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معلومات مناخية لشهر كانون الثاني ١٩٦٣

MONTHLY CLIMATOLOGICAL DATAS FOR JANUARY 1963

مجلد ٢٦ عدد (١) كانون الثاني ١٩٦٣

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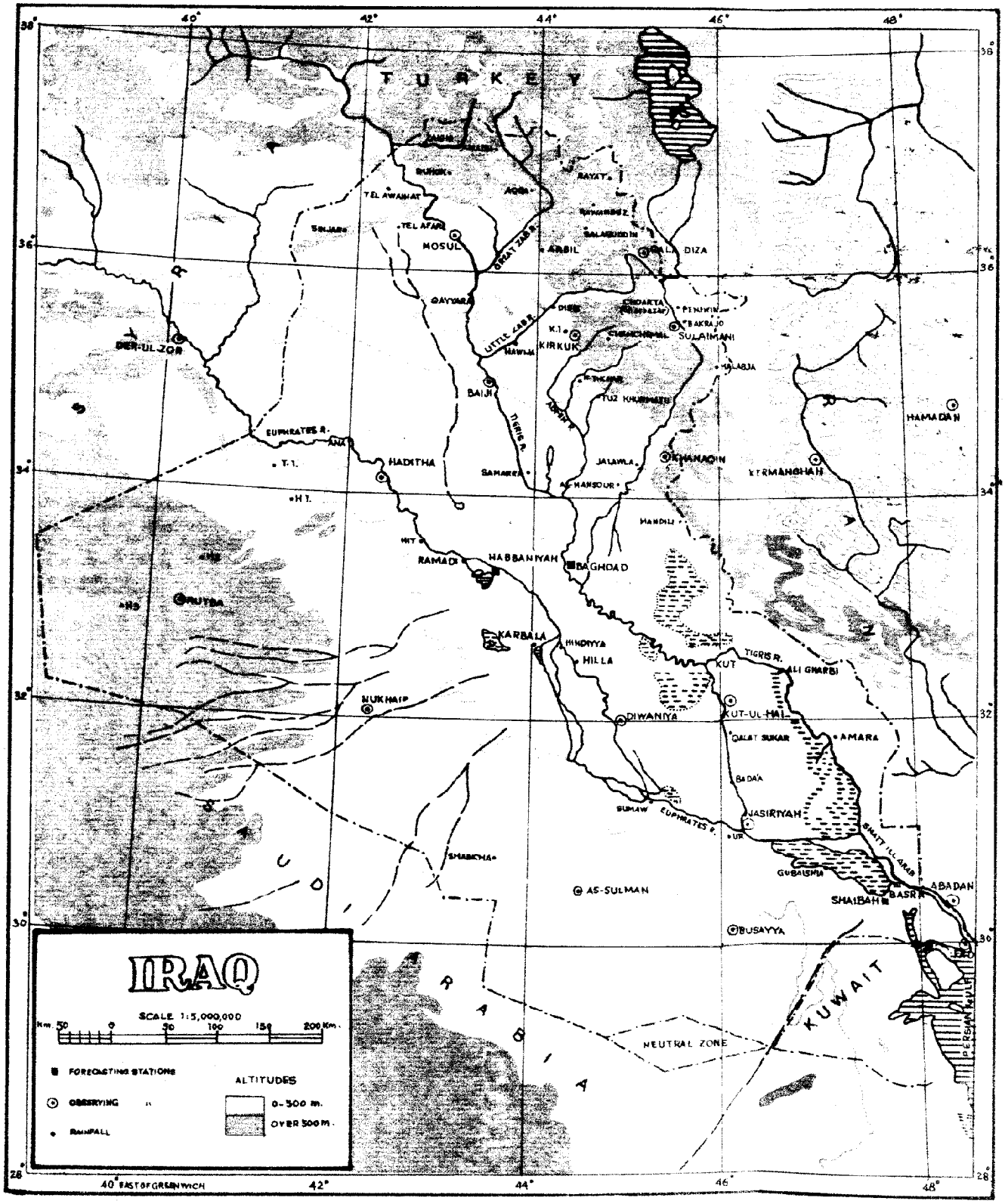
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FORECASTING STATIONS
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RAINFALL
ALTITUDES
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KUWAIT
NEUTRAL ZONE
PERSIAN GULF
MOSUL
ARBIL
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DIZA
DER-UL-ZOR
BAIJ
HADITHA
SAMARRA
JALAWLA
KHANAQIN
KERMANSHAH
HAMADAN
RAMADI
HABBANIYAH
BAGHDAD
KARBALA
HILLA
HINDIYYA
NUKHAIP
DIWANIYA
KUT
KUT-UL-HAI
AMARA
NASIRIYAH
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BASRA
ABADAN
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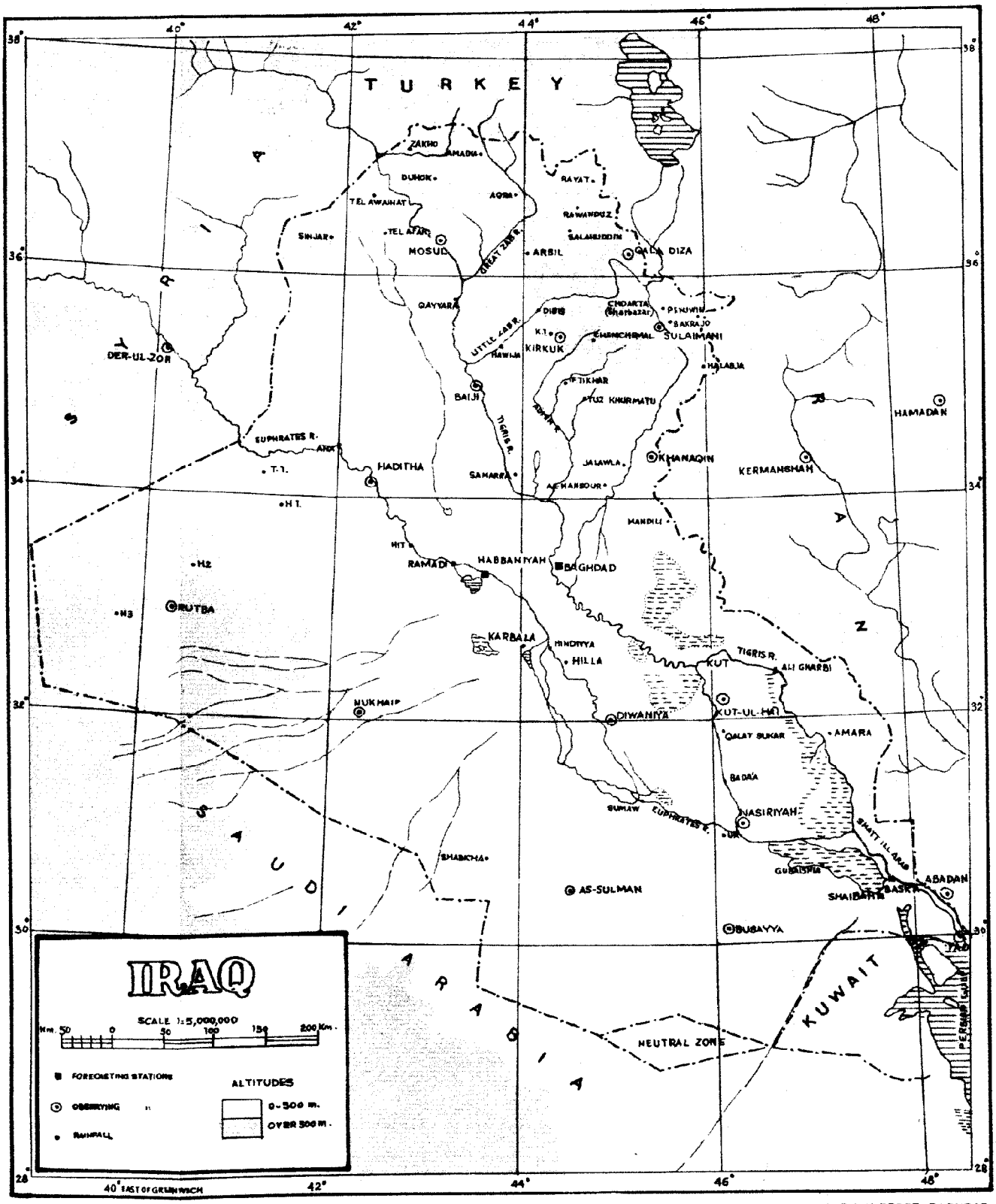
SURVEY PRESS BAGHDAD



SURVEY PRESS. BAGHDAD.

GEOGRAPHICAL DATAB

METEOROLOGICAL STATIONS

STATION	LATITUDE N.	LONGITUDE E.	HEIGHT ABOVE M.S.L. (METERS)
SINJAR	36 19 N.	41 56 E.	538 Meters
MOSUL	36 19	43 09	222.6
KIRKUK	35 28	44 24	330.8
KHANAQIN	34 15	45 26	201.2
KUTBAH	33 42	46 13	615.5
HABBANIYA	33 27	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	3.0
BASRAH	30 34	47 47	2.4

RAINFALL STATIONS

STATION	LATITUDE N.	LONGITUDE E.	HEIGHT ABOVE M.S.L. (METERS
ZAKHO	37 08 N.	42 41 E.	442 Meters
AMADIA	37 05	43 30	1236
RAWANDUZ	36 37	44 53	1006
AQRA	36 45	43 53	716
TELAWAINAT	36 41	42 28	946
TELAAFAR	36 22	42 28	273
QAYARA	35 48	43 17	180
ARBIL	36 11	44 00	414
CHEMCHAMAL	35 32	44 21	701
SULAIMANIYA	35 33	45 27	853
PENJWIN	35 37	45 58	1311
BARRAJO	35 34	45 23	750
HALABJA	35 11	45 59	724
IFTIKHAR	35 03	44 27	204
CHUARTAH	35 44	45 33	1356
SALAHADDIN	36 37	44 13	1088
RAYAT	36 41	44 57	1610
SANAT	36 46	42 48	-
DUHOK	36 52	43 03	860
MIRZARUSTAM	36 03	44 58	459
SHAQLAWA	36 23	44 40	-
BERSANK	36 58	45 32	1946
BINKIRD	36 03	45 03	708
HINDIYA	32 42	44 17	224
HILLA	32 29	44 26	27
KUT	32 30	45 45	19
MANDILY	33 45	45 33	137
AMARA	31 51	47 10	9
SHABICKA	30 42	43 41	-
SAMAWA	31 18	45 16	6
BADA'A	31 26	46 11	9
UR	30 58	46 08	4
SHABISHIYA	30 44	47 05	4
NAQIL	30 34	47 47	2
FAO	29 59	48 30	2
DIBIS	35 41	44 05	239
HAWEJA	35 31	44 18	305
TUZ	34 53	44 39	220
ANA	34 28	41 27	-
DIALA	34 05	45 01	68
JALAWLA'A	34 16	45 09	119
HIT	33 38	42 50	58

P.T.O.

RAINFALL STATIONS (CONTINUED)

ATION	LATITUDE N.	LONGITUDE E.	HEIGHT ABOVE M.S.L. (METERS)
RBALA'A	32 37 N.	44 01 E.	29 Meters
JI	34 56	43 29	115
MIRA'A	34 11	43 50	65
MADI	33 25	43 17	49
DITHA	34 04	42 22	140
MALGHARBI	32 28	46 41	13
LALA	36 37	44 49	1050
BAR	36 52	44 04	400
ANA	36 39	44 33	700
Q-TAQ	35 53	44 35	300
KAN	35 57	45 00	670
RAZ	36 23	43 48	229
DIR KARAM	35 11	44 53	380
NDAL YARIMA	35 45	43 39	340
UFRI	34 42	44 58	210
N SIFNI	36 41	43 21	520
KSINJANQ	36 05	44 48	610
THA	35 03	43 34	150
KHMUR	35 46	43 35	-
RUMIL	34 59	43 59	-
RZINJA	35 23	45 41	-
RBANDIKHAN	35 09	45 47	-
	34 14	41 20	-
	34 55	43 24	-
DIKAN	36 46	44 38	-
RA DAGH	35 19	45 24	-

NOTES ON TABLES

R PRESSURE:- Is expressed in Millibars, the initial 9 or 10 is being itted. One millibar equals 1000 dynes per sq.cm. All mean pressure e reduced to Mean Sea Level.

MPERATURE:- (In Centigrade) , the measurements of temperature are de in Stevenson (Louvred) Screens in the open. The height of the thermeter bulbs is approximately 1.3 meters above the groundlevel.

T BULB TEMPERATURE,RELATIVE HUMIDITY & DEW POINT :- Commencing in this ue , a change in the way of computing the monthly means of humidity asure at specified hours (tables 7,8&9) has been introduced . In plier issues the mean values given have all been arithmatic means comed from daily values, while in this and in future issues the means wet-bulb temperatures, dew point and relative humidities will all be puted from the mean monthly Vapour Pressure and the saturation pressure the monthly mean temperature , thus bringing the caluclation in accorance with the method for computing mean monthly relative humidity recoended in the W.M.O. "Guide to Climatological Practices " chapter 11.3.

AINFALL:- (Millimeters), the daily amount is for 24 hours from 0600 G.M.T. the day of entry to 0600 G.M.T. on the next day . A day is reckoned as day of rain if the total rainfall is 0.2 mm. or more

ATHER:- Days of Fog or Dust are thus on which the range of vision is s than 1000 meter at any time of the day.

EAR DAYS:- Are those on which the average cloud amount at all observaon hours is 0 or 1 okta. Cloudy days are those on the average cloud ount is 7 or 8 oktas.

MES ARE G.M.T. = Local time minus 3 hours.

SSED OBSERVATIONS:- At SINJAR 0000 & 2100 observations are missed.
At KHANAQIN 0000 & 2100 = = =
At NUKHAIB 0000,0300,1800 & 2100 observations are missed.
At HAI 2100 observation is missed.

OBSERVATION : GMT.

DAILY MEAN = $\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8}$

(III)

كانون الثاني ١٩٦٣

كان الجو على العموم غائما الى غائم جزئيا في معظم ايام الشهر و هطلت الامطار في ايام متفرقة في اكثر المناطق و خاصة في الفترة من (٢٣ ـ ٢٧) ، حيث كانت الامطار عامة و مصحوبة بعواصف رعدية و ترابية عمت انحاء القطر .

و كانت الرياح السائدة جنوبية الى جنوبية شرقية نشطة السرعة .

و قد كانت درجات الحرارة فوق معدلاتها بتراوح ما بين (١,٢ ـ ٣,٥) درجة مئوية في كافة المناطق .

اما الضغط الجوى فقد كان تحت المعدل بمقدار مليبارين تقريبا .

JANUARY 1963.

Weather was generally influenced characterised by cloudy to partly cloudy condition most of the month with occasionally rainfall on various days especially during the period (23-27) when it was rainy with thunderstorms and duststorms in all parts of the country .

The main wind-direction was [illegible] to SE'ly;winds were generally gusty.

The temperature was above normal by (2.2 - 3.5) C° in all areas. While the pressure was below the normal by 2 millibars approximately.

كانون الثاني ١٩٦٣

JANUARY 1963

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C^{O}) OF 8 OBSERVATIONS

التاريخ	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	8.4	10.1	11.3	11.6	11.8	11.7
2	9.1	11.8	12.8	14.5	15.2	14.7
3	8.8	10.4	11.0	11.9	14.7	14.0
4	8.2	7.8	11.3	10.8	12.6	12.7
5	8.4	8.0	10.4	9.7	8.2	8.9
6	9.8	8.3	9.5	11.3	10.0	10.3
7	10.9	8.4	9.6	8.9	11.6	11.4
8	10.4	8.1	9.8	9.9	10.3	10.2
9	10.4	7.6	11.0	11.5	9.0	10.1
10	10.1	8.0	12.1	11.7	11.8	11.1
11	10.2	11.1	13.4	10.6	11.3	14.0
12	11.0	8.4	11.0	9.8	11.3	11.8
13	9.9	8.4	11.1	11.0	11.4	12.0
14	10.8	9.8	13.2	13.3	13.8	14.0
15	11.5	12.9	15.3	14.1	16.6	16.2
16	10.1	13.3	15.6	11.8	15.6	17.2
17	12.1	11.9	13.9	10.8	11.8	14.2
18	10.2	10.4	10.2	8.6	11.8	13.2
19	9.6	8.2	8.9	7.3	10.3	11.1
20	8.4	9.5	10.4	10.7	9.5	10.1
21	8.9	12.0	13.9	12.4	13.6	13.3
22	11.2	13.7	15.0	12.2	16.8	16.2
23	12.8	15.1	15.5	12.1	16.8	17.7
24	10.8	13.4	13.2	10.7	16.6	17.6
25	9.9	11.8	13.0	12.1	16.5	16.5
26	8.6	11.0	10.8	9.2	13.7	15.5
27	9.3	10.0	10.7	6.8	12.4	13.5
28	8.7	9.6	11.6	7.9	12.2	13.4
29	9.8	8.8	11.2	9.3	12.3	14.2
30	10.4	8.1	10.1	11.1	10.9	13.0
31	10.5	9.3	11.1	11.2	11.5	12.8
MEANS	10.0	10.2	11.9	10.8	12.6	13.3
DEPARTURE FROM NORMAL		+3.5	+3.2	+3.4	+3.1	+3.1

NOTE: AT SINJAR, OBSERVATIONS 0000 & 2100 ARE MISSED.

JANUARY 1963 .

كانون الثاني ١٩٦٣

TABLE 1-b .

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	16.2	12.2	14.1	13.0	12.9	12.6
2	18.4	14.3	16.3	15.0	15.0	14.3
3	15.0	14.8	14.9	14.0	15.1	16.7
4	15.1	14.9	13.6	13.3	14.0	15.0
5	13.9	12.0	11.5	11.0	12.0	14.0
6	15.7	11.7	11.9	12.0	12.1	12.1
7	14.0	13.1	12.6	12.2	13.1	13.5
8	14.6	12.4	11.5	11.9	12.7	13.0
9	14.8	12.6	11.8	11.2	11.9	12.5
10	16.0	12.3	13.0	12.4	12.7	12.5
11	17.0	13.9	13.9	14.4	15.6	14.7
12	14.8	12.8	13.3	13.3	12.5	14.1
13	15.0	13.8	13.6	13.3	13.4	13.4
14	16.5	14.1	14.9	14.5	13.9	14.2
15	17.7	14.6	16.4	14.1	15.8	15.2
16	16.7	15.0	15.8	15.8	16.4	15.2
17	16.6	14.5	14.4	14.7	15.8	15.2
18	14.0	15.0	14.7	14.7	15.1	14.3
19	12.1	13.1	14.3	12.6	12.7	14.5
20	12.2	10.7	13.4	11.1	11.7	11.8
21	16.4	13.4	17.9	14.4	15.5	15.1
22	19.9	16.9	19.8	17.0	17.5	17.5
23	16.1	17.0	16.4	16.1	16.4	17.9
24	16.0	17.1	18.3	18.4	16.0	16.5
25	15.6	16.4	15.4	16.5	16.6	19.7
26	14.4	16.9	15.4	15.4	17.5	20.1
27	13.1	19.1	14.3	15.3	17.6	20.0
28	11.9	16.3	13.4	15.1	16.0	19.6
29	13.1	16.9	13.9	14.6	16.0	18.6
30	14.3	15.1	13.6	13.7	14.7	17.0
31	14.3	13.9	13.4	13.9	15.7	18.7
MEANS	15.2	14.4	14.1	14.0	14.6	15.5
DEPARTURE FROM NORMAL	—	+3.5	—	+3.5	+2.8	+2.2

NOTE: AT NUKHAIB, OBSERVATION 0000,0300,1800 & 2100 ARE MISSED.
AT HAI, OBSERVATION 2100 IS MISSED.

JANUARY 1963 .

كانون الثاني ١٩٦٣

TABLE 2-a.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

التاريخ	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1022.6	1021.8	1021.0	1020.6	1020.0	1020.4
2	15.9	16.4	16.5	13.5	14.3	15.4
3	13.5	14.4	15.4	14.9	14.3	15.0
4	20.4	20.6	19.4	19.6	19.1	19.1
5	24.4	24.9	23.7	23.1	23.7	22.7
6	24.3	24.8	23.9	22.5	24.7	23.5
7	22.9	23.5	22.5	23.5	22.4	22.3
8	21.2	22.5	21.0	21.9	21.0	21.0
9	21.2	22.1	20.9	19.8	20.3	20.5
10	18.0	19.1	18.5	14.9	17.0	17.9
11	18.3	18.7	18.3	17.7	16.7	16.8
12	21.9	23.2	22.1	22.6	21.7	21.5
13	24.0	24.5	23.6	21.8	22.9	23.1
14	21.0	21.9	21.2	16.9	19.9	20.6
15	16.5	18.0	18.3	13.6	15.9	17.6
16	17.6	18.2	18.3	15.7	15.9	17.2
17	18.7	19.3	19.1	18.6	17.7	17.9
18	22.2	22.9	22.3	21.9	21.3	20.9
19	23.5	23.9	23.3	23.7	23.9	22.6
20	20.6	21.4	21.1	18.1	20.4	20.9
21	18.5	18.7	18.4	12.9	15.6	16.8
22	14.5	16.2	16.1	12.2	13.1	15.0
23	14.5	15.6	15.0	10.0	11.5	13.2
24	09.5	11.0	12.5	09.4	10.4	11.6
25	10.9	12.6	12.9	10.3	11.0	12.0
26	12.8	14.4	14.8	13.4	13.4	13.7
27	20.7	20.9	20.4	19.8	18.8	18.6
28	20.7	21.4	20.0	20.4	19.2	18.9
29	22.2	22.6	20.9	21.1	20.1	19.5
30	20.3	21.2	20.2	18.8	19.7	19.8
31	17.6	18.4	17.6	15.7	16.3	16.5
MEANS	1019.1	1019.8	1019.3	1017.7	1018.1	1018.5
Departure from Normal	....	-0.5	+0.1	-1.9	-1.2	-0.9

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
SINJAR	1026.0	6th	0600	1963	1007.6	24th	0300	1963
MOSUL	1026.9	5	0600	1963	1009.8	24	0000	1963
KIRKUK	1025.6	19	0600	1963	1011.2	24	1200	1963
RUTBAH	1027.6	19	0600	1963	1004.7	23	2100	1963
HABBANIYA	1025.4	6	0600	1963	1007.4	24	0300	1963
BAGHDAD	1025.2	6	0600	1963	1008.3	24	0300	1963
SINJAR	1028.9	20	0900	1962	1007.6	24	0300	1963
MOSUL	1038.4	7	0600	1942	994.8	28	0200	1940
KIRKUK	1030.2	29	0600	1950	1004.9	28	1200	1947
RUTBAH	1039.3	7	0000	1942	1001.2	27	1300	1940
BAGHDAD	1036.0	7	0600	1942	1000.4	28	0300	1940

JANUARY 1963. كانون الثاني ١٩٦٣

TABLE 2-b. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

التاريخ	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1014.2	1020.0	1019.8	1020.5	1020.3	1020.4
2	13.7	18.0	14.8	17.0	18.1	19.5
3	15.1	15.7	13.9	15.6	16.2	17.5
4	19.2	17.9	17.6	19.0	18.3	18.4
5	24.2	22.1	22.3	23.4	22.4	21.8
6	22.2	21.9	21.7	23.2	22.3	21.8
7	23.1	20.3	20.7	22.0	20.9	20.5
8	21.6	19.5	19.7	21.1	20.1	19.9
9	20.2	19.7	18.8	20.4	19.8	19.8
10	15.4	18.2	16.3	18.2	18.0	18.7
11	15.8	16.7	15.0	16.6	16.4	16.7
12	20.0	19.6	20.4	21.2	19.7	19.5
13	22.1	21.1	21.5	22.6	21.7	21.0
14	18.3	20.2	18.8	21.7	20.5	20.5
15	13.4	18.8	15.9	17.8	18.8	19.8
16	16.8	19.1	15.6	17.9	18.9	20.5
17	16.8	18.4	16.2	17.8	17.8	19.6
18	20.7	18.7	17.9	20.2	18.7	19.2
19	24.0	20.6	21.2	22.2	21.0	20.2
20	19.1	20.1	19.5	21.0	20.5	21.0
21	12.2	19.0	14.0	17.1	18.3	20.4
22	22.1	16.8	12.4	14.9	16.4	18.9
23	15.2	15.5	11.8	13.9	14.6	17.0
24	11.5	13.3	10.9	11.9	13.3	15.1
25	10.1	12.5	10.2	12.1	12.2	13.0
26	13.9	13.3	12.2	13.7	13.7	13.9
27	17.9	16.0	16.1	16.9	14.9	15.4
28	18.5	16.4	16.7	17.7	15.7	15.7
29	20.5	16.7	17.6	18.4	16.8	16.4
30	19.5	18.3	18.2	19.3	18.0	17.6
31	14.5	15.6	14.7	15.9	15.0	15.5
MEANS	1017.8	1018.1	1016.8	1018.4	1018.0	1018.4
DEPARTURE FROM NORMAL	....	-0.9	....	-0.4	-0.6	-0.3

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1028.2	12th	0600	1963	1007.6	23rd	1500	1963
HAI	1023.7	5	0600	1963	1011.4	25	1200	1963
DIWANIYA	1025.3	6	0600	1963	1009.4	24	0000	1963
NAJAF	1023.9	6	0600	1963	1009.2	25	1200	1963
NASIRIYA	1024.1	5&6	0600	1963	1010.6	25	1200	1963
BASRAH	1023.4	6	0600	1963	1012.3	25	1200	1963
HAI	1030.8	29th	0600	1950	1004.1	13th	1200	1956
DIWANIYA	1036.1	7	0600	1942	1000.0	10	2100	1953
NASIRIYA	1035.9	7	0600	1942	1002.9	13	1200	1956
BASRAH	1035.1	7	0600	1942	1003.1	28	0200	1940

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TABLE - 3 - الجدول البومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE التاريخ	SINJAR سنجار	MOSUL موصل	KIRKUK كركوك	RUTBAH رطبة	HABBANIYA حبانية	BAGHDAD بغداد	NUKHAIB نخيب	HAI هي	NAJAF نجف	DIWANIYA ديوانية	NASIRIYA ناصرية	BASRAH بصرة
1	76	93	80	40	79	75	47	77	63	68	68	76
2	83	89	73	40	60	63	44	72	59	63	66	74
3	86	92	91	65	85	72	64	72	59	67	63	78
4	84	97	86	67	74	78	61	72	65	69	67	76
5	80	90	93	61	78	88	64	77	66	68	66	78
6	81	89	83	62	74	81	62	75	69	66	64	77
7	66	86	80	67	75	75	68	72	66	71	66	74
8	71	82	78	65	78	76	69	73	76	76	70	78
9	63	83	65	57	82	71	53	71	72	71	71	83
10	64	82	60	34	70	66	42	73	67	67	65	83
11	67	76	58	57	67	63	59	65	63	56	60	79
12	56	83	74	59	71	69	51	72	64	64	65	83
13	76	87	71	51	75	68	49	68	66	64	61	71
14	73	84	66	39	68	67	37	68	63	65	65	72
15	67	68	51	27	50	55	35	64	51	54	56	59
16	76	65	42	59	45	50	36	58	47	50	52	78
17	70	72	52	60	67	58	41	68	57	58	55	79
18	66	80	74	70	74	64	58	66	66	62	64	84
19	58	75	73	62	66	63	60	61	68	65	57	66
20	62	74	65	56	60	64	54	64	64	62	59	69
21	56	82	48	47	55	51	44	51	42	54	56	68
22	64	67	59	33	59	62	35	62	46	56	54	77
23	71	66	57	58	66	59	70	74	77	74	64	75
24	93	84	86	72	65	66	64	71	70	64	77	69
25	89	92	82	61	71	66	56	64	84	74	81	77
26	77	84	91	47	66	64	57	80	66	70	72	75
27	80	84	82	64	76	74	54	71	71	69	75	76
28	72	83	89	62	83	84	74	78	86	75	81	79
29	56	77	73	58	59	56	51	66	64	60	69	76
30	55	75	84	48	70	60	45	55	60	55	55	70
31	63	83	77	50	74	63	47	63	66	53	56	68
MEANS	71	81	72	54	68	67	53	68	64	64	65	75
NORMAL	,,	82	72	69	72	71	,,	70	,,	70	67	79

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	98	0600	24th	43	0900	12th
MOSUL	100	0300	1,3	41	1200	21
KIRKUK	99	2100	6	29	1200	16&21
RUTBAH	95	0300	25	10	1200	15
HABBANIYA	100	0300	5	22	1200	16
BAGHDAD	100	06&09	5	30	1200	16
NUKHAIB	92	0600	9&19	21	1200	10
HAI	92	0300	10	30	1200	30
NAJAF	92	0300	25	25	1200	15
DIWANIYA	91	0300	10	23	1200	16
NASIRIYA	93	0000	29	27	0900	16
BASRAH	100	0300	12,17 &23	41	1200	17

TABLE 4-a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	9.2	7.1	12.4	7.0	14.8	7.6	17.8	4.4	21.3	4.4
2	10.6	7.1	15.0	9.2	15.8	9.0	13.3	6.6	21.0	7.2
3	10.6	5.3	13.0	10.1	12.9	9.8	17.8	10.6	17.3	5.2
4	11.0	5.1	11.5	6.2	17.5	7.9	17.2	8.9	16.4	8.2
5	11.3	3.2	15.2	1.6	16.4	5.8	16.1	4.4	18.5	2.8
6	12.7	4.6	15.3	4.2	15.8	5.5	16.7	4.4	18.2	4.2
7	13.8	5.2	14.8	2.8	15.4	4.5	16.7	4.4	16.3	1.5
8	14.2	6.1	15.7	2.8	17.5	4.0	16.7	2.8	18.2	2.4
9	13.6	4.8	16.6	0.8	20.0	4.8	18.9	2.8	19.5	2.4
10	12.6	5.0	16.1	0.3	19.1	5.8	18.9	4.4	21.8	4.3
11	13.8	4.3	18.2	6.0	19.5	8.1	19.4	6.1	16.5	4.6
12	14.0	5.8	16.3	3.2	15.3	7.0	16.1	7.2	18.4	1.5
13	13.6	6.2	14.5	1.8	17.0	5.9	17.8	3.9	20.6	2.5
14	14.3	6.0	17.3	3.5	21.0	7.8	20.6	6.1	23.1	5.4
15	14.4	6.3	20.2	6.2	20.0	9.5	21.7	7.2	25.2	6.8
16	13.2	5.4	18.6	10.1	20.4	13.0	22.2	6.9	21.0	3.8
17	14.9	7.0	20.4	5.0	20.8	9.4	22.8	5.0	18.8	2.7
18	12.0	7.2	14.7	6.8	14.6	6.6	20.0	12.2	15.0	3.4
19	13.1	5.2	15.3	1.8	15.0	3.4	17.2	4.4	15.0	-1.1
20	12.0	4.4	14.2	5.1	15.9	5.4	15.0	5.0	19.0	3.0
21	11.6	6.2	17.0	5.8	19.0	6.6	21.1	5.6	19.6	5.2
22	13.2	7.2	16.3	7.6	19.0	10.9	23.9	14.4	22.0	7.7
23	14.4	7.4	20.2	11.2	22.0	9.8	25.6	13.9	19.2	4.8
24	13.2	7.0	17.4	11.2	16.9	11.0	20.0	13.9	16.0	8.2
25	11.6	7.5	13.8	10.0	16.8	11.1	21.1	13.3	17.5	6.3
26	11.5	5.4	16.0	9.4	14.5	9.3	15.6	13.3	15.0	4.7
27	11.8	5.0	15.8	5.2	13.2	8.1	13.3	11.1	15.4	0.9
28	12.0	4.2	16.8	4.7	15.4	8.2	17.8	10.6	15.0	-0.8
29	13.4	4.3	15.8	2.6	16.5	0.1	20.0	8.3	14.7	1.8
30	15.3	3.8	16.4	2.3	17.8	5.4	17.8	6.1	19.2	3.8
31	13.1	4.0	15.3	2.7	17.7	6.0	18.9	3.3	18.9	4.9
MEANS	12.5	5.6	16.0	5.4	17.2	7.5	18.6	7.5	18.5	4.0
Departure From Normal	....	....	+3.4	+3.5	+3.9	+3.4	+3.0	+2.9	+5.3	+2.7

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	15.3	30th	1963	1.8	6th	1962
MOSUL	21.0	22nd	1953	-11.1	3rd	1925
KERKUK	22.0	23rd	1963	-6.7	26th	1947
KHANAQIN	27.2	3&4th	1944	-6.7	7th	1942
RUTBAH	25.4	19th	1960	-14.4	6th	1942

