6	-56.7	-69.4	8	-66.6	24	260	33	250	67	270	11

N = Total number of Observation.

NOVEMBER 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.

STATION: BAGHDAD RADIOSONDE STATION. TIME 0000 G.M.T.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAX. WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
00004	30	3317	679	-15.8	3940	780	-0.5	2220	615	-27.8	30	12233	193	-62.2	14700	240	-55.0	10800	130	-69.0	13220	164	280	100

N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

مديرية احصائيات المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٢

العدد : ١٢

الشهر : كانون الاول

السنة : ١٩٦٩

I R A Q R E P U B L I C

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

INSPECTORATE GENERAL OF METEOROLOGY

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA for :

VOLUME : 32

No. : 12

MONTH : DECEMBER

YEAR : 1 9 6 9

C O N T E N T S

	TABLE	PAGE
Daily maximum and minimum temperatures	1a-c	1-3
Monthly mean dry-bulb temperatures	2	4
= = vapour-pressure	3	4
= = wet-bulb-temperatures	4	4
= = dew-point	5	4
= = relative-humidity	6	5
= = pressure at M.S.L.	7	5
= = total-cloud-amount	8	5
= = low-cloud-amount	9	5
Surface-wind, number of observations of	10a-c	6-8
Highest wind-speed during one hour	11	8
Daily precipitation	12a-g	9-15
Daily grass-minimum and soil temperatures	13	16
Daily evaporation	14	17
Number of days for the cases of phenomen and duration of sunshine	15a	18
Highest, lowest & records of pressure and relative-humidity	15b	18
Upper air climatological data at Baghdad	16	19
Mean and extreme of the freezing level, the tropopause and the maximum wind speed in upper at Baghdad	17	20

NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE: JANUARY 1969

DECEMBER 1969. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	12.2	4.1	15.5	5.5	[illegible]	5.4	[illegible]	[illegible]	[illegible]	2.3
2	13.6	[illegible]	[illegible]	3.6	[illegible]	2.5	17.5	[illegible]	[illegible]	3.[illegible]
3	14.1	4.6	[illegible]	[illegible]	11.[illegible]	3.1	19.4	5.[illegible]	17.[illegible]	2.1
4	11.7	[illegible]	15.4	[illegible]	11.6	5.0	[illegible]	[illegible]	[illegible]	7.6
5	16.7	5.[illegible]	[illegible]	[illegible]	12.5	5.1	[illegible]	[illegible]	[illegible]	4.9
6	17.8	5.4	[illegible]	[illegible]	14.2	5.[illegible]	21.7	7.[illegible]	[illegible]	4.1
7	[illegible]	[illegible]	[illegible]	5.[illegible]	15.[illegible]	6.3	[illegible]	7.6	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	4.3	13.5	7.[illegible]	[illegible]	[illegible]	[illegible]	2.[illegible]
9	[illegible]	5.4	2[illegible].1	3.6	13.6	5.3	[illegible]	7.2	21.2	3.2
10	15.8	[illegible]	17.3	2.2	14.4	5.4	[illegible]	[illegible]	[illegible]	3.7
11	[illegible]	[illegible]	[illegible]	2.4	14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.6
12	[illegible]	[illegible]	16.1	4.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.[illegible]	5.4
13	13.4	5.4	[illegible]	[illegible]	[illegible]	5.[illegible]	[illegible]	11.[illegible]	[illegible]	5.6
14	14.3	5.[illegible]	17.[illegible]	3.2	[illegible]	3.4	[illegible]	[illegible]	17.2	3.6
15	12.[illegible]	2.3	17.2	[illegible]	[illegible]	2.5	17.[illegible]	5.7	17.[illegible]	[illegible]
16	11.1	4.2	14.3	[illegible]	[illegible]	3.3	[illegible]	[illegible]	15.2	4.5
17	14.[illegible]	5.4	[illegible]	3.[illegible]	12.[illegible]	3.3	[illegible]	5.3	[illegible]	3.[illegible]
[illegible]	13.9	4.[illegible]	[illegible]	4.4	13.3	5.2	[illegible]	[illegible]	[illegible]	6.[illegible]
19	13.5	4.2	14.[illegible]	4.[illegible]	12.5	4.4	[illegible]	[illegible]	[illegible]	2.6
[illegible]	13.3	4.2	13.2	5.3	12.4	7.[illegible]	[illegible]	9.4	14.[illegible]	[illegible]
21	[illegible]	5.4	[illegible]	[illegible]	[illegible]	7.[illegible]	21.7	12.1	[illegible]	5.2
22	[illegible]	[illegible]	23.5	[illegible]	17.[illegible]	[illegible]	24.[illegible]	13.3	21.[illegible]	2.[illegible]
23	12.5	7.[illegible]	14.4	7.4	9.4	[illegible]	14.[illegible]	13.4	17.4	11.5
24	14.1	3.[illegible]	14.[illegible]	7.7	[illegible]	4.[illegible]	14.4	[illegible]	[illegible]	3.2
25	12.2	3.6	14.1	[illegible]	12.[illegible]	3.5	[illegible]	[illegible]	[illegible]	3.4
[illegible]	[illegible]	4.7	11.2	4.[illegible]	[illegible]	5.4	15.2	7.2	[illegible]	7.1
27	[illegible].3	3.1	12.1	[illegible]	4.[illegible]	[illegible]	[illegible]	[illegible]	12.2	5.5
[illegible]	[illegible].3	1.7	[illegible]	3.2	[illegible]	1.4	13.4	4.4	12.2	5.1
29	4.3	[illegible].1	7.3	4.4	[illegible].4	[illegible]	11.[illegible]	3.[illegible]	[illegible].1	5.[illegible]
30	[illegible]	2.2	[illegible]	3.[illegible]	5.[illegible]	2.[illegible]	14.[illegible]	4.2	[illegible]	4.[illegible]
31	7.1	2.1	11.5	6.4	5.[illegible]	[illegible]	11.1	7.0	[illegible]	3.7
MEAN	13.4	5.2	15.[illegible]	4.7	[illegible]	4.7	[illegible]	7.9	[illegible]	4.1
NORMAL	....	....	14.7	2.[illegible]	....	....	15.[illegible]	[illegible]	....	...
HIGHEST	2[illegible].7	12.4	27.2	15.[illegible]	17.[illegible]	[illegible].4	27.1	15.5	21.3	11.5
DAY	[illegible]th	13th	3rd	1st	22nd	22nd	2nd	17th	[illegible]th	23rd
YEAR	1[illegible]65	1[illegible]65	1[illegible]5[illegible]	1[illegible]45	1[illegible]	1[illegible]	1[illegible]5[illegible]	1[illegible]43	1969	1969
LOWEST	1.5	-5.7	-1.7	-7.4	-2.[illegible]	-5.2	5.2	-[illegible].1	[illegible].1	-1.[illegible]
DAY	3[illegible]th	29th	2[illegible]th	15th	23rd	2[illegible]th	23rd	23rd	2[illegible]th	15th
YEAR	1963	1963	1[illegible]29	1959	1[illegible]67	1[illegible]67	1[illegible]67	1[illegible]46	1[illegible]	1[illegible]

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

DAYS	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	1[illegible].4	2.4	1[illegible]	7.[illegible]	2[illegible].4	1[illegible]	1[illegible].5	5.2	24.1	11.4
2	1[illegible].5	3.3	1[illegible]	[illegible]	1[illegible].9	[illegible].2	1[illegible].3	5.5	21.2	.7
3	1[illegible]	4.[illegible]	1[illegible]	5.[illegible]	1[illegible].1	4.3	1[illegible].4	5.4	2[illegible].4	7.4
4	24.[illegible]	7.[illegible]	21.[illegible]	[illegible].5	2[illegible].4	[illegible]	21.7	1[illegible].1	22.3	5.5
5	1[illegible].6	5.5	2[illegible].5	1[illegible]	21.[illegible]	11.3	21.7	1[illegible].7	23.3	[illegible].4
6	1[illegible]	3.[illegible]	1[illegible]	7.[illegible]	1[illegible]	7.5	19.3	5.7	23.[illegible]	7.[illegible]
7	19.4	2.[illegible]	1[illegible]	5.[illegible]	2[illegible].5	5.[illegible]	19.3	5.1	21.2	5.[illegible]
[illegible]	2[illegible]	3.[illegible]	2[illegible]	5.4	2[illegible].4	3.[illegible]	2[illegible]	3.[illegible]	21.7	5.[illegible]
[illegible]	2[illegible]	[illegible]	2[illegible].5	4.3	21.1	4.5	2[illegible].5	3.2	23.[illegible]	[illegible].7
1[illegible]	2[illegible].2	[illegible].2	21.[illegible]	4.5	21.7	3.[illegible]	2[illegible].9	3.5	22.[illegible]	5.[illegible]
11	22.2	2.1	21.4	5.[illegible]	22.3	4.[illegible]	21.3	3.[illegible]	24.5	[illegible].5
12	2[illegible].5	[illegible]	24.[illegible]	5.5	23.[illegible]	4.3	24.5	5.3	23.4	[illegible].5
13	17.2	9.2	2[illegible].7	[illegible]	21.2	[illegible]	2[illegible]	[illegible]	22.2	7.[illegible]
14	14.[illegible]	3.[illegible]	1[illegible].4	7.5	1[illegible]	7.5	17.0	5.2	21.2	[illegible]
15	1[illegible].2	2.3	17.5	3.[illegible]	19.[illegible]	2.[illegible]	17.3	2.[illegible]	2[illegible].4	5.[illegible]
16	15.[illegible]	[illegible]	1[illegible]	5.5	1[illegible].4	[illegible]	17.5	7.[illegible]	18.2	[illegible]
17	1[illegible]	4.2	19.5	3.5	2[illegible]	2.[illegible]	1[illegible]	2.5	22.[illegible]	[illegible].2
1[illegible]	1[illegible].4	4.2	21.[illegible]	7.5	21.[illegible]	5.4	21.[illegible]	5.7	23.5	[illegible]
19	14.[illegible]	2.2	19.2	[illegible].5	19.3	[illegible]	17.[illegible]	5.[illegible]	22.3	12.[illegible]
2[illegible]	1[illegible].2	2.[illegible]	19.2	4.4	19.[illegible]	5.[illegible]	17.[illegible]	4.1	24.[illegible]	11.[illegible]
21	21.1	3.2	1[illegible]	1[illegible]	21.2	11.1	1[illegible].2	[illegible].3	23.2	1[illegible]
22	2[illegible]	2.4	22.7	[illegible]	22.4	14.4	22.[illegible]	[illegible]	23.[illegible]	14.[illegible]
23	1[illegible]	7.1	17.7	14.[illegible]	19.2	14.[illegible]	17.4	1[illegible].3	22.9	15.[illegible]
24	14.2	5.4	17.[illegible]	[illegible]	1[illegible].5	[illegible].5	15.9	4.5	21.[illegible]	11.4
25	17.5	2.[illegible]	11.7	4.[illegible]	15.7	5.5	15.[illegible]	2.[illegible]	2[illegible]	7.4
26	14.[illegible]	4.3	13.[illegible]	[illegible]	13.3	[illegible].5	1[illegible].5	[illegible].2	15.4	[illegible]
27	15.7	4.[illegible]	13.[illegible]	4.5	14.[illegible]	5.[illegible]	1[illegible]	3.1	13.[illegible]	[illegible]
28	17.[illegible]	2.2	13.2	4.[illegible]	15.[illegible]	4.[illegible]	15.1	2.[illegible]	17.[illegible]	3.5
29	15.1	1.[illegible]	1[illegible]	[illegible]	[illegible].4	5.5	12.5	3.[illegible]	[illegible]	5.[illegible]
30	17.7	4.4	13.2	5.[illegible]	14.1	5.[illegible]	12.5	3.5	14.2	5.6
31	17.1	4.[illegible]	13.[illegible]	[illegible].7	1[illegible]	[illegible].4	15.5	5.[illegible]	1[illegible].4	[illegible]
MEAN	1[illegible].1	4.3	1[illegible].1	[illegible]	1[illegible]	[illegible].7	1[illegible].5	5.3	2[illegible]	[illegible].1
NORMAL	14.[illegible]	2.7	17.5	5.[illegible]	17.7	5.2	....	....	1[illegible]	[illegible]
HIGHEST	2[illegible].5	15.[illegible]	3[illegible]	1[illegible].1	2[illegible]	1[illegible].1	2[illegible].3	11.2	2[illegible]	1[illegible].3
DAY	12th	2[illegible]th	5th	2[illegible]th	3rd	1st	13th	7th	1st	9th
YEAR	1969	1933	1950	1952	1956	1945	1965	1965	1943	1950
LOWEST	1.7	-[illegible].9	7.2	-[illegible].7	[illegible]	-[illegible].7	[illegible].3	-5.5	7.4	-4.6
DAY	29th	5th	21st	5th	21st	5th	3[illegible]th	29th	21st	12th
YEAR	1951	1941	1953	1941	1953	1941	1963	1963	1953	1956

DECEMBER 1969. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

DAYS	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	21.2	10.0	22.0	1.0	22.3	13.2	25.4	12.7
2	20.4	9.5	20.1	9.4	19.7	10.6	21.5	11.9
3	21.0	9.0	20.7	4.0	19.5	7.0	22.0	8.1
4	21.0	9.4	22.3	6.0	21.0	7.8	22.7	6.7
5	22.2	12.4	22.9	13.0	23.3	14.2	26.4	11.9
6	20.3	9.5	21.2	9.4	22.3	9.7	24.2	13.2
7	19.8	6.2	20.5	6.0	20.0	8.0	22.2	8.0
8	21.2	7.0	21.6	5.0	21.2	7.5	22.2	6.4
9	23.0	7.0	23.0	6.0	22.1	6.2	21.5	5.2
10	22.0	[illegible]	23.2	[illegible].2	22.6	8.7	22.6	5.0
11	22.6	9.0	23.7	7.7	24.0	8.2	22.7	6.1
12	24.2	7.0	24.2	6.0	21.6	6.1	24.1	6.7
13	21.6	10.0	20.6	7.0	22.0	11.5	25.7	7.1
14	20.4	9.4	20.0	7.1	21.0	6.0	21.3	7.0
15	19.3	7.5	19.3	3.6	18.6	7.7	23.6	9.4
16	17.8	6.0	19.0	7.6	17.0	10.2	20.1	10.0
17	20.2	5.5	21.4	4.5	18.7	6.3	19.3	11.4
18	22.3	7.4	22.0	5.0	20.2	7.3	24.3	7.0
19	22.0	8.6	22.0	5.2	21.2	13.2	27.9	14.4
20	18.4	7.5	21.6	7.0	22.1	10.0	26.9	11.0
21	21.0	10.2	23.5	13.0	23.6	15.6	26.9	15.3
22	22.9	11.0	22.5	10.6	22.2	15.0	26.4	13.4
23	21.5	11.2	21.0	13.0	23.4	16.6	27.0	17.0
24	19.2	10.5	20.4	9.0	19.6	12.4	22.9	16.1
25	18.4	5.8	19.5	5.8	18.0	6.2	21.0	9.1
26	18.4	6.0	17.3	7.0	18.9	12.5	19.0	11.7
27	18.4	5.3	17.6	6.3	16.9	7.5	18.7	9.7
28	16.3	4.0	17.7	4.6	22.0	5.3	18.0	6.6
29	12.2	5.0	12.4	5.1	10.1	5.5	17.7	5.7
30	16.0	4.0	15.4	5.0	14.2	4.7	15.7	4.2
31	18.9	9.2	18.0	5.7	19.0	10.5	20.0	13.5
MEAN	20.2	8.1	20.6	7.0	20.3	9.5	22.6	9.0
NORMAL	....	....	18.4	5.1	18.0	7.1	19.6	8.5
HIGHEST	25.8	12.6	27.0	15.2	28.2	17.0	30.4	19.8
DAY	9th	24th	1&4th	8th	5th	9th	1st	9th
YEAR	1964	1969	1943	1958	1956	1958	1962	1948
LOWEST	8.9	-2.5	8.3	-5.6	8.0	-5.0	7.8	-2.6
DAY	24th	20th	30th	30th	1[illegible]th	6th	26th	13th
YEAR	1967	1964	1948	1948	1956	1941	1963	1956