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TABLE 4-b .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	21.1	4.4	19.8	4.4	21.0	5.5	19.0	5.0
2	21.7	9.5	19.8	9.5	23.0	9.0	22.0	7.3
3	21.7	10.5	20.2	10.5	19.2	7.0	20.0	10.2
4	18.4	10.5	19.6	8.7	18.6	7.5	21.2	7.5
5	16.7	4.8	16.3	4.9	18.4	4.5	17.2	6.2
6	18.6	3.8	17.3	3.7	21.2	3.8	18.2	5.2
7	18.4	5.2	18.2	6.5	17.0	4.4	18.8	7.4
8	17.3	5.6	17.3	4.6	19.0	4.6	18.0	7.2
9	17.2	2.8	17.7	1.8	19.5	5.0	18.6	5.8
10	18.9	3.1	18.9	4.4	21.2	5.5	20.8	4.2
11	18.8	7.8	20.9	9.2	19.2	6.2	21.0	5.4
12	19.0	6.2	19.4	6.2	19.2	4.5	20.0	6.2
13	20.5	4.5	19.7	4.7	21.2	3.8	20.0	7.2
14	21.7	5.5	22.8	6.5	22.0	4.5	21.6	7.0
15	25.2	10.0	22.9	9.7	25.5	3.6	23.4	6.2
16	23.9	9.3	23.6	11.6	22.3	4.0	23.0	7.2
17	20.0	5.1	20.0	11.6	21.2	5.5	22.6	7.0
18	18.8	6.1	20.1	6.8	18.2	6.4	23.0	7.0
19	17.4	4.9	18.5	5.1	15.8	4.4	18.4	7.9
20	15.9	3.9	16.8	4.4	17.3	4.2	17.6	4.9
21	20.0	3.9	19.8	5.0	21.5	4.3	20.4	4.9
22	22.8	13.0	19.5	12.2	26.0	8.3	22.8	10.8
23	23.4	12.2	23.5	13.6	21.0	11.0	20.2	14.2
24	21.4	13.4	22.4	14.3	19.5	9.2	21.2	14.9
25	21.6	12.2	21.8	12.6	19.6	9.4	21.4	11.3
26	18.3	12.0	20.2	14.3	17.0	8.6	20.5	14.2
27	15.6	9.8	16.4	11.8	15.8	8.4	24.6	14.2
28	15.9	9.3	16.5	11.1	15.0	8.4	19.2	13.5
29	18.4	8.1	20.0	10.4	16.6	4.8	24.2	10.8
30	19.5	4.8	19.4	6.6	18.0	4.8	22.2	7.8
31	20.9	5.2	17.4	7.6	18.2	6.8	19.2	8.6
MEANS	19.7	7.3	19.6	8.2	19.6	6.1	20.7	8.3
DEPARTURE FROM NORMAL	+4.1	+3.2	+3.7	+4.0	....	....	+3.3	+3.0

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	26.1	28th	1941	-8.9	5,6&7	1942
BAGHDAD	25.0	21st	1948	-7.8	5th	1942
HAI	25.0	16th	1960	-6.7	5&6	1942

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TABLE 4-c. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.8	6.8	22.5	5.0	20.2	6.5	19.7	6.1
2	24.0	9.0	24.3	7.2	22.5	6.8	22.0	6.2
3	20.1	11.4	21.0	9.5	20.9	11.8	24.1	9.9
4	19.2	5.6	21.4	6.5	21.2	7.0	22.5	8.0
5	16.8	4.0	18.4	5.6	18.3	6.8	19.7	8.6
6	19.0	4.2	19.6	4.6	19.3	5.4	18.4	4.9
7	17.5	5.6	19.2	6.2	20.1	7.3	21.2	6.1
8	16.8	4.5	17.5	6.9	18.8	7.4	20.0	6.2
9	18.0	3.6	19.5	4.1	19.1	5.2	19.6	5.6
10	19.6	3.0	20.7	4.5	20.5	4.5	19.4	5.6
11	18.5	5.4	23.2	7.1	23.2	9.4	22.7	6.5
12	19.2	5.6	20.0	7.6	20.0	5.2	20.0	8.6
13	19.6	4.9	21.2	6.6	21.0	7.0	20.8	6.4
14	22.0	4.8	24.0	6.5	21.9	5.5	22.4	6.5
15	24.4	9.3	23.5	7.2	23.6	7.2	24.6	6.5
16	23.1	8.8	25.1	8.1	24.8	9.2	23.2	9.0
17	19.4	8.4	23.2	7.9	22.8	9.9	22.9	8.8
18	20.4	8.8	22.8	8.6	22.6	9.2	23.8	5.0
19	18.2	6.8	20.0	6.6	22.4	7.2	19.8	9.0
20	17.4	5.4	18.5	4.5	17.4	5.3	18.5	5.4
21	22.3	5.0	21.5	5.5	23.0	7.8	23.2	6.9
22	24.0	10.8	24.5	11.0	23.7	11.8	23.6	12.2
23	18.5	12.4	19.8	13.1	22.8	13.6	25.3	11.5
24	22.8	9.4	24.6	15.0	22.8	15.2	20.3	12.6
25	20.4	12.0	22.0	10.9	20.3	13.4	24.5	11.2
26	18.5	12.4	25.0	13.2	23.5	14.1	25.7	16.0
27	17.0	11.8	19.5	12.9	23.6	13.4	23.4	13.5
28	16.6	11.0	21.5	11.8	18.4	13.5	23.6	16.0
29	20.8	7.8	23.0	9.6	23.1	10.3	24.2	13.7
30	19.4	6.0	22.2	6.6	22.9	7.1	24.0	10.6
31	18.4	7.8	18.5	7.5	23.2	8.4	25.9	9.3
MEANS	19.4	7.5	21.5	8.0	21.5	8.7	22.3	8.8
Departure From Normal	....	....	+4.6	+4.4	+3.0	+3.0	+4.0	+1.8

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	25.5	28th	1948	-8.3	29th	1950
NASIRIYA	29.3	16th	1960	-7.2	8th	1942
BASRAH	28.6	2nd	1961	-4.4	8th	1942

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TABLE 5 . المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

STATIONS	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	7.9	8.8	11.1	12.1	10.7	9.2	....	10.0
MOSUL	7.3	6.8	8.0	13.1	15.3	12.8	9.7	8.3	10.2
KIRKUK	9.7	9.0	10.5	15.0	16.0	13.1	11.2	10.1	11.8
KHANAQIN	....	9.0	11.1	16.8	18.2	15.4	13.0	....	13.9
RUTBAH	6.5	5.6	8.0	15.5	17.9	15.0	10.6	8.2	10.9
HABBANIYA	9.4	8.3	10.2	16.7	19.0	15.1	12.3	10.8	12.7
BAGHDAD	10.2	9.2	10.8	16.6	19.2	16.2	13.1	11.6	13.4
NUKHAIB	....	....	8.9	16.2	19.0	16.3	....	....	15.1
HAI	10.4	9.3	12.0	19.0	19.9	16.8	13.3	....	14.4
NAJAF	10.5	9.7	9.4	17.2	19.6	17.3	14.1	12.0	13.7
DIWANIYA	9.8	9.0	11.9	19.0	21.0	16.8	13.4	11.6	14.1
NASIRIYA	11.0	9.7	13.0	19.1	20.8	17.6	14.3	12.6	14.8
BASRAH	11.8	10.4	13.1	20.0	21.8	17.7	15.2	13.3	15.4

TABLE 6. المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.0	8.5	8.8	9.2	8.8	8.6	....	8.7
MOSUL	9.3	9.1	9.5	10.5	10.4	10.8	10.1	9.7	9.9
KIRKUK	9.2	9.1	9.3	9.9	9.7	10.1	9.9	9.7	9.6
KHANAQIN	....	8.7	9.3	10.1	10.0	10.0	9.6	....	9.6
RUTBAH	6.4	6.3	6.7	7.3	7.0	7.2	6.9	6.5	6.8
HABBANIYA	9.2	9.1	9.6	10.3	9.9	10.4	10.1	9.5	9.8
BAGHDAD	9.4	9.3	9.9	10.7	10.1	10.2	10.2	9.8	9.9
NUKHAIB	....	....	8.0	8.8	8.9	9.0	....	....	8.7
HAI	9.9	9.7	10.8	12.2	11.8	11.8	10.9	....	11.0
NAJAF	9.9	9.8	9.8	10.3	10.2	10.7	10.7	10.3	10.2
DIWANIYA	9.3	9.0	10.2	11.2	10.7	10.6	10.1	9.7	10.1
NASIRIYA	10.1	9.8	10.6	11.3	10.9	11.3	10.7	10.4	10.6
BASRAH	12.4	11.7	12.7	14.4	13.9	13.9	13.7	13.0	13.2

TABLE 7. المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET-BULB TEMPERATURES(C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	6.0	6.8	8.3	9.2	8.1	7.2	....	7.6
MOSUL	6.6	6.1	7.1	10.5	11.3	10.5	8.5	7.5	8.6
KIRKUK	7.9	7.3	8.4	11.3	11.8	10.4	9.2	8.4	9.4
KHANAQIN	....	7.3	8.6	11.9	12.5	11.3	9.7	....	10.3
RUTBAH	4.2	3.6	5.3	9.4	10.6	9.3	6.8	5.2	6.8
HABBANIYA	7.6	7.0	8.4	12.0	12.8	11.3	9.7	8.6	9.7
BAGHDAD	8.3	7.6	8.9	12.2	13.1	11.7	10.3	9.3	10.2
NUKHAIB	....	....	6.7	10.9	12.3	11.0	....	....	10.3
HAI	8.7	8.0	10.1	14.1	14.3	12.9	10.8	....	11.3
NAJAF	8.8	8.1	9.4	12.5	13.2	12.3	10.9	9.8	10.7
DIWANIYA	8.0	7.4	9.7	13.5	14.2	12.3	10.3	9.4	10.6
NASIRIYA	9.1	8.3	10.4	13.8	14.2	13.0	11.1	10.1	11.3
BASRAH	10.9	9.7	11.8	15.6	16.2	14.6	13.2	12.0	13.0

TABLE 8. معدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW-POINT (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	3.8	4.5	5.0	5.7	5.0	4.7	....	4.8
MOSUL	5.8	5.5	6.1	7.6	7.5	8.0	7.1	6.5	6.8
KIRKUK	5.7	5.4	5.8	6.8	6.4	7.0	6.7	6.5	6.4
KHANAQIN	....	5.0	6.0	7.1	7.0	7.0	6.4	....	6.4
RUTBAH	0.6	0.4	1.2	2.3	1.8	2.1	1.6	0.7	1.4
HABBANIYA	5.7	5.5	6.3	7.4	6.7	7.5	7.0	6.1	6.6
BAGHDAD	6.0	5.8	6.8	7.9	7.2	7.3	7.3	6.7	6.9
NUKHAIB	....	....	3.7	5.0	5.2	5.3	....	....	4.8
HAI	6.9	6.6	8.2	10.0	9.4	9.4	8.3	....	8.4
NAJAF	7.0	6.2	6.8	7.4	7.2	7.9	7.9	7.4	7.3
DIWANIYA	6.0	5.5	7.3	8.6	8.0	7.9	7.2	6.6	7.2
NASIRIYA	7.0	6.6	7.8	8.7	8.1	8.7	7.9	7.5	7.8

TABLE - 9. المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	75	75	66	65	69	71	..	70
MOSUL	91	92	88	70	60	74	83	88	81
KIRKUK	76	79	73	58	54	67	75	79	70
KHANAQIN	..	76	71	53	48	57	64	..	62
RUTBAH	67	70	63	42	34	42	54	60	54
HABBANIYA	79	83	78	56	45	61	71	74	68
BAGHDAD	76	80	76	57	46	56	68	72	66
NUKHAIB	..	..	71	48	42	49	..	..	53
HAI	79	83	77	56	51	62	71	..	69
NAJAF	79	79	70	53	45	55	67	74	65
DIWANIYA	78	79	73	51	43	56	66	71	65
NASIRIYA	77	78	71	51	45	57	67	72	65
BASRAH	90	93	84	62	53	68	80	85	77

TABLE -10. المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

MONTHLY MEAN PRESSURE (mbs.) AT M.S.L.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	19.5	20.2	19.2	17.9	18.3	19.4	....	1019.1
MOSUL	20.4	20.5	21.3	19.8	18.2	18.5	19.6	20.3	1019.8
KIRKUK	19.7	19.7	20.5	19.1	17.8	18.6	19.5	19.6	1019.3
KHANAQIN	....	20.3	20.2	18.1	16.5	17.6	18.8	....	1018.6
RUTBAH	17.5	17.9	19.6	17.7	16.4	17.1	18.0	17.4	1017.6
HABBANIYA	18.2	18.2	19.4	18.4	17.0	17.4	18.0	18.0	1018.1
BAGHDAD	18.6	18.5	19.9	19.0	17.4	17.9	18.4	18.4	1018.5
NUKHAIB	....	....	20.0	18.6	16.5	16.5	....	....	1017.9
HAI	18.2	18.2	19.5	18.3	16.9	17.5	18.1	....	1018.1
NAJAF	17.1	17.4	18.2	17.1	15.8	16.2	16.8	16.8	1016.9
DIWANIYA	18.4	18.7	19.8	18.7	17.1	17.7	18.6	18.4	1018.4
NASIRIYA	18.2	18.3	19.5	18.2	16.8	17.3	18.1	17.9	1018.0
BASRAH	18.4	18.8	20.2	18.9	17.6	18.0	18.6	18.5	1018.7

TABLE -11. المعدل الشهري لكمية الغيوم الواطئة (الأثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	1.4	1.6	2.4	2.9	2.7	1.4	....	2.1
MOSUL	3.5	4.2	4.2	4.3	4.3	3.1	2.4	2.6	3.6
KIRKUK	1.8	2.1	2.9	2.6	3.1	2.6	2.8	2.3	2.5
KHANAQIN	....	2.4	3.0	2.4	2.8	3.0	2.4	....	2.7
RUTBAH	0.7	0.8	1.1	1.3	2.1	1.7	1.1	0.9	1.2
HABBANIYA	0.5	0.9	0.9	0.4	0.6	0.5	0.7	0.7	0.7
BAGHDAD	0.6	0.4	1.2	1.0	0.9	0.8	0.7	0.6	0.8
NUKHAIB	....	....	0.9	0.9	0.7	0.8	....	....	0.8
HAI	0.6	0.6	0.7	0.7	0.8	1.4	1.0	....	0.8
NAJAF	0.4	1.0	1.4	1.6	1.1	0.9	0.7	0.2	0.9
DIWANIYA	0.5	0.9	0.8	1.2	1.3	0.7	0.7	0.7	0.9
NASIRIYA	0.4	0.7	0.8	0.6	0.2	0.3	0.1	0.4	0.5
BASRAH	0.0	0.3	0.8	0.7	0.7	0.5	0.3	0.2	0.4

TABLE -12. المعدل الشهري لمجموع كمية الغيوم (الأثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	3.9	5.1	5.3	5.6	5.1	3.6	....	4.8
MOSUL	4.3	5.3	5.8	6.3	6.1	5.0	3.5	4.0	5.0
KIRKUK	2.7	3.2	4.9	5.1	5.1	4.3	3.8	3.0	4.0
KHANAQIN	....	3.8	5.1	5.2	5.2	4.7	3.3	....	4.5
RUTBAH	2.7	3.3	3.8	3.9	4.6	4.7	2.8	2.6	3.6
HABBANIYA	3.5	4.0	4.6	3.7	3.7	4.0	3.0	3.0	3.7
BAGHDAD	2.9	3.5	4.9	4.4	4.2	3.9	3.0	3.0	3.7
NUKHAIB	....	....	3.6	3.4	3.9	3.6	....	....	3.6
HAI	2.0	3.3	4.7	4.3	3.9	3.7	2.7	....	3.5
NAJAF	2.0	2.9	4.1	4.2	4.3	3.6	2.8	1.9	3.2
DIWANIYA	1.6	2.8	3.4	3.5	3.3	2.9	1.7	1.6	2.6
NASIRIYA	1.5	2.6	3.3	2.8	2.8	2.9	2.1	1.5	2.4
BASRAH	1.2	2.1	3.4	3.2	3.1	2.8	1.9	1.5	2.4

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عدد تكرار رصدات اتجاه الرياح السطحية

TABLE 13-a.

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت الرصد GMT. TIME	الاتجاه DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	السرعة بالعقد SPEED IN KNOTS 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V. K.
مشجار HIJAR	0300	7	2	4	0	2	0	3	0	3	21	6	1	0	8
	0600	11	1	9	1	5	0	0	2	4	23	9	0	0	6
	0900	2	0	5	1	5	1	1	0	6	19	6	0	0	6
	1200	2	0	3	1	1	0	3	1	2	30	5	0	0	8
	1500	6	0	2	1	0	1	4	1	2	24	9	0	0	7
	1800	4	1	6	0	3	1	5	2	1	25	4	0	1	8
	TOTAL	62	6	34	4	20	3	23	6	18	143	39	1	1	7
موصل MOSUL	0000	3	0	5	2	2	0	4	4	2	10	6	1	0	6
	0300	6	0	8	3	2	0	4	5	2	13	8	0	0	7
	0600	5	0	8	2	5	0	4	5	1	18	4	0	0	6
	0900	4	0	5	2	5	0	3	4	1	13	5	0	0	6
	1200	4	0	4	2	2	0	5	4	1	10	6	0	0	8
	1500	5	0	4	2	2	0	3	4	1	9	5	0	0	6
	1800	3	0	3	2	2	0	4	4	1	10	5	0	0	6
	2100	3	0	3	2	2	0	3	4	1	10	5	0	0	6
	TOTAL	34	2	35	27	24	1	32	20	15	116	52	1	1	7
كركوك KIRKUK	0000	4	6	8	3	4	0	1	0	4	12	6	1	0	6
	0300	4	4	7	4	1	0	1	0	5	10	5	0	0	6
	0600	0	4	7	2	2	0	0	0	5	11	4	0	0	6
	0900	3	0	5	4	2	0	0	0	2	11	4	0	0	6
	1200	0	1	5	6	6	0	1	0	2	13	5	0	0	7
	1500	0	1	0	4	5	0	3	0	2	8	6	1	0	8
	1800	0	3	7	6	4	0	0	0	1	7	5	1	0	8
	2400	0	3	6	3	4	0	1	0	2	9	4	1	0	8
	TOTAL	6	18	43	32	23	1	7	1	23	82	39	4	1	6
خانقين KHANAQIN	0300	0	0	0	1	5	0	1	0	3	15	0	0	0	4
	0600	0	0	2	2	4	0	0	0	6	21	0	0	0	4
	0900	1	0	2	2	4	0	0	0	4	19	0	0	0	4
	1200	3	0	2	0	6	0	2	3	4	25	0	0	0	4
	1500	2	0	1	1	8	0	4	0	4	16	0	0	0	4
	1800	1	0	4	1	10	5	0	0	0	18	0	0	0	4
	TOTAL	7	0	11	7	34	5	7	3	26	114	0	0	0	4
رطبة RUTBAH	0000	0	0	0	3	6	7	5	0	3	16	5	0	0	5
	0300	0	0	0	0	5	10	8	0	1	17	5	0	0	5
	0600	1	0	0	1	8	8	7	0	0	21	4	0	0	5
	0900	0	0	2	0	8	8	5	0	0	21	4	0	0	5
	1200	1	0	2	1	8	8	8	0	0	18	5	0	0	5
	1500	5	1	3	2	4	8	8	3	0	25	3	0	0	5
	1800	3	1	1	4	3	6	6	2	0	20	2	0	0	5
	2100	0	2	1	1	4	2	4	1	0	16	4	0	0	5
	TOTAL	11	5	9	12	50	41	47	8	5	154	38	1	0	6

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TABLE 13-b.

عدد تكرار وحدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه									SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	
حبانية HABBANIYA	0000	1	0	4	4	0	0	5	2	15	12	4	0	0	4
	0300	0	1	4	3	1	0	7	1	14	11	5	1	0	5
	0600	1	0	6	5	2	2	4	7	4	20	5	2	0	7
	0900	2	1	5	4	1	1	8	7	2	19	9	1	0	9
	1200	2	1	1	7	4	1	4	8	3	23	2	3	0	8
	1500	3	0	5	6	1	0	2	4	10	16	4	1	0	5
	1800	0	1	8	4	1	0	2	5	10	15	4	2	0	6
	2100	0	0	8	3	2	0	2	4	12	11	7	1	0	7
	TOTAL	9	4	41	36	12	4	34	38	70	127	40	11	0	6
بغداد BAGHDAD	0000	0	1	1	10	0	0	1	8	10	12	7	2	0	7
	0300	0	2	1	11	0	1	3	6	7	16	6	2	0	7
	0600	2	0	0	9	1	1	4	6	8	17	6	0	0	6
	0900	3	0	0	8	3	1	2	11	3	16	11	1	0	10
	1200	3	0	1	8	3	0	3	9	3	14	12	2	0	10
	1500	3	1	1	9	1	0	2	8	6	18	5	2	0	7
	1800	2	1	1	10	0	0	2	3	12	11	7	1	0	7
	2100	2	1	1	10	0	0	1	6	10	13	8	0	0	6
	TOTAL	15	6	6	75	8	3	18	57	59	117	62	10	0	8
نخيب NUKHAIB	0600	1	0	1	2	4	2	13	2	6	22	3	0	0	7
	0900	4	0	1	2	3	2	12	2	5	17	8	1	0	8
	1200	2	0	0	4	4	2	11	3	5	12	13	1	0	9
	1500	4	0	4	1	5	2	5	4	6	20	4	0	1	7
	TOTAL	11	0	6	8	16	8	41	11	22	71	28	2	1	8
حي HAI	0000	0	0	7	2	2	0	2	12	6	12	11	2	0	10
	0300	0	0	7	2	1	0	2	13	6	12	10	3	0	10
	0600	0	2	6	6	0	0	3	10	4	14	11	2	0	10
	0900	1	1	8	3	1	0	7	7	3	9	15	4	0	12
	1200	1	1	8	3	1	0	4	9	4	10	13	4	0	12
	1500	1	0	11	1	1	0	5	3	9	14	5	2	0	7
	1800	1	0	9	3	0	0	3	7	8	15	8	0	0	7
	TOTAL	4	4	56	20	6	0	26	61	40	86	74	17	0	9
نجف NAJAF	0000	3	2	0	1	5	0	2	0	12	12	1	0	0	5
	0300	2	2	0	1	3	2	6	1	8	15	2	0	0	4
	0600	5	2	1	2	5	0	4	7	5	22	4	0	0	6
	0900	9	2	1	3	6	3	1	6	0	25	6	0	0	8
	1200	10	5	0	1	4	2	2	4	2	20	9	0	0	8
	1500	7	5	2	2	5	0	2	6	2	23	6	0	0	6
	1800	3	4	2	2	8	0	0	5	6	20	4	0	0	6
	2100	1	4	0	1	6	0	3	2	8	15	2	0	0	4
	TOTAL	40	27	6	13	42	7	20	31	43	152	34	0	0	6

NOTE: At Najaf, Observations 0000 & 0300 are Not Complete Observations.

BLE 13-c. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت غرينتش TIME GMT.	DIRECTION الاتجاه								CA-LM	SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW		1-10	11-21	22-33	34 &	
ديوانية	0000	7	0	5	7	1	0	6	3	2	23	6	0	0	7
	0300	5	1	7	4	1	0	12	0	1	22	8	0	0	7
	0600	6	2	6	2	1	3	4	5	2	23	6	0	0	6
	0900	9	1	2	4	4	2	5	4	0	17	12	2	0	10
DIWANIYA	1200	9	1	2	3	6	1	5	4	0	18	13	0	0	9
	1500	7	1	6	2	3	1	2	7	2	24	5	0	0	6
	1800	8	0	8	3	2	0	7	1	2	18	11	0	0	8
	2100	4	1	5	7	1	0	6	2	5	19	7	0	0	7
	TOTAL	55	7	41	32	19	7	47	26	14	164	68	2	0	8
ناصرية	0000	2	0	4	7	3	1	7	6	1	28	2	0	0	6
	0300	0	1	1	9	2	4	4	7	3	25	3	0	0	6
	0600	2	1	1	8	2	1	6	8	2	23	6	0	0	7
	0900	1	1	2	7	3	2	5	9	1	19	11	0	0	9
NASIRIYA	1200	3	1	3	9	1	1	6	7	0	20	11	0	0	9
	1500	5	1	1	11	0	1	3	5	4	21	6	0	0	6
	1800	3	0	1	11	0	1	7	5	3	25	3	0	0	7
	2100	4	0	1	10	1	0	3	6	6	20	5	0	0	6
	TOTAL	20	5	14	72	12	11	41	53	20	181	47	0	0	7
بصرة	0000	3	1	5	5	4	1	3	6	3	27	1	0	0	3
	0300	1	1	4	1	4	0	11	5	4	26	1	0	0	4
	0600	0	0	5	4	2	1	10	6	3	27	1	0	0	5
	0900	4	0	3	4	6	1	5	5	3	23	5	0	0	7
BASRAH	1200	4	0	1	7	5	1	1	12	0	22	9	0	0	7
	1500	4	0	2	7	4	0	2	10	2	27	2	0	0	5
	1800	5	0	1	7	6	0	3	8	1	28	2	0	0	5
	2100	4	0	6	7	2	0	4	7	1	28	2	0	0	5
	TOTAL	25	2	27	42	33	4	39	59	17	208	23	0	0	5

ABLE 14. اعلى سرعة ريح حدثت خلال ساعة واحدة

HIGHEST WIND-SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
INJAR	35	100	1800	23rd
OSUL	50	130	0300	22nd
IRKUK	36	140	0000	22nd
AMAQIN	31	180	1200	3rd
UTBAH	22	270	0900	3rd
ABBANIYA	26	110	0600	22nd
AGHDAD	26	140	1500	22nd
UKHAIB	35	120	1500	23rd
AI	28	090	1200	7th
AJAF	20	180	1500	6th
IWANIYA	23	130	0900	21&23rd
ASIRIYA	18	320	0300	28th
ASRAH	20	180	0900	26th

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TABLE 15-a .

الهطول المومي (بالملمترات)

DAILY PRECIPITATION (MILLIMETERS)

DATE	سنجار SINJAR	موصل MOSUL	كركوك KIRKUK	خانقين KHANAQIN	رطبة RUTBAH	حبانية HABBANIYA	بغداد BAGHDAD
1	2.5	3.1	tr.				
2	3.9	3.6	1.6		tr.	tr.	tr.
3	5.3	2.2	9.1	0.4	tr.		0.2
4				9.0	tr.	0.2	
5							
6	3.1						
7 8 9 10 11 12							
13	0.2						
14 15 16							
17		0.3					
18	4.8		0.4		tr.		
19							
20			tr.				
21			3.3	0.2		tr.	0.4
22				0.2	tr.	tr.	1.6
23	32.1	12.6	9.0	0.2	1.0	tr.	0.8
24	2.1	5.5	0.2	5.0	5.0		
25	5.6	7.0	9.9	0.3		tr.	
26	2.6		2.7	12.5	tr.	0.1	0.4
27	2.0		0.4	10.6		tr.	6.1
28				8.5	tr.	7.1	
29				0.4			
30							
31	4.2	tr.	0.2			tr.	0.1
TOTAL	68.4	34.3	36.8	47.3	6.0	7.4	9.6
NORMAL	87.8	66.3	60.7	62.6	16.5	20.2	25.9

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
SINJAR	91.0	2nd.	1942
MOSUL	37.5	13th	1933
KIRKUK	48.1	2nd.	1961
KHANAQIN	67.1	20th	1961
RUTBAH	21.0	7th.	1962
HABBANIYA	36.2	27th	1940
BAGHDAD	35.3	27th	1940

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TABLE 15-b. الهطول اليومـــــي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ	نخيب	حي	نجف	ديوانيـة	ناصرية	بصرة
DATE	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		4.6	tr.			
23	2.0	1.0	8.2	2.3	6.0	
24				4.5	tr.	1.0
25						0.3
26		2.8				
27	1.0	1.8	tr.	1.3	tr.	tr.
28		1.2	0.8		1.0	
29						0.2
30						
31		0.2		tr.		
TOTAL	3.0	11.6	9.0	8.1	7.0	1.5
NORMAL	...	24.9	...	20.5	17.4	28.2

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
HAI	41.9	14th	1947
DIWANIYA	40.0	1st	1960
NASIRIYA	26.0	7th	1951
BASRAH	32.5	17th	1949

JANUARY 1963 .

TABLE 15-a.

كانون الثاني ١٩٦٣

الهطول اليومي (بالملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ	راوندوز	دهوك	عقرة	بكرجو	طوز	تل عوينات	تلعفر	كيارة	صلاح الدين	سرسنك
DATE	RAWA-NDUZ	DUHOK	AQRA	BAKRAJO	TUZ	TEL AWAINAT	TELA-AFAR	QAYARA	SALAH ADDIN	SER-SANK
1	9.4	10.0	7.7	2.0		1.3	3.5	2.0	0.7	10.0
2	33.6	23.0	39.0	18.0		5.1	5.2		1.5	3.0
3	24.3	5.0	35.6	20.0		2.5	2.0	3.5	1.7	34.0
4									2.5	4.0
5									tr.	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17		5.0	1.7							
18			10.3	1.0		2.5				
19										
20									tr.	
21	37.3		5.8	11.0					8.0	
22	4.2			1.0				8.0		5.0
23	17.0	32.0	42.8	16.0				17.0		45.0
24	50.0	22.6	51.8	20.0	8.6	24.1	24.0		tr.	10.0
25	39.2	10.0	37.4	20.0			4.0	20.0	7.0	17.0
26	9.7			23.0	5.6		7.0	10.0	5.1	
27			1.8	31.0					4.9	
28					17.0					
29									tr.	
30									2.0	
31		10.0	4.1	3.0			1.0			
TOTAL	224.7	117.6	238.0	166.0	31.2	35.5	46.7	60.5	33.4	128.0

JANUARY 1963 .

TABLE 15-d.

كانون الثاني ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ DATE	شقلاوة SHAQ-LAWA	جلولاء JALA-WLAA	بيجي BAIJI	افتخار IFTI-KHAR	مندلي MAN-DILY	هيت HIT	فتحة FATHA	ديانا DIANA	زيبار ZIBAR	حلبجة HALA-BJAH
1	6.0							4.3	23.0	3.5
2	60.0							27.0	21.0	14.0
3								18.2	19.0	27.0
4									17.0	
5	39.0									
6 7 8 9										
10									11.0	
11									9.0	
12									23.0	
13 14 15 16 17										
18								1.2		4.0
19									39.0	
20									27.0	
21								27.0	31.0	6.0
22	42.0		1.5					1.2	34.0	
23				5.1		12.2	2.0	14.0	19.0	17.0
24	43.0		7.8		2.5		9.7	37.1		23.0
25	20.0		14.0	26.9		0.6	1.0	32.4		24.0
26	56.5	14.0	1.1		4.0		9.8	10.3	24.0	36.0
27		5.1		5.1		0.8			17.0	26.0
28		12.7			2.5			2.0	41.0	1.5
29 30										
31					2.5			10.1		4.5
TOTAL	266.5	31.8	24.4	37.1	11.5	13.6	22.5	184.8	355.0	186.5

ANUARY 1963 ٥ — كانون الثاني ١٩٦٣

ABLE 15 - e ٥ — الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ	دربند خان	دوكان	طقطق	كويسنجق	شيخان	ك ٢	العظيم	بيركة سور	عمادية	طوسان
ATE	DARBAN-DIKHAN	DUKAN	TAQTAQ	KOISI-NJANQ	SHI-KHAN	K2	ALEI-THAIM	MERGA SOOR	AMADI-YA	TUSAN
1	0.8	3.0	3.0	tr.					9.0	12.0
2	19.8	9.0	5.5	6.0	5.0		1.5	tr.	50.0	9.5
3	9.5	29.0	10.5	22.0	12.0		0.9	8.0	13.0	0.5
4				12.0	10.0			55.0		
5								52.0		
6										
7										
8										
9										
10										
11									tr.	
12										
13										
14										
15									tr.	
16									1.5	
17			tr.						6.0	7.5
18	3.3	2.0								tr.
19				1.0				10.0		
20							0.7			
21	1.5	7.0	7.0						tr.	
22	2.2			13.0					2.0	
23	8.5	16.0	14.5	1.0		14.0		53.0	43.0	35.5
24	24.0	2.0	tr.	18.0	9.0		0.7		44.0	6.5
25	23.5	30.0	17.0	24.0	7.0	16.0		54.0	39.0	12.0
26	39.0	5.0	6.0	42.0	10.0		0.2		2.5	3.0
27	26.5	13.0		6.0			3.2	56.0		
28	1.0			2.0				8.0		
29			tr.	1.0				tr.		
30								19.5		
31	3.3			tr.					11.5	8.0
OTAL	162.9	116.0	63.5	148.0	53.0	30.0	7.2	315.5	221.5	94.5

JANUARY 1963 .