DRY BULB TEMPERATURES (°C) MONTHLY MEANS TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	6.2	[illegible]	11.9	12.4	11.1	9.1	...	9.9
MOSUL	6.5	5.9	7.6	12.9	15.2	11.7	9.2	7.[illegible]	9.6
SALAHADDIN	...	5.6	6.9	[illegible]	[illegible]	7.6	6.3	...	7.[illegible]
KIRKUK	9.[illegible]	9.1	[illegible]	16.2	17.2	13.2	11.1	10.4	12.2
ANAH	...	5.[illegible]	6.3	12.9	16.3	13.5	9.[illegible]	...	10.6
RUTBAH	6.7	5.6	[illegible]	15.4	17.6	14.[illegible]	10.6	8.2	10.7
HABBANIYA	[illegible].4	[illegible]	10.7	16.3	17.6	13.4	10.9	9.7	11.9
BAGHDAD	9.4	[illegible].2	11.[illegible]	16.5	19.[illegible]	15.[illegible]	11.9	1[illegible].2	12.[illegible]
NUKHAIB	...	...	9.2	15.6	18.1	15.5	11.4	...	14.0
HAI	10.1	9.5	12.[illegible]	19.1	19.5	15.7	12.[illegible]	11.2	13.7
NAJAF	10.1	[illegible]	11.[illegible]	17.2	19.[illegible]	16.5	13.5	11.[illegible]	13.9
DIWANIYA	10.2	[illegible]	11.[illegible]	18.3	20.1	15.7	12.[illegible]	11.2	13.6
NASIRIYA	11.6	10.4	12.7	17.9	20.[illegible]	17.1	14.6	13.0	14.7
BASRAH	11.7	10.[illegible]	13.5	2[illegible].5	21.7	17.1	15.[illegible]	13.3	15.5

TABLE 3. VAPOUR PRESSURE (MBS.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	6.3	7.1	7.9	[illegible].3	[illegible].1	7.6	...	7.6
MOSUL	[illegible].7	[illegible].4	[illegible].6	[illegible].7	1[illegible].1	1[illegible].2	9.7	9.3	9.3
SALAHADDIN	...	6.4	6.6	7.5	7.7	7.5	7.[illegible]	...	7.1
KIRKUK	[illegible].4	[illegible].2	[illegible].6	[illegible].7	[illegible].5	[illegible].9	[illegible].7	[illegible].5	[illegible].6
ANAH	...	7.4	7.6	9.2	9.1	9.[illegible]	[illegible].7	...	[illegible].5
RUTBAH	6.[illegible]	7.[illegible]	7.2	[illegible].2	[illegible].1	7.[illegible]	7.5	7.4	7.5
HABBANIYA	[illegible].7	[illegible].9	9.[illegible]	11.[illegible]	1[illegible].9	1[illegible].7	9.7	9.7	9.9
BAGHDAD	8.6	[illegible].6	9.2	9.9	9.5	9.[illegible]	9.3	9.1	9.3
NUKHAIB	...	...	6.6	7.[illegible]	6.[illegible]	6.9	6.9	...	6.[illegible]
HAI	9.7	9.5	10.6	11.6	11.1	11.3	10.7	10.2	10.6
NAJAF	9.6	9.4	9.5	9.[illegible]	9.7	10.[illegible]	9.9	9.[illegible]	9.7
DIWANIYA	9.8	9.1	10.4	11.6	11.4	11.3	10.4	10.1	10.5
NASIRIYA	9.9	6.5	10.3	11.0	10.7	11.5	11.3	10.7	10.2
BASRAH	12.2	11.5	12.6	14.1	14.0	14.1	13.7	12.8	13.1

TABLE 4. WET BULB TEMPERATURES (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	4.2	6.6	8.1	[illegible]	7.9	6.5	...	6.9
MOSUL	5.8	5.2	6.4	9.[illegible]	11.1	9.5	7.9	6.9	7.[illegible]
SALAHADDIN	...	3.6	4.5	7.0	7.0	5.5	4.5	...	5.4
KIRKUK	7.3	6.7	[illegible]	10.7	11.1	[illegible].4	[illegible].3	7.7	[illegible].7
ANAH	...	4.0	4.9	9.5	11.2	9.7	7.6	...	7.[illegible]
RUTBAH	4.[illegible]	4.1	6.2	10.2	11.1	9.3	6.9	5.[illegible]	7.3
HABBANIYA	6.9	6.7	[illegible].7	12.1	12.6	1[illegible].6	[illegible].7	7.9	9.3
BAGHDAD	7.5	6.6	[illegible].5	11.7	12.2	1[illegible].9	9.[illegible]	[illegible].0	9.3
NUKHAIB	...	...	5.9	9.5	1[illegible].5	9.4	7.3	...	[illegible].5
HAI	[illegible].6	7.[illegible]	9.9	13.[illegible]	13.6	12.1	1[illegible].3	9.4	1[illegible].7
NAJAF	[illegible].3	7.4	[illegible].7	11.9	13.1	11.7	1[illegible].2	9.[illegible]	1[illegible].0
DIWANIYA	[illegible].4	7.2	9.6	13.4	20.1	12.1	11.[illegible]	9.2	11.5
NASIRIYA	9.4	[illegible].5	10.0	12.9	13.7	12.[illegible]	11.5	1[illegible].4	11.2
BASRAH	1[illegible].6	9.7	11.7	15.7	1[illegible].2	14.2	13.1	11.[illegible]	12.9

TABLE 5. DEW- POINT (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	4.2	1.[illegible]	3.2	4.[illegible]	4.2	2.[illegible]	...	3.4
MOSUL	4.[illegible]	4.2	4.7	[illegible].3	7.[illegible]	7.1	[illegible].4	5.[illegible]	5.[illegible]
SALAHADDIN	...	[illegible].3	[illegible].7	2.5	2.9	2.5	1.6	...	1.[illegible]
KIRKUK	3.9	3.5	4.4	4.4	4.7	4.[illegible]	4.4	4.[illegible]	4.3
ANAH	...	2.5	2.9	5.5	5.3	5.3	4.9	...	4.4
RUTBAH	1.9	1.7	2.[illegible]	3.9	3.[illegible]	3.3	2.[illegible]	2.5	2.[illegible]
HABBANIYA	5.3	5.1	[illegible].5	[illegible]	7.[illegible]	7.[illegible]	[illegible].3	5.5	[illegible].5
BAGHDAD	5.2	4.7	5.6	6.6	5.9	6.6	5.7	5.4	5.7
NUKHAIB	...	...	[illegible].9	1.7	1.[illegible]	1.5	1.[illegible]	...	1.3
HAI	7.[illegible]	6.1	7.[illegible]	9.[illegible]	[illegible].4	[illegible].7	7.8	7.4	7.[illegible]
NAJAF	6.2	5.[illegible]	5.[illegible]	[illegible].5	6.3	6.[illegible]	6.5	6.5	6.3
DIWANIYA	6.5	5.5	7.2	9.[illegible]	[illegible].7	[illegible].5	7.5	7.[illegible]	7.5
NASIRIYA	7.[illegible]	6.3	7.2	[illegible].1	7.6	[illegible].[illegible]	[illegible].5	6.7	7.5
BASRAH	9.5	8.6	1[illegible].[illegible]	11.[illegible]	11.[illegible]	11.9	11.4	1[illegible].4	1[illegible].7

RELATIVE HUMIDITY (%) MONTHLY MEANS TIME G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	70	62	50	58	63	67	,,	63
MOSUL	90	90	82	67	60	74	84	87	79
SALAHADDIN	,,	71	67	62	64	73	74	,,	69
KIRKUK	71	71	60	50	47	61	67	69	63
ANAH	,,	84	79	63	52	60	73	,,	69
RUTBAH	73	70	60	40	41	49	62	69	61
HABBANIYA	83	83	77	60	56	71	76	78	73
BAGHDAD	77	80	73	55	40	59	60	74	67
NUKHAIB	,,	,,	39	41	33	41	52	,,	45
HAI	72	82	76	54	50	67	73	77	69
NAJAF	78	83	73	51	42	54	64	72	65
DIWANIYA	78	82	74	56	49	64	71	76	69
NASIRIYA	74	77	71	55	47	59	68	71	65
BASRAH	86	87	80	58	54	72	80	83	75

TABLE 7 PRESSURE (MBS.) AT M.S.L.

SINJAR	,,,	20.7	21.0	20.1	18.7	19.2	20.1	,,,	1019.
MOSUL	20.9	21.0	21.7	20.3	19.0	19.4	20.2	20.4	1020.
SALAHADDIN	,,,	20.6	20.5	19.2	18.0	19.2	20.1	,,,	1019.
KIRKUK	19.9	19.9	20.0	19.4	18.0	18.9	19.5	19.8	1019.
ANAH	,,,	20.5	21.5	20.5	18.3	18.8	19.9	,,,	1019.
RUTBAH	17.9	19.1	19.5	18.3	16.8	17.6	18.6	18.1	1019.
HABBANIYA	19.0	19.3	20.5	19.3	17.9	18.4	19.1	19.0	1019.
BAGHDAD	19.0	19.6	20.3	19.7	18.2	18.5	18.9	19.0	1019.
NUKHAIB	,,,	,,,,	20.0	19.4	17.8	18.2	19.3	,,,,	1019.
HAI	18.8	19.0	20.2	19.3	18.1	18.4	18.8	18.8	1018.
NAJAF	19.1	19.3	20.7	19.5	17.7	18.1	19.1	19.1	1019.
DIWANIYA	19.0	19.3	20.6	19.4	17.8	18.2	19.4	19.2	1019.
NASIRIYA	18.3	18.7	20.0	18.9	17.2	17.6	18.4	18.3	1018.
BASRAH	18.6	18.9	20.3	19.3	17.7	18.0	18.7	18.8	1018.

TABLE 8. TOTAL CLOUD AMOUNTS (OKTAS)

SINJAR	,,,	4.6	5.0	4.6	5.3	4.0	3.2	,,,	4.6
MOSUL	3.6	4.3	5.4	5.2	5.1	4.2	3.0	3.0	4.4
SALAHADDIN	,,,	4.0	4.3	4.5	5.1	4.5	3.5	,,,	4.3
KIRKUK	3.3	3.3	3.4	3.0	4.2	4.0	3.9	3.4	3.7
ANAH	,,	2.0	4.0	3.0	4.1	4.3	3.3	,,,	3.7
RUTBAH	2.1	2.0	3.3	3.5	3.2	3.4	2.5	2.2	2.9
HABBANIYA	3.3	3.6	3.4	3.9	3.7	3.2	3.0	3.0	3.4
BAGHDAD	2.9	2.9	3.6	4.4	4.0	3.8	2.7	3.0	3.4
NUKHAIB	,,,	,,,	3.4	3.4	3.6	3.3	2.[illegible]	,,,	3.3
HAI	2.2	2.4	3.6	3.4	3.8	3.8	2.1	2.0	2.8
NAJAF	2.8	3.0	3.4	3.9	4.2	4.0	2.9	2.9	3.4
DIWANIYA	1.3	2.3	3.0	3.0	3.4	3.0	2.3	1.6	2.5
NASIRIYA	2.3	3.3	3.5	3.5	4.0	3.4	1.8	1.8	3.0
BASRAH	2.6	3.4	3.6	2.9	3.5	3.5	2.4	2.5	3.1

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	,,	1.4	1.7	2.5	2.6	3.0	1.6	,,	2.3
MOSUL	2.9	3.5	3.4	3.2	3.3	3.1	2.9	2.8	3.1
SALAHADDIN	,,,	2.9	2.8	2.8	3.2	3.5	2.9	,,,	3.0
KIRKUK	2.0	2.0	2.3	2.1	2.5	2.7	2.9	2.6	2.4
ANAH	,,,	1.4	2.0	1.8	2.3	2.2	1.7	,,,	1.9
RUTBAH	0.8	0.9	1.2	1.2	1.4	1.6	0.9	0.7	1.1
HABBANIYA	1.2	1.4	1.5	1.8	1.6	0.8	0.8	1.0	1.3
BAGHDAD	0.6	0.9	1.4	1.5	1.7	1.3	0.5	0.7	1.1
NUKHAIB	,,,	,,,	0.9	0.6	0.6	0.6	0.3	,,,	0.6
HAI	1.0	0.8	1.2	1.2	1.6	1.3	0.8	0.8	1.1
NAJAF	0.8	1.0	1.2	1.1	1.2	1.2	0.9	0.9	1.0
DIWANIYA	0.6	1.2	1.5	1.1	1.3	1.7	1.0	0.6	1.1
NASIRIYA	0.8	1.5	1.8	1.5	1.4	1.0	0.7	0.8	1.2
BASRAH	0.5	1.2	1.3	0.8	0.8	0.5	0.6	0.6	0.8

DECEMBER 1969. TABLE 10a. (6)