TABLE 15 - f .

(19)

كانون الثاني ١٩٦٣

الهطول اليومي (بالمليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ	كوت	عنة	سامراء	عزيزية	سعدية	بدرة	كربلاء	سماوة
DATE	KUT	ANAH	SAMIRA'A	AZIZIYA	SAIDIYA	BADRA	KARBALAA	SAMAWA
1								
2			1.2					
3			2.5					
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20			tr.					
21	6.0							
22	4.0							
23	0.2	14.0	tr.					
24	0.2						2.0	
25			tr.	2.5				
26	0.3				7.0			
27	3.0		10.4	5.0	9.0			
28				4.0			2.5	4.0
29					8.0			
30								
31								
TOTAL	13.7	14.0	14.1	11.5	24.0		4.5	4.0

JANUARY 1963 .

TABLE 15 - B .

كانون الثاني ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

التاريخ	بدعة	بعقوبة	منصور	علي الغربي	فاو	اور	معقل	
DATE	BADA'A	BAKOBA	MANSOOR	ALI ALGHARBI	FAO	UR	MAQIL	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22		1.3		0.4				
23		1.2				11.2		
24								
25								
26		1.7	3.8	3.5				
27		6.7	5.1	1.5				
28			10.2	2.7				
29	6.0							
30								
31								
TOTAL	6.0	10.9	19.1	8.1		11.2		

TABLE - 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

No. OF DAYS FOR THE CASES OF PHENOMENAS عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	12	0	0	0	1	0	0	4	0
MOSUL	7	0	0	2	8	2	0	9	0
KIRKUK	10	0	0	2	0	2	3	8	0
KHANAQIN	11	0	0	2	0	0	4	9	0
RUTBAH	2	0	0	1	0	0	5	0	0
HABBANIYA	2	0	0	1	1	2	4	4	6
BAGHDAD	6	0	0	0	2	1	5	5	3
NUKHAIB	2	0	0	0	0	0	7	4	0
HAI	6	0	0	0	0	0	8	3	0
NAJAF	2	0	0	2	0	0	8	4	0
DEWANIYA	3	0	0	2	1	1	13	2	0
NASIRIYA	2	0	0	0	0	0	17	2	0
BASRAH	3	0	0	0	6	0	12	1	0

TABLE - 17 .

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	No. OF DAYS WITHOUT SUNSHINE
MOSUL	143.2	9.4	7th.	3
HABBANIYA	204.0	9.6	14&16th	0
BAGHDAD	174.3	9.3	13th	0
BASRAH	238.8	9.9	15&30th	0

TABLE - 18 .

MONTHLY MEAN TEMPERATURE OF : : المعدل الشهري لحرارة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL	....	11.4	16.0
KIRKUK	4.1	12.9	16.9
HABBANIYA	2.4	15.1	19.7
BAGHDAD	4.7	14.4	20.3
HAI	7.1	....	....
NAJAF	....	13.3	18.5
NASIRIYA	7.9	16.4	21.8
BASRAH	6.4	....	....

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

REPUBLIC OF IRAQ

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

METEOROLOGICAL DEPARTMENT

شعبة المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 2
Vol. 26
Month February
Year 1963

العدد ٢
مجلد ٢٦
الشهر شباط
السنة ١٩٦٣

الجمهوريـــــة العراقيـــــة

وزارة المواصلات

مديرية الطيران المدني العامـــة

مديرية الانواء الجوية العامـــة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر شباط ١٩٦٣

MONTHLY CLIMATOLOGICAL DATAS FOR FEBRUARY 1963

مجلد ٢٦ عدد (٢) شباط ١٩٦٣

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NOTES ON TABLES : SEE JANUARY 1963 .

GEOGRAPHICAL DATA : SEE JANUARY 1963 .

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FEBRUARY 1963 .

TABLE 1-a.

(١)

المعدل اليومي لدرجات الحرارة (مئوية)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	10.6	12.2	13.1	11.8	13.1	14.2
2	10.7	10.1	10.8	10.8	13.1	15.2
3	10.1	6.6	11.6	8.7	11.4	12.7
4	9.6	6.6	12.3	8.3	10.4	10.6
5	10.6	8.9	13.0	10.3	10.8	10.7
6	11.2	8.8	12.9	11.7	10.6	11.2
7	10.9	9.7	14.5	11.7	11.6	11.5
8	12.5	11.0	13.7	13.1	12.5	12.8
9	12.6	11.6	14.8	10.6	12.6	13.0
10	10.3	14.1	14.6	10.3	13.9	14.9
11	8.7	11.2	12.0	9.5	14.2	13.6
12	6.6	10.4	10.2	11.1	13.9	13.5
13	9.7	11.0	11.5	10.7	13.6	13.4
14	10.6	12.4	12.5	12.6	14.0	14.3
15	11.2	14.1	14.7	12.8	16.6	16.4
16	11.6	14.3	15.1	11.9	16.3	18.3
17	10.5	10.6	13.0	11.7	14.9	16.3
18	12.6	11.6	12.8	13.2	14.4	15.9
19	12.8	12.2	14.3	16.6	16.5	16.3
20	11.5	12.6	14.2	13.1	15.4	15.0
21	11.4	13.4	13.8	12.9	14.8	15.8
22	11.1	14.0	15.6	15.8	16.6	16.1
23	11.4	12.9	14.9	12.8	15.6	15.5
24	10.0	10.4	13.1	12.0	13.7	15.7
25	9.1	10.6	12.8	10.8	13.4	17.2
26	9.1	9.0	10.5	12.4	13.9	14.9
27	6.8	7.1	10.8	10.4	14.0	14.1
28	9.3	10.0	10.8	7.8	12.1	13.7
MEANS	10.5	11.2	13.0	11.6	13.9	14.6
DEPARTURE FROM NORMAL	....	-2.8	-2.5	-2.3	-2.1	-2.3

NOTES: OBSERVATION GMT.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

AT SINJAR OBSERVATIONS 0000&2100 GMT. ARE MISSED.

AT KHANAQIN OBSERVATIONS 0000&2100 GMT. ARE MISSED.

AT NUKHAIB OBSERVATIONS 0000,0300,1800&2100 GMT. ARE MISSED .

AT HAI OBSERVATION 2100 GMT. IS MISSED .

FEBRUARY 1963 .

TABLE 1-b.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 6 OBSERVATIONS

الايام	نخيب	هي	نجف	دبدابة	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	16.5	16.4	15.0	15.6	17.8	14.1
2	15.0	17.4	14.6	15.9	17.9	19.5
3	13.1	14.9	13.1	13.1	15.1	16.8
4	13.9	12.4	12.6	12.1	12.8	13.2
5	16.5	13.9	13.2	12.6	13.8	15.8
6	16.5	13.5	13.1	12.2	13.4	14.9
7	16.7	15.0	13.7	13.2	13.8	14.2
8	18.9	15.9	15.4	13.9	14.0	13.8
9	15.3	14.5	14.6	13.0	15.6	16.9
10	14.3	14.6	14.8	14.1	15.9	17.1
11	15.0	13.4	13.6	13.5	13.7	15.8
12	14.3	15.1	15.2	14.7	15.3	15.8
13	14.6	15.7	15.0	14.8	15.0	16.0
14	16.2	15.1	15.2	14.8	15.4	15.8
15	18.4	16.7	18.3	16.3	15.2	16.2
16	17.5	16.9	17.8	17.0	18.1	18.1
17	17.7	17.1	17.0	16.3	17.2	18.7
18	18.9	17.2	16.5	15.9	16.6	17.6
19	20.2	16.5	15.2	16.8	15.7	16.7
20	15.7	17.2	17.4	17.2	19.0	19.6
21	16.6	17.6	15.4	16.4	18.1	20.6
22	21.9	19.5	20.8	19.7	21.5	21.2
23	18.0	18.5	17.8	16.9	19.3	21.7
24	19.5	19.7	18.1	19.7	20.2	21.6
25	17.2	20.4	17.7	18.5	21.0	22.3
26	15.4	17.6	16.4	16.1	18.2	19.0
27	15.9	16.2	16.1	16.9	19.1	21.0
28	13.3	17.3	14.3	15.7	18.4	20.6
MEANS	16.5	16.2	15.7	15.5	16.7	17.7
DEPARTURE FROM NORMAL	****	-3.3	****	-2.7	-3.0	-3.3

شباط ١٩٦٣

FEBRUARY 1963 .

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1018.2	1018.1	1017.2	1016.9	1016.7	1016.7
2	22.3	22.6	22.0	20.7	20.6	20.4
3	24.7	24.7	23.0	23.5	22.3	21.8
4	23.9	23.8	22.1	23.1	21.8	21.4
5	24.7	24.1	22.4	23.1	22.3	22.9
6	23.6	23.1	21.6	21.4	21.2	21.3
7	22.1	22.3	20.1	18.7	19.6	19.7
8	21.8	21.4	19.6	16.6	18.5	18.8
9	18.1	17.9	16.8	14.7	15.6	16.4
10	11.9	12.2	11.5	13.3	11.3	11.3
11	11.6	10.5	10.6	08.3	09.2	10.7
12	11.1	09.4	09.5	09.3	09.2	10.3
13	17.3	16.1	15.7	16.9	15.7	16.0
14	19.9	19.4	19.6	18.7	18.8	19.3
15	19.2	19.3	19.4	16.1	17.6	18.8
16	16.9	17.6	17.8	17.4	15.3	17.5
17	23.6	22.4	21.6	20.7	20.4	20.5
18	23.8	23.4	22.5	20.5	21.7	21.8
19	19.4	19.8	19.0	14.9	17.7	18.6
20	15.6	15.9	15.6	12.2	13.0	13.8
21	16.5	16.9	17.2	14.3	15.5	15.9
22	12.5	11.9	12.3	10.0	10.2	11.7
23	12.6	12.9	12.9	12.6	12.3	12.8
24	13.8	14.0	13.1	11.3	10.6	11.1
25	09.8	10.1	10.3	12.3	10.3	10.8
26	20.3	21.0	20.7	18.7	19.5	19.6
27	21.1	20.4	18.3	15.4	16.5	16.7
28	19.1	19.3	18.3	19.6	18.5	18.2
MEANS	1018.4	1018.2	1017.5	1016.6	1015.8	1017.0
DEPARTURE FROM NORMAL	####	-0.1	+0.1	+1.0	+1.7	+0.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1026.8	5th	0600	1963	1007.5	25th	0300	1963	1963
MOSUL	1026.6	3rd	0600	1963	1006.7	12th	0300	1963	
KIRKUK	1024.5	3rd	0000	1963	1005.2	25th	0000	1963	
RUTBAH	1025.5	5th	0600	1963	1005.4	11th	1500	1963	
HABBANIYA	1024.3	3rd	0600	1963	1005.2	25th	0300	1963	
BAGHDAD	1023.6	3&5th	0600	1963	1003.7	25th	0000	1963	
SINJAR	1027.6	23rd	0300	1962	1002.2	17th	1500	1962	RECORD
MOSUL	1035.7	8th	0600	1950	1000.8	22nd	1500	1952	
KIRKUK	1034.4	8th	0600	1950	1000.3	26th	0300	1949	
RUTBAH	1037.9	8th	0000	1950	999.0	9th	1300	1941	
BAGHDAD	1033.7	8th	0600	1950	998.4	2nd	1800	1956	

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TABLE 2-b . المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1017.2	1014.7	1014.6	1016.0	1014.3	1018.9
2	19.5	17.4	17.9	18.8	17.1	16.7
3	22.4	19.4	20.3	21.2	19.5	18.8
4	21.9	19.9	20.2	21.1	20.4	20.0
5	22.0	21.2	21.3	22.3	21.4	21.2
6	20.1	20.5	20.0	21.1	20.6	20.4
7	18.4	18.9	18.2	19.6	18.9	19.4
8	15.6	16.6	17.3	18.7	18.7	19.5
9	13.2	16.2	14.1	15.6	15.0	16.5
10	11.4	10.4	09.6	11.0	10.6	11.5
11	08.1	11.9	10.1	11.4	11.9	12.7
12	09.9	11.8	09.1	11.7	12.5	12.1
13	16.7	14.7	14.5	16.0	15.6	15.9
14	18.4	18.3	18.0	19.2	18.8	18.6
15	16.6	18.8	17.5	18.8	19.1	19.2
16	15.7	17.5	14.6	16.4	17.2	18.5
17	20.1	18.0	18.5	19.2	17.5	18.0
18	21.5	19.7	20.6	21.3	20.3	19.4
19	18.1	18.3	17.7	18.4	18.5	18.8
20	11.5	14.1	11.5	13.0	13.3	15.4
21	14.4	15.3	14.4	15.6	15.5	16.0
22	08.5	13.3	10.5	11.7	12.2	14.9
23	13.1	11.6	11.3	12.7	11.7	12.2
24	09.3	11.7	10.2	10.8	10.8	12.6
25	14.1	10.3	08.8	11.7	11.2	12.4
26	18.9	17.4	17.5	18.5	17.6	17.3
27	14.2	16.2	15.5	15.7	14.9	15.9
28	18.8	15.1	15.8	17.5	15.1	14.5
MEANS	1016.1	1016.1	1015.3	1016.6	1016.1	1016.7
DEPARTURE FROM NORMAL	....	+1.7	....	+0.5	+1.1	+0.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
NUKHAIB	1024.8	3rd	0600	1963	1004.6	11th	1500	1963	1963
HAI	1023.1	5	0600	1963	1006.1	25	0000	1963	
NAJAF	1022.3	5	0900	1963	1002.8	25	0000	1963	
DIWANIYA	1024.0	5	0600	1963	1005.4	25	0000	1963	
NASIRIYA	1023.6	5	0600	1963	1006.7	25	0000	1963	
BASRAH	1023.5	5	0600	1963	1009.6	10	1200	1963	
HAI	1032.4	8	0600	1950	1000.3	29	0000	1956	RECORD
DIWANIYA	1034.9	8	0600	1950	997.9	28	2100	1956	
NASIRIYA	1033.3	8	0600	1950	998.1	28	2100	1956	
BASRAH	1031.7	8	0600	1950	999.8	5	1200	1951	

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TABLE - 3 .

الصعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد	نخيب	حسين	نجف	ديوانية	ناصرية	بصرة
DAYS	SIN-JAR	MO-SUL	KIR-KUK	RUT-BAH	HABB-ANIYA	BAG-HDAD	NUK-HAIB	HAI	NAJAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	72	73	72	57	64	53	39	56	61	58	58	83
2	62	76	71	57	61	53	44	52	63	50	47	79
3	50	73	54	61	62	52	45	50	59	51	43	65
4	53	70	39	47	54	54	36	64	54	54	48	70
5	48	66	46	45	48	54	35	54	52	50	43	76
6	48	67	45	43	49	54	38	48	51	54	43	76
7	47	64	37	40	56	50	35	47	54	53	44	73
8	61	63	31	51	58	52	38	50	56	54	59	79
9	56	70	46	96	60	74	78	47	79	77	72	85
10	78	67	55	91	79	76	80	88	75	75	87	92
11	76	91	87	89	80	87	67	95	85	88	91	85
12	92	95	99	76	81	82	75	84	69	75	83	84
13	85	86	95	74	83	84	68	78	71	69	74	80
14	84	91	89	69	79	77	53	72	68	66	70	82
15	66	87	75	67	69	63	41	67	64	58	63	82
16	68	79	65	73	56	55	48	64	58	56	54	69
17	67	83	73	69	62	58	46	65	62	56	65	78
18	61	82	72	55	68	60	38	54	65	57	57	77
19	65	84	67	45	55	62	30	61	58	56	58	77
20	74	88	77	63	73	75	71	60	66	60	54	71
21	74	89	87	53	85	84	66	75	64	74	68	80
22	75	87	74	39	61	68	40	63	61	57	50	77
23	68	86	79	43	60	68	50	66	64	58	58	84
24	79	93	68	46	60	64	29	61	66	48	53	79
25	83	85	81	52	54	55	53	51	62	49	47	81
26	59	80	65	51	56	52	48	47	65	52	47	65
27	81	88	64	63	55	48	55	52	62	40	41	48
28	69	83	81	71	69	56	52	56	71	55	51	63
MEANS	68	81	68	60	65	64	50	62	64	59	58	76
NORMAL	..	77	67	59	62	60	..	62	..	60	58	72

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	95	0300	13th	30	1500	5th
MOSUL	98	0000	15th	30	1200	7th
KIRKUK	100	0300	13&21	14	1200	4th
RUTBAH	100	0600	9&10	14	1200	22nd
HABBANIYA	100	0300	21st	19	1200	6th
BAGHDAD	100	0300	21st	19	1200	7th
NUKHAIB	99	0600	9th	19	1500	24th
HAI	97	0300	11&12	24	1200	26th
DIWANIYA	100	0300	12th	19	1200	8th
NAJAF	100	0600	21st	36	1200	3,4&5
NASIRIYA	97	0600	10th	15	1200	7th
BASRAH	100	0300	10th	23	1200	27th.

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TABLE 4-B.

درجات الحراره العظمى و الصغرى اليوميه (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	13.0	6.2	17.3	5.3	20.5	7.9	20.6	8.3	18.5	5.8
2	13.2	6.2	16.3	4.2	16.6	5.9	18.3	6.1	16.2	6.7
3	14.3	3.8	16.3	3.2	20.7	5.1	20.0	3.3	16.0	1.0
4	16.0	2.5	17.6	1.8	22.4	4.6	23.3	2.8	17.6	1.9
5	16.2	2.0	18.8	1.2	21.6	6.3	22.2	3.9	21.6	1.0
6	17.1	1.4	19.4	1.3	22.4	4.8	20.6	3.9	21.0	3.0
7	16.4	1.7	20.8	-0.4	22.4	6.6	23.9	5.0	20.5	2.1
8	15.4	7.4	19.8	2.0	22.1	10.5	23.3	6.1	20.3	6.3
9	14.4	10.2	16.8	5.2	19.7	10.8	21.1	6.6	12.5	9.3
10	14.1	7.2	20.3	7.8	19.4	9.4	17.2	8.9	12.2	9.6
11	11.0	5.7	14.8	8.2	15.0	10.5	17.2	10.0	12.0	8.4
12	8.4	4.1	13.0	8.6	11.1	8.7	13.9	11.1	15.2	7.2
13	14.2	5.3	16.2	8.4	15.0	9.0	16.7	11.1	16.5	6.5
14	14.2	6.5	16.2	8.8	15.9	9.0	19.4	5.5	19.0	6.0
15	16.2	6.4	19.8	11.2	19.8	10.2	21.7	7.8	20.6	5.0
16	16.2	8.4	19.2	11.4	19.5	11.9	22.2	10.0	18.0	7.5
17	14.2	5.1	17.4	5.2	17.8	8.8	20.0	9.4	18.9	5.5
18	16.4	7.1	19.6	5.2	18.1	7.6	20.0	6.1	23.2	4.0
19	17.2	7.7	20.2	5.0	20.8	8.2	22.2	5.5	25.1	9.0
20	14.2	8.1	[illegible]	10.0	18.4	11.5	18.9	13.9	18.0	10.2
21	13.4	8.5	19.0	10.6	17.3	10.6	20.0	12.2	22.5	5.4
22	14.4	9.2	18.8	10.1	18.7	11.7	24.4	10.0	22.9	8.0
23	15.2	7.1	16.1	9.2	17.4	11.4	18.9	14.4	17.6	8.5
24	13.2	8.3	12.3	9.0	15.9	11.2	18.9	11.1	18.0	7.5
25	12.4	7.3	15.2	8.4	17.1	10.4	23.3	14.4	16.3	5.5
26	14.3	2.7	14.4	5.2	15.4	6.1	18.3	6.6	17.2	4.0
27	7.6	3.6	11.7	2.7	15.5	7.5	19.4	7.2	14.6	8.6
28	14.2	2.5	14.8	5.8	15.6	6.4	20.0	10.6	12.2	3.8
MEANS	14.2	5.8	17.1	6.2	18.3	8.7	20.2	8.3	17.3	6.0
DEPARTURE FROM NORMAL	****	****	-2.7	-2.9	-3.0	-3.7	-2.8	-2.7	-1.7	-3.4

STATIONS	HIGHEST MAX. C°	DAY	YEAR	LOWEST MIN. C°	DAY	YEAR
SINJAR	17.3	25th	1962	-1.1	22nd	1962
MOSUL	26.7	28	1955	-9.4	10	1949
KIRKUK	26.6	25	1941	-6.7	4	1947
KHANAQIN	29.4	9	1944	-4.4	9	1950
RUTBAH	31.7	24	1941	-8.3	11	1949

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TABLE 4-b .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.6	7.5	20.9	8.4	21.2	8.3	21.4	11.2
2	20.6	6.7	20.2	10.1	19.0	7.4	23.2	11.6
3	20.0	6.1	19.8	7.9	18.2	5.0	23.4	9.4
4	20.0	3.0	20.2	2.2	18.5	6.3	21.0	3.2
5	19.8	3.9	19.6	2.8	20.4	4.5	22.9	4.0
6	21.6	3.3	21.6	2.0	21.7	5.4	21.4	4.6
7	22.2	3.6	21.2	2.5	21.6	4.5	22.4	6.4
8	22.7	3.7	23.4	3.3	21.4	8.0	24.3	9.4
9	18.9	6.1	20.4	4.9	17.4	11.0	23.0	6.0
10	17.8	11.7	20.0	12.4	16.0	9.6	17.4	11.6
11	18.0	8.6	17.4	9.4	18.2	8.3	16.0	9.7
12	18.3	10.2	18.0	8.6	17.2	7.5	19.0	10.0
13	18.0	9.7	18.0	10.1	17.7	6.6	21.2	11.0
14	22.1	8.8	22.3	6.8	20.2	5.1	21.0	8.2
15	23.3	10.1	23.4	9.5	21.6	7.2	24.8	10.2
16	23.4	11.9	25.0	13.2	21.3	9.0	23.5	9.6
17	22.4	7.7	22.7	8.7	21.3	9.1	24.4	9.7
18	22.2	7.6	21.8	7.3	21.8	9.4	22.6	11.8
19	24.4	7.2	23.7	7.5	24.2	9.3	23.4	8.9
20	19.5	14.4	19.8	15.2	16.6	11.0	21.8	12.2
21	22.0	7.8	20.8	9.2	21.4	6.2	23.0	11.2
22	27.1	12.4	25.1	14.7	26.6	9.0	26.0	12.6
23	21.1	11.9	19.3	12.8	21.4	7.4	26.0	12.6
24	21.9	10.2	20.9	11.1	25.2	6.8	27.8	11.4
25	21.3	10.0	22.0	13.4	21.4	6.5	25.2	17.3
26	20.0	7.4	19.6	8.2	18.3	5.6	24.2	12.3
27	16.2	11.1	18.0	11.3	19.1	8.7	20.9	12.0
28	17.8	7.6	19.4	9.1	16.5	4.2	23.4	11.0
MEANS	20.8	8.2	20.9	8.7	20.2	7.4	22.7	10.0
DEPARTURE FROM NORMAL	-2.2	-2.5	-2.4	-2.9	....	....	-2.8	-3.4

STATIONS	HIGHEST MAX. C°	DAY	YEAR	LOWEST MIN. C°	DAY	YEAR
HABBANIYA	30.6	24&26	1941	-5.0	8&9	1950
BAGHDAD	30.0	26th	1941	-5.0	9th	1950
HAI	29.4	24&27	1941	-3.9	10th	1949

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TABLE 4-c .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C^{O})

	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	21.0	9.6	22.9	10.0	22.9	13.3	22.8	15.2
2	21.4	10.0	22.2	11.6	23.6	14.0	27.6	14.0
3	19.4	7.6	21.0	6.2	22.2	9.8	24.0	10.4
4	20.4	6.2	21.6	3.6	18.6	4.4	21.7	7.9
5	20.2	7.0	21.5	4.6	22.6	6.7	22.7	11.8
6	20.6	5.5	22.4	4.0	22.0	5.4	22.7	7.5
7	21.2	6.0	23.0	5.0	23.0	4.8	22.0	5.9
8	22.2	7.2	22.6	5.6	20.7	7.4	19.4	6.5
9	19.4	9.4	18.9	7.8	19.2	10.2	22.5	10.8
10	18.9	9.3	20.7	8.6	21.2	12.8	23.3	13.0
11	17.4	9.4	16.8	9.0	16.0	10.4	21.6	10.1
12	20.0	9.2	21.0	9.4	20.0	12.0	20.4	12.1
13	20.0	9.8	20.8	9.8	20.4	10.5	21.9	10.3
14	22.7	7.8	23.0	7.8	21.2	9.2	19.9	9.7
15	24.4	8.7	24.8	8.0	25.0	8.4	23.0	8.5
16	25.5	11.2	25.2	10.1	24.8	11.1	25.2	8.8
17	23.0	10.6	24.5	8.8	23.8	11.6	27.6	10.3
18	22.5	9.6	23.5	8.0	23.0	9.6	23.8	10.2
19	24.0	9.0	25.2	7.5	24.5	7.9	23.5	8.6
20	20.2	14.5	21.5	13.8	25.2	13.5	28.1	10.2
21	22.8	9.8	24.5	9.0	25.1	11.2	27.4	14.4
22	29.1	14.3	28.1	11.6	29.0	15.0	30.7	12.7
23	21.4	13.5	23.2	11.6	27.0	13.0	30.1	17.2
24	26.4	11.2	28.5	11.5	28.1	10.9	30.0	14.4
25	22.8	11.6	24.4	14.4	26.2	18.4	27.7	18.4
26	22.3	11.5	23.8	10.0	24.2	13.0	24.6	14.5
27	21.8	11.6	23.5	11.5	26.0	13.6	28.0	13.8
28	19.3	11.0	21.6	11.5	24.4	13.7	27.8	17.4
MEANS	21.9	9.7	22.9	9.7	23.2	10.8	24.6	11.6
DEPARTURE FROM NORMAL	....	....	-3.3	-4.6	-2.6	-3.3	-4.1	-2.9

STATIONS	HIGHEST MAX. C^{O}	DAY	YEAR	LOWEST MIN. C^{O}	DAY	YEAR
DIWANIYA	32.0	22nd	1955	-7.2	9th	1950
NASIRIYA	32.6	17th	1962	-3.9	9th	1950
BASRAH	31.4	17th	1962	-2.2	9th	1950

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MONTHLY MEAN DRY-BULB TEMPERATURES C°

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المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

	TIME - G.M.T.								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	7.4	9.3	12.1	13.1	11.5	9.4	....	10.5
MOSUL	8.2	7.3	9.3	14.4	16.1	14.2	10.6	9.1	11.2
KIRKUK	10.4	10.1	12.3	16.3	17.4	14.7	12.1	10.9	13.0
KHANAQIN	....	9.9	13.1	17.7	19.5	16.6	13.5	....	15.1
RUTBAH	8.0	7.0	9.3	14.9	17.1	15.5	11.4	9.5	11.6
HABBANIYA	10.3	9.0	11.9	18.1	20.1	16.9	13.1	11.6	13.9
BAGHDAD	11.4	9.7	12.3	18.2	20.1	18.1	14.4	12.3	14.6
NUKHAIB	....	....	11.3	16.9	19.5	18.5	....	....	16.6
HAI	11.6	10.8	13.9	21.3	22.1	19.3	15.5	....	16.4
NAJAF	12.4	10.6	13.7	18.7	21.3	....	15.7	....	15.5
DIWANIYA	10.9	9.8	13.5	20.3	22.6	18.9	14.9	12.7	15.5
NASIRIYA	12.9	11.7	15.1	21.0	22.6	19.7	16.3	14.3	16.7
BASRAH	14.6	13.3	16.7	22.6	23.8	20.0	17.3	15.5	18.0

TABLE -6.

MONTHLY MEAN VAPOUR-PRESSURE (mbs.)

المعدل الشهري لضغط البخار (ملليبارات)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	7.9	8.2	8.7	8.4	8.7	8.4	....	8.4
MOSUL	9.8	9.4	10.1	11.3	11.3	11.3	11.0	10.3	10.6
KIRKUK	9.5	9.3	9.8	9.9	9.5	10.2	10.2	9.9	9.8
KHANAQIN	....	9.1	10.3	10.5	9.9	10.4	10.3	....	10.1
RUTBAH	7.4	7.5	7.9	7.8	7.7	7.8	8.2	8.1	7.8
HABBANIYA	9.5	9.4	10.0	10.4	10.0	10.8	10.4	9.8	10.0
BAGHDAD	10.2	10.0	10.7	10.9	10.1	10.7	10.7	10.3	10.9
NUKHAIB	....	....	8.7	9.1	9.0	8.9	....	....	8.9
HAI	10.6	10.1	11.5	12.2	11.4	11.4	11.2	....	11.2
NAJAF	10.8	10.1	11.0	11.8	12.3	....	11.4	....	11.2
DIWANIYA	9.6	9.1	10.2	10.8	10.3	10.0	10.2	9.9	10.0
NASIRIYA	10.5	10.2	11.0	10.5	10.2	11.2	11.1	10.8	10.7
BASRAH	14.6	13.6	15.3	16.9	16.9	16.5	15.7	15.1	15.6

TABLE-7.

MONTHLY MEAN WET-BULB TEMPERATURES C°

المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	5.5	6.8	8.6	9.0	8.4	7.2	....	7.6
MOSUL	7.4	6.7	8.1	11.5	12.3	11.4	9.5	8.2	9.4
KIRKUK	8.4	8.1	9.5	11.6	11.9	10.9	9.7	8.9	9.9
KHANAQIN	....	8.2	10.2	12.5	13.0	12.0	10.4	....	11.1
RUTBAH	6.0	5.4	6.8	9.6	10.7	9.9	8.1	7.0	7.9
HABBANIYA	8.3	7.5	9.7	12.7	13.3	12.3	10.3	9.1	10.4
BAGHDAD	9.2	8.2	10.1	13.0	13.4	12.8	11.1	9.8	11.0
NUKHAIB	....	....	8.3	11.3	12.5	12.2	....	....	11.1
HAI	9.6	9.2	11.3	14.7	14.9	13.8	11.6	....	12.2
NAJAF	10.1	8.7	10.9	13.8	15.3	....	12.2	....	11.8
DIWANIYA	8.6	7.8	10.3	13.7	14.4	12.8	11.0	9.8	11.1
NASIRIYA	10.2	9.5	11.6	14.0	14.5	13.8	12.2	11.1	12.4
BASRAH	13.7	11.8	14.7	17.9	18.4	15.9	15.2	14.1	15.2

TABLE -8.

MONTHLY MEAN DEW-POINT (C°)

المعدل الشهري لدرجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	3.2	3.7	4.6	4.2	4.7	4.3	....	4.1
MOSUL	6.5	5.8	6.5	8.5	8.4	8.6	8.2	7.2	7.5
KIRKUK	5.7	5.3	6.1	6.2	5.5	6.7	6.8	6.3	6.1
KHANAQIN	....	6.3	7.2	7.3	6.6	7.4	7.2	....	7.0
RUTBAH	3.0	2.5	3.2	3.0	2.7	3.0	3.7	3.2	3.1
HABBANIYA	5.8	5.5	6.9	7.2	6.4	7.6	7.1	6.2	6.6
BAGHDAD	6.8	6.4	7.5	7.8	6.4	7.8	7.4	7.0	7.1
NUKHAIB	....	....	4.6	5.1	5.0	5.3	....	....	5.0
HAI	7.4	6.6	8.5	9.4	8.4	8.5	8.2	....	8.1
NAJAF	7.7	6.8	8.1	9.4	9.7	....	8.7	....	8.6
DIWANIYA	5.9	5.2	6.9	7.4	6.4	6.8	7.0	6.6	6.5
NASIRIYA	7.3	6.9	9.0	7.8	6.5	8.2	8.1	7.7	7.5
BASRAH	12.3	11.2	13..	14.0	14.0	14.2	....	....	....

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MONTHLY MEAN RELATIVE HUMIDITY (%)

المعدل الشهري للرطوبة النسبية (٪)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	76	69	62	58	65	71	..	67
MOSUL	89	90	85	69	63	71	85	88	80
KIRKUK	76	75	70	56	51	63	73	76	68
KHANAQIN	..	80	68	53	45	57	68	..	62
RUTBAH	72	75	67	48	42	46	62	69	60
HABBANIYA	76	82	71	51	44	57	68	71	65
BAGHDAD	74	81	74	53	44	52	64	71	64
NUKHAIB	..	..	63	48	41	45	..	..	50
HAI	77	76	72	51	44	52	70	..	63
NAJAF	74	77	70	55	48	..	64	..	65
DIWANIYA	72	74	66	46	38	46	60	67	59
NASIRIYA	70	73	64	44	38	49	60	66	58
BASRAH	87	88	79	62	58	70	80	85	76

TABLE-10.

المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

MONTHLY MEAN PRESSURE (mbs.) AT M.S.L.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	18.8	22.4	15.3	17.9	17.6	18.2	....	1018.4
MOSUL	18.5	18.7	19.5	18.7	16.7	17.0	18.0	18.5	1018.2
KIRKUK	17.5	17.7	18.6	17.8	16.3	16.5	17.8	17.8	1017.5
KHANAQIN	....	18.3	18.2	16.6	15.3	12.4	17.3	....	1016.3
RUTBAH	15.9	16.6	17.8	16.5	15.5	15.9	16.7	16.4	1016.4
HABBANIYA	16.2	14.6	18.0	17.3	15.0	15.7	16.5	16.3	1016.2
BAGHDAD	16.5	16.9	18.2	17.8	16.1	16.2	16.8	16.8	1016.9
NUKHAIB	....	....	18.0	17.3	14.5	14.5	....	....	1016.1
HAI	15.8	16.2	17.4	17.1	15.3	15.3	16.0	....	1016.2
NAJAF	14.7	15.3	16.6	16.0	14.4	....	15.1	....	1015.3
DIWANIYA	16.3	17.0	18.0	17.7	15.4	15.6	16.7	16.5	1016.7
NASIRIYA	15.5	16.1	17.6	16.8	15.1	15.3	16.0	16.1	1016.1
BASRAH	16.4	16.6	17.9	17.1	15.7	15.8	16.6	16.7	1016.6

TABLE-11.

المعدل الشهري لكمية الغيوم الواطئة (الاثمان)

MONTHLY MEAN LOW-CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	2.2	2.4	3.0	3.3	3.0	2.5	....	2.7
MOSUL	3.3	3.4	3.2	4.3	4.4	3.9	2.8	2.6	3.5
KIRKUK	2.3	2.2	2.4	2.6	2.8	2.4	1.8	2.5	2.4
KHANAQIN	....	3.2	2.5	2.3	2.3	2.3	2.2	....	2.5
RUTBAH	0.8	1.4	1.8	1.8	2.0	2.0	1.0	1.0	1.5
HABBANIYA	0.5	0.6	0.7	1.4	1.3	1.0	0.8	0.3	0.8
BAGHDAD	0.5	0.4	0.7	0.7	1.7	1.3	0.6	0.3	0.8
NUKHAIB	....	....	1.3	1.4	1.4	1.5	....	....	1.4
HAI	0.7	0.4	0.4	1.0	1.4	1.2	0.8	....	0.8
NAJAF	0.4	0.4	1.5	1.0	1.4	....	0.7	....	0.9
DIWANIYA	0.2	1.9	1.3	1.5	0.9	0.7	0.6	0.1	0.9
NASIRIYA	0.8	0.9	0.8	0.6	1.3	0.7	0.6	0.6	0.8
BASRAH	0.9	0.8	0.9	0.8	1.7	1.0	0.8	0.7	1.0

TABLE-12.

المعدل الشهري لمجموع كمية الغيوم (الاثمان)

MONTHLY MEAN TOTAL-CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	3.4	4.0	4.4	4.9	4.5	3.3	....	4.8
MOSUL	4.9	5.1	5.5	6.3	6.4	6.0	4.3	4.1	5.3
KIRKUK	3.4	3.8	4.6	4.0	4.5	4.4	3.1	3.3	3.9
KHANAQIN	....	4.2	5.0	5.1	5.0	5.0	4.0	....	4.7
RUTBAH	3.6	3.9	4.5	4.4	4.5	4.6	2.8	2.7	3.8
HABBANIYA	3.6	4.1	4.5	4.5	4.4	4.4	3.5	3.2	4.0
BAGHDAD	3.5	4.9	4.7	4.7	4.6	4.4	3.4	2.9	4.1
NUKHAIB	....	....	3.6	3.4	4.1	4.4	....	....	3.9
HAI	2.6	3.9	4.5	4.1	4.4	4.0	2.8	....	3.8
NAJAF	2.1	2.7	3.7	3.7	4.1	....	2.4	....	3.1
DIWANIYA	1.6	3.1	4.3	3.8	3.5	3.9	2.2	1.7	3.0
NASIRIYA	2.4	3.4	4.3	4.4	3.7	3.5	2.1	2.0	3.2
BASRAH	3.3	3.2	3.3	4.1	4.2	4.0	2.9	2.8	3.5

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية :

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	عدد الرصدات NUMBER OF OBS.
سنجار SINJAR	0300	10	5	3	0	0	0	3	2	5	20	3	0	0	5
	0600	9	2	6	0	0	0	5	4	2	23	3	0	0	6
	0900	3	1	8	2	3	0	6	2	3	22	3	0	0	6
	1200	7	3	7	1	0	0	8	1	1	24	3	0	0	6
	1500	6	3	5	1	1	0	3	5	4	21	3	0	0	6
	1800	9	2	4	1	2	0	6	3	1	24	3	0	0	6
	TOTAL	44	16	33	5	6	0	31	17	16	134	18	0	0	6
موصل MOSUL	0000	4	1	6	2	1	0	3	5	6	16	4	0	0	6
	0300	7	0	2	2	2	0	4	3	8	15	3	0	0	6
	0600	2	2	2	4	2	0	6	6	4	15	3	0	0	6
	0900	7	1	8	1	4	0	4	2	1	13	1	1	0	14
	1200	5	2	4	4	4	0	4	2	3	16	8	1	0	9
	1500	4	1	5	2	4	0	7	4	1	20	2	0	0	8
	1800	6	1	7	1	1	0	6	2	4	18	3	0	0	7
	2100	4	0	6	0	2	0	3	5	8	13	7	0	0	7
	TOTAL	39	8	40	16	20	0	37	29	35	128	59	2	0	8
كركوك KIRKUK	0000	0	7	6	3	1	0	0	0	11	15	1	1	0	5
	0300	0	5	10	1	1	0	0	0	11	12	5	0	0	5
	0600	0	3	3	4	4	1	0	0	13	11	3	1	0	4
	0900	0	1	0	7	4	1	5	2	8	14	5	1	0	6
	1200	1	1	1	2	6	7	4	0	6	19	3	0	0	5
	1500	2	3	1	4	2	0	3	1	12	16	0	0	0	3
	1800	0	3	6	1	1	0	0	0	17	10	1	0	0	3
	2100	0	3	8	2	1	0	0	0	14	11	3	0	0	4
	TOTAL	3	26	35	24	20	9	12	3	92	108	21	3	0	5
خانقين KHANAQIN	0300	0	0	10	2	8	0	0	0	8	18	1	0	1	4
	0600	0	1	8	1	8	0	1	0	9	16	1	2	0	5
	0900	0	0	2	1	15	0	2	0	8	16	3	1	0	6
	1200	0	0	3	0	16	0	6	1	2	22	4	0	0	6
	1500	1	0	1	0	6	1	10	0	9	16	2	1	0	5
	1800	0	0	4	1	6	1	3	1	12	16	0	0	0	2
	TOTAL	1	1	28	5	59	2	22	2	48	104	11	4	1	5
رطبة RUTBAH	0000	3	0	5	0	3	5	6	0	6	17	4	1	0	7
	0300	2	0	2	0	1	2	10	1	9	14	5	0	0	6
	0600	2	2	2	2	2	3	9	1	5	18	3	2	0	8
	0900	2	1	4	3	4	0	10	2	2	15	11	0	0	9
	1200	3	3	2	4	5	2	5	3	1	15	9	3	0	11
	1500	5	4	4	2	2	2	6	1	2	23	2	1	0	7
	1800	2	6	4	2	0	2	3	0	9	15	4	0	0	6
	2100	0	3	4	2	3	1	6	0	9	14	5	0	0	6
	TOTAL	19	19	27	15	20	17	55	8	43	131	43	7	0	8

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TABLE 13-b .

عدد تكرار رصدات الرياح السطحيـــــة :

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجـــاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة بالعقد MEAN V.E.
حبانية HABBANIYA	0000	2	0	3	1	1	0	5	2	14	10	4	0	0	5
	0300	0	0	3	1	1	0	6	3	14	10	4	0	0	4
	0600	0	1	4	2	2	0	7	6	6	15	7	0	0	7
	0900	1	0	1	5	4	0	8	6	3	15	8	1	1	9
	1200	3	1	3	5	2	1	6	6	1	22	4	1	0	7
	1500	2	1	3	3	1	0	3	7	8	19	1	0	0	5
	1800	2	0	5	0	2	0	3	3	13	12	3	0	0	4
	2100	2	2	2	1	2	0	5	3	11	12	5	0	0	5
	TOTAL	12	5	24	18	15	1	35	36	70	115	36	2	1	6
بغداد BAGHDAD	0000	3	1	2	5	1	0	0	3	13	11	4	0	0	5
	0300	1	2	0	6	1	0	1	4	13	9	6	0	0	4
	0600	5	1	0	6	2	0	2	3	9	13	6	0	0	6
	0900	3	1	0	4	3	2	2	10	3	14	10	1	0	9
	1200	7	1	1	5	3	0	3	6	2	18	8	0	0	9
	1500	4	1	1	4	2	1	3	6	6	20	2	0	0	5
	1800	3	1	3	2	0	1	3	5	10	17	1	0	0	4
	2100	4	0	3	3	0	1	1	4	12	12	4	0	0	4
	TOTAL	30	8	10	35	12	5	15	41	68	114	41	1	0	6
نخيب NUKHAIB	0600	6	0	3	0	3	0	12	1	3	17	7	1	0	10
	0900	6	0	5	0	2	0	9	4	2	14	11	1	0	10
	1200	4	0	5	4	2	1	7	4	1	17	7	3	0	10
	1500	4	0	6	1	4	3	5	3	2	20	5	1	0	8
	TOTAL	20	0	19	5	11	4	33	12	8	68	30	6	0	10
حي HAI	0000	4	0	6	1	0	0	5	5	7	15	5	1	0	6
	0300	4	0	5	0	1	0	5	3	10	11	7	0	0	5
	0600	2	0	7	1	0	0	3	8	7	17	4	0	0	5
	0900	1	0	8	1	0	1	3	9	5	17	5	1	0	7
	1200	2	0	3	3	2	0	2	10	6	12	9	1	0	8
	1500	0	0	7	0	0	0	3	8	10	13	5	1	0	5
	1800	0	0	5	2	0	0	3	9	9	10	9	0	0	7
	TOTAL	13	0	41	8	3	1	24	52	64	95	44	3	0	6
نجف NAJAF	0000	2	0	0	0	3	2	4	4	12	15	0	0	0	3
	0300	4	0	1	1	5	0	2	4	10	16	1	0	0	3
	0600	7	1	0	0	7	1	2	4	6	20	2	0	0	6
	0900	9	0	3	2	4	1	4	4	1	20	7	0	0	8
	1200	8	1	2	1	7	1	2	6	0	20	8	0	0	9
	1800	4	0	1	1	4	0	3	7	7	19	1	0	0	4
	TOTAL	34	2	7	5	30	5	17	29	36	110	19	0	0	6

TABLE 13-c. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME G.M.T.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 & over	معدل السرعة بالعقد MEAN V.K.
ديوانية DIWANIYA	0000	9	1	5	2	3	1	6	0	1	21	6	0	0	7
	0300	9	3	4	2	2	2	7	0	3	19	6	0	0	8
	0600	8	2	3	1	2	3	6	1	0	22	6	0	0	8
	0900	8	1	3	4	0	3	7	2	0	18	10	0	0	9
	1200	12	0	5	5	1	0	5	0	1	15	12	0	0	10
	1500	5	2	4	3	3	0	7	3	2	24	3	0	0	8
	1800	5	1	5	4	2	0	6	1	4	22	2	0	0	8
	2100	8	1	3	6	1	0	3	5	2	21	5	0	0	9
	TOTAL	59	11	32	27	14	9	46	13	13	162	49	0	0	7
ناصرية NASIRIYA	0000	3	3	3	5	3	1	5	5	0	27	1	0	0	6
	0300	5	1	2	3	2	1	6	1	2	25	1	0	0	6
	0600	5	1	2	4	1	1	6	2	2	24	2	0	0	7
	0900	6	1	2	3	1	1	5	7	1	21	6	0	0	8
	1200	6	0	4	3	3	1	6	4	1	19	8	0	0	9
	1500	7	1	4	5	1	0	3	7	0	25	3	0	0	6
	1800	4	0	2	8	1	0	3	7	3	23	2	0	0	6
	2100	5	0	1	7	2	1	2	7	3	23	2	0	0	6
	TOTAL	41	7	21	39	16	6	36	44	12	187	25	0	0	6
بصرة BASRAH	0000	7	2	2	5	4	1	2	4	1	25	2	0	0	4
	0300	6	1	3	3	3	2	4	4	1	26	1	0	0	5
	0600	5	3	4	4	2	2	3	5	1	25	1	0	0	6
	0900	7	1	4	4	4	2	3	3	1	26	1	0	0	5
	1200	5	2	4	2	3	0	2	8	2	20	6	0	0	7
	1500	4	1	2	4	2	1	2	11	1	26	1	0	0	5
	1800	5	2	3	1	4	1	3	5	2	23	3	0	0	6
	2100	7	1	0	2	3	2	5	3	3	25	0	0	0	4
	TOTAL	43	13	24	22	27	12	23	48	12	196	15	1	0	5

TABLE 14. اعلى سرعة رياح خلال ساعة

HIGHEST WIND-SPEED DURING ONE HOUR:

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME G.M.T.	DAY
SINJAR	21	090	1800	20th
MOSUL	28	280	0900	24th
KIRKUK	23	140	0900	12th
KHANAQIN	39	180	0300	25th
RUTBAH	28	280	0600	25th
HABBANIYA	35	130	0900	22nd
BAGHDAD	30	140	0900	22nd
NUKHAIB	30	120	1200	27th
HAI	30	090	1200	22nd
NAJAF	19	310	0900	25th
DIWANIYA	20	130	0900	22nd
NASIRIYA	17	110	1200	20th
BASRAH	27	160	0600	25th

FEBRUARY 1963 .

TABLE 15-a.

الهطول اليومي (بالملليمترات)

DAILY PRECIPITATION (MILLIMETRES) . tr. = < 0.05 mm.

DAYS	سنجار SINJAR	موصل MOSUL	كركوك KIRKUK	خانقين KHANAQIN	رطبة RUTBAH	حبانية HABBANIYA	بغداد BAGHDAD
1	6.8			0.3	tr.		
2							
3							
4							
5							
6							
7							
8	tr.				1.0		
9	2.6	tr.			3.0	0.5	8.3
10	1.4	0.8		0.2	30.5		
11	34.7	28.2	45.9	1.0	2.2	12.2	6.2
12	6.3	6.4	27.4	12.4	7.0	6.0	1.1
13	2.4		1.0	2.5	2.7		
14	3.1	1.7	0.1				
15		tr.	0.1				
16							
17							
18							
19	tr.		0.3				0.2
20		3.2	25.7	8.8	tr.	4.7	13.0
21			0.4	7.5			
22			1.0				
23							
24	1.8	4.2	2.1				
25	1.3	1.8					
26							
27	11.2	17.0	2.7		1.0	tr.	tr.
28				0.3			
TOTAL	71.6	63.3	106.7	33.0	56.4	23.4	27.0
NORMAL	67.2	68.7	64.8	54.9	15.4	17.5	28.4

STATIONS	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
SINJAR	105.5	2nd	1952
MOSUL	56.7	21st	1942
KIRKUK	61.4	19th	1953
KHANAQIN	60.5	23rd	1943
RUTBAH	35.5	10th	1963
HABBANIYA	30.4	15th	1954
BAGHDAD	47.7	27th	1968

FEBRUARY 1963 .

TABLE 15-b .

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETRES) . tr. (0.05 mm.

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1			tr.			
2						0.3
3						
4						tr.
5						tr.
6						
7						
8					0.3	tr.
9	1.8	11.6	tr.	4.1	11.4	0.1
10	0.8	0.8	tr.		tr.	2.1
11	tr.	6.4	1.0	3.4	16.2	0.5
12	7.8	tr.				0.4
13						
14						
15						
16						
17						
18						
19						
20	0.5	3.7	0.8	2.5	tr.	
21	2.0					0.3
22					tr.	2.5
23						2.4
24						
25						2.0
26						0.2
27						
28						tr.
TOTAL	12.9	25.4	1.8	10.0	27.9	10.8
NORMAL	....	21.4	....	14.5	14.6	17.0

STATIONS	HIGHEST AMOUNT OF RAIN DURING THE DAY	DAY	YEAR
HAI	26.9	8th	1941
DIWANIYA	38.2	1st	1955
NASIRIYA	21.8	23rd	1956
BASRAH	29.9	28th	1938

شباط ١٩٦٣

FEBRUARY 1963 .

TABLE 15-c .

الهطول اليومي (ملليمترات)

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

الايام	رواندوز	عقرة	تلعفر	كيارة	سرسنك	صلاح الدين	دهوك	شقلاوة
DAYS	RAWANDUZ	AQRA	TELAAFAR	QAYARA	SERSANK	SALAH ADDIN	DUHOK	SHAQLAWA
1	9.5				6.0			
2	10.5							
3						tr.		
4								
5						tr		
6						tr.		
7								
8								
9			2.0		1.0	tr.		
10		0.2				tr.		
11		68.2	6.5	86.0	17.5	7.0		
12	28.0	30.9	14.0	10.0	4.0	9.8	14.5	70.0
13	15.3	10.0	0.5		4.0	9.5	11.3	40.0
14	4.3	17.4	0.6			7.9	12.1	18.0
15	7.2	2.3			8.0	6.3	5.5	8.5
16	6.4	0.1						
17						tr.		
18						7.8		
19						9.6		24.0
20	33.3	23.7	0.5	8.5		3.4	4.0	
21	2.1	1.4			2.0	tr.		
22		10.0			4.0	6.5	0.7	
23	27.3	0.4			6.0	tr.	tr.	
24	2.0	28.4				5.9		
25	27.0	10.5	6.5	8.0		4.8	4.0	38.0
26					8.0	6.7	11.2	
27	4.0	21.2	23.4	24.0	5.0	9.5		
28	25.4				9.0	1.2	11.0	20.0
TOTAL	202.3	224.7	54.0	136.5	76.5	96.9	76.3	225.5

FEBRUARY 1963 .

TABLE 15-a.

شباط ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	جلولاء	بيجي	طوز	بكرجو	افتخار	حليجة	حويجة	بدعة	سامراء
DAYS	JALA-WLA'A	BAIJI	TUZ	BAKRAJO	IFTI-KHAR	HALABJA	HAWI-JAH	BADA'A	SAMI-RA'A
1			9.1						
2									
3									
4									
5									
6									
7									
8									
9									
10						3.0		32.0	
11		36.6		49.0	25.4	25.0	31.5	14.0	
12	5.1	13.3	47.0	66.0	5.1	45.0	17.3		12.7
13	5.1			15.0		3.0			
14				1.0					
15									
16									
17									
18									
19						3.0			
20	15.2			34.0	17.8	13.0	7.0		
21			18.3	1.0				1.0	
22		1.0		1.0					
23									
24				2.0			3.0		
25				2.0					
26				3.0					
27		2.5		4.0		22.0	6.5		
28									
TOTAL	25.4	53.4	74.4	178.0	48.3	114.0	65.3	47.0	12.7

FEBRUARY 1963 .

TABLE 15-c .

البطول اليومي (ملليمترات) شباط ١٩٦٣

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

الأيام	المنصور	بعقوبة	مندلي	هيت	عنة	كوت	عزيزية	سعدية
DAYS	MANSOUR	BAKOBA	MANDILY	HIT	ANAH	KUT	AZIZIYA	SA'ADIYA
1						2.0		
2								
3								
4								
5								
6								
7								
8					6.0			
9		1.4			4.0			
10					4.0	4.0	7.0	3.0
11	11.0	7.3	5.5	18.0	18.0	3.0		
12	3.0	1.0	2.5				20.0	17.0
13						1.5		
14								
15								
16								
17								
18								
19								
20	10.0	7.0	9.0	tr.		4.0		
21								13.0
22								
23								
24								
25								
26								
27				0.6				
28					7.0			
TOTAL	24.0	16.7	17.0	18.6	39.0	14.5	27.0	33.0

شباط ١٩٦٣

FEBRUARY 1963 .

TABLE 15-f .

الهطول اليومي (ملليمترات)

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

الايام	علي الغربي	بدرة	سماوة	كربلاء	اور	معقل	فاو
DAYS	ALI ALGHARBI	BADRA	SAMAWA	KARBALAA	UR	MAQIL	FAO
1					3.8		
2						5.1	
3							
4							3.6
5							
6							
7							
8							
9	14.1				6.4		
10	4.5		18.0				
11					16.0		11.0
12		2.5	11.0				
13		1.0					
14							
15							
16							
17							
18							
19							
20							0.7
21				11.4			
22						10.2	2.2
23							
24							2.0
25							
26							
27							
28							
TOTAL	18.6	3.5	29.0	11.4	26.2	15.3	19.5

FEBRUARY 1963 .

TABLE 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة

No. of days for the cases of Phenomenas عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	10	0	0	0	0	0	1	1	0
MOSUL	8	0	1	0	0	0	3	13	1
KIRKUK	9	0	0	1	0	0	7	9	3
KHANAQIN	8	0	0	0	0	0	3	8	0
RUTBAH	7	0	0	2	0	0	6	4	0
HABBANIYA	4	0	0	1	1	2	3	5	4
BAGHDAD	5	0	0	0	1	2	2	5	5
NUKHAIB	5	0	0	1	0	0	5	8	0
HAI	4	0	0	0	0	0	5	5	0
NAJAF	2	0	0	0	1	0	8	4	0
DIWANIYA	3	0	0	0	3	0	9	3	0
NASIRIYA	3	0	0	2	2	0	10	2	0
BASRAH	9	0	0	6	0	0	6	1	0

TABLE 17.

DURATION OF SUNSHINE : سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE DURING ONE DAY HOURS	MAX. SUNSHINE DURING ONE DAY DAY	No. OF DAYS WITHOUT SUNSHINE
MOSUL	147.1	10.1	26th	5
HABBANIYA	192.7	10.7	26th	1
BAGHDAD	182.7	10.3	4th	2
BASRAH	219.3	10.9	19th	1

TABLE 18.

MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لدرجة حرارة الحشيش و التربـــــة

STATIONS	GRASS MINIMUM TEMPERATURES C°	EARTH TEMPERATURES 0.3 M	EARTH TEMPERATURES 1.2 M
MOSUL	....	12.4	15.5
KIRKUK	4.8	13.6	16.0
HABBANIYA	3.8	16.0	19.1
BAGHDAD	5.0	15.3	19.6
NAJAF	....	15.3	18.4
NASIRIYA	10.0	17.7	21.2
BASRAH	7.8	....	....

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METEOROLOGICAL DEPARTMENT

شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 3
Vol. 26
Month March
Year 1963

العـــدد ٣
مجـــلد ٢٦
الشهر آذار
السنة ١٩٦٣

الجمهورية العراقية

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مديرية الارصاد الجوية العامة

شعبة المناخ

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر آذار ١٩٦٣

مجلد ٢٦ عدد (٣) آذار ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR MARCH 1963

VOLUME 26 , No. (3) , MARCH 1963 .

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NOTES ON TABLES SEE JANUARY 1963.
Geographical data see January 1963.

MARCH 1963 .

TABLE 1-a.

(١)

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الأيام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	9.9	10.8	12.5	10.6	12.7	12.9
2	10.2	9.5	13.1	11.0	14.8	16.2
3	10.9	9.2	10.5	11.4	14.1	14.3
4	10.1	12.2	14.1	13.5	18.2	17.6
5	10.0	10.6	10.9	10.4	15.6	15.5
6	8.2	7.8	8.2	7.8	12.0	12.3
7	7.5	6.6	7.9	6.4	9.0	10.4
8	8.2	7.2	8.0	5.5	8.8	9.0
9	9.4	8.1	9.4	8.8	9.9	10.0
10	10.7	9.6	11.4	7.5	8.7	8.6
11	11.9	10.7	11.8	10.2	11.9	12.4
12	9.0	10.5	11.7	12.1	15.0	15.2
13	12.2	11.3	12.8	12.9	14.6	15.2
14	13.2	12.9	15.2	15.3	16.3	15.9
15	11.8	13.7	16.8	15.4	19.4	18.9
16	10.2	12.3	11.2	11.4	15.2	14.5
17	9.2	10.1	9.5	11.2	15.1	15.2
18	6.6	8.9	9.6	10.6	14.7	14.5
19	5.5	5.9	6.9	3.2	8.3	9.8
20	7.7	7.0	7.2	7.5	8.9	9.5
21	7.1	6.4	11.2	12.5	15.4	14.9
22	11.7	11.3	13.9	11.6	14.2	15.8
23	13.7	12.6	15.4	12.1	15.3	16.2
24	16.2	15.0	18.0	18.2	19.4	18.0
25	14.8	14.7	17.8	15.5	20.4	20.5
26	12.8	12.8	17.6	12.8	18.6	20.6
27	15.5	15.6	14.6	12.8	15.7	15.8
28	18.1	16.1	18.6	14.0	18.0	18.9
29	17.3	17.4	19.2	19.8	20.2	20.6
30	14.2	13.8	15.8	16.1	20.8	21.5
31	13.8	14.4	15.9	16.3	18.6	19.0
MEANS	11.2	11.1	12.8	11.3	14.8	15.2
DEPARTURE FROM NORMAL	....	-0.8	-0.6	-1.0	-0.9	-0.8

NOTES :

OBSERVATIONS GMT.

1- $\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8}$ = DAILY MEAN

2- AT SINJAR OBSERVATIONS 0000 & 2100 GMT. ARE MISSED .

MARCH 1963 .

TABLE 1-b .

آذار ١٩٦٣

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

	نشيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	14.8	14.7	13.6	14.9	15.9	17.9
2	17.4	17.2	15.9	16.9	16.0	19.4
3	18.9	16.3	18.2	15.8	16.8	17.4
4	19.8	16.8	17.8	16.8	18.4	19.4
5	18.2	16.0	16.8	15.5	17.1	19.0
6	13.1	14.3	13.9	13.5	14.8	15.7
7	11.4	12.3	12.3	11.6	12.3	14.7
8	10.9	10.3	10.5	10.0	10.7	12.7
9	10.8	11.3	10.5	10.4	12.3	12.6
10	7.0	10.7	10.0	9.0	10.1	11.4
11	14.4	12.8	11.3	12.0	13.4	13.8
12	16.5	15.8	14.4	15.4	15.8	15.8
13	13.1	15.9	15.8	15.6	16.6	17.1
14	10.7	16.9	16.6	17.2	17.2	17.3
15	22.3	18.5	19.8	19.4	20.4	20.0
16	17.0	15.4	16.7	15.8	17.6	18.2
17	16.0	15.5	16.5	17.1	18.1	17.3
18	16.6	16.0	16.8	16.9	19.1	19.9
19	7.9	15.9	13.3	14.1	18.1	20.[illegible]
20	12.5	11.7	9.8	12.4	12.2	13.9
21	19.6	15.9	15.8	15.0	16.5	15.7
22	18.3	17.6	17.3	17.0	18.1	18.6
23	20.1	17.9	18.2	17.6	18.4	18.6
24	24.6	19.1	20.2	19.3	18.4	20.1
25	23.2	21.6	21.6	22.0	22.3	22.1
26	20.4	22.5	21.4	21.3	22.9	23.0
27	17.9	17.7	16.4	16.4	17.6	17.4
28	20.5	18.8	19.4	19.1	19.1	17.3
29	24.0	21.3	20.6	21.4	21.9	20.5
30	21.6	22.1	22.8	21.9	23.3	22.7
31	20.1	20.9	20.2	20.3	21.2	21.1
MEANS	17.1	16.4	16.3	16.1	17.3	17.8
DEPARTURE FROM NORMAL	....	-0.6	....	-0.6	-0.5	-1.9

NOTES: 1- AT NUKHAIB: OBSERVATIONS 0000,0300,1800,2100 GMT. ARE NOT AVAILABLE.

2- AT NAJAF , OBSERVATION 1500 GMT. AND 2100 GMT. ARE NOT AVAILABLE.

MARCH 1963 . آذار ١٩٦٣

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1019.9	1019.2	1018.3	1018.0	1018.1	1018.6
2	15.5	16.2	15.2	16.0	14.6	14.6
3	15.5	15.9	15.9	14.8	15.2	15.7
4	12.1	09.5	10.5	09.7	09.2	10.4
5	10.7	10.0	10.9	11.3	11.1	11.3
6	14.6	16.8	17.4	18.2	17.6	17.9
7	23.3	23.4	22.8	23.4	23.1	22.9
8	23.7	24.0	23.0	24.3	25.8	23.0
9	19.7	20.2	19.7	19.4	19.6	19.7
10	17.4	17.9	17.2	18.8	17.7	17.8
11	16.2	15.1	18.0	19.6	18.1	18.2
12	14.2	15.9	15.2	15.9	14.1	14.5
13	18.7	19.0	17.7	18.4	17.4	17.2
14	17.6	16.9	16.0	14.1	15.2	16.1
15	09.7	09.6	09.4	06.4	06.3	07.6
16	09.4	10.8	12.4	12.5	12.4	13.1
17	17.6	17.4	17.5	15.8	15.3	15.2
18	15.4	15.6	15.5	14.5	14.5	15.2
19	15.6	16.3	15.7	16.9	15.2	14.5
20	19.3	20.3	20.3	19.0	19.9	20.5
21	19.2	20.4	20.1	17.6	18.7	19.4
22	23.1	23.2	21.7	22.4	21.9	21.7
23	21.7	21.7	20.7	19.3	20.2	20.2
24	14.7	15.0	14.5	12.6	13.5	14.2
25	09.5	09.1	10.5	10.8	09.5	07.2
26	09.8	09.6	07.9	10.4	07.5	07.6
27	09.8	10.5	10.4	12.8	09.7	09.9
28	14.1	14.4	13.3	15.2	13.5	13.1
29	11.3	12.1	11.8	09.2	10.7	11.1
30	06.0	06.9	06.0	06.8	04.8	09.0
31	11.7	13.0	12.6	12.4	11.8	12.1
MEANS	1015.4	1015.8	1015.4	1015.4	1014.9	1015.0
DEPARTURE FROM NORMAL	....	+0.4	+0.8	+0.3	0.0	+0.3

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
SINJAR	1024.7	8th	0600	1963	1003.5	30th	1200	1963
MOSUL	1026.1	8th	0600	1963	1002.8	30th	1500	1963
KIRKUK	1024.1	8th	0600	1963	999.7	30th	1200	1963
RUTBAH	1026.6	8th	0600	1963	1004.9	15th	1500	1963
HABBANIYA	1025.1	8th	0600	1963	1002.8	15th	1500	1963
BAGHDAD	1024.6	8th	0600	1963	1002.6	15th	2100	1963
SINJAR	1028.3	3rd	0600	1962	997.4	27th	1200	1962
MOSUL	1032.6	3rd	0600	1961	996.2	28th	0200	1944
KIRKUK	1030.6	3rd	0600	1961	998.6	27th	1200	1962
RUTBAH	1032.2	3rd	0600	1961	998.2	19th	1300	1940
BAGHDAD	1031.4	3rd	0600	1961	996.1	22nd	1200	1941

MARCH 1963 . [illegible]

TABLE 2-b . المعدل اليومي للضغط الجوي على سطح البحر (ملليمترات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الأيام	نخيب	حسن	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1016.4	1017.1	1017.5	1017.7	1017.1	1017.0
2	14.5	12.9	13.3	14.1	12.9	13.0
3	14.8	14.3	14.4	15.2	14.6	[illegible]
4	09.1	11.9	09.9	11.1	11.3	13.4
5	11.7	09.6	10.0	11.4	11.0	[illegible]
6	17.6	16.6	16.1	18.9	17.0	17.7
7	22.5	20.8	21.3	22.0	21.1	[illegible]
8	23.7	21.5	21.8	22.9	21.7	[illegible]
9	20.4	18.7	19.0	19.8	17.9	[illegible]
10	18.4	16.7	16.4	17.7	16.6	[illegible]
11	19.1	16.0	17.4	18.0	17.[illegible]	16.4
12	14.2	14.4	13.1	15.3	14.[illegible]	[illegible]
13	16.1	15.4	15.9	17.1	16.[illegible]	15.0
14	14.4	14.9	15.1	15.6	15.[illegible]	15.9
15	04.4	10.1	06.5	07.9	03.[illegible]	12.0
16	13.8	11.3	11.0	13.4	12.[illegible]	13.1
17	16.6	17.4	13.8	16.7	17.[illegible]	17.[illegible]
18	13.2	14.1	13.7	14.3	13.[illegible]	13.[illegible]
19	15.5	10.5	11.6	13.1	12.9	09.[illegible]
20	19.3	18.4	18.8	20.2	19.[illegible]	18.[illegible]
21	16.6	19.2	18.5	19.4	19.[illegible]	19.6
22	22.5	20.2	20.3	21.3	2[illegible]	20.[illegible]
23	20.0	18.9	19.4	19.7	18.[illegible]	18.[illegible]
24	11.9	14.1	13.4	14.0	14.[illegible]	14.[illegible]
25	09.3	09.8	08.4	09.4	08.[illegible]	10.[illegible]
26	08.2	08.0	06.9	08.0	07.[illegible]	07.[illegible]
27	11.1	08.5	08.8	09.8	08.[illegible]	11.[illegible]
28	14.3	11.5	11.8	13.0	12.[illegible]	12.[illegible]
29	09.9	11.7	10.9	11.3	11.[illegible]	10.[illegible]
30	05.5	06.1	03.3	06.1	06.[illegible]	04.[illegible]
31	12.0	10.8	10.2	11.8	11.6	11.[illegible]
MEANS	1014.8	1014.2	1013.9	1015.1	1014.8	[illegible]
DEPARTURE FROM NORMAL	...	-0.1	...	-1.0	-0.4	[illegible]

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1025.6	22nd	0600	1963	1001.6	15th	1500	1963
HAI	1022.6	8th	0600	1963	1003.6	16th	0000	1963
NAJAF	1023.0	8th	0900	1963	1001.1	15th	1800	1963
DIWANIYA	1025.1	8th	0600	1963	1003.2	15th	1100	1963
NASIRIYA	1023.5	8th	0600	1963	1003.6	30th	1200	1963
BASRAH	1022.2	8th	0900	1963	1005.0	30th	1500	1963
HAI	1028.0	3rd	0600	1961	999.2	27th	1500	1962
DIWANIYA	1030.1	3rd	0900	1961	995.8	22nd	1300	1961
NASIRIYA	1029.1	9th	0600	1959	990.8	27th	1200	1962
BASRAH	1028.4	9th	0600	1959	995.9	22nd	1300	1961

MARCH 1963 .