SURFACE - WIND NUMBER OF OBDERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	21	3	2	0	0	0	2	1	2	29	0	0	0	4
	0600	15	3	2	1	0	0	1	2	7	24	0	0	0	3
	0900	2	2	7	1	4	0	3	3	9	21	1	0	0	3
	1200	1	0	9	3	7	1	5	2	3	27	1	0	0	4
	1500	5	3	3	2	5	1	4	3	5	25	1	0	0	4
	1800	6	4	2	2	3	0	5	7	2	29	0	0	0	4
MOSUL	0000	1	0	0	2	0	0	2	4	22	8	1	0	0	1
	0300	1	0	2	0	2	0	2	4	20	11	0	0	0	1
	0600	3	0	0	3	0	0	4	3	18	13	0	0	0	1
	0900	4	0	1	5	2	1	4	5	9	19	3	0	0	3
	1200	3	1	2	4	4	0	2	5	10	18	3	0	0	3
	1500	2	1	1	4	1	0	1	3	18	13	0	0	0	2
	1800	4	0	1	2	2	0	4	2	16	15	0	0	0	2
	2100	4	0	1	1	1	0	2	5	17	14	0	0	0	2
SALAHADDIN	0300	3	4	4	5	11	0	0	0	4	24	1	1	1	5
	0600	0	3	3	4	12	1	0	0	8	21	0	2	0	5
	0900	1	2	1	4	17	3	0	0	3	21	7	0	0	7
	1200	2	1	3	3	14	5	1	1	1	27	0	3	0	6
	1500	1	1	3	3	9	2	1	3	8	17	3	2	1	6
	1800	1	1	2	3	7	2	2	3	10	15	3	2	1	7
KIRKUK	0000	0	3	0	1	2	0	1	0	24	5	2	0	0	2
	0300	0	1	1	2	1	0	0	0	26	5	0	0	0	1
	0600	0	2	0	0	2	0	0	0	27	4	0	0	0	1
	0900	1	1	0	2	5	0	1	2	19	12	0	0	0	2
	1200	2	1	0	2	3	1	5	1	16	15	0	0	0	2
	1500	0	1	0	2	2	0	0	0	26	4	1	0	0	1
	1800	0	1	0	2	4	0	1	0	23	8	0	0	0	1
	2100	0	1	1	3	1	0	0	0	25	5	1	0	0	1
ANAH	0300	1	0	7	0	0	1	3	0	19	9	3	0	0	4
	0600	0	2	5	0	2	1	7	0	14	13	4	0	0	4
	0900	4	4	7	1	1	0	11	1	2	20	0	1	0	8
	1200	1	3	10	1	1	2	10	1	2	18	9	2	0	10
	1500	2	1	10	0	0	3	8	0	7	15	7	1	0	8
	1800	0	3	7	2	4	1	1	1	12	15	3	0	0	4

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	>34	MEAN V.K.
RUTBAH	0000	0	1	1	6	5	5	5	1	7	17	6	1	0	7
	0300	0	1	2	3	3	9	7	2	4	20	6	1	0	7
	0600	0	0	1	9	3	15	6	1	1	19	9	2	0	10
	0900	1	2	0	2	7	5	8	5	1	14	15	1	0	12
	1200	1	2	0	6	7	5	5	5	0	13	16	2	0	13
	1500	2	1	3	7	5	3	4	5	1	19	10	1	0	10
	1800	3	0	3	6	4	3	4	3	5	17	7	2	0	9
	2100	2	2	3	5	3	4	0	1	5	16	9	1	0	9
HABBANIYA	0000	0	0	1	3	0	2	4	4	17	13	1	0	0	3
	0300	1	1	1	4	0	2	6	4	12	17	2	0	0	4
	0600	0	0	4	2	1	0	8	5	11	10	2	0	0	5
	0900	1	0	0	5	3	1	6	8	7	15	9	0	0	7
	1200	4	1	1	4	4	0	3	10	4	21	6	0	0	7
	1500	3	1	2	3	1	0	0	3	10	10	3	0	0	3
	1800	0	0	1	4	1	1	2	2	20	8	3	0	0	3
	2100	0	0	0	3	3	1	2	3	20	6	5	0	0	5
BAGHDAD	0000	2	0	3	4	1	0	3	7	11	16	4	0	0	4
	0300	1	2	2	5	1	0	4	6	10	18	2	1	0	4
	0600	1	1	0	6	2	0	1	11	9	21	1	0	0	4
	0900	3	0	0	8	1	1	2	15	1	24	6	0	0	8
	1200	2	1	2	6	0	0	2	13	2	19	10	0	0	8
	1500	1	1	0	5	1	0	1	12	10	18	3	0	0	4
	1800	1	1	0	5	0	1	1	11	11	16	4	0	0	4
	2100	1	2	0	5	1	0	3	7	12	14	5	0	0	5
NUKHAIB	0600	1	1	2	3	2	3	6	6	7	18	6	0	0	6
	0900	1	2	6	3	6	0	3	5	5	16	10	0	0	8
	1200	4	0	7	4	3	1	7	2	3	19	9	0	0	8
	1500	1	2	5	5	1	0	2	3	12	15	3	0	0	4
	1800	1	1	10	4	2	0	3	2	0	21	2	0	0	5
HAI	0000	9	0	0	3	3	0	0	10	6	19	6	0	0	6
	0300	11	1	0	2	4	1	0	4	0	18	4	1	0	5
	0600	14	0	0	1	7	0	2	5	2	24	3	2	0	6
	0900	12	0	0	1	10	1	1	5	1	20	9	1	0	8
	1200	16	0	1	0	10	0	1	2	1	20	0	2	0	9
	1500	7	0	0	2	7	0	0	6	9	18	3	1	0	5
	1800	0	1	1	1	6	1	0	4	9	19	3	0	0	5
	2100	7	1	0	3	6	0	0	10	4	20	7	0	0	6

DECEMBER 1969. TABLE 10c. (8)

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	>34	MEAN V.K.
NAJAF	0000	11	0	0	4	1	0	1	10	4	27	0	0	0	3
	0300	5	0	0	4	1	0	2	14	5	26	0	0	0	3
	0600	5	3	0	5	1	1	7	8	1	29	1	0	0	4
	0900	5	1	2	2	3	0	1	13	4	23	4	0	0	4
	1200	6	2	2	4	2	0	1	9	5	24	2	0	0	4
	1500	3	3	3	2	1	1	0	10	8	21	2	0	0	3
	1800	5	1	3	3	0	0	1	10	8	22	1	0	0	3
	2100	7	1	0	5	1	0	3	9	5	25	1	0	0	4
DIWANIYA	0000	0	1	6	3	0	0	7	2	4	24	3	0	0	6
	0300	4	1	5	4	1	0	8	2	5	21	4	0	0	6
	0600	3	0	2	5	1	1	11	3	5	23	3	0	0	6
	0900	5	0	5	3	2	1	8	7	0	25	5	0	0	6
	1200	5	1	3	0	1	0	7	6	2	23	5	1	0	6
	1500	8	0	2	6	1	0	4	4	6	21	4	0	0	5
	1800	5	3	2	5	0	1	8	3	4	22	5	0	0	6
	2100	5	3	3	3	1	1	8	3	4	24	3	0	0	5
NASIRIYA	0000	2	1	6	4	1	0	4	7	6	22	2	1	0	6
	0300	2	0	5	5	1	0	4	7	7	23	0	1	0	5
	0600	2	0	4	6	1	0	7	8	3	28	0	0	0	5
	0900	1	0	4	5	2	1	4	12	2	27	2	0	0	6
	1200	3	0	7	5	0	0	4	11	1	20	10	0	0	5
	1500	2	1	7	2	0	0	5	5	9	17	4	1	0	6
	1800	4	1	5	4	0	0	3	6	8	18	4	1	0	6
	2100	2	2	6	3	1	0	5	8	4	22	5	0	0	5
BASRAH	0000	5	1	5	5	2	0	7	6	0	29	2	0	0	4
	0300	5	4	4	1	3	0	11	3	0	30	1	0	0	4
	0600	3	1	7	2	1	0	12	4	1	29	1	0	0	4
	0900	4	0	6	2	3	1	4	11	0	23	8	0	0	7
	1200	3	1	3	6	4	0	3	11	0	22	9	0	0	8
	1500	2	4	2	5	3	0	3	10	2	28	1	0	0	5
	1800	9	2	0	8	2	2	3	5	0	27	4	0	0	6
	2100	4	2	3	2	6	1	4	9	0	27	4	0	0	6

TABLE 11. HIGHEST WIND SPEED DURING ONE HOUR.

STATION	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	18 knots.	300	1500	30th
MOSUL	15	150	0900	28th
SALAHADDIN	35	180	0300	13th
KIRKUK	18	150	0000	13th
ANAH	27	270	1200	13th
RUTBAH	26	260	1200	31st
HABBANIYA	20	160	2100	30th
BAGHDAD	28	130	0300	23rd
NUKHAIB	18	090	0900	30th
HAI	26	180	0900	23rd
NAJAF	16	320	1500	26th
DIWANIYA	25	110	1200	30th
NASIRIYA	26	130	0000	5th
BASRAH	18	300	2100	26th

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4		1.4	9.4				
5							
6							
7							
8							
9							
10							
11							
12							
13			8.8				
14							
15						tr.	
16							
17							
18	tr.	5.7	1.8	tr.			
19			6.8				
20	tr.	tr.	4.0	7.3			
21				1.8			
22	13.1	22.6	8.0	6.7	2.6	1.9	1.7
23	2.8	18.8	35.0	30.6	1.3		4.2
24							
25							
26	2.1	5.4	33.2	25.3	11.1		12.0
27			5.0	tr.	0.5		
28							
29						tr.	
30	0.8	3.8	3.6	2.2		tr.	tr.
31	3.8	6.3	18.0	16.4	1.1		
TOTAL	22.6	64.0	133.6	72.3	16.6	1.9	17.9
NORMAL	79.8	62.2	92.8	61.9	23.7	20.6	20.0

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	65.5 mms.	20th	1949
MOSUL	70.9	30th	1945
SALAHADDIN	152.4	23rd	1961
KIRKUK	46.3	30th	1945
ANAH	45.6	3rd	1949
RUTBAH	45.7	26th	1935
HABBANIYA	28.2	13th	1938

DECEMBER 1969. TABLE 12b.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm.

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4					tr.		
5							0.3
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16			tr.			0.2	8.7
17							
18							0.1
19			tr.				
20	tr.			tr.	tr.		
21	tr.			tr.			
22	1.0				tr.		
23	3.4	3.4	0.9	1.5	4.8	1.9	0.7
24							
25					0.7	0.8	0.2
26	5.6	0.8		tr.	0.4	0.6	0.6
27							
28							
29	1.0						
30	tr.			tr.	tr.		tr.
31							
TOTAL	11.0	4.2	0.9	1.5	5.9	3.5	10.6
NORMAL	25.7	15.8	28.4	11.1	25.3	24.5	36.7

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	40.0 mms.	5th	1954
NUKHAIB	24.5	27th	1935
HAI	41.0	5th	1954
NAJAF	27.0	7th	1961
DIWANIYA	37.6	18th	1941
NASIRIYA	31.2	3rd	1963
BASRAH	57.0	5th	1954

DECEMBER 1969. TABLE 12 c. (11)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	ZAKHO	RAB-IAA	THARI-ALQRAH	TAL-ABTA	TAL-AFAR	DOHOK	BASHIQAH	HAMMA-MALIL	AQRAH	SLUBI
1										
2										
3										
4										
5							4.0			
6										
7										
8										
9										
10										
11										
12										
13		4.0			1.5				2.3	
14						11.0				
15										
16										
17										
18	26.2						10.0	6.5	20.2	
19						7.5				
20		4.0								
21										
22	17.0			17.0	16.5	21.0	23.0	23.8	33.4	15.0
23	8.7	12.0	24.0		11.0	24.0	16.0	12.6	50.7	16.0
24									tr.	tr.
25										
26					4.5	11.0	9.0	7.0	14.2	13.0
27			4.0	5.0					tr.	
28										tr.
29										tr.
30					1.0	9.0	5.0	4.5	11.8	3.0
31	23.5	4.0		4.0	6.0		5.0	7.0	14.2	19.0
TOTAL	75.4	24.0	28.0	26.0	40.5	83.5	72.0	61.4	149.5	66.0

DECEMBER 1969. TABLE 12d. (12)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	AMA-DIYA	AIN-SIFNI	SHIR-QAT	QUAIR	MAKH-MOOR	IFRAZ	DIANA	RIADH	HAW-IFA	IFT-IKHAR
1						3.4				
2										
3										
4							12.0			
5										
6										
7										
8										
9										
10										
11										
12										
13							5.6			
14										
15										
16										
17										
18							12.0			
19				5.0		2.4				
20							8.0		1.6	
21								3.9		
22			26.2		20.0		24.0		8.3	
23		38.0		25.0	17.0	24.5	45.6	28.7	17.7	6.4
24		40.0				16.7				
25							22.5			
26	5.0	11.3	10.7		12.0			19.1	15.2	5.6
27				15.0		13.4				
28										
29										
30	15.0	10.4	2.6		5.0		24.5		2.2	
31	7.0		9.1	7.0	15.0	10.4	11.0		9.8	4.6
TOTAL	27.0	99.7	48.6	52.0	69.0	70.8	165.2	51.7	54.8	16.3

DECEMBER 1969. TABLE 12e.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	TUZ	KUFRI	SULAI-MANIYA	HALA-BJA	BAQ-UBA	INJANA	MAN-SOOR	JALA-WLA	BALA-DROOZ	MANDILI
1						25.0				
2						5.0				
3										
4									5.0	
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20			16.0							
21			4.0							
22			3.2	10.0	10.2					
23		21.7	32.0	7.0			19.0			49.0
24	6.4			15.0		10.0		25.4		
25				28.0						
26	11.4		24.0	35.0	14.5	2.0	14.0			13.5
27		26.1	4.0						15.0	
28				5.0						
29				20.0						
30			4.0	20.0						
31				25.0						
TOTAL	17.8	47.8	87.2	165.0	24.7	42.0	33.0	25.4	20.0	62.5

DECEMBER 1969. TABLE 12f.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	HADITHA	QAIM	BAIJI	TIKRIT	SAMA-RRA	DUJAIL	ABU-QRAIB	MAHMO-DIYA	KUT.
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									0.7
19									
20			1.6		0.3				
21			0.5				tr.		
22	5.0		6.0		3.0				
23		5.4	17.7	25.0	6.8		1.3		2.2
24							5.0	8.7	
25							0.3		
26	10.0		18.5	17.4	10.0	6.0			
27						25.0	8.0		1.3
28									
29		10.9							
30			2.0						
31			9.3		2.0				
TOTAL	15.0	16.3	55.6	42.4	22.1	31.0	14.6	8.7	4.5

DECEMBER 1969. TABLE 12 g. (15)

DAILY PRECIPITATION (MILLIMETERS) TR. <0.05mm

DAYS	BADRA	BADAA	AMARA	KARBALA	SAMAWA	MARQIL	FAO	HIT
1							1.5	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16		4.0			tr.	7.6		
17			1.5					
18								
19								
20								
21								9.0
22								11.5
23							1.5	
24	5.0	3.0	3.5	6.1				
25								14.3
26	9.0		0.2	4.8	7.6			
27		2.0	1.5					
28								
29								
30								
31								
TOTAL	14.0	9.0	5.7	10.9	7.6	7.6	3.0	34.8

DECEMBER 1969. _ TABLE 13.