Table - 3 .

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DAYS	SINJAR سنجار	MOSUL موصل	KIRKUK كركوك	RUTBAH رطبة	HABBANIYA حبانية	BAGHDAD بغداد	NUKHAIB نخيب	HAI حي	NAJAF نجف	DIWANIYA ديوانية	NASIRIYA ناصرية	BASRAH بصرة
1	56	80	73	60	67	67	49	58	69	57	52	67
2	64	87	69	57	62	57	40	51	51	51	44	56
3	59	84	68	50	58	58	41	49	62	53	46	57
4	65	76	53	37	42	46	24	48	62	47	39	48
5	60	73	63	44	46	42	24	50	68	44	38	64
6	63	79	70	44	46	46	38	52	77	45	44	79
7	54	73	52	33	38	35	29	49	76	38	40	62
8	47	69	44	34	37	42	42	39	71	40	37	67
9	53	69	47	29	44	42	42	46	52	43	37	74
10	49	72	52	74	70	69	84	61	71	76	71	87
11	50	76	55	65	60	58	60	64	72	69	56	81
12	87	68	65	64	60	57	49	53	63	64	47	78
13	57	80	70	60	64	63	44	60	62	61	55	81
14	50	76	58	41	53	59	36	55	58	56	50	69
15	58	70	47	43	41	50	29	47	44	38	38	51
16	70	78	87	53	65	75	29	69	56	61	55	63
17	59	78	83	54	62	62	38	65	47	54	49	51
18	59	67	71	51	47	49	44	60	43	51	43	46
19	46	66	71	94	69	61	79	60	50	49	43	53
20	47	75	64	73	70	61	52	53	58	59	48	62
21	57	75	55	60	46	46	30	48	41	45	47	68
22	47	69	59	65	55	53	40	51	45	49	42	63
23	42	70	58	51	51	50	34	45	39	44	39	62
24	46	68	46	31	42	35	18	47	33	42	41	56
25	56	69	43	45	39	34	25	35	35	38	45	54
26	64	82	54	51	49	39	32	54	36	46	53	75
27	53	79	68	55	64	58	33	58	43	51	52	79
28	43	64	50	44	63	50	22	57	40	47	47	69
29	47	66	48	23	43	44	19	50	40	41	41	47
30	61	85	68	45	43	41	25	50	37	42	36	56
31	71	87	73	56	57	41	35	51	44	49	39	54
MEANS	56	74	61	51	53	51	39	52	55	50	46	61
NORMAL	..	72	61	51	55	54	..	58	..	53	52	63

STATIONS	HIGHEST	DAY	TIME		LOWEST	DAY	TIME	
SINJAR	92	12th	0600	GMT.	30	19th	1800	GMT.
MOSUL	97	16th	0300		29	28th	1200	
KIRKUK	98	16th	0900		24	24th	1200	
RUTBAH	100	20th	0300		9	29th	1200	
HABBANIYA	97	20th	0300		17	29th	1200	
BAGHDAD	96	16th	0300		13	25th	1200	
NUKHAIB	90	20th	0300		12	28th	1200	
HAI	96	11th	0300		12	25th	1200	
NAJAF	95	11th	0300		14	29th	1200	
DIWANIYA	97	13th	0300		14	26th	1200	
NASIRIYA	90	10th	2100		12	30th	1200	
BASRAH	100	10th	0300		19	15th	1200	

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TABLE 4-B.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (CENTIGRADE)

آذار ١٩٦٣

درجة الحرارة العظمى والصغرى اليومية (سنتغراد)

الايام	سنجار SINJAR		موصل MOSUL		كركوك KIRKUK		خانقين KHANAQIN		رطبة RUTBAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	14.4	3.8	18.8	5.0	17.9	5.6	20.6	4.4	18.1	2.8
2	13.4	6.0	15.5	4.7	18.0	9.5	21.7	9.4	17.5	4.3
3	15.2	4.1	15.6	2.7	15.7	4.5	17.2	6.6	18.5	2.7
4	14.4	6.2	18.5	6.2	19.4	8.9	21.7	6.9	19.8	7.0
5	14.1	4.5	15.1	6.7	15.5	7.1	17.2	10.6	17.2	5.7
6	10.3	4.5	14.2	5.2	12.9	6.1	16.1	8.9	12.9	3.0
7	11.5	2.3	14.6	0.2	13.3	2.5	15.0	1.1	15.3	-1.0
8	12.6	1.8	13.9	0.4	13.6	1.4	15.0	-1.6	12.0	-0.5
9	13.4	2.6	16.2	-1.0	15.4	2.1	17.2	-0.2	15.2	0.4
10	15.4	3.6	18.0	1.2	17.9	4.6	18.3	1.6	14.0	4.0
11	16.4	5.3	19.4	1.8	19.0	4.0	20.0	1.1	17.0	2.6
12	14.1	6.6	13.3	4.8	16.6	7.2	20.6	4.4	18.6	3.5
13	17.4	6.9	19.0	4.2	19.1	5.6	21.1	6.1	20.4	5.5
14	17.1	6.2	23.2	4.0	23.0	7.1	23.9	6.9	24.0	5.9
15	15.3	7.1	17.4	6.0	21.1	9.6	26.1	7.8	23.6	10.0
16	14.5	7.1	16.4	10.0	15.0	8.9	16.1	9.4	17.0	4.7
17	11.6	5.3	14.8	5.2	11.9	7.1	17.2	9.4	17.0	4.8
18	7.7	3.2	13.4	6.8	13.2	6.6	16.1	11.1	15.0	7.1
19	7.6	0.0	10.8	0.2	11.0	3.2	14.0	7.8	14.2	1.6
20	10.1	0.0	13.2	-1.3	13.0	0.5	14.0	0.6	14.6	0.1
21	10.8	1.2	13.3	1.4	16.6	3.9	20.6	2.2	20.8	4.0
22	15.2	2.8	19.6	3.4	20.4	6.5	22.2	7.8	19.2	7.0
23	20.1	3.6	22.0	4.2	22.4	7.3	23.9	5.0	24.0	5.9
24	21.3	6.8	25.8	4.3	26.3	8.9	27.8	6.1	25.0	10.0
25	17.6	10.2	20.6	9.1	23.2	14.9	29.0	8.9	21.5	10.0
26	15.0	9.1	23.1	7.2	23.6	11.1	25.7	18.2	20.6	8.1
27	19.2	6.8	23.2	9.4	20.4	7.8	20.6	11.1	18.5	6.0
28	21.4	11.2	25.2	7.8	25.8	10.2	25.0	8.3	20.8	5.7
29	21.3	10.2	26.0	9.2	25.8	10.7	27.8	11.1	26.3	10.6
30	16.0	11.2	17.0	14.1	21.6	13.6	27.8	13.9	21.0	14.5
31	17.3	7.2	19.2	10.1	20.4	11.0	25.0	11.1	21.5	6.5
MEANS	14.9	5.4	18.0	4.9	18.4	7.1	20.8	6.7	18.4	5.2
DEPARTURE FROM NORMAL	....	....	-1.0	-0.6	-0.3	-0.4	-0.1	-1.6	-1.3	-0.3

STATIONS	HIGHEST MAX. C°	DAY	YEAR	LOWEST MIN. C°	DAY	YEAR
SINJAR	26.7	23rd	1962	0.0	19&20	1963
MOSUL	30.6	24th	1962	-3.9	3rd	1948
KIRKUK	34.4	24th	1962	-5.6	14th	1945
KHANAQIN	35.6	24th	1962	-2.2	14th	1965
RUTBAH	36.2	24th	1962	-6.1	14th	1939

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TABLE 4-b .

آذار ١٩٦٣

درجات الحرارة العظمى و الصغرى اليومية (بالفهرنهايت)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الأيام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	صغرى عظمى	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.5	4.5	19.9	5.3	19.0	5.6	22.2	6.3
2	22.0	8.9	22.9	10.9	21.4	5.5	24.5	10.0
3	20.4	7.1	20.8	5.8	20.4	4.8	21.6	10.3
4	24.9	11.9	24.7	10.0	23.8	7.8	23.2	10.3
5	20.0	12.8	20.5	11.9	21.4	7.3	21.0	10.2
6	16.8	7.8	17.7	8.5	16.5	4.5	21.6	8.0
7	16.2	1.7	16.7	3.4	14.8	2.0	17.6	5.7
8	16.7	1.7	16.5	0.4	14.3	1.8	16.2	4.2
9	17.5	1.1	17.7	2.5	12.6	1.3	17.0	3.8
10	11.7	5.0	14.2	3.4	8.1	4.8	11.8	9.3
11	21.4	2.7	22.0	2.6	18.0	7.3	21.0	4.0
12	23.7	8.9	23.2	7.4	20.4	-1.4	24.4	6.6
13	22.4	6.9	22.5	7.9	21.6	0.1	22.2	8.9
14	25.0	6.9	24.8	6.1	23.3	-0.2	25.6	7.5
15	25.6	10.5	24.2	11.5	26.2	11.2	26.2	8.0
16	20.5	10.2	19.4	10.8	19.6	7.3	18.3	10.2
17	20.7	11.8	20.9	10.5	20.3	8.4	22.3	7.4
18	20.0	10.6	19.2	11.1	19.6	6.1	22.6	8.2
19	13.4	9.1	15.0	10.4	11.1	5.4	24.6	10.2
20	16.1	1.1	16.8	1.1	17.1	3.3	17.8	4.2
21	23.9	6.0	22.1	6.0	24.1	4.0	24.1	6.4
22	22.2	7.5	23.0	8.0	26.9	7.0	25.2	8.3
23	24.4	6.5	23.0	8.1	23.8	5.7	25.6	8.2
24	29.1	7.7	28.3	6.2	28.4	7.7	29.0	9.2
25	27.1	12.2	28.7	12.8	28.0	2.7	29.7	9.4
26	27.2	10.5	28.2	14.0	23.8	7.6	29.0	14.2
27	21.4	10.3	21.5	11.2	21.1	7.4	21.4	13.9
28	26.2	9.9	27.4	10.2	23.6	6.5	26.2	10.2
29	28.6	10.6	27.7	11.1	27.9	7.5	29.0	12.4
30	25.0	18.4	26.4	17.4	24.9	13.4	27.8	15.0
31	25.6	11.8	26.1	11.6	23.4	9.6	28.0	12.0
MEANS	21.9	8.2	22.1	8.4	20.8	5.5	23.1	8.5
DEPARTURE FROM NORMAL	-0.7	-0.8	0.0	-0.7	....	....	-0.5	-1.7

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	36.1	24th	1962	-2.8	1st	1958
BAGHDAD	34.2	24th	1962	-2.8	5th	1952
HAI	35.0	24th	1962	0.0	14th	1959

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TABLE 4-e

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	النجف NAJAF		الديوانية DIWANIYA		الناصرية NASIRIYA		البصرة BASRAH	
اليوم DAYS	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.
1	21.6	7.1	22.4	5.6	22.7	7.5	22.9	12.9
2	22.4	9.4	24.5	10.3	25.5	12.0	26.2	12.6
3	21.0	9.2	23.2	8.6	23.0	9.3	22.8	10.8
4	26.2	8.9	24.6	9.1	24.5	12.5	24.7	10.9
5	21.0	12.8	21.3	11.9	22.0	14.3	23.7	17.1
6	18.2	8.6	20.8	8.3	21.3	8.2	22.5	9.4
7	16.3	4.2	18.5	3.0	18.9	5.9	18.5	10.3
8	16.2	3.4	17.2	3.2	17.6	4.5	16.9	9.1
9	14.9	5.4	14.9	1.9	17.6	5.0	17.8	6.1
10	13.0	8.2	12.4	2.5	13.6	7.8	14.9	10.8
11	19.2	4.3	20.4	3.8	21.6	5.3	19.4	7.9
12	23.0	6.4	24.4	6.3	24.8	8.2	23.8	8.6
13	22.0	9.0	22.7	8.6	23.0	9.9	22.3	11.0
14	24.6	8.3	26.2	7.5	25.0	8.7	24.8	9.8
15	26.6	8.6	26.7	9.2	27.6	12.3	26.1	10.0
16	20.4	10.4	20.6	11.7	22.3	13.9	20.6	17.4
17	22.0	10.8	25.0	11.1	28.1	14.0	24.3	10.6
18	22.9	10.4	24.8	9.0	26.6	11.8	25.2	13.2
19	17.9	11.5	21.5	12.2	27.0	13.8	23.6	13.3
20	17.6	2.2	18.6	3.2	19.6	4.5	19.9	5.0
21	24.9	7.0	24.5	7.0	24.7	8.0	21.0	6.0
22	23.9	10.3	25.5	9.5	26.3	10.2	26.5	10.3
23	26.0	11.0	26.6	8.5	26.2	8.6	25.3	11.3
24	28.9	10.2	29.5	7.8	27.5	7.6	27.9	9.8
25	30.2	13.0	31.1	12.8	29.3	14.5	30.2	10.3
26	28.5	13.8	30.6	14.9	31.5	14.1	30.7	20.1
27	21.6	11.5	22.8	12.5	22.5	14.2	23.0	16.2
28	26.0	11.8	26.7	11.6	26.5	10.6	24.5	10.6
29	27.8	13.0	29.2	12.0	29.5	13.2	27.9	13.4
30	27.0	18.0	28.5	17.0	32.3	17.6	29.1	16.9
31	26.0	13.5	28.1	12.4	28.8	15.3	27.1	16.3
MEANS	22.4	9.5	23.7	9.4	24.4	10.3	24.0	11.5
DEPARTURE FROM NORMAL	[illegible]	[illegible]	+0.1	+0.6	-0.2	-0.7	-0.5	-0.8

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	36.1	14th	1964	-3.2	1st	1959
NASIRIYA	39.3	16th	1959	0.0	4th	1959
BASRAH	37.6	27th	1962	1.9	9th	1959

MARCH 1963 . TABLE 5.

آذار ١٩٦٣

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

المعدل الشهري لدرجات الحرارة
الجافة (سنتغراد)

T I M E - G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		7.4	10.3	12.6	14.1	12.4	10.1		11.2
MOSUL	6.2	6.9	9.8	15.7	16.9	15.0	10.6	8.5	11.2
KIRKUK	9.3	8.4	12.5	15.8	17.6	15.5	12.3	11.0	12.8
KHANAQIN		6.3	14.3	18.6	20.1	18.1	13.7		15.5
RUTBAH	7.9	6.1	9.7	15.1	17.6	16.2	11.9	9.6	11.8
HABBANIYA	10.9	9.1	13.6	19.1	21.9	18.6	14.5	12.4	14.8
BAGHDAD	10.7	9.2	13.5	18.8	21.3	19.5	15.8	13.7	15.1
NUKHAIB			12.4	17.2	19.7	19.5			17.2
HAI	11.8	10.1	14.9	20.9	22.6	20.1	15.4		16.5
NAJAF	12.8	11.6	14.9	19.8	21.9		16.7		16.1
DIWANIYA	10.8	9.3	14.3	21.3	23.2	20.0	15.3	13.2	16.1
NASIRIYA	12.6	11.2	15.7	21.9	23.7	21.0	16.6	14.4	17.3
BASRAH	14.3	13.0	17.8	22.3	23.2	20.2	17.1	15.5	17.9

TABLE -6.

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR - PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR			7.3	7.7	7.6	6.1	7.1		7.2
MOSUL	9.0	8.3	9.4	10.9	10.4	10.4	10.3	9.6	9.8
KIRKUK	8.5	8.4	9.1	8.6	8.0	8.7	9.1	8.8	8.7
KHANAQIN		8.1	9.9	9.6	8.5	8.4	8.9		6.6
RUTBAH	6.8	6.8	7.2	6.4	5.7	5.9	7.1	6.7	6.6
HABBANIYA	8.4	8.4	9.2	8.7	7.7	8.1	8.9	8.8	8.5
BAGHDAD	8.3	8.0	9.0	8.9	8.0	8.3	8.7	8.6	8.5
NUKHAIB			7.2	7.1	6.9	6.6			6.9
HAI	8.9	8.9	10.3	9.9	8.9	9.6	9.9		9.5
NAJAF	9.1	8.9	9.2	9.3	8.9		9.2		9.1
DIWANIYA	8.2	8.3	9.1	8.8	8.3	8.6	9.3	8.5	8.7
NASIRIYA	8.9	8.9	8.8	7.9	8.9	9.1	9.1	8.8	8.8
BASRAH	12.4	11.6	12.3	12.6	12.9	12.7	13.9	12.9	12.6

TA[illegible]

المعدل الشهري لدرجات الحرارة للعملة الرطبة (سنتغراد)

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		5.1	6.9	8.1	8.1	8.1	6.8		7.2
MOSUL	6.1	5.2	8.0	11.8	12.1	11.2	9.0	7.4	8.3
KIRKUK	7.2	6.5	9.1	10.5	10.9	10.3	9.1	8.1	9.3
KHANAQIN		6.3	9.9	11.8	12.3	11.5	9.6		10.3
RUTBAH	5.2	4.2	6.4	8.8	9.6	9.0	7.2	6.1	7.4
HABBANIYA	7.6	6.8	9.3	12.1	12.4	11.5	9.9	8.9	9.9
BAGHDAD	7.7	6.9	9.6	12.3	12.7	12.0	10.2	8.9	10.0
NUKHAIB			8.0	10.4	11.1	11.0			10.1
HAI	8.3	7.7	11.1	13.5	13.8	12.9	11.0		11.2
NAJAF	9.4	8.1	10.5	12.7	13.5		11.4		10.9
DIWANIYA	7.7	7.2	10.6	13.0	13.7	12.5	10.6	9.1	10.6
NASIRIYA	9.1	8.1	11.0	12.9	13.6	13.1	11.3	10.1	11.2
BASRAH	12.0	10.7	13.5	15.6	16.1	14.9	13.8	12.5	13.6

TABLE-8.

MONTHLY MEAN DEW POINT(C°)

المعدل الشهري لدرجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		1.3	2.4	2.7	2.9	2.8	2.2		2.4
MOSUL	5.2	4.2	5.9	8.0	7.1	7.3	7.1	6.2	6.4
KIRKUK	4.5	4.0	5.2	4.4	3.2	4.4	5.2	4.7	4.5
KHANAQIN		3.9	4.9	4.4	4.2	4.1	4.9		4.6
RUTBAH	1.4	1.0	1.6	0.0	-1.4	-0.8	1.3	1.5	0.6
HABBANIYA	4.0	4.2	5.5	4.4	2.7	3.6	4.6	4.6	4.2
BAGHDAD	3.8	3.7	4.9	4.5	3.2	3.8	4.6	4.4	4.1
NUKHAIB			2.2	1.8	0.6	1.0			1.4
HAI	4.8	4.9	7.1	6.4	4.6	6.1	6.2		5.7
NAJAF	5.5	5.2	5.6	5.2	4.7		5.5		5.3
DIWANIYA	3.7	3.8	5.5	4.7	3.8	4.6	5.3	4.3	4.5
NASIRIYA	4.7	4.2	4.8	3.2	2.8	5.0	5.4	5.3	4.5
BASRAH	9.9	8.8	9.8	10.0	10.4	10.3	11.1	10.5	10.1

TABLE -9. MONTHLY MEAN RELATIVE HUMIDITY (%) المعدل الشهري للرطوبة النسبية (٪)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	"	66	58	52	48	54	59	"	56
MOSUL	90	89	77	61	54	61	80	85	74
KIRKUK	74	77	64	50	41	50	64	67	61
KHANAQIN	"	75	57	42	38	42	58	"	52
RUTBAH	66	72	60	39	30	34	51	57	51
HABBANIYA	65	72	59	40	32	39	53	61	53
BAGHDAD	65	70	57	41	32	37	50	59	51
NUKHAIB	"	"	51	38	31	33	"	"	38
HAI	66	72	60	41	32	41	56	"	53
NAJAF	63	70	56	42	36	"	50	"	53
DIWANIYA	63	72	52	35	30	38	54	57	50
NASIRIYA	59	63	46	30	27	35	48	22	45
BASRAH	75	78	61	49	47	54	69	74	63

TABLE 10. MONTHLY MEAN PRESSURE (mbs.) AT M.S.L. المعدل الشهري للضغط الجوي على سطح البحر

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	"	16.1	16.2	16.0	14.4	14.1	15.2	"	1015.3
MOSUL	16.1	16.6	17.1	16.3	14.5	14.2	15.6	16.0	1015.8
KIRKUK	15.5	16.1	16.6	15.8	13.9	14.2	15.5	15.6	1015.4
KHANAQIN	"	16.7	15.9	14.7	13.0	12.9	15.4	"	1014.8
RUTBAH	15.2	15.7	16.7	16.9	14.5	14.5	15.3	15.4	1015.4
HABBANIYA	14.7	15.1	16.2	15.5	13.9	13.8	14.8	14.8	1014.8
BAGHDAD	14.8	15.3	16.5	12.5	14.4	14.1	15.1	15.0	1014.7
HAI	13.8	14.7	15.5	15.1	14.0	13.2	14.4	"	1014.4
NUKHAIB	"	"	16.9	15.7	13.4	13.2	"	"	1014.8
NAJAF	13.3	13.8	15.2	14.5	12.8	"	13.5	"	1013.9
DIWANIYA	14.0	15.4	16.6	15.8	14.4	14.0	15.1	14.9	1015.1
NASIRIYA	14.0	14.6	15.9	15.2	13.2	13.3	14.5	14.5	1014.4
BASRAH	14.5	14.8	16.1	15.3	14.1	13.9	15.0	15.0	1014.8

TABLE 11. MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS) المعدل الشهري لكمية الغيوم الواطئة (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	"	1.0	1.2	1.8	2.0	2.1	1.3	"	1.6
MOSUL	1.6	2.5	2.2	3.0	3.5	2.7	1.9	1.9	2.4
KIRKUK	1.8	2.1	1.9	2.0	2.4	2.3	1.5	2.2	2.0
KHANAQIN	"	2.4	2.3	2.0	2.9	2.9	2.0	"	2.4
RUTBAH	1.2	0.8	0.8	2.0	2.7	2.0	1.4	1.0	1.5
HABBANIYA	0.5	1.1	0.3	0.8	1.6	1.1	0.3	0.4	0.8
BAGHDAD	0.4	0.6	0.6	0.9	1.5	0.7	0.1	0.0	0.6
NUKHAIB	"	"	1.0	0.7	1.5	1.6	"	"	1.2
HAI	0.0	0.1	0.5	0.5	0.9	0.7	0.4	"	0.4
NAJAF	0.3	0.6	0.5	0.7	1.2	"	0.6	"	0.7
DIWANIYA	0.3	0.9	0.5	0.6	1.1	0.8	0.5	0.4	0.6
NASIRIYA	0.3	0.7	1.3	1.1	1.0	0.9	1.0	0.5	0.9
BASRAH	0.3	0.5	0.6	0.5	0.5	0.5	0.7	0.7	0.5

TABLE 12. MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS) المعدل الشهري لمجموع كمية الغيوم (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	"	2.5	3.0	3.6	3.9	3.7	2.3	"	3.2
MOSUL	3.3	4.2	4.0	4.9	5.0	4.3	3.3	2.8	4.0
KIRKUK	2.5	3.4	3.6	3.8	4.0	3.6	2.1	2.8	3.2
KHANAQIN	"	3.6	3.8	4.5	4.9	4.6	2.5	"	4.0
RUTBAH	2.2	2.6	3.2	3.8	4.3	3.9	2.3	2.1	3.1
HABBANIYA	2.9	3.3	2.6	3.4	3.9	3.8	2.6	2.4	3.1
BAGHDAD	2.2	3.3	3.3	3.4	3.8	3.5	2.1	1.6	2.9
NUKHAIB	"	"	2.9	2.8	3.6	3.8	"	"	3.3
HAI	2.4	2.6	3.3	3.5	3.6	3.4	2.1	"	2.8
NAJAF	0.9	2.4	2.5	2.7	3.1	"	2.4	"	2.3
DIWANIYA	1.5	2.5	2.2	2.2	2.5	2.5	1.2	1.2	1.8
NASIRIYA	1.0	5.6	2.6	2.8	2.5	2.5	1.4	1.0	2.4
BASRAH	1.8	2.2	2.6	2.2	1.8	2.7	2.2	2.6	2.3

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TABLE 13-a. عدد تكرار رصدات الرياح السطحية

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	الوقت GMT. TIME	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V. K.
سنجار SINJAR	0300	16	1	0	0	0	0	7	5	2	19	9	1	0	5
	0600	8	0	4	0	0	0	9	5	2	22	6	1	0	8
	0900	7	0	6	1	4	0	10	1	2	20	8	1	0	10
	1200	3	0	6	0	5	0	8	5	4	16	6	5	0	10
	1500	7	0	4	0	5	0	9	4	2	19	10	0	0	10
	1800	12	2	2	1	2	0	7	3	2	20	8	1	0	9
	TOTAL	51	3	22	2	16	1	50	25	14	116	47	9	0	9
موصل MOSUL	0000	3	1	3	2	5	0	3	3	10	16	7	0	0	5
	0300	4	3	3	2	4	1	5	4	5	21	4	1	0	7
	0600	5	2	5	3	3	2	5	2	4	22	7	1	0	10
	0900	5	0	7	4	6	2	6	2	0	20	10	1	0	10
	1200	1	1	3	6	2	0	11	3	2	21	7	1	0	9
	1500	3	1	6	1	6	1	4	3	2	20	9	0	0	10
	1800	3	4	3	1	8	0	3	6	3	20	7	1	0	8
	2100	6	1	3	1	3	2	1	8	5	19	6	0	0	7
	TOTAL	46	13	35	16	37	8	38	36	29	157	57	5	0	8
كركوك KIRKUK	0000	0	5	3	5	1	0	0	1	14	13	3	0	1	5
	0300	0	6	3	2	0	2	0	0	18	12	2	0	0	3
	0600	0	1	0	5	2	3	2	0	18	10	2	0	0	3
	0900	0	2	3	3	3	4	2	3	4	23	3	1	0	4
	1200	0	1	0	4	2	3	6	3	3	19	3	0	0	3
	1500	0	1	1	5	0	5	7	3	3	18	3	0	0	3
	1800	0	2	5	1	0	0	3	0	20	11	0	0	0	2
	2100	1	6	3	3	1	0	2	0	13	14	5	0	0	4
	TOTAL	1	26	20	26	13	16	28	9	105	120	16	1	1	4
خانقين KHANAQIN	0300	0	0	0	0	8	0	0	0	13	17	0	1	0	5
	0600	1	0	6	1	8	0	0	0	15	16	1	1	0	5
	0900	2	0	2	0	8	0	13	2	4	21	2	1	0	7
	1200	0	0	3	0	7	1	13	4	2	22	2	1	1	8
	1500	0	0	1	0	9	0	8	6	2	21	2	1	0	7
	1800	0	0	5	0	5	0	5	2	14	17	0	0	0	5
	TOTAL	3	0	27	1	45	1	39	14	56	112	8	5	1	5
رطبة RUTBAH	0000	0	0	3	4	4	2	12	2	4	18	4	2	0	10
	0300	0	1	0	0	6	1	16	0	2	18	3	1	0	8
	0600	3	0	0	1	6	4	9	3	3	17	3	2	0	9
	0900	2	1	1	2	6	4	10	4	2	15	3	4	0	10
	1200	2	0	1	2	7	1	14	2	2	15	3	4	0	11
	1500	3	2	0	3	3	1	13	3	3	16	1	2	0	10
	1800	5	0	2	3	3	0	10	3	5	13	4	4	0	8
	2100	1	0	3	3	4	1	10	3	6	16	4	3	0	9
	TOTAL	18	4	10	18	36	11	94	22	35	131	58	23	1	9

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TABLE 13-b .

آذار ١٩٦٣

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF

STATIONS	TIME GMT. وقت كرينتش	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	MEAN V.K. معدل السرعة بالعقد
HABBANIYA حبانية	0000	1	0	3	3	1	1	6	3	13	11	7	0	0	6
	0300	2	1	3	1	2	0	10	2	10	17	4	0	0	6
	0600	1	0	2	1	2	2	14	7	2	15	13	1	0	10
	0900	2	0	0	1	5	0	11	8	4	14	12	1	0	10
	1200	0	0	0	2	5	0	17	6	1	19	10	1	0	10
	1500	0	0	2	2	3	0	9	11	4	22	4	1	0	6
	1800	1	0	4	3	0	1	8	4	10	17	4	0	0	5
	2100	1	1	2	6	0	1	6	2	12	12	7	0	0	6
	TOTAL	8	2	16	19	18	5	81	43	56	127	61	4	0	7
BAGHDAD بغداد	0000	2	1	0	4	1	0	2	9	12	17	2	0	0	4
	0300	2	1	0	6	0	2	2	9	9	19	3	0	0	4
	0600	3	0	0	5	2	0	4	12	5	21	5	0	0	6
	0900	2	1	0	2	4	2	6	13	1	22	8	0	0	8
	1200	4	0	1	1	6	1	7	9	2	21	7	1	0	9
	1500	1	0	1	2	4	1	7	12	3	25	3	0	0	6
	1800	3	0	0	4	0	1	2	8	13	15	3	0	0	4
	2100	2	0	1	5	0	0	1	11	11	18	2	0	0	4
	TOTAL	19	3	3	29	17	7	31	83	56	158	33	1	0	6
HUKHAIB بخيب	0600	4	1	0	2	2	1	13	5	3	16	8	3	1	10
	0900	6	0	1	1	4	0	9	5	5	13	10	3	0	9
	1200	2	0	1	1	0	2	12	6	7	12	10	2	0	9
	1500	3	2	2	1	3	2	10	5	3	19	9	0	0	9
	TOTAL	15	3	4	5	9	5	44	21	18	60	40	5	1	9
KAI حي	0000	3	1	6	2	2	0	4	10	3	16	11	1	0	10
	0300	5	1	3	2	0	0	2	11	7	17	7	0	0	11
	0600	6	0	6	1	0	0	2	13	3	19	12	0	0	9
	0900	3	0	4	1	1	0	4	14	4	8	18	1	0	11
	1200	1	0	5	1	0	1	0	19	4	12	14	1	0	11
	1500	1	0	3	0	0	0	1	13	13	11	7	0	0	5
	1800	0	0	5	0	1	0	2	15	8	17	5	1	0	7
	TOTAL	19	2	32	7	4	1	15	95	42	97	74	4	0	9
NAJAF نجف	0000	2	1	0	1	2	0	1	11	13	12	5	0	1	5
	0300	3	2	1	0	2	1	3	10	9	20	2	0	0	4
	0600	5	1	0	0	6	1	3	13	2	21	8	0	0	7
	0900	9	0	0	0	3	1	4	11	3	16	11	1	0	9
	1200	11	0	0	0	1	4	2	3	8	2	14	13	2	0	11
	1800	2	2	0	1	5	1	4	9	7	20	3	1	0	6
	TOTAL	32	6	1	3	22	6	18	62	36	103	42	4	1	7

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TABLE 13-a .

عدد تكرار رصدات الرياح السطحية

آذار ١٩٦٣

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة بالعقد MEAN V.K.
ديوانية DIWANIYA	0000	6	1	4	3	1	1	8	5	2	24	5	0	0	6
	0300	6	1	4	1	2	2	11	4	0	28	3	0	0	6
	0600	6	0	0	2	3	5	8	7	0	17	14	0	0	9
	0900	6	1	1	1	3	2	14	3	0	14	17	0	0	11
	1200	9	0	3	1	2	0	12	3	1	12	17	1	0	11
	1500	8	1	5	1	0	0	11	3	2	24	4	1	0	7
	1800	8	2	2	2	1	2	5	7	2	25	3	1	0	6
	2100	9	0	6	2	2	1	7	3	1	25	5	0	0	7
	TOTAL	58	6	25	13	14	13	76	35	8	169	68	3	0	8
ناصرية NASIRIYA	0000	3	1	1	6	1	1	5	8	5	24	2	0	0	6
	0300	3	2	0	4	2	1	10	6	3	26	2	0	0	5
	0600	3	0	1	3	3	2	8	9	2	20	9	0	0	9
	0900	3	2	0	4	2	0	4	13	3	15	12	1	0	10
	1200	4	1	3	3	0	0	9	9	2	17	12	0	0	10
	1500	5	3	3	2	1	0	3	10	4	23	3	1	0	7
	1800	4	1	2	6	0	1	7	8	2	25	3	1	0	7
	2100	3	2	4	5	1	1	7	6	2	25	4	0	0	6
	TOTAL	28	12	14	33	10	6	53	69	23	175	47	3	0	8
بصرة BASRAH	0000	7	2	3	1	3	0	6	5	4	20	7	0	0	6
	0300	3	2	3	2	4	0	8	5	4	24	3	0	0	4
	0600	5	3	0	2	5	2	6	8	0	26	4	1	0	7
	0900	5	0	0	4	2	0	3	15	2	16	12	1	0	10
	1200	6	1	1	1	4	1	1	15	1	13	15	2	0	11
	1500	7	3	0	2	4	0	1	14	0	24	6	1	0	7
	1800	5	3	2	5	2	1	1	12	2	27	1	1	0	5
	2100	7	2	3	1	5	1	0	8	4	22	5	0	0	5
	TOTAL	45	16	12	16	29	5	26	32	17	172	53	6	0	7

TABLE -14.

HIGHEST WIND-SPEED DURING ONE HOUR

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	28 Knots	350	0600	25th
MOSUL	30	110	1200	26th
KIRKUK	45	130	0000	16th
KHANAQIN	39	180	1200	30th
RUTBAH	36	260	1200	4th
HABBANIYA	30	120	0900	15th
BAGHDAD	32	140	1200	15th
NUKHAIB	35	270	0600	16th
HAI	28	090	1200	30th
NAJAF	35	180	0000	16th
DIWANIYA	26	110	1800	15th
NASIRIYA	29	030	1500	19th
BASRAH	30	300	0600	16th

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آذار ١٩٦٣

TABLE 15-a .

الهطول اليومي (بالملمترات)

DAILY PRECIPITATION (MILLIMETERS), tr. < 0.05 mm

الأيام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1			tr.				tr.
2	tr.	4.7	tr.				
3		3.8	0.2				
4	tr.	0.2	1.0				
5	1.4	0.4	0.9	0.2		tr.	
6	1.2	1.2				tr.	
7							
8							
9							
10					tr.	1.1	0.2
11		tr.					
12	4.3	3.2	0.7	0.6			tr.
13							
14							
15		7.0	21.4		1.0	tr.	12.6
16	2.1	3.3	5.7	19.6		5.9	
17	0.1	1.6	0.4				
18	7.3						
19			0.7	1.4	17.0	4.8	0.2
20					4.5		
21	tr.	tr.	0.1		tr.		
22							
23							
24							
25							
26	3.1	6.2					
27				7.8	tr.	6.7	
28							
29		tr.	1.1				0.2
30	12.1	24.4	6.9	0.7	tr.	tr.	
31	0.1	9.4	0.1				
TOTAL	31.7	65.4	39.2	30.3	22.5	18.5	13.2
NORMAL	65.6	57.3	82.5	68.8	18.2	23.5	27.9

STATIONS	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
SINJAR	76.0 mms.	4th.	1939
MOSUL	53.2	6th.	1954
KIRKUK	97.6	1st.	1953
RUTBAH	17.8	11th	1961
HABBANIYA	35.4	23rd	1954
BAGHDAD	55.6	16th	1938
KHANAQIN	94.3	21st.	1943

MARCH 1963 .

TABLE 15-b .

آذار ١٩٦٣

الهاطل اليومي (بالملليمترات)

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

الأيام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1				tr.		tr.
2						
3						
4						
5						
6						
7						
8						
9		tr.		tr.	2.0	
10	tr.	0.9	5.8	11.0	tr.	0.5
11	3.0					
12						
13						
14						
15		5.2		1.1	0.8	
16	2.0		2.8			0.1
17						
18						
19	2.0					tr.
20						
21						
22						
23						
24						tr.
25						
26		tr.		tr.	tr.	2.5
27						0.5
28						
29						
30	0.7					
31						
TOTAL	7.7	6.1	8.6	12.1	2.8	3.6
NORMAL	...	23.6	...	20.0	19.0	24.3

STATIONS	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
HAI	49.1	13th	1946
DIWANIYA	66.2	27th	1955
NASIRIYA	35.6	14th	1946
BASRAH	50.9	5th.	1946

MARCH 1963 .

TABLE 15-c .

آذار ١٩٦٣

الهطول اليومي (ملليمترات)

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

الأيام	راوندوز	دهوك	عقرة	افتخار	تلعوينات	صلاح الدين	سرسنك	حلبجة
DAYS	RAWANDUZ	DUHOK	AQRA	IFTIKHAR	TEL AWAINAT	SALAH ADDIN	SERSANK	HALA-BJAH
1						2.9		
2		1.5	1.4			3.2		
3	43.0	tr.	6.7		3.8		5.0	
4	10.0	3.5	1.6				2.5	15.5
5	1.6	2.0	6.7					2.0
6	3.2		2.6			tr.	6.0	4.0
7	4.9					5.4		
8	4.0					2.9		
9						tr.		
10								
11	7.4	2.2	tr.				1.5	
12		5.0	5.0				3.0	2.5
13						tr.		
14						4.3		
15	7.3	15.0	14.3	12.7		5.6	18.0	14.0
16	8.1	4.0	24.8	7.6	11.4	tr.	5.0	9.0
17	5.1	tr.	2.8				4.5	11.0
18								10.0
19								17.5
20	7.4					tr.		
21		2.3				1.9		
22						2.4		
23						tr.		
24								
25								
26		5.8	1.7			tr.		
27						1.8		
28								
29						1.8		
30		23.0	23.4			6.8	23.0	4.0
31	7.0					3.9		2.0
TOTAL	109.2	64.3	91.0	20.3	15.2	42.9	68.5	91.5

آذار ١٩٦٣

MARCH 1963.

TABLE 15-d .

الهطول اليومي (مليمترات)

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

الأيام	كرجو	طوز	تلعفر	شقلاوة	حويجة	جدولا	كيارة	بيجي	هيت
DAYS	BARRAJO	TUZ	TELA-AFAR	BHAQLANA	HAWIJA	JALAWLA'A	QAYARA	BAIJI	HIT
1									
2							tr.		
3				28.0					
4	19.0								
5	2.0				2.5				
6	3.0			12.0					
7									
8									
9									
10									
11									
12	5.0		6.3				11.0		
13									
14									
15	29.0		7.2		6.8		tr.	5.8	2.5
16	21.0	20.3		40.0	3.5	15.2	13.5		
17	14.0	4.1	2.5	17.0			tr.		
18				10.0					
19	9.0								16.5
20									
21									
22									
23									
24									
25				38.0					
26							tr.		0.6
27									
28									
29				20.0					
30	16.0		1.7				28.5		
31	5.0		1.0	17.0	2.0				
TOTAL	123.0	24.4	18.7	182.0	14.8	15.2	53.0	5.8	19.6

MARCH 1963 .

آذار ١٩٦٣

TABLE 15-e .

الهطول اليومي (بالمليمترات)

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

الأيام	سامرا	المنصور	عنة	مندلي	بعقوبة	بدرة	سعدية
DAYS	SAMARA'A	MANSOOR	ANAH	MANDILY	BAKOBA	BADRA	SA'ADIYA
1	tr.						
2	tr.						
3	tr.						
4							
5	tr.		1.0				
6							
7							
8							
9							
10							
11	tr.					3.5	
12							
13							
14							
15	12.7	16.0	5.5	22.0	8.5	8.5	
16	tr.						17.0
17							
18							
19	2.5						
20							
21							
22							
23							
24							
25							
26	4.8	1.0		4.0	1.0		
27							
28							
29					0.3		
30							
31							
TOTAL	20.0	17.0	6.5	26.0	9.8	12.0	17.0

MARCH 1963 .

TABLE 15- ٤٠

آذار ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	كوت	عزيزية	سماوة	بدعة	كربلاء	علي الغربي	مقل	فاو
DAYS	KUT	AZIZIYA	SAMAWA	BADA'A	KARBALA'A	ALIAL-GHARBI	MAQIL	FAO.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10	5.0	8.0				13.4		
11				2.0	17.8			
12								
13								
14								
15	6.0					4.0		
16		10.0			3.8			
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	1.2							
27				2.0				
28								
29								
30								
31								
TOTAL	12.2	18.0		4.0	21.6	17.4		

MARCH 1963 .

TABLE - 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

No. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الأيام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	7	0	0	1	0	0	9	1	0
MOSUL	12	0	3	5	0	0	6	3	2
KIRKUK	10	0	0	1	0	0	11	1	6
KHANAQIN	6	0	0	1	0	1	9	6	2
RUTBAH	3	1	0	1	1	0	7	3	1
HABBANIYA	4	0	0	1	0	1	9	0	6
BAGHDAD	4	0	0	2	0	0	10	0	6
NUKHAIB	4	0	0	0	0	4	6	3	1
HAI	2	0	0	1	0	0	11	1	0
NAJAF	2	0	0	0	0	1	13	1	0
DIWANIYA	2	0	0	0	0	2	14	1	0
NASIRIYA	2	0	0	0	0	6	14	1	0
BASRAH	3	0	1	3	0	1	12	1	0

TABLE - 17.

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE DURING ONE DAY HOURS	MAX. SUNSHINE DURING ONE DAY DAY	No. OF DAYS WITHOUT SUNSHINE
MOSUL	227.4	10.8	7th	1
HABBANIYA	275.6	11.4	23&31st	2
BAGHDAD	266.1	11.2	1[illegible]	1
BASRAH	267.8	11.4	2[illegible]	1

TABLE - 18.

MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لحرارة الحشيش والتربة (سنتغراد)

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE C° 0.3 M	EARTH TEMPERATURE C° 1.2 M
MOSUL	....	13.1	15.5
KIRKUK	3.6	14.3	15.8
HABBANIYA	3.8	18.2	19.6
BAGHDAD	4.3	16.8	19.8
NAJAF	....	17.0	19.5
NASIRIYA	9.8	19.4	21.5
BASRAH	8.6	....	....

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شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 4
Vol. 26
Month April
Year 1963

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مجلـد ٣٦
الشهر نيسان
السنة ١٩٦٣

جمهورية العراقيـــــــــة

وزارة المواصلات

مديرية الطيران المدني العامـــــــة

دائرة الارصاد الجوية العامـــة

شعبة المنـــاخ

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B A G H D A D

معلومات مناخية لشهر نيسان ١٩٦٣

مجلد ٢٦ عدد (٤) نيسان ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR APRIL 1963

VOLUME 26 , No. (4) APRIL 1963.

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GEOGRAPHICAL DATA SEE JANUARY 1963.

APRIL 1963 .

TABLE 1-a.

نيسان ١٩٦٣

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبـــة	هبانيـــة	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	16.6	16.1	18.1	17.7	20.5	21.7
2	19.5	18.2	21.1	15.2	21.4	21.8
3	20.7	17.8	18.5	17.5	20.0	18.8
4	17.0	18.4	19.7	20.7	22.1	21.0
5	17.5	18.7	20.1	17.7	21.6	22.5
6	18.1	18.1	20.8	17.4	22.1	23.9
7	18.5	17.1	19.0	19.5	21.5	23.4
8	16.4	16.9	19.4	19.7	22.6	25.8
9	15.7	17.7	20.0	18.5	22.6	24.2
10	17.3	14.2	18.9	12.9	21.0	22.2
11	13.1	15.3	15.9	13.7	17.4	18.1
12	13.5	15.6	13.8	14.4	18.4	17.8
13	15.2	16.5	16.7	17.0	19.4	18.9
14	17.2	17.1	17.9	19.7	21.0	20.6
15	16.7	16.1	18.1	18.6	22.0	23.6
16	17.4	16.3	18.4	19.7	21.8	22.6
17	17.2	18.3	20.2	17.9	23.4	24.3
18	15.6	16.4	17.4	16.6	20.4	21.5
19	17.1	16.8	18.3	22.8	21.2	22.2
20	17.8	17.7	20.4	21.4	24.0	24.1
21	20.0	19.0	20.1	21.4	23.6	24.8
22	22.6	21.1	22.5	22.8	24.0	24.2
23	15.5	17.3	22.2	20.1	24.1	25.8
24	15.7	18.0	18.4	17.4	21.6	22.9
25	14.9	17.4	18.4	17.7	21.5	22.4
26	17.3	18.4	20.3	20.2	23.7	24.4
27	19.5	21.2	23.5	21.4	25.5	26.3
28	13.7	16.0	18.4	17.4	24.3	25.3
29	13.8	15.8	18.7	16.2	21.3	21.6
30	14.7	18.1	18.8	16.8	21.4	22.6
MEANS	16.9	17.4	19.1	18.3	21.9	22.7
DEPARTURE FROM NORMAL	....	0.0	-0.3	0.0	-0.3	+1.0

NOTES: 1- AT SINJAR , OBSERVATIONS 0000 & 2100 GMT. ARE NOT ABAILABLE.

TIME: GMT.

2- $\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8}$ = DAILY MEAN

APRIL 1963 .

نيسان ١٩٦٣

TABLE 1-b .

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	23.4	21.6	22.3	22.8	22.7	20.1
2	18.9	22.9	21.5	21.3	22.4	23.0
3	20.5	20.1	19.5	19.9	20.1	22.5
4	24.6	20.9	21.3	21.5	20.9	20.2
5	24.2	22.4	24.3	23.3	24.6	23.5
6	24.8	24.9	26.2	25.6	25.3	25.8
7	24.4	23.0	24.8	24.4	24.8	25.7
8	21.9	24.6	26.7	24.9	26.8	27.5
9	25.0	21.9	24.0	25.3	24.6	24.6
10	22.5	22.1	24.0	23.2	24.9	25.5
11	16.6	21.9	20.9	20.8	22.6	23.0
12	18.5	19.2	18.8	19.6	20.3	20.8
13	21.9	19.8	19.8	20.0	20.4	21.5
14	25.5	21.6	22.7	22.1	22.8	22.5
15	25.0	23.5	23.6	23.5	26.0	25.7
16	25.4	23.0	23.8	24.2	24.7	23.9
17	25.6	24.1	25.8	25.9	27.6	26.6
18	22.5	23.0	22.0	21.7	24.9	26.8
19	25.6	22.4	22.1	22.6	23.6	24.0
20	26.6	23.5	25.8	25.1	25.6	28.2
21	28.5	25.0	25.5	25.8	26.8	28.1
22	27.7	24.7	24.5	24.6	26.8	28.9
23	28.9	25.1	26.9	25.4	26.8	28.2
24	24.5	25.5	25.8	24.7	26.8	28.0
25	23.3	25.2	23.4	23.5	23.1	26.4
26	26.8	24.5	24.4	23.2	25.4	25.8
27	28.1	25.6	26.9	26.6	27.6	26.6
28	27.9	27.1	26.3	27.0	28.3	27.9
29	22.8	25.3	23.4	22.9	25.8	27.1
30	23.9	23.9	23.7	24.1	25.3	26.4
MEANS	24.2	23.3	23.6	23.5	24.6	25.0
DEPARTURE FROM NORMAL	....	-0.8	....	-0.7	+0.8	+1.4

NOTES: AT NUKHAIB, OBSERVATIONS 0000, 0300, 1800 & 2100 GMT. ARE NOT AVAILABLE.

AT HAI , OBSERVATION 2100 GMT. IS NOT AVAIALBLE.

AT NAJAF, OBSERVATIONS 1500 & 2100 GMT. ARE NOT AVAILABLE

APRIL, 1963 .

نيسان ١٩٦٣

TABLE 2-a .

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	هبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1010.9	1019.6	1018.2	1015.9	1016.9	1016.9
2	15.7	15.6	14.1	15.3	13.4	13.7
3	10.6	11.9	12.2	11.2	11.2	11.9
4	10.8	11.0	10.9	08.2	09.2	10.7
5	07.6	08.1	08.9	08.8	03.4	09.2
6	10.6	11.0	10.8	10.4	09.0	09.3
7	11.4	12.8	12.7	09.5	10.2	10.5
8	10.0	10.8	10.1	07.4	07.2	07.8
9	07.1	07.8	07.9	06.3	05.5	06.8
10	09.1	09.2	09.0	08.2	05.1	06.4
11	03.2	04.8	05.8	07.7	06.1	05.7
12	12.1	12.9	14.1	13.1	13.0	13.1
13	16.0	15.6	15.7	15.1	14.8	15.1
14	11.2	11.7	11.5	09.9	08.7	10.5
15	07.2	07.7	06.2	06.4	03.7	03.1
16	04.2	05.3	04.6	04.3	04.2	04.3
17	00.5	03.0	02.4	02.5	01.3	02.0
18	09.5	10.5	10.4	10.7	09.8	09.5
19	14.1	14.2	13.8	09.4	11.9	12.5
20	10.2	10.8	09.6	06.3	06.4	06.1
21	10.7	11.3	10.4	10.0	09.5	09.5
22	10.6	10.7	10.5	08.4	09.1	09.6
23	06.4	07.0	05.5	04.1	04.7	05.3
24	07.7	07.5	07.4	07.6	06.2	05.8
25	10.2	10.5	10.7	11.1	09.6	10.1
26	12.2	12.4	12.4	10.9	10.8	11.2
27	09.1	09.5	09.0	06.4	08.0	08.6
28	07.1	07.1	05.1	04.9	03.2	03.2
29	07.5	07.6	06.5	06.8	06.3	06.2
30	09.4	09.4	09.3	07.3	08.0	07.9
MEANS	1009.7	1010.3	1009.8	1008.9	1008.5	1008.7
DEPARTURE FROM NORMAL	****	-2.1	-2.1	-3.4	-4.9	-3.9

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1019.6	1st.	0600	1963	999.8	17th	0900	1963	1963
MOSUL	1020.8	1st	2100	1963	999.6	17th	1200	1963	
KIRKUK	1019.2	1st	1800	1963	999.5	17th	1200	1963	
RUTBAH	1017.5	1st	0600	1963	999.3	16th	2100	1963	
HABBANIYA	1018.2	1st	0600	1963	998.0	17th	0600	1963	
BAGHDAD	1019.1	1st	0900	1963	999.4	26th	1200	1963	
MOSUL	1027.9	2nd	0300	1956	997.3	19th	1800	1958	RECORD
KIRKUK	1026.5	1st	2100	1956	997.2	29th	1500	1956	
RUTBAH	1023.7	1st	0600	1955	998.4	19th	1200	1956	
BAGHDAD	1026.6	26th	0900	1956	996.3	29th	1500	1956	

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TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر (بالملبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	نجف	حي	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	NAJAF	HAI	DIWANIYA	NASIRIYA	BASRAH
1	1016.1	1015.0	1015.6	1016.0	1015.5	1016.0
2	15.2	13.0	13.0	13.3	13.1	14.0
3	11.4	10.4	11.5	11.3	10.8	11.1
4	09.3	09.7	10.9	11.1	11.2	11.7
5	08.8	07.7	10.1	09.6	10.1	10.9
6	09.3	07.5	09.2	09.0	08.3	11.4
7	09.5	08.6	09.8	09.4	09.1	11.0
8	08.6	06.3	09.5	08.4	08.7	10.8
9	05.4	05.7	07.8	07.2	07.5	08.0
10	06.2	05.0	07.8	06.8	07.0	08.4
11	07.2	04.1	06.0	06.8	07.1	08.5
12	13.5	11.2	12.7	13.1	13.1	13.6
13	15.5	13.8	14.0	14.9	14.2	14.7
14	09.1	09.4	10.6	10.1	10.3	11.3
15	04.2	01.1	02.6	02.9	02.6	04.5
16	03.3	02.8	03.5	04.8	04.2	05.0
17	02.0	999.9	03.5	02.8	04.3	06.2
18	10.8	07.4	08.0	09.5	08.8	09.2
19	10.5	10.9	11.7	11.9	11.8	12.2
20	04.7	04.2	05.9	05.9	05.6	07.5
21	09.6	07.0	07.2	08.8	07.5	07.6
22	08.8	08.7	09.3	10.0	09.2	09.7
23	00.7	02.0	05.2	03.8	04.6	06.7
24	07.1	04.6	04.8	06.0	04.7	04.7
25	10.7	08.4	09.0	10.2	09.4	09.9
26	10.3	09.8	10.6	11.3	09.5	11.7
27	08.6	07.5	09.0	09.1	09.0	10.5
28	02.3	01.1	03.9	03.2	03.9	07.0
29	06.5	04.5	04.8	06.1	04.6	04.9
30	07.6	07.8	07.8	07.4	07.1	08.1
MEANS	1008.4	1007.2	1008.5	1008.7	1008.4	1009.8
DEPARTURE FROM NORMAL	....	.	-2.6		-2.4	-1.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1017.6	1st	0600	1963	999.0	25rd	1200	1963
NAJAF	1016.6	1st	0600	1963	999.0	17th	0900	1963
HAI	1016.9	1st	0600	1963	999.8	15th	1500	1963
DIWANIYA	1017.5	1st	0600	1963	1000.1	28th	1500	1963
NASIRIYA	1017.4	1st	0600	1963	999.9	17th	1200	1963
BASRAH	1017.5	1st	0600	1963	1001.8	15th	1500	1963
HAI	1024.8	1st	0900	1956	997.1	29th	1500	1956
DIWANIYA	1025.8	1st	2100	1956	997.6	29th	1200	1956
NASIRIYA	1025.9	1st	2100	1956	998.5	29th	1500	1958
BASRAH	1024.7	1st	1800	1956	999.5	13th	1200	1962

TABLE -3 . المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

الايام DATE	سنجار SINJAR	موصل MOSUL	كركوك KIRKUK	رطبة RUTBAH	حبانية HABBANIYA	بغداد BAGHDAD	حي HAI	نجف NAJAF	ديوانية DIWANIYA	ناصرية NASIRIYA	بصرة BASRAH	نخيب NUKHAIB
1	60	79	61	40	50	46	50	43	42	41	56	25
2	48	71	50	58	44	35	46	43	49	42	66	61
3	38	75	60	56	66	67	59	72	73	76	74	54
4	64	72	57	42	56	59	66	57	66	61	68	43
5	60	74	50	41	54	49	63	42	52	53	60	36
6	46	66	44	29	43	46	52	41	43	45	62	29
7	41	72	50	32	44	48	60	46	53	60	67	39
8	68	68	66	39	59	49	58	48	59	65	74	48
9	88	94	66	65	64	60	60	55	59	61	78	45
10	87	88	82	84	80	77	72	69	75	76	80	57
11	94	94	88	76	77	79	76	68	72	65	86	72
12	88	81	85	56	71	70	68	51	61	58	73	43
13	79	78	68	54	63	65	62	49	57	53	73	28
14	64	77	64	45	59	55	55	34	50	48	72	28
15	65	75	63	44	53	43	49	39	45	44	68	31
16	58	76	53	41	53	44	52	39	43	39	49	39
17	57	64	43	38	39	36	47	30	35	34	41	31
18	56	68	49	36	40	35	54	34	46	44	59	30
19	49	69	43	29	45	33	39	35	36	38	48	40
20	50	72	47	32	42	39	45	34	40	37	55	24
21	40	64	49	42	49	38	42	39	41	36	63	39
22	38	63	44	44	44	42	44	37	45	43	69	37
23	74	85	55	62	58	46	51	33	47	46	50	32
24	72	76	74	57	59	57	54	37	52	47	57	37
25	64	85	66	56	54	51	42	44	48	48	62	45
26	67	78	61	37	51	42	46	47	46	44	57	32
27	56	68	42	36	40	33	47	37	38	45	49	43
28	76	89	66	64	40	39	46	37	38	35	52	26
29	77	77	57	50	50	48	51	47	48	48	60	33
30	71	71	60	52	54	41	44	43	39	41	54	38
MEAN	62	76	59	49	54	49	54	44	49	47	60	38
NORMAL	..	65	52	43	46	46	..	..	47	44	59	32

STATIONS	HIGHEST	DAY	TIME	LOWEST	DAY	TIME
SINJAR	98	25th	0300GMT	32	21st	1200 GMT.
MOSUL	98	9th	0300	39	6&22	1200
KIRKUK	100	24th	0300	24	27th	1200
RUTBAH	97	22nd	2100	10	16th	1500
HABBANIYA	99	10th	1800	18	27th	1200
BAGHDAD	97	10th	1800	18	20th	1500
NUKHAIB	86	2nd	1200	14	19th	1200
HAI	94	11th	0000	22	19th	1200
NAJAF	93	11th	0300	15	17th	09&1200
DIWANIYA	96	4th.	0300	18	27th	1200
NASIRIYA	90	4th	0300	13	15th	0900
BASRAH	100	4th	0300	19	20th	1200

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TABLE 4-a .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (CENTIGRADE)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.6	9.3	23.9	8.2	24.4	11.7	26.7	18.3	24.5	10.2
2	24.5	10.2	25.8	9.4	27.4	12.1	30.6	19.0	19.1	10.3
3	23.5	15.2	22.3	9.5	20.5	15.4	21.1	16.7	23.4	12.6
4	20.4	10.8	24.4	11.4	25.3	12.7	26.1	14.4	28.7	12.4
5	20.6	9.8	24.3	15.3	25.4	17.4	28.9	17.2	24.5	11.0
6	22.5	10.3	26.4	9.6	29.0	13.5	30.6	13.3	25.5	10.8
7	22.0	10.8	25.1	9.6	25.1	12.4	27.2	15.0	23.5	13.8
8	19.5	11.2	18.6	12.4	21.5	15.1	23.3	17.2	26.2	15.8
9	19.3	11.8	21.6	15.0	24.4	16.5	30.0	17.8	24.0	13.0
10	19.6	10.8	23.5	12.4	25.0	15.6	28.3	13.3	15.4	11.1
11	14.5	11.2	17.4	13.7	19.1	14.0	18.3	14.4	18.1	10.8
12	16.6	9.8	20.0	12.6	17.5	11.4	21.7	12.2	20.0	8.5
13	18.0	9.3	21.2	11.6	22.0	10.5	23.3	11.7	24.8	8.5
14	20.5	10.8	23.2	12.0	23.3	12.2	25.6	10.6	27.2	13.0
15	19.6	11.7	22.2	12.4	24.5	13.6	30.0	12.2	24.3	11.6
16	20.8	13.0	23.4	9.8	24.1	10.6	26.1	12.8	27.3	11.2
17	19.8	13.2	23.3	14.2	24.9	17.4	31.1	17.2	23.0	12.2
18	19.3	8.6	22.2	11.2	22.9	12.2	26.7	15.6	23.0	9.5
19	19.8	11.6	22.4	9.8	24.1	11.3	25.6	11.1	31.0	10.5
20	20.1	13.6	22.6	14.4	25.5	16.0	28.3	16.1	30.0	15.3
21	23.4	14.3	26.0	11.2	27.1	12.5	29.4	15.0	29.8	12.3
22	25.6	14.8	28.8	11.8	28.7	14.8	30.6	12.2	30.0	18.5
23	19.2	15.1	21.6	15.8	28.0	18.6	30.6	18.3	24.0	16.5
24	19.6	9.3	24.6	12.2	25.5	13.6	27.2	18.3	23.4	11.8
25	18.6	10.8	22.0	9.4	23.8	14.2	26.7	16.1	23.5	12.9
26	21.3	11.6	25.2	12.4	26.0	13.7	27.2	15.0	27.4	11.2
27	23.0	13.8	28.1	14.0	29.8	16.3	32.2	15.0	29.8	12.6
28	16.2	10.8	20.8	13.6	25.5	15.5	34.4	23.3	21.8	13.3
29	16.7	10.3	21.8	9.6	24.3	11.4	28.0	13.9	22.4	11.4
30	17.6	10.3	23.2	10.8	25.5	12.3	27.8	14.4	22.5	10.2
MEANS	20.2	11.5	23.2	11.9	24.7	13.8	27.4	14.9	24.6	12.1
DEPARTURE FROM NORMAL	....	....	-2.2	+2.1	-1.0	+1.2	0.0	+1.3	-1.3	+2.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	29.8	8th	1962	7.2	29th	1962
MOSUL	40.0	?	1928	-1.6	1st	1956
KIRKUK	39.6	28th	1958	1.1	18th	1947
KHANAQIN	39.0	27th	1958	0.5	1st	1956
RUTBAH	39.0	23rd	1959	-2.0	1st	1956

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TABLE 4-b .

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درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		حي		نخيب	
	HABBANIYA		BAGHDAD		HAI		WUKHAIB	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	28.8	12.2	28.2	11.9	29.0	13.0	25.6	9.9
2	28.8	13.4	28.4	12.4	29.6	14.4	22.0	14.1
3	25.0	16.7	22.8	13.1	25.3	14.3	22.6	11.2
4	30.2	13.4	27.8	11.5	27.2	14.3	29.1	10.6
5	28.6	18.4	28.3	18.4	28.6	14.9	26.3	13.7
6	31.1	15.0	30.0	17.7	32.2	17.8	28.5	12.6
7	29.4	16.1	28.9	17.0	26.8	18.0	28.1	13.0
8	26.7	18.9	31.2	19.5	30.2	20.0	25.5	12.1
9	29.8	18.1	29.2	19.7	25.4	17.2	28.6	12.7
10	30.9	17.3	29.4	18.8	29.6	18.2	26.5	12.8
11	21.4	15.4	22.0	9.6	26.1	18.6	18.5	12.4
12	23.3	14.3	23.2	13.6	24.7	13.6	20.6	9.0
13	25.4	14.1	25.3	12.0	25.4	12.2	25.3	4.6
14	28.4	15.6	26.8	12.7	27.8	14.0	28.5	14.3
15	29.5	14.5	31.1	17.0	31.3	14.2	28.5	13.3
16	28.5	14.0	31.1	13.6	29.6	16.2	29.0	11.6
17	29.0	19.0	30.4	20.0	28.6	18.7	28.5	12.6
18	26.7	14.5	27.2	15.5	28.6	16.2	25.6	11.5
19	28.9	12.1	27.5	13.7	29.2	14.2	30.0	12.1
20	30.3	18.4	30.3	18.1	31.2	14.2	30.8	12.1
21	32.0	15.7	31.5	16.1	33.0	16.4	32.6	13.8
22	30.6	16.0	29.9	16.0	31.6	17.2	31.0	13.9
23	33.4	20.4	31.2	21.2	30.0	20.7	32.5	13.7
24	29.0	14.5	28.8	17.0	32.2	19.6	27.5	12.8
25	28.0	15.4	27.8	15.7	31.6	18.4	26.5	13.6
26	31.2	15.1	30.0	16.5	31.2	15.2	30.8	13.7
27	32.4	18.2	33.2	18.5	33.6	16.4	32.4	13.0
28	32.7	22.6	34.3	20.6	35.2	18.2	30.8	13.6
29	28.0	15.2	27.5	14.3	29.8	20.2	25.6	13.1
30	26.7	14.4	27.8	16.8	31.4	15.6	27.3	12.6
MEANS	28.8	16.0	28.7	16.0	29.5	16.4	27.5	12.3
DEPARTURE FROM NORMAL	-0.6	+1.1	-0.3	+1.4	-0.5	+0.9	....	....

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	41.1	30th	1944	2.2	1&2nd	1956
BAGHDAD	41.7	28th	1958	1.2	1st	1956
HAI	40.3	23rd	1959	1.9	1st	1956

TABLE 4-8. 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	28.5	13.4	30.1	15.0	29.8	11.2	28.5	13.2
2	27.0	15.0	28.4	14.5	29.5	15.0	29.0	16.6
3	24.0	16.0	26.2	14.6	24.6	16.0	29.1	17.9
4	29.5	13.6	29.0	13.6	26.4	14.7	24.5	15.6
5	29.6	16.8	31.0	16.8	34.4	15.9	30.3	16.7
6	33.6	18.6	33.0	18.0	31.7	19.7	33.0	19.4
7	31.0	17.8	30.8	17.8	31.6	17.9	31.5	19.4
8	33.6	21.0	31.1	20.5	32.2	23.0	36.0	22.8
9	28.2	20.2	29.6	19.1	29.8	20.6	29.2	22.7
10	31.0	18.0	30.2	19.2	29.4	20.0	32.0	20.8
11	25.5	16.6	26.3	17.7	28.5	19.2	28.7	20.4
12	24.5	13.1	26.5	11.6	26.4	13.2	25.4	16.4
13	26.2	12.0	26.5	13.1	27.0	12.8	29.5	16.4
14	31.4	14.1	31.1	13.1	29.8	13.6	27.4	16.0
15	31.7	16.2	31.5	15.2	24.6	17.3	34.4	17.6
16	30.6	16.5	30.6	16.6	31.5	17.3	30.5	18.0
17	34.1	20.3	35.6	19.0	37.0	21.2	31.8	19.8
18	27.8	15.4	27.5	15.3	32.6	18.7	32.4	24.0
19	29.0	14.5	30.0	15.0	29.9	16.7	28.8	18.4
20	35.2	16.5	34.4	15.3	35.0	17.2	37.8	18.8
21	33.2	19.3	33.4	17.6	34.0	19.6	33.1	25.1
22	29.6	17.6	31.8	16.6	34.4	18.4	32.8	19.0
23	32.6	21.4	31.4	21.3	34.4	22.2	38.0	21.8
24	30.4	16.9	31.0	20.1	34.0	20.0	38.0	22.0
25	29.5	18.6	29.7	17.5	32.5	18.1	30.7	20.7
26	32.2	16.2	31.3	15.0	32.2	17.6	35.0	21.0
27	36.2	17.6	35.6	16.1	36.7	18.0	35.0	18.5
28	36.4	20.0	37.5	20.5	38.3	21.5	38.9	21.1
29	29.5	16.9	28.6	18.5	31.0	23.1	35.2	22.6
30	31.0	15.2	31.4	14.1	32.6	16.6	33.6	20.0
MEANS	30.4	16.8	30.7	16.6	31.4	17.9	32.0	19.4
DEPARTURE FROM NORMAL	....	....	+0.4	+2.3	+1.7	+2.1	+1.5	+1.6

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	42.0	10th	1958	1.6	2nd	1946
NASIRIYA	42.8	28th	1942	3.6	2nd	1956
BASRAH	43.8	25th	1954	2.8	4th	1944

APRIL 1963. TABLE-5

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

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المعدل الشهري لحرارة البصلة الجافة (سنتغراد)

T I M E - G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	14.0	15.9	17.8	19.3	18.8	16.3	....	17.0
MOSUL	14.1	13.3	17.0	21.3	22.3	20.9	16.8	15.2	17.6
KIRKUK	15.7	15.1	19.5	22.7	23.4	21.5	18.1	16.8	19.1
KHANAQIN	....	16.1	22.2	25.9	26.2	23.8	20.6	....	22.3
RUTBAH	13.9	12.6	15.7	21.7	23.8	23.0	18.6	15.9	18.3
HABBANIYA	17.7	16.6	21.3	25.9	27.7	25.4	21.0	19.3	21.9
BAGHDAD	18.7	17.1	22.3	26.2	27.7	26.0	22.4	20.9	22.7
NUKHAIB	....	....	20.3	24.4	26.3	25.7	....	....	23.9
HAI	16.3	17.6	23.1	27.7	28.9	26.0	21.7	....	23.3
NAJAF	19.8	17.8	22.6	28.3	29.5	....	23.8	....	23.7
DIWANIYA	18.2	17.3	23.5	29.0	29.9	27.2	22.8	20.4	23.5
NASIRIYA	19.7	18.5	24.7	29.9	30.0	27.8	24.1	21.8	24.6
BASRAH	21.2	20.2	25.3	30.3	30.5	27.0	24.3	22.6	25.2

TABLE -6. المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE(mbs.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	11.0	11.6	12.0	12.1	11.5	11.2	....	11.6
MOSUL	14.1	13.7	15.2	15.8	15.2	15.2	15.3	14.5	14.9
KIRKUK	12.0	12.0	13.0	12.4	11.9	12.5	12.9	12.1	12.4
KHANAQIN	....	11.9	12.4	11.8	11.9	11.8	12.1	....	11.9
RUTBAH	10.2	10.4	10.3	8.9	8.0	7.7	9.3	10.3	9.4
HABBANIYA	13.4	13.6	14.2	13.2	12.4	12.6	14.0	13.9	13.4
BAGHDAD	12.9	13.8	13.3	18.2	11.8	12.4	12.8	12.7	12.8
NUKHAIB	....	....	10.9	10.2	9.8	9.1	....	....	10.0
HAI	14.9	14.6	16.1	14.7	14.1	14.4	15.4	....	14.9
NAJAF	13.0	12.6	12.3	11.9	11.1	....	12.4	....	12.2
DIWANIYA	14.4	13.9	14.5	13.6	13.3	13.1	13.3	13.6	13.7
NASIRIYA	13.9	13.6	13.7	12.3	12.0	13.3	14.5	14.7	13.5
BASRAH	17.6	18.1	19.0	17.9	18.1	18.4	18.8	18.7	18.3

TABLE -7. الحرارة للعملة الرطبة (سنتغراد) المعدل الشهري لدرجات

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	10.9	12.3	13.4	14.2	13.4	12.1	....	12.7
MOSUL	12.9	12.4	14.8	16.9	17.0	16.5	14.8	13.9	14.9
KIRKUK	12.5	12.3	14.7	15.7	15.8	15.3	14.1	13.0	14.2
KHANAQIN	....	12.6	15.5	16.7	16.8	15.8	14.8	....	15.4
RUTBAH	10.6	10.1	12.0	13.4	13.8	13.3	12.3	11.6	12.1
HABBANIYA	14.3	13.8	16.1	17.4	17.7	16.3	12.5	14.9	15.4
BAGHDAD	14.4	13.9	16.4	17.5	17.5	16.9	15.8	11.5	15.5
NUKHAIB	....	....	13.9	15.4	15.9	15.3	....	....	15.1
HAI	15.2	14.7	17.8	18.9	19.3	18.5	16.9	....	17.3
NAJAF	14.9	13.7	15.6	17.7	17.8	....	16.2	....	16.0
DIWANIYA	14.4	13.9	17.5	18.7	18.9	18.0	16.2	15.4	16.9
NASIRIYA	15.2	14.6	17.2	18.5	18.6	18.2	17.4	16.6	17.0
BASRAH	17.7	17.5	19.9	20.9	21.3	20.2	19.4	18.8	19.5

TABLE -8. MONTHLY MEAN DEW-POINT (C°) المعدل الشهري لدرجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.0	8.9	9.4	9.5	8.8	8.4	....	8.8
MOSUL	12.1	11.6	13.1	13.7	13.1	13.1	13.3	12.1	12.4
KIRKUK	9.3	9.4	10.5	9.8	9.2	10.0	10.5	9.5	9.8
KHANAQIN	....	9.6	9.9	9.2	9.2	9.1	9.6	....	9.4
RUTBAH	6.9	7.1	7.2	4.7	2.6	2.9	5.4	6.9	5.3
HABBANIYA	11.4	11.4	11.9	10.7	9.2	9.9	11.7	11.3	10.9
BAGHDAD	10.5	11.1	11.7	10.5	9.0	9.3	10.2	10.2	10.3
NUKHAIB	....	....	8.0	7.0	6.4	5.3	....	....	6.7
HAI	12.7	12.4	13.9	12.4	11.7	12.1	14.0	....	12.7
NAJAF	11.0	9.3	9.7	9.1	8.1	....	9.8	....	9.6
DIWANIYA	11.4	11.2	12.2	11.4	10.8	10.6	10.7	11.3	11.2
NASIRIYA	11.5	11.2	11.1	9.3	8.9	10.7	12.7	12.6	11.0
BASRAH	15.3	15.7	16.3	15.1	15.3	15.8	16.3	16.3	15.8

APRIL 1963. TABLE -9.

MONTHLY MEAN RELATIVE HUMIDITY (%)

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المعدل الشهري للرطوبة النسبية (٪)

T I M E = G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	70	66	60	56	56	63	...	62
MOSUL	89	89	78	63	58	63	81	84	76
KIRKUK	69	71	60	47	44	54	64	65	59
KHANAQIN	...	67	48	38	37	43	52	...	47
RUTBAH	66	70	55	35	29	30	46	58	49
HABBANIYA	69	73	56	41	33	41	57	61	54
BAGHDAD	61	70	53	39	33	36	49	58	49
NUKHAIB	...	46	34	31	29	...	...	...	35
HAI	70	72	58	41	36	44	60	...	54
NAJAF	57	62	45	32	28	...	43	...	45
DIWANIYA	66	69	51	39	32	37	58	58	49
NASIRIYA	61	64	45	31	29	36	51	57	47
BASRAH	71	76	60	45	43	52	63	70	60

TABLE 10. MONTHLY MEAN PRESSURE (mbs.) AT M.S.L.

المعدل الشهري للضغط الجوي على مستوى البحر (ملليبارات)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	10.0	10.3	10.2	09.8	08.8	09.7	...	1009.8
MOSUL	10.4	10.8	11.0	10.5	09.3	08.9	10.4	10.4	1010.2
KIRKUK	10.0	10.3	10.7	09.9	08.7	08.8	10.1	10.1	1009.8
KHANAQIN	...	10.5	10.0	08.5	07.5	08.0	09.3	...	1009.0
RUTBAH	08.7	09.2	09.8	09.4	08.5	08.0	08.5	08.7	1008.8
HABBANIYA	08.2	08.7	09.6	09.2	07.7	07.5	08.6	08.5	1008.5
BAGHDAD	08.3	09.0	09.3	09.4	08.0	08.1	08.9	08.8	1008.7
NUKHAIB	...	09.9	09.1	07.7	07.1	...	...	...	1008.4
HAI	08.1	08.7	09.8	09.3	08.2	07.4	08.5	...	1008.6
NAJAF	06.7	07.3	08.1	07.5	06.1	...	06.9	...	1007.1
DIWANIYA	08.3	09.1	09.9	09.2	07.9	07.7	08.6	08.7	1008.7
NASIRIYA	08.1	08.9	10.0	09.1	07.4	07.2	08.4	08.2	1008.4
BASRAH	09.1	09.5	10.9	10.5	08.9	08.8	09.4	09.5	1009.6

TABLE 11. MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

المعدل الشهري لكمية الغيوم الواطئة (الأعشار)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	2.1	2.1	3.2	3.7	3.7	2.2	...	2.8
MOSUL	3.7	3.7	3.1	4.0	4.9	3.3	2.3	3.1	3.5
KIRKUK	3.3	3.5	2.5	2.5	3.1	2.8	2.1	2.5	2.8
KHANAQIN	...	3.9	3.3	3.3	4.6	3.8	2.6	...	3.6
RUTBAH	1.5	1.5	1.3	2.5	3.2	2.8	1.9	1.8	2.1
HABBANIYA	0.9	1.2	1.2	1.0	1.8	1.6	0.9	0.8	1.2
BAGHDAD	1.0	1.4	0.9	1.3	2.0	1.4	0.7	1.3	1.3
NUKHAIB	...	...	1.2	1.5	2.0	1.2	...	...	1.5
HAI	0.5	0.5	0.7	1.1	1.4	1.0	0.6	...	0.8
NAJAF	1.3	1.8	0.9	1.3	1.9	...	1.3	...	1.4
DIWANIYA	0.9	0.8	0.8	1.1	1.7	1.4	0.9	1.0	1.1
NASIRIYA	1.2	1.3	1.3	1.9	2.4	2.2	1.1	1.4	1.6
BASRAH	1.2	1.1	0.7	1.2	1.4	1.3	1.2	1.0	1.1

TABLE 12. MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

المعدل الشهري لكمية الغيوم (الأعشار)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	4.7	4.8	5.2	6.2	5.5	3.3	...	5.0
MOSUL	4.8	5.4	5.2	6.2	6.6	5.9	3.7	4.1	5.3
KIRKUK	4.2	5.0	4.4	4.8	5.0	4.5	3.2	3.4	4.3
KHANAQIN	...	4.9	5.1	5.0	5.7	6.7	3.3	...	4.9
RUTBAH	3.5	4.2	4.2	4.3	4.8	4.8	3.7	3.7	4.3
HABBANIYA	3.3	4.3	4.9	4.7	4.8	4.7	3.7	3.3	4.2
BAGHDAD	2.9	4.4	5.3	4.7	5.4	4.6	3.1	2.9	4.2
NUKHAIB	...	...	4.3	4.8	4.6	4.3	...	...	4.5
HAI	2.6	4.1	4.9	5.1	5.7	5.4	3.2	...	4.4
NAJAF	3.5	4.4	4.3	4.6	5.2	...	3.3	...	4.2
DIWANIYA	2.4	3.4	4.0	4.3	4.8	4.4	2.6	2.9	3.6
NASIRIYA	2.0	3.0	3.4	4.3	5.1	4.3	2.4	2.8	3.4
BASRAH	2.8	3.3	3.4	3.6	4.2	4.2	3.2	3.1	3.5

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TABLE 13-a — عدد تقارير 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 بالعقد 1-10	11-21	22-33	≥34	معدل السرعة MEAN V.K.
سنجار SINJAR	0300	13	2	6	0	1	0	4	1	3	24	3	0	0	6
	0600	4	1	13	0	3	0	6	0	3	25	2	0	0	8
	0900	3	0	7	0	14	0	4	0	2	22	6	0	0	8
	1200	1	0	4	0	11	1	5	1	7	14	9	0	0	7
	1500	4	0	5	0	11	0	9	0	4	23	5	1	0	9
	1800	11	2	5	0	1	0	9	0	2	21	6	1	0	7
	TOTAL	36	5	40	0	41	1	37	2	18	129	31	2	0	8
مرصل MOSUL	0000	3	1	2	2	5	0	4	1	10	15	5	0	0	6
	0300	4	0	3	2	4	0	5	1	9	17	4	0	0	6
	0600	6	0	3	5	6	2	4	0	3	17	3	0	0	6
	0900	3	1	3	5	9	1	4	0	4	16	9	1	0	9
	1200	3	1	9	2	5	2	4	1	2	19	9	0	0	8
	1500	7	1	2	5	6	3	4	1	2	23	5	0	0	8
	1800	2	1	3	3	4	2	6	1	6	18	6	0	0	8
	2100	3	1	2	0	8	1	1	5	9	17	4	0	0	6
	TOTAL	31	6	27	24	49	11	28	15	45	142	52	1	0	7
كركوك KIRKUK	0000	0	7	5	2	2	0	2	1	11	12	6	1	0	6
	0300	1	7	5	4	1	0	1	0	11	16	3	0	0	5
	0600	0	4	5	5	3	0	0	0	13	14	4	1	0	5
	0900	0	2	4	4	7	2	3	0	8	17	4	1	0	6
	1200	1	3	2	1	8	1	7	2	4	20	1	1	0	7
	1500	2	2	2	1	4	2	5	1	11	18	1	0	0	4
	1800	0	4	6	0	0	0	0	0	20	9	1	0	0	2
	2100	0	9	5	3	0	0	1	0	12	14	5	0	0	4
	TOTAL	4	38	33	22	25	5	19	4	90	120	26	4	0	5
خانقين KHANAQIN	0300	0	0	14	1	8	0	1	0	6	23	1	0	0	4
	0600	0	0	6	1	10	0	1	1	11	18	1	0	0	4
	0900	1	0	4	0	11	0	8	3	3	23	1	1	0	5
	1200	1	0	3	0	11	0	8	3	2	22	2	2	2	9
	1500	1	0	3	0	6	0	13	1	6	21	2	1	0	6
	1800	1	0	4	0	6	0	4	2	13	16	0	1	0	4
	TOTAL	4	0	34	2	52	0	35	12	44	123	7	5	4	6
رطبة RUTBAH	0000	0	1	4	0	4	3	7	3	8	17	5	0	0	6
	0300	1	1	2	0	5	5	6	1	8	17	5	0	0	6
	0600	0	0	3	2	3	4	3	3	6	19	5	0	0	6
	0900	2	0	2	2	5	3	7	3	4	20	6	0	0	7
	1200	2	0	4	2	2	4	6	4	8	17	12	1	0	11
	1500	1	1	2	2	4	6	0	2	2	21	6	1	0	7
	1800	2	1	3	2	3	2	5	3	9	15	5	1	0	6
	2100	3	1	3	1	3	1	8	2	8	16	5	1	0	7
	TOTAL	11	5	23	15	29	29	62	21	45	142	49	4	0	6

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TABLE 13-b .

عدد تكرار رصدات البلع السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه									SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد
		N	NE	E	SE	S	SW	W	NW	CA-IM	1-10	11-21	22-33	34<	MEAN V.K.
حبانية HABBANIYA	0000	1	2	4	1	4	1	4	6	7	18	4	1	0	6
	0300	1	2	4	0	4	1	9	2	7	20	3	0	0	5
	0600	1	4	3	4	3	0	4	8	3	20	6	1	0	8
	0900	0	4	2	3	5	2	7	4	3	19	8	0	0	7
	1200	3	3	1	1	3	3	8	5	3	20	4	3	0	8
	1500	3	3	2	2	3	4	5	6	2	22	5	1	0	8
	1800	5	4	7	0	0	1	3	1	9	15	6	1	0	5
	2100	3	2	9	2	1	0	2	4	7	18	5	0	0	6
	TOTAL	17	24	32	13	23	12	42	36	41	152	41	6	0	7
بغداد BAGHDAD	0000	3	3	1	6	1	1	2	2	11	14	5	0	0	6
	0300	1	2	3	5	0	2	2	3	12	12	6	0	0	6
	0600	3	0	2	9	2	1	3	4	6	19	4	1	0	7
	0900	1	0	1	7	5	3	2	7	4	16	10	0	0	7
	1200	1	1	2	2	3	3	8	7	3	18	8	0	0	8
	1500	3	3	1	5	0	1	6	5	5	20	5	0	0	6
	1800	4	3	3	2	0	2	0	2	14	12	4	0	0	4
	2100	3	2	3	6	1	0	2	2	11	14	5	0	0	4
	TOTAL	19	14	16	43	12	13	25	32	66	126	47	1	0	6
نخيب NUKHAIB	0600	2	2	3	1	0	1	13	4	4	17	7	2	0	9
	0900	2	0	2	4	1	12	3	2	4	20	5	2	1	8
	1200	2	0	0	4	3	0	14	4	3	16	7	4	0	10
	1500	0	1	2	1	3	0	14	5	4	13	13	0	0	9
	TOTAL	6	3	7	10	10	2	53	16	13	66	32	8	1	9
حي HAI	0000	1	0	7	0	0	0	3	6	13	8	9	0	0	6
	0300	2	3	9	0	0	0	3	5	8	16	6	0	0	7
	0600	2	4	11	0	0	0	6	4	3	17	9	1	0	9
	0900	5	2	10	0	0	0	2	7	4	15	10	1	0	9
	1200	0	0	10	1	1	0	4	8	6	11	11	2	0	9
	1500	0	0	12	0	0	0	3	8	7	16	6	1	0	7
	1800	1	0	9	1	0	0	3	5	11	12	6	1	0	7
	TOTAL	11	9	68	2	1	0	24	43	52	95	57	6	0	8
نجف NAJAF	0000	5	1	0	0	8	0	0	3	13	14	3	0	0	4
	0300	5	2	2	1	7	0	1	3	9	19	2	0	0	5
	0600	6	5	0	1	6	1	5	1	5	21	4	0	0	7
	0900	9	3	0	1	9	1	2	2	3	15	12	0	0	9
	1200	9	3	0	1	6	0	3	7	1	17	10	2	0	10
	1800	8	2	0	2	5	0	3	3	7	16	6	1	0	8
	TOTAL	42	16	2	6	41	2	14	19	38	102	37	3	0	7

TABLE 13-c ٠ عدد تكرار رصدات الرياح السطحية

SURFACE-WIND. NUMBER OF OBSERVATIONS OF :

STATIONS المحطة	TIME GMT. وقت كرينتش	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V.K.
DIWANIYA ديوانية	0000	2	5	3	3	5	4	7	1	0	27	3	0	0	6
	0300	1	5	4	3	3	4	7	2	1	25	4	0	0	6
	0600	2	1	4	1	5	1	9	3	4	17	9	0	0	8
	0900	6	2	4	3	1	3	10	1	0	17	13	0	0	9
	1200	8	0	5	1	1	1	13	0	1	18	9	2	0	9
	1500	6	2	7	1	0	3	7	3	1	21	7	1	0	8
	1800	8	6	5	6	0	2	2	1	0	26	5	1	0	7
	2100	7	4	9	2	3	2	1	0	2	23	5	0	0	7
	TOTAL	40	25	41	20	18	20	56	11	9	174	53	4	0	8
NASIRIYA ناصرية	0000	1	1	1	8	3	0	6	6	4	21	5	0	0	6
	0300	3	1	0	5	5	2	6	3	5	24	1	0	0	5
	0600	6	2	1	8	4	2	3	3	1	25	4	0	0	8
	0900	3	1	2	6	5	1	4	8	0	20	10	0	0	9
	1200	2	2	5	5	1	0	6	7	2	18	10	0	0	10
	1500	4	5	6	8	0	0	2	5	0	23	7	0	0	8
	1800	3	4	7	8	2	1	1	3	1	25	4	0	0	7
	2100	4	2	1	14	0	1	3	3	2	24	4	0	0	6
	TOTAL	26	18	23	62	20	7	31	38	15	180	45	0	0	7
BASRAH بصرة	0000	3	5	3	5	6	2	3	3	0	26	4	0	0	6
	0300	2	3	3	2	9	1	6	1	3	24	2	1	0	5
	0600	4	3	1	3	6	3	3	6	1	25	4	0	0	6
	0900	7	1	2	5	7	0	2	5	1	19	10	0	0	9
	1200	6	2	1	6	5	0	0	8	2	15	12	1	0	9
	1500	6	2	2	6	4	0	1	9	0	23	7	0	0	8
	1800	5	4	4	6	6	0	0	3	2	23	4	1	0	6
	2100	4	3	4	4	6	1	4	1	3	24	2	1	0	6
	TOTAL	37	23	20	37	49	7	19	36	12	179	45	4	0	7

TABLE 14. اعلى سرعة رياح (بالعقد) حدثت خلال ساعة

HIGHEST WIND-SPEED DURING ONE HOUR

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
BINJAR	25	340	1500	23rd
MOSUL	22	180	0900	5th
KIRKUK	25	320	1200	28th
KHANAQIN	45	180	1200	17th
RUTBAH	25	110	2100	19th
HABBANIYA	30	130	0600	17th
BAGHDAD	25	150	0600	17th
NUKHAIB	32	290	0900	15th
HAI	28	090	0900	17th
NAJAF	30	160	1800	23rd
DIWANIYA	28	270	1200	29th
NASIRIYA	24	120	1200	6th
BASRAH	28	160	1200	17th

APRIL 1963 .

TABLE 15-a .

نيسان ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1							
2					tr.	1.0	2.5
3		2.2	tr.	1.7	1.0	0.3	
4	tr.	5.8	tr.		tr.		
5	8.3						
6							
7		2.7	6.2		tr.	tr.	
8	tr.	10.7	5.9	3.0	tr.	3.0	
9	34.5	7.8	5.5		2.6	tr.	tr.
10		31.5	40.2	0.3	12.7	26.6	29.0
11	76.7	17.3	9.0	43.6	0.6	22.8	2.0
12	4.6	1.2	8.0	14.0		0.5	5.3
13							
14		3.1	0.8				
15	0.4	0.6		0.3		tr.	tr.
16		0.6	tr.				
17		0.5	tr.			tr.	
18							
19		tr.	tr.				
20	tr.	tr.	tr				
21							
22		0.8			1.4	tr.	0.8
23	25.1	19.8	4.9	2.5	tr.	6.6	1.2
24		2.3	0.3	0.6	tr.	tr.	
25	2.7	0.3		0.6			
26							
27		13.2	1.3		tr.		
28	19.6	2.2	tr.	6.4			0.2
29	2.6	0.1	6.1		1.5		
30		1.8	3.3		tr.	tr.	tr.
TOTAL	174.5	124.5	91.5	73.0	19.8	60.8	44.0
NORMAL	50.0	49.9	48.0	41.6	18.6	17.0	16.9

STATIONS:	HIGHEST AMOUNT OF RAIN DURING A DAY	DATE	YEAR
SINJAR	76.7 mms.	11th	1963
MOSUL	74.8	11th	1931
KIRKUK	40.9	6th	1939
KHANAQIN	52.0	9th	1953
RUTBAH	43.7	10th	1946
HABBANIYA	30.0	7th	1955
BAGHDAD	29.0	10th	1963

APRIL 1963 .

TABLE 15-b .

نيسان ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						
2	1.7	3.2	tr.	3.6	12.1	
3		6.1	tr.	1.5	2.0	0.4
4	tr.					17.7
5						
6						tr.
7				tr.		
8	1.6		tr.			
9		0.3	tr.	tr.	0.7	tr.
10	4.8	88.2	3.7	33.1	33.6	
11	1.0	3.1	tr.			1.5
12						
13						
14					tr.	
15						tr.
16						
17						tr.
18						
19						
20					tr.	tr.
21						
22	tr.	tr.	tr.	0.9	tr.	
23		0.8	tr.	0.7	0.7	0.8
24	tr.			tr.		1.3
25						
26						
27						
28		tr.		1.2	tr.	4.3
29						
30			tr.	14.1	0.7	tr.
TOTAL	9.1	101.7	3.7	55.1	49.8	26.0
NORMAL	...	13.9	...	20.6	21.1	21.8

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DATE	YEAR
HAI	25.0	22nd	1946
DIWANIYA	48.0	16th	1956
NASIRIYA	33.6	10th	1963
BASRAH	87.5	9th	1941

APRIL 1963.

نيسان ١٩٦٣

TABLE 15-c.

الهطول اليومي (ملليمترات)

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

الايام DAYS	راوندوز RAWANDUZ	عقرة AQRA	طوز TUZ	بكرجو BAKRAJO	افتخار IFTIKHAR	حلبجة HELABJA	حويجة HAWIJA	تلعفر TELA-FAR
1	3.7							
2								
3						4.5		5.0
4		6.0						
5		2.3				6.0		7.0
6						2.0		
7	22.5	2.6		18.0		15.0	7.0	
8	38.7	35.8		16.0		9.0	3.0	
9	10.5	13.4		10.0	4.6	1.0		14.5
10	31.7	32.0	11.9	26.0	55.9	12.0	29.8	
11	14.8	64.8	16.5	32.0	12.7	29.0	7.2	61.0
12	8.5	7.6	55.9	7.0		13.0		27.0
13								
14	8.4							
15	7.3	0.7				4.0		
16	5.5	1.9						
17	6.0	6.4						
18								
19						1.0		
20								
21								
22		0.5						
23		33.1		16.0		64.0	30.0	14.5
24	52.3	4.3	20.3	1.0			1.2	1.5
25	15.7	1.1		13.0				
26		0.2	10.2			6.0		
27		18.2					2.5	20.0
28	17.5	4.0		2.0		7.0		4.0
29	7.4	0.5					2.2	
30	8.5	2.0		4.0		6.0	6.5	
TOTAL	259.0	237.4	114.8	145.0	73.2	179.5	89.4	154.5

APRIL 1962 .
TABLE 15-d .

نيسان ١٩٦٢

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

الايام	كيارة	صلاح الدين	سرسنك	شقلاوة	جلولاء	تل عوينات	بيجي	نصور
DAYS	QAYARA	SALAH ADDIN	SERSANK	SHAQLAWA	JALAWLA'A	TEL AWAINAT	BAIJI	MANSOUR
1								
2								
3	1.5	tr.	5.0					
4		tr.						
5		1.2				6.4		
6		3.9	4.0					
7	8.0	6.5	4.0					
8	10.5	8.8		20.0		3.8		7.6
9		6.7	15.0	6.5		20.3	1.5	
10	55.0	9.4	25.5	36.0		21.6	32.0	
11	25.0	9.2		37.5	52.8	63.5		7.1
12	tr.	8.9	2.0	9.0	29.2	44.5		16.5
13		5.8		4.0				
14		3.9	15.0					
15		6.7				7.6		
16								
17			4.5					
18								
19		tr.		10.0				
20		2.9						
21		3.6						
22		tr.						
23	74.0	tr.	13.0				5.5	
24		5.8	3.0			24.1		
25	2.5	3.4	1.0	10.0		14.0		
26		4.5	2.0					
27			12.0					
28	20.5	6.9	2.0	9.0		24.1		
29		7.8	2.5	5.5		8.2		
30		5.7	5.4					
TOTAL	197.0	111.6	115.9	149.5	82.0	238.8	39.0	31.2

APRIL 1963 .

(18)

نيسان ١٩٦٣

TABLE 15-e .

الهطول اليومي (ملليمترات)

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

الايام	هيت	سامراء	بقوبة	بدعة	مندلي	سماوة	بدرة	سعدية
DAYS	HIT	SAMIRA'A	BAKOBA	BADA'A	MANDILY	SAMAWA	BADRA	SAIDIYA
1								
2	1.7							
3			0.8	8.0				
4	5.6	tr.		12.0		3.0		
5		1.0						
6								
7		tr.	6.3					
8	tr.	tr.			2.5			8.0
9	1.5	tr.						
10	4.8	43.0	29.7		18.5		19.0	
11		tr.		19.0	13.5			53.0
12			2.0				3.0	16.0
13								
14			0.8					
15								
16								
17								
18								
19								
20								
21								
22	tr.	tr.						
23		3.0						
24				4.0				
25								
26								
27								
28					30.5			
29	0.9							
30		7.7						
TOTAL	14.5	59.7	39.6	43.0	65.0	3.0	22.0	77.0

APRIL 1963 . نيسان ١٩٦٣

TABLE 15-f . الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) , tr. < 0.05 mm

الايام DAYS	عنة ANAH	عزيزية AZIZIYA	كربلاء KARBALA'A	علي الغربي ALYALGHARBI	فاو FAO	معقل MAQIL
1						
2				3.5		
3			7.1		17.2	
4						
5						
6						
7						
8	4.5					
9				4.1		
10	15.5			25.0	8.6	
11	4.5	21.0	5.1			
12						
13						
14						
15						
16						
17		1.1				
18						
19						
20						
21						
22						
23	2.5					
24						
25						
26						
27						
28						7.6
29						7.6
30	12.0			20.0		
TOTAL	39.0	22.1	12.2	52.6	25.8	15.2

APRIL 1963 .

نيسان ١٩٦٣

TABLE - 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة

NO. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	9	0	0	3	0	0	0	4	0
MOSUL	19	0	0	6	0	0	1	8	0
KIRKUK	12	0	1	7	1	1	2	7	0
KHANAQIN	10	0	0	3	0	1	1	13	0
RUTBAH	6	0	0	1	0	0	3	6	0
HABBANIYA	7	0	1	6	0	3	3	8	0
BAGHDAD	7	0	0	7	0	1	2	4	0
NUKHAIB	4	0	0	1	0	0	3	6	0
HAI	6	0	0	1	0	0	3	3	0
NAJAF	1	0	0	1	0	2	4	4	0
DIWANIYA	7	0	0	3	0	5	3	2	0
NASIRIYA	6	0	0	5	0	1	6	3	0
BASRAH	6	0	0	5	0	0	7	2	0

TABLE -17 .

DURATION OF SUNSHINE : مدة سطوع الشمـــــس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE DURING ONE DAY HOURS	MAX. SUNSHINE DURING ONE DAY DAY	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	210.8	12.3	21st	1
HABBANIYA	213.2	12.4	26th	0
BAGHDAD	200.5	12.7	26th	0
BASRAH	234.8	12.4	27th	0

TABLE - 18 .

المعدل الشهري لحرارة العشب و التربة (سنتغراد)

MONTHLY MEAN TEMPERATURES OF :

STATIONS	GRASSMINIMUM TEMPERATURE C°	EARTH TEMPERATURE C° 0.3 M	EARTH TEMPERATURE C° 1.2 M
MOSUL	....	17.8	17.3
KIRKUK	10.2	19.1	17.9
HABBANIYA	....	23.9	22.0
BAGHDAD	12.1	22.4	21.7
NAJAF	....	24.5	24.2
NASIRIYA	16.9	25.2	23.3
BASRAH	15.3	....	....

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وزارة المواصلات

مديرية الطيران المدني العامة

REPUBLIC OF IRAQ

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DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

METEOROLOGICAL DEPARTMENT

شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 5, 6, 7 & 8
Vol. 26
Month May, June, July, and August.
Year 1963

العـــدد ٥ ، ٦ ، ٧ ، ٨
مجلـــد ٢٦
الشهر مايس وحزيران وتموز وآب
السنة ١٩٦٣

الجمهورية العراقيـــــة
وزارة المواصـــلات
مديرية الطيران المدني العامـــــة
مفتشية الارصاد الجوية العامـــــة
شعبة المنـــــاخ
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METEOROLOGICAL DEPARTMENT
CLIMATOLOGICAL SECTION
B A G H D A D

معلومات مناخية لشهر مايـــــــس ١٩٦٣
مجلد ٢٦ ، عدد (٥) مايـــــــس ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR MAY 1963 .
VOLUME 26 , NO. (5) , M A Y 1 9 6 3 .

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MAY 1963 .

مايس ١٩٦٣

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	رطبة
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	11.8	13.8	14.7	14.6	17.8	20.0
2	11.3	14.1	15.4	14.4	16.5	16.6
3	14.2	15.3	14.9	17.2	19.6	19.8
4	16.2	18.6	19.7	20.0	22.9	23.6
5	18.4	19.8	19.9	15.8	20.9	21.3
6	17.4	19.4	19.8	17.4	22.1	22.0
7	17.5	18.2	18.5	19.5	24.6	24.7
8	18.2	19.6	21.1	19.1	21.7	22.4
9	20.2	21.2	21.5	19.0	23.2	25.0
10	16.7	17.5	15.9	17.2	21.2	21.0
11	16.1	18.5	17.2	18.9	21.7	21.6
12	16.7	18.1	18.8	19.7	24.2	24.7
13	18.2	20.5	20.6	22.0	25.8	25.6
14	21.1	20.6	22.9	25.3	27.0	27.2
15	20.5	20.8	19.5	21.4	22.0	22.5
16	20.4	20.5	20.1	17.3	20.7	22.6
17	18.0	19.7	20.0	19.1	21.9	22.9
18	22.0	21.8	21.8	21.9	24.7	24.6
19	23.5	23.9	25.0	25.9	27.4	27.4
20	22.9	23.0	24.9	21.9	27.1	26.8
21	21.7	22.7	23.5	21.3	25.7	25.8
22	23.4	23.7	24.8	24.6	26.9	27.3
23	24.2	24.4	27.3	26.9	29.7	30.3
24	27.8	27.3	30.4	23.5	29.5	30.7
25	21.1	25.0	25.7	25.1	26.9	27.1
26	25.5	25.6	27.6	27.6	31.7	31.5
27	23.5	29.6	27.1	24.4	29.3	29.1
28	24.0	20.2	23.0	20.2	25.7	26.7
29	21.6	21.1	21.0	22.0	24.7	24.2
30	23.7	24.3	25.1	23.8	28.0	27.5
31	24.0	22.9	28.6	28.9	32.5	30.8
MEANS	20.1	21.0	21.8	21.4	24.6	24.9
DEPARTURE FROM NORMAL	....	-3.0	-3.8	-2.8	-3.8	-3.5

NOTES :

OBSERVATIONS G.M.T.

1- $\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8}$ = DAILY MEAN

2- AT SINJAR OBSERVATIONS 0000& 2100 gmt. ARE MISSED .

MAY 1963 .

TABLE 1-b.

مايس ١٩٦٣

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS :

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	20.1	20.9	21.5	20.9	24.8	25.4
2	19.8	17.3	20.2	18.7	20.6	18.6
3	23.0	19.9	21.7	21.9	22.3	21.7
4	26.5	23.7	25.2	24.4	22.4	24.6
5	18.1	20.0	22.0	19.8	20.3	22.8
6	22.6	20.1	21.7	20.9	20.8	23.0
7	26.6	22.6	24.3	23.9	23.8	24.7
8	25.1	24.8	22.8	22.5	26.5	28.0
9	25.2	25.4	22.4	23.6	25.3	27.7
10	24.1	21.6	23.4	24.4	23.7	23.5
11	24.6	21.1	23.2	21.6	23.9	23.3
12	26.1	23.9	26.4	26.0	25.5	25.4
13	29.2	26.2	27.6	27.1	27.3	26.0
14	32.2	27.2	29.1	28.4	28.6	27.8
15	24.2	26.8	26.5	26.5	28.9	29.8
16	24.4	27.8	26.7	27.9	29.0	29.6
17	25.6	26.4	25.4	26.0	27.1	27.6
18	28.1	25.8	26.4	25.5	26.4	28.8
19	31.8	27.4	27.9	28.3	28.1	28.0
20	29.7	30.1	28.4	29.0	29.9	28.6
21	27.9	29.3	27.0	28.2	29.9	29.4
22	30.9	29.5	28.2	28.1	28.2	28.1
23	35.0	31.1	30.1	30.6	30.4	28.8
24	30.9	33.1	31.3	31.8	32.4	32.6
25	31.2	30.9	29.2	28.6	29.1	29.9
26	35.5	31.6	33.4	32.4	31.6	29.5
27	28.6	32.0	31.9	31.3	32.4	31.9
28	30.6	30.3	29.4	29.4	30.8	33.3
29	26.5	26.9	27.0	27.0	27.1	28.5
30	30.6	29.4	28.9	28.5	28.7	33.0
31	35.6	31.0	31.7	30.5	30.5	29.4
MEANS	27.4	26.3	26.8	26.2	27.0	27.4
DEPARTURE FROM NORMAL	....	-2.4	....	-2.7	-1.4	-2.0

NOTES:

1- AT NUKHAIB: OBSERVATIONS 0000, 0300, 1800 & 2100 GMT. ARE NOT AVAILABLE.

2- AT HAI: OBSERVATIONS 0000 & 2100 GMT. ARE NOT AVAILABLE .

3- AT NAJAF : OBSERVATIONS 1500 & 2100 GMT. ARE NOT AVAILABLE.

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TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	هبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1005.6	1005.9	1005.9	1006.4	1004.9	1004.9
2	07.2	07.4	07.4	07.4	06.9	07.2
3	09.9	10.2	10.4	09.2	09.1	09.5
4	11.5	11.1	10.7	07.3	08.2	08.9
5	08.6	08.0	07.6	07.3	06.1	06.4
6	07.3	07.5	07.3	07.8	06.6	06.8
7	12.3	13.5	13.2	09.0	10.5	11.1
8	13.8	13.5	12.7	09.3	10.6	10.5
9	09.1	09.8	09.3	07.2	07.5	07.8
10	04.7	05.4	05.3	05.6	03.6	04.1
11	05.8	06.3	06.1	07.9	06.2	06.8
12	10.7	11.2	11.0	10.5	09.6	09.7
13	13.2	12.6	12.8	11.7	11.1	11.4
14	09.4	10.6	10.7	07.6	08.3	08.9
15	07.5	08.5	10.4	08.2	09.1	09.3
16	12.3	13.4	13.3	12.7	11.9	11.5
17	15.2	14.7	14.2	15.3	13.8	13.8
18	12.4	12.6	12.1	12.4	11.4	11.3
19	09.9	10.0	09.3	07.3	08.2	08.6
20	06.3	07.2	07.2	07.4	06.2	06.6
21	10.5	10.6	10.9	11.8	10.4	10.3
22	10.5	10.2	09.9	08.8	08.9	09.0
23	08.9	09.1	08.6	05.2	06.7	07.1
24	06.2	06.4	05.6	08.5	05.6	05.4
25	07.9	07.6	08.3	08.8	08.4	08.4
26	07.6	03.7	05.7	04.1	04.0	04.7
27	04.5	04.5	04.1	04.9	04.0	04.2
28	04.0	05.3	04.5	05.0	02.8	03.7
29	05.4	06.4	06.1	07.9	05.9	06.0
30	07.8	08.2	08.5	08.8	07.8	07.9
31	06.0	06.7	05.8	04.7	05.0	06.1
MEANS	1008.7	1009.0	1008.9	1008.2	1007.7	1008.0
DEPARTURE FROM NORMAL	****	-0.2	+0.7	-1.3	-0.8	-0.4

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1016.7	17th	0300	1963	1001.4	26th	1800	1963	1963
MOSUL	1016.2	17th	0600	1963	1002.0	26th	1500	1963	
KIRKUK	1016.8	7th	1800	1963	1001.8	26th	2100	1963	
RUTBAH	1017.1	17th	0600	1963	1002.8	26th	1500	1963	
HABBANIYA	1015.4	17th	0900	1963	1000.3	26th	1500	1963	
BAGHDAD	1014.9	17th	0900	1963	999.8	28th	1200	1963	
MOSUL	1021.8	2nd	0600	1948	995.7	3rd	1200	1946	RECORD
KIRKUK	1019.1	2nd	0600	1948	995.0	25th	1200	1962	
RUTBAH	1023.3	6th	0600	1944	997.4	1st	1200	1946	
BAGHDAD	1019.4	5th	0600	1940	996.8	25th	0000	1962	

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TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	نجف	حي	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	NAJAF	HAI	DIWANIYA	NASIRIYA	BASRAH
1	1004.7	1002.6	1003.3	1004.3	1002.7	1004.2
2	07.1	04.8	06.8	07.1	07.0	07.7
3	08.8	07.7	09.6	09.7	09.5	11.2
4	05.7	06.7	08.8	07.7	08.1	09.8
5	04.9	03.3	05.2	05.1	04.2	05.8
6	06.8	04.4	05.6	06.3	04.7	05.2
7	09.1	09.1	10.8	11.3	10.2	11.5
8	08.3	08.9	10.8	10.7	10.1	11.5
9	06.2	07.0	07.7	08.3	07.6	06.0
10	02.9	02.2	04.0	04.4	04.1	06.1
11	06.4	05.2	06.6	07.6	06.5	07.9
12	09.3	07.6	09.2	09.4	09.0	10.4
13	11.0	09.8	10.7	11.1	10.6	11.2
14	06.8	06.9	09.0	08.6	08.9	09.8
15	09.3	07.3	08.4	09.0	07.3	08.2
16	11.8	08.6	09.1	10.0	08.0	08.6
17	14.2	12.0	11.2	12.8	11.4	10.8
18	11.6	09.9	09.8	10.9	10.3	10.4
19	07.6	07.0	07.8	08.6	08.2	09.0
20	05.9	04.8	06.6	06.6	06.1	07.2
21	10.5	08.7	08.4	09.6	08.4	07.7
22	08.4	07.3	08.0	08.9	08.3	08.6
23	04.3	04.8	06.5	06.8	06.7	07.4
24	06.7	03.7	04.2	05.1	04.2	05.1
25	08.3	07.0	07.1	08.4	07.6	07.6
26	03.6	03.3	05.6	05.3	05.8	06.0
27	04.6	02.9	04.0	04.9	04.1	04.9
28	02.5	00.5	01.8	02.5	01.5	03.0
29	05.5	04.8	05.6	05.9	05.5	05.7
30	08.3	06.3	07.3	08.0	07.7	08.5
31	03.8	04.4	07.2	06.6	07.6	08.3
MEANS	1007.6	1006.1	1007.3	1007.8	1007.2	1007.9
DEPARTURE FROM NORMAL	****	****	-0.3	+0.1	-0.1	+0.7

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1015.8	17th	0600	1963	1000.9	28th	1500	1963
HAI	1012.5	8 th	0900	1963	998.8	28th	1500	1963
NAJAF	1013.8	17th	0300	1963	997.7	28th	1200	1963
DIWANIYA	1014.1	17th	0900	1963	999.3	28th	1200	1963
NASIRIYA	1012.7	17th	0600	1963	997.4	28th	1500	1963
BASRAH	1013.4	8th	0600	1963	999.8	28th	1500	1963
HAI	1019.2	1st	0600	1948	997.5	31st	1500	1958
DIWANIYA	1019.6	5th	0600	1940	996.2	3rd	0000	1946
NASIRIYA	1018.3	1st	0600	1948	997.2	3rd	0000	1948
BASRAH	1019.0	5th	0600	1940	997.7	3rd	0000	1959

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TABLE - 1

المعدل اليومي للرطوبة النسبية (٪) OF 6 OBSERVATIONS

DAILY MEAN RELATIVE HUMIDITY (%) OF 6 OBSERVATIONS

الأيام	سنجار	موصل	كركوك	رطبة	هبانية	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	SIN-JAR	MO-SUL	KIR-KUK	RUT-BAH	HABB-ANIYA	BAG-HDAD	NUKH-AIB	HAI	NA-JAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	93	88	79	67	75	89	42	74	49	54	56	67
2	93	88	78	68	74	81	31	76	53	66	66	78
3	78	82	61	54	67	67	31	62	32	57	56	71
4	73	82	63	46	67	47	22	52	41	45	48	56
5	50	69	62	79	84	90	75	75	57	73	74	60
6	67	71	66	72	69	69	47	75	60	73	70	72
7	72	81	77	61	68	82	31	69	54	63	68	66
8	58	78	69	72	76	82	37	61	65	67	53	55
9	60	76	66	67	69	69	46	57	70	67	59	55
10	78	93	78	69	77	86	40	84	63	73	73	76
11	89	90	89	55	68	76	34	79	58	66	68	67
12	89	91	85	50	80	83	35	68	41	54	59	62
13	74	77	74	48	67	80	24	59	47	53	52	69
14	69	76	65	37	62	86	27	54	42	47	48	64
15	60	75	78	47	69	79	36	55	49	52	35	45
16	69	74	72	69	78	83	35	48	47	43	45	45
17	64	71	63	52	80	84	32	48	41	44	46	54
18	48	69	57	45	58	87	25	47	35	43	49	55
19	43	61	47	27	43	74	14	38	23	42	49	62
20	50	66	45	33	48	69	24	41	38	36	36	46
21	46	61	49	40	45	61	24	39	30	36	36	46
22	49	69	63	25	45	74	26	36	32	34	41	49
23	38	59	33	17	36	67	12	37	30	31	35	65
24	30	49	28	28	31	70	9	36	28	28	32	48
25	40	51	34	23	36	33	16	30	26	33	37	54
26	32	48	28	19	30	24	9	36	22	28	34	62
27	34	45	31	25	39	32	25	39	28	31	29	46
28	34	70	54	44	57	64	19	51	34	40	42	44
29	48	71	51	39	58	55	25	52	35	43	47	46
30	50	61	45	23	52	44	22	40	35	38	47	57
31	48	57	30	17	33	33	16	39	34	29	41	56
MEANS	59	71	60	46	56	61	29	53	42	48	49	58
NORMAL	..	49	39	35	52	53	..	38	..	35	37	58

STATIONS	HIGHEST	DAY	TIME		LOWEST	DAY	TIME	
SINJAR	98	2nd	0600	GMT.	23	24th	1200	GMT.
MOSUL	98	11th	2100		24	26th	0900	
KIRKUK	99	10th	1800		15	25th	1500	
RUTBAH	99	5th	1800		6	24th	1500	
HABBANIYA	99	1st	0600		15	31st	2100	
BAGHDAD	97	11th	0300		13	26th	1500	
NUKHAIB	87	5th	0600		5	26th	1200	
HAI	95	12th	0300		20	24th	1200	
NAJAF	90	11th	0300		11	26th	1500	
DIWANIYA	96	10th	2100		11	26th	1200	
NASIRIYA	97	12th	0000		14	31st	1200	
BASRAH	96	10th	0300		22	20th	0900	

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TABLE 4-a.

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (CENTIGRADE)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الأيام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	14.1	10.6	16.2	12.8	18.4	12.8	21.1	16.1	19.5	10.2
2	14.8	9.1	18.8	12.2	22.5	10.6	19.4	10.6	19.7	9.7
3	17.2	10.3	20.8	10.0	18.6	11.1	20.6	12.2	24.9	9.9
4	19.7	10.8	24.2	12.3	25.7	12.5	27.2	12.8	26.2	13.6
5	21.6	12.2	25.8	14.2	26.2	16.0	27.2	14.4	22.4	13.0
6	19.6	13.2	25.8	12.2	27.6	13.0	26.7	14.4	23.2	12.3
7	20.5	14.2	25.2	14.3	27.1	14.3	28.3	15.0	27.6	14.2
8	22.0	13.8	24.0	14.2	28.0	15.4	30.0	16.7	24.8	15.4
9	22.8	14.9	26.8	16.1	27.2	16.2	32.2	16.7	24.3	14.0
10	18.0	13.3	20.6	16.2	17.3	15.9	21.7	19.4	23.0	13.5
11	18.5	13.2	23.0	15.2	21.0	13.7	23.3	15.0	25.8	11.6
12	19.4	14.2	22.8	15.2	25.[illegible]	15.4	26.1	15.6	26.4	13.0
13	20.8	13.0	26.2	14.2	26.5	15.0	27.2	15.0	31.0	12.7
14	24.3	16.2	27.8	15.4	30.1	15.2	30.0	15.6	32.5	18.0
15	23.0	17.3	26.6	15.6	22.4	18.5	25.0	19.4	27.7	16.8
16	24.5	14.3	28.8	15.2	29.2	16.0	30.0	14.4	21.0	13.3
17	21.6	11.8	25.8	13.2	25.4	12.9	27.8	13.3	25.5	12.6
18	25.8	15.2	29.2	13.8	28.2	14.1	29.4	15.0	30.0	12.6
19	28.5	16.2	31.0	15.2	31.0	16.9	31.7	16.1	33.5	15.3
20	25.6	17.3	29.4	18.4	32.9	19.5	36.1	17.2	27.7	15.7
21	26.0	17.4	29.2	16.4	29.7	17.0	30.0	17.2	27.8	14.3
22	27.1	18.3	30.4	15.4	30.6	17.4	31.8	15.6	31.9	14.5
23	28.0	18.4	30.6	16.2	32.5	18.3	35.0	18.3	35.5	18.9
24	31.9	20.0	34.7	18.2	38.0	23.6	39.4	25.0	30.4	16.6
25	25.8	[illegible]	34.6	[illegible]	32.3	20.0	33.0	25.6	33.4	16.4
26	29.5	19.6	33.6	17.8	32.4	19.5	36.1	23.9	34.0	18.6
27	25.6	19.5	32.6	19.4	34.0	20.2	34.4	27.8	31.5	16.2
28	27.5	19.3	31.6	15.6	33.4	19.4	34.4	23.3	26.3	15.2
29	25.5	16.8	27.2	15.8	28.2	15.0	29.4	17.2	27.7	15.2
30	28.6	16.5	31.6	15.6	31.3	17.3	31.7	17.2	31.0	15.0
31	26.6	20.2	28.2	18.4	34.0	20.6	34.4	20.6	35.7	19.2
MEANS	23.4	15.3	27.1	15.3	27.9	16.2	29.4	17.3	27.8	14.3
DEPARTURES FROM NORMAL	....	....	-6.1	+0.8	-5.5	-2.5	-5.7	-1.6	-4.1	-1.6

STATION	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	38.1	31st	1962	9.1	2nd	1963
MOSUL	44.1	31st	1955	6.1	1st	1948
KIRKUK	43.3	7th	1942	8.3	1st	1948
KHANAQIN	44.0	29th	1960	8.3	1st	1948
RUTBAH	42.4	7th	1942	5.6	1st	1948

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية (بالفهرنهايت)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (F)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN
1	22.2	13.2	34.0	18.0	22.6	11.6	27.0	15.2
2	22.5	13.4	21.1	12.8	21.6	11.0	22.0	14.0
3	25.5	13.4	24.8	12.6	25.5	12.3	25.3	12.2
4	29.9	14.9	29.8	16.4	30.5	14.5	32.6	15.8
5	27.1	17.9	25.7	18.5	20.2	14.2	24.4	19.6
6	29.2	15.5	28.2	15.5	26.2	11.2	25.2	14.6
7	31.8	17.8	30.8	17.0	30.6	12.5	28.6	15.0
8	25.5	20.0	26.8	20.3	28.3	17.3	30.2	18.3
9	29.4	18.5	29.0	18.8	30.2	15.5	30.6	18.4
10	25.2	18.4	27.8	18.6	28.0	14.4	27.6	18.6
11	27.6	15.1	26.7	15.0	27.6	14.0	27.2	16.0
12	30.0	17.9	30.3	19.6	29.0	14.3	30.2	17.2
13	32.2	18.4	31.6	18.2	33.0	14.6	31.6	19.2
14	33.9	21.2	33.0	20.0	36.2	19.2	33.8	19.6
15	24.5	15.9	28.3	22.1	25.2	19.5	31.8	22.0
16	25.6	16.1	29.1	16.7	28.2	15.2	34.0	21.3
17	30.0	14.7	29.7	16.8	29.0	14.5	32.0	20.2
18	32.1	17.0	31.6	16.2	31.4	13.6	32.2	17.6
19	34.6	19.3	34.8	17.0	35.0	15.3	34.2	18.0
20	36.1	21.6	37.2	19.5	33.0	20.4	35.4	18.3
21	32.7	18.8	32.1	17.6	31.0	15.2	34.9	22.2
22	34.5	18.1	34.3	19.1	34.2	15.6	34.4	20.2
23	37.8	20.3	36.2	23.4	39.2	20.4	38.2	21.2
24	37.2	22.5	37.8	24.2	35.2	21.2	39.0	20.4
25	33.9	19.6	34.2	18.3	35.6	17.2	35.2	23.2
26	40.0	23.3	38.5	21.5	39.1	23.2	38.2	19.6
27	35.3	23.1	34.5	24.2	33.0	21.8	37.0	25.2
28	30.6	21.7	34.8	23.4	35.0	18.2	37.2	24.2
29	30.6	18.4	30.7	16.7	29.4	18.3	32.2	19.2
30	35.1	19.4	34.4	18.4	33.0	20.5	33.8	21.2
31	40.0	23.6	37.7	20.3	39.0	18.8	36.8	20.4
MEANS	31.3	18.4	31.1	18.6	30.8	16.3	32.0	18.9
DEPARTURE FROM NORMAL	-5.2	-1.6	-4.8	-1.2	....	....	-5.1	-2.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	46.7	7th	1942	8.3	4th	1940
BAGHDAD	44.6	28th	1960	10.5	1st	1948
NUKHAIB	39.2	23rd	1963	11.0	2nd	1963
HAI	46.1	26th	1941	11.0	26th	1951

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TABLE 4c .

مايس ١٩٦٣

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	26.9	18.0	26.0	16.0	31.8	17.5	33.0	23.4
2	23.7	17.4	23.5	16.4	25.6	16.0	20.5	18.7
3	28.6	14.5	28.6	14.5	30.8	13.8	29.0	13.5
4	31.8	18.4	32.3	15.9	32.0	18.2	32.3	16.2
5	25.4	17.5	24.6	19.1	22.5	17.8	26.7	19.5
6	28.6	16.2	28.3	15.2	25.9	15.8	28.5	18.4
7	31.2	16.4	30.5	15.3	30.4	17.1	30.1	18.4
8	29.5	19.0	27.0	19.1	33.8	20.1	35.2	20.3
9	25.0	17.9	27.0	19.1	29.6	20.4	34.0	24.0
10	30.1	18.1	30.3	17.5	29.4	19.1	28.8	19.0
11	29.4	15.6	28.3	16.5	28.6	19.4	29.5	18.3
12	32.5	18.8	32.5	16.7	33.0	18.6	31.4	19.3
13	34.2	19.2	32.8	21.0	32.8	20.7	30.9	20.4
14	36.0	22.5	35.8	19.2	34.9	21.6	32.0	23.0
15	31.0	25.3	31.5	24.2	34.0	24.2	37.5	22.9
16	34.5	20.0	35.3	23.1	34.9	23.4	36.0	24.4
17	31.9	17.8	31.0	18.5	31.9	22.9	32.0	23.2
18	33.5	17.9	32.8	17.8	31.8	20.8	32.2	22.4
19	36.1	19.2	35.6	19.0	35.0	20.6	32.4	20.5
20	37.0	21.6	36.4	20.0	37.4	20.5	36.0	21.3
21	34.0	19.1	34.4	20.6	35.5	24.0	35.2	23.8
22	35.2	18.8	35.2	19.0	34.9	20.5	33.6	23.8
23	38.1	20.5	38.5	19.8	37.0	20.6	34.8	22.8
24	39.9	22.7	40.1	22.8	40.4	23.4	40.6	23.3
25	36.2	20.9	35.2	21.6	35.0	22.0	34.8	27.3
26	40.0	23.2	39.5	20.8	39.2	22.2	36.7	23.0
27	36.5	26.2	38.5	27.8	40.6	26.4	39.4	26.9
28	37.5	22.4	38.0	23.3	37.6	26.2	42.5	27.6
29	32.9	19.1	32.4	19.7	33.0	21.4	32.0	27.6
30	35.5	21.9	35.3	20.4	34.3	23.3	32.8	22.3
31	39.0	22.7	38.6	18.9	37.8	22.2	35.4	24.0
MEANS	32.9	19.7	32.8	19.3	33.3	20.7	33.1	21.8
DEPARTURE FROM NORMAL	....	....	-3.9	-0.2	-3.8	-1.7	-2.7	-2.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	45.6	12th	1941	7.8	1st	1948
NASIRIYA	46.2	24th	1962	11.6	1st	1948
BASRAH	45.6	23rd	1951	8.9	1st	1952

TABLE 5 . MONTHLY MEAN DRY-BULB TEMPERATURES (C°) جملة الجافة (سنتغراد)

TIME - G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	16.8	19.4	21.2	22.6	21.8	19.0	....	20.1
MOSUL	16.7	16.2	20.9	25.1	25.4	23.8	20.2	18.3	20.8
KIRKUK	17.7	17.5	23.0	25.8	26.0	24.3	20.9	19.3	21.8
KHANAQIN	....	18.1	24.8	27.5	27.5	26.5	22.4	....	24.4
RUTBAH	16.4	15.4	20.3	24.9	26.8	25.7	21.4	18.6	21.2
HABBANIYA	20.1	19.6	24.5	28.3	29.7	28.4	24.1	22.0	24.6
BAGHDAD	20.6	19.8	24.9	28.6	29.7	28.9	24.7	22.4	24.9
NUKHAIB	....	....	23.1	27.6	29.9	29.2	....	....	27.2
HAI	....	20.0	26.4	30.3	31.1	28.3	24.2	....	26.7
NAJAF	22.0	22.2	24.9	30.6	32.1	....	26.2	....	26.3
DIWANIYA	21.2	20.4	26.9	30.5	32.1	30.2	25.5	23.2	26.2
NASIRIYA	22.6	21.4	26.6	31.0	32.3	30.5	26.6	24.5	26.9
BASRAH	23.2	22.3	27.6	30.9	31.8	29.8	26.4	24.9	27.1

TABLE -6. MONTHLY MEAN VAPOUR - PRESSURE (MILLIBARS) معدل ضغط الحار (ملليبارات)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	14.2	13.0	13.6	13.4	13.0	12.8	....	13.0
MOSUL	16.1	16.1	17.2	16.7	16.2	15.8	17.0	16.7	16.5
KIRKUK	14.0	14.2	14.5	14.4	13.9	13.6	14.4	13.9	14.1
KHANAQIN	....	14.2	14.2	13.5	13.4	13.4	14.1	....	13.8
RUTBAH	11.3	11.4	10.9	9.7	8.1	8.0	10.1	10.8	10.0
HABBANIYA	16.2	16.5	16.8	16.0	15.0	15.3	16.6	16.0	16.0
BAGHDAD	15.0	15.1	16.1	14.7	14.3	15.3	15.2	14.9	15.1
NUKHAIB	....	....	11.4	9.9	8.4	8.6	....	....	7.1
HAI	....	17.1	17.8	16.8	16.3	18.3	16.5	....	17.2
NAJAF	14.2	14.0	14.1	13.2	12.0	....	14.2	....	13.6
DIWANIYA	15.3	16.0	19.6	14.4	13.7	13.6	14.9	15.1	15.3
NASIRIYA	17.2	17.1	16.8	15.3	14.2	15.2	18.3	17.3	16.4
BASRAH	20.4	20.2	20.7	19.2	18.4	19.3	20.4	21.3	20.0

TABLE 7. MONTHLY MEAN WET-BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	13.1	14.6	15.7	16.2	15.5	14.4	....	14.9
MOSUL	15.2	15.0	17.5	18.8	18.7	17.9	17.0	16.1	17.0
KIRKUK	14.5	14.5	16.9	17.9	17.8	17.0	16.0	15.1	16.2
KHANAQIN	....	14.7	17.5	18.[illegible]	18.[illegible]	17.7	16.3	....	17.1
RUTBAH	12.5	12.1	14.0	15.1	15.2	14.8	14.0	13.2	13.9
HABBANIYA	16.6	16.6	19.2	19.6	19.3	19.3	18.3	17.5	18.4
BAGHDAD	16.2	15.9	18.6	19.3	19.4	18.8	14.6	16.9	17.5
NUKHAIB	....	....	15.5	16.8	16.7	16.5	....	....	16.4
HAI	....	16.9	19.5	20.3	20.3	19.4	18.1	....	19.1
NAJAF	16.3	16.3	17.6	19.1	19.1	....	18.0	....	17.7
DIWANIYA	16.5	16.6	19.2	17.2	19.8	19.1	17.9	17.1	17.9
NASIRIYA	18.1	17.6	19.4	20.3	20.4	20.1	10.0	18.9	19.4
BASRAH	19.7	19.3	21.4	21.9	21.9	21.5	20.9	20.7	20.9

TABLE -8. MONTHLY MEAN DEW POINT (C) معدل درجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.8	11.2	11.3	11.1	10.6	10.4	....	10.7
MOSUL	14.1	14.0	15.1	14.6	14.0	13.7	14.8	14.6	14.4
KIRKUK	11.8	12.0	12.2	12.0	11.4	11.1	12.1	11.7	11.8
KHANAQIN	....	12.0	11.9	11.7	11.0	11.0	11.6	....	11.4
RUTBAH	8.5	8.7	7.7	5.1	2.9	2.8	6.4	7.6	6.2
HABBANIYA	14.0	14.3	14.6	13.6	12.7	13.1	14.3	13.9	13.9
BAGHDAD	12.8	12.6	14.0	12.7	11.9	11.5	12.2	12.7	12.5
NUKHAIB	....	....	8.8	6.3	3.6	4.6	....	....	5.8
HAI	....	14.8	15.5	14.6	14.1	14.2	14.3	....	14.6
NAJAF	11.8	11.8	12.2	10.6	9.6	....	11.7	....	11.3
DIWANIYA	13.1	13.8	14.1	13.2	11.2	11.2	12.[illegible]	12.8	12.8
NASIRIYA	14.9	15.3	14.5	13.0	11.8	13.0	16.0	15.1	14.2
BASRAH	17.6	17.[illegible]	17.9	16.7	[illegible]	16.6	[illegible]	[illegible]	[illegible]

TABLE -9. MONTHLY MEAN RELITIVE HUMIDITY (٪) المعدل الشهري للرطوبة النسبية

STATIONS	TIME G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	67	63	56	51	53	61	..	59
MOSUL	85	88	71	54	53	57	73	80	70
KIRKUK	72	74	56	48	46	51	63	66	60
KHANAQIN	..	71	48	41	41	43	56	..	49
RUTBAH	63	68	49	33	27	28	44	54	46
HABBANIYA	70	73	59	45	38	42	58	63	56
BAGHDAD	64	67	53	40	37	38	51	58	51
NUKHAIB	..	..	42	29	22	23	..	..	29
HAI	..	74	54	41	39	46	57	..	52
NAJAF	55	55	47	32	27	..	44	..	43
DIWANIYA	62	68	48	37	31	34	49	56	48
NASIRIYA	64	68	50	37	31	36	53	58	50
BASRAH	72	75	57	44	41	47	60	68	58

TABLE 10. MONTHLY