DAILY GRASS MINIMUM TEMPERATURES °C AND SOIL TEMPERATURES °C OF 0.3M AND 1.2M

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	7.0	6.4	16.0	20.8	6.7	19.0	23.0	0.6	17.5	23.4	17.8	22.3	12.0	19.7	24.6	7.7
2	-0.8	3.5	15.3	20.6	6.2	18.8	23.3	5.3	16.5	23.3	17.3	22.3	9.8	19.3	24.6	5.8
3	-1.2	0.6	14.1	20.6	4.5	18.5	23.2	-0.2	15.6	23.2	17.2	22.1	6.8	18.6	24.1	1.7
4	7.5	5.4	14.0	20.6	7.7	18.0	23.0	3.5	15.0	23.0	16.2	22.0	6.5	18.2	24.5	0.8
5	6.1	9.9	14.4	20.5	6.1	18.0	23.0	10.4	16.5	23.0	16.8	21.8	11.9	19.0	24.3	5.4
6	0.5	4.2	14.1	20.5	5.6	18.0	22.8	3.6	16.6	23.0	16.5	21.8	9 .3	18.8	24.3	7.7
7	3.1	3.0	13.9	20.1	3.9	17.7	22.6	0.3	15.2	23.0	15.7	21.7	7. 4	18.3	24.2	3.0
8	2.0	1.0	13.5	20.1	2.8	17.4	22.6	-2.4	14.7	22.8	15.0	21.6	6.6	17.7	24.5	0.4
9	1.4	1.0	13.0	19.9	2.2	17.2	22.5	-1.5	14.3	22.7	15.2	21.4	4.8	17.3	24.1	-1.8
10	1.0	4.4	13.1	19.9	2.8	17.0	22.4	-1.5	14.3	22.7	15.2	21.3	7.9	17.2	24.0	-0.7
11	0.6	3.7	13.0	19.9	3.1	17.0	22.3	-0.2	14.5	22.5	15.3	21.2	6.7	17.2	24.0	-1.4
12	0.6	4.6	13.1	19.6	3.7	17.0	22.0	-1.0	14.4	22.3	21.0	15.2	4.9	17.7	22.2	-1.0
13	3.2	9.5	13.4	19.4	7.4	17.2	22.0	7.8	16.0	22.2	15.8	20.8	10.2	17.4	23.8	2.5
14	0.0	1.6	13.3	19.3	5.0	17.3	22.0	4.0	15.5	22.2	16.2	20.8	6.2	17.5	23.6	xxx
15	-4.9	1.7	12.8	19.3	1.4	17.0	21.8	-2.9	14.5	22.0	16.3	20.7	6.2	17.2	23.6	2.4
16	-4.0	3.0	12.3	19.3	3.9	16.3	21.7	0.8	14.3	21.8	14.6	20.5	9.2	16.9	23.5	3.8
17	1.4	2.9	12.1	19.0	1.7	16.3	21.7	-2.5	14.0	21.8	14.2	20.4	6.3	16.7	23.4	6.8
18	1.0	4.1	12.1	18.9	5.9	16.2	21.5	-0.8	14.1	21.8	14.4	20.4	5.3	16.6	23.2	1.9
19	-1.0	5.5	12.8	18.8	8.1	16.5	21.4	1.8	15.0	21.8	15.0	20.2	12.0	17.3	23.1	8.7
20	0.0	6.0	13.4	18.8	2.3	16.5	21.3	0.0	15.2	21.8	14.8	20.1	9.8	17.8	23.1	8.8
21	2.2	10.6	13.9	18.6	9.2	16.5	21.0	7.2	16.0	21.6	15.3	20.0	14.3	18.6	23.0	10.9
22	0.4	8.9	14.5	18.6	8.9	16.5	21.0	10.5	16.2	21.2	16.2	20.2	14.8	19.2	22.9	10.8
23	3.0	11.6	14.9	18.4	13.2	17.2	21.0	9.8	17.4	21.4	17.2	20.0	15.5	19.5	22.9	13.5
24	7.0	5.6	14.6	18.6	4 .9	16.8	21.0	6.0	15.5	21.5	16.2	20.2	11.9	19.4	22.9	12.7
25	5.0	3.0	14.0	18.5	3 .4	16.3	21.0	-1.0	14.8	21.5	15.0	20.3	5 .9	18.3	22.4	3 .8
26	4.0	3.2	13.3	18.5	5 .5	15.8	20.8	-0.6	14.5	21.4	15.0	20.0	11.5	18.2	22.8	5.6
27	3.4	5.7	12.9	18.3	4.0	15.4	20.9	-0.4	13.5	21.5	20.2	14.5	6.8	17.3	22.9	6.4
28	0.8	1.6	12.8	18.4	3.2	15.0	20.5	-1.2	12.9	21.2	13.8	19.8	4.9	16.6	22.8	2.1
29	0.8	3.1	12.6	18.2	4.1	15.0	20.4	-0.5	13.0	21.0	13.6	19.7	4.6	16.7	22.9	0.8
30	0.8	-0.3	12.2	18.2	4.6	14.5	20.3	-0.8	12.5	21.0	13.3	19.6	3.9	15.2	22.1	3.2
31	2.2	5.5	12.2	17.9	6.1	14.5	20.2	1.6	12.5	21.0	13.8	19.6	10.0	15.5	22.4	9.4
MEANS	1.6	4.5	13.1	19.3	5.1	16.8	23.0	1.8	14.6	22.1	15.8	20.4	8 .5	17.8	23.4	4.7

DECEMBER 1969. TABLE 14.

DAILY EVAPORATION IN (MILLIMETERS) IN PAN CLASS A. AT 0600 G.M.T.

DAYS	MOSUL	KIRKUK	ANAH	RUTBAH	BAGHDAD	NUKHAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	2	2	3	3	3	5	3	2	3	2
2	4	2	1	2	3	5	2	2	3	2
3	4	1	2	2	1	5	2	1	1	2
4	3.4	3	3	3	5	3	2	2	4	4
5	5	3	1	2	3	5	2	2	1	2.3
6	6	3	2	3	2	4	2	1	2	1
7	5	2	1	2	2	4	1	3	2	2
8	5	2	2	3	2	5	2	2	3	2
9	6	2	2	3	3	5	1	1	2	3
10	5	2	1	3	2	5	1	2	2	2
11	5	3	2	3	3	5	2	2	3	2
12	4	5	3	3	5	5	2	2	1	1
13	5	2	4	3	3	4	3	2	3	3
14	4	2	2	3	3	4	3	3	1	3
15	4	2	2	2	2	3	2	2	3	1
16	4	1	2	3	1	3	1	2	0.2	1.7
17	4	2	2	3	3	3	1	1	1	1
18	5.7	3	2	3	2	5	1	3	2	3
19	3	3	1	3	2	3	2	2	1	2.1
20	4	1.3	1	3	3	3	2	1	1	1
21	5	1.8	2	3	0	4	2	1	2	3
22	2.5	2.7	0.6	3	3	5	2	1	3	1
23	2.8	5.6	1.3	3	0.4	1.4	1.5	1.8	1.9	2
24	4	1	1	2	2	3	1	2	2	4.7
25	1	1	1	4	1	3	1	0.3	0.8	1.2
26	2.4	5.3	0.1	3	0.5	0.0	1	2.4	3.5	2.6
27	2	1	1.5	3	1	3	1	3	2	2
28	2	1	1	3	1	3	1	1	2	1
29	1	0	1	4	2	2	1	1	2	1
30	0.8	1.2	1	3	4	2	1	1	2	2
31	2.3	4.4	0.1	2	0	3	2	3	2	1
TOTAL	114.0	72.3	49.6	88.0	68.0	116.2	51.5	55.5	62.5	62.6
MEAN	3.7	2.3	1.6	2.8	2.2	3.7	1.7	1.8	2.0	2.0

CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION OF SUNSHINE

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	5	0	0	1	3	8	0	0	0	0	1	2	8	-	-	-	-
MOSUL	7	0	1	0	6	3	0	0	0	0	5	6	8	149.2	9.4	8th	5
SALAHADDIN	11	1	2	3	5	4	0	1	0	0	0	6	5	-	-	-	-
KIRKUK	7	0	0	2	3	7	5	0	1	0	0	9	5	-	-	-	-
ANAH	5	0	1	1	4	10	0	3	0	0	0	6	5	-	-	-	-
RUTBAH	1	0	0	1	0	3	1	5	2	0	0	8	1	-	-	-	-
HABBANIYA	3	0	0	1	7	11	4	4	0	0	0	12	3	210.8	9.8	27th	4
BAGHDAD	4	0	0	2	6	19	0	2	15	1	8	8	5	189.6	9.4	6th	2
NUKHAIB	2	0	0	2	3	3	0	1	0	0	0	10	4	-	-	-	-
HAI	1	0	0	1	3	2	1	3	1	1	0	13	3	-	-	-	-
NAJAF	1	0	0	2	6	8	0	2	3	0	0	6	5	-	-	-	-
DIWANIYA	3	0	0	1	1	3	0	2	0	0	0	15	3	-	-	-	-
NASIRIYA	4	0	0	1	3	4	4	0	2	0	0	10	3	-	-	-	-
BASRAH	5	0	0	2	7	14	3	0	4	0	0	11	4	215.9	9.9	9th	0

TABLE-15b. HIGHEST, LOWEST & RECORDS OF PRESSURE AT MSL AND RELATIVE HUMIDITY

STATIONS	PRESSURE AT MSL-mbs. for 1969. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL.-mbs.-RECORDS HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % 1969. HIGH EST	TIME GMT.	DAY	LOW EST	TIME GMT.	DAY
SINJAR	1026.9	1800	10th	1009.8	1200	23rd	1030.7	0300	27th	1963	1003.1	1500	11th	1963	97%	1500	29th	33	1200	20th
MOSUL	1027.7	0000	10th	1009.9	1200	23rd	1033.7	0600	26th	1947	1004.0	2100	30th	1963	100	0300	30th	32	1200	17th
SALAHADDIN	1026.0	0300	10th	1010.7	1200	23rd	1027.6	1800	18th	1968	1008.0	1800	26th	1968	100	0900	27th	23	1200	12th
KIRKUK	1025.8	0600	10th	1010.6	0000	13th	1031.5	0600	13th	1956	1002.9	1500	30th	1963	100	2100	29th	15	1200	12th
ANAH	1027.0	0900	10th	1007.9	1200	23rd	1029.7	0600	19th	1968	1006.3	1500	26th	1968	99	0600	30th	26	1200	13th
RUTBAH	1025.0	0600	10th	1007.0	1200	30th	1035.9	0600	20th	1947	1005.5	0000	16th	1951	100	0300	29th	15	1200	12th
HABBANIYA	1026.2	0600	10th	1009.3	1200	30th	1028.8	0600	30th	1965	1003.8	1200	30th	1963	100	0600	25th	29	0900	17th
BAGHDAD	1025.4	0600	10th	1008.9	1200	23rd	1032.2	0600	13th	1956	1003.8	1200	30th	1963	100	0000	29th	26	1200	8th
NUKHAIB	1025.8	0600	10th	1011.5	1200	23rd	1030.8	0600	27th	1964	1004.8	1200	30th	1963	97	0600	29th	20	0900	5th
HAI	1024.6	0600	10th	1010.5	1500	23rd	1030.2	0600	22nd	1953	1005.0	0900	22nd	1952	98	0900	29th	32	0900	5th
NAJAF	1026.2	0600	3rd	1009.4	1200	23rd	1028.7	0600	30th	1965	1000.5	0600	10th	1963	100	0300	29th	29	1200	19th
DIWANIYA	1025.0	0600	28th	1010.0	1500	30th	1031.1	0600	12th	1956	1004.8	1200	30th	1963	99	0600	25th	29	1200	9th
NASIRIYA	1024.4	0600	28th	1010.2	1500	23rd	1030.5	0600	13th	1956	1005.7	1200	21st	1966	97	0300	28th	23	1200	9th
BASRAH	1024.1	0600	10th	1012.0	0000	31st	1030.9	0600	27th	1939	1007.3	2100	17th	1966	97	0300	30th	39	0900	4th

DECEMBER 1969. TABLE 16.

STATION: BAGHDAD RADIOSONDE STATION, TIME 0000 G.M.T. UPPER AIR CLIMATOLOGICAL DATA

	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND DIRECTION	AVERAGE VECTOR WIND SPEED KTS	MAX. SPEED DIRECTION	MAX. SPEED SPEED KTS	MIN. SPEED DIRECTION	MIN. SPEED SPEED KTS
1000	29	167	204	98	29	13.1	19.0	6.2	28	7.3	29	270	03	260	18	000	00
850	29	1526	1568	1446	29	8.7	15.3	2.0	28	-3.4	26	240	08	270	40	000	00
700	29	3097	3166	3006	29	-0.7	4.1	-8.0	28	-14.7	26	260	16	210	56	360	05
500	29	5708	5811	5590	29	-17.8	-22.6	-14.0	28	-31.7	25	270	25	260	60	290	08
300	29	9331	9470	9191	29	-44.6	-40.2	-48.1	26	-55.6	25	270	36	320	82	270	06
200	29	11952	12125	11790	29	-58.9	-53.2	-65.3	16	-65.6	25	270	43	260	113	310	10
150	27	13753	13896	13602	27	-59.9	-54.7	-64.2	10	-67.0	24	270	41	280	115	320	08
100	24	16250	16376	16027	24	-61.7	-59.7	-70.2	3	-67.6	20	270	50	270	70	260	10
70	21	18452	18586	18370	21	-64.1	-58.5	-72.2	3	-67.2	16	270	29	270	61	260	10

NOTE: N = Total number of observations.

DECEMBER 1969. TABLE 17.

MEAN AND EXTREME VALUES OF THE FREEZING LEVEL, THE TROPOPAUSE AND THE MAXIMUM WIND SPEED IN UPPER AIR.

STATION: BAGHDAD RADIOSONDE STATION. TIME 0000 GMT.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000 - 360	SPEED " KNOTS "
		HEIGHT "G.P.M"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C				
	29	2951	710	-12.9	3920	802	0.0	1980	604	-23.5	27	11978	204	-60.4	15870	270	-53.5	9900	105	-68.2	11130	226	260	130

NOTE: N = Total number of observation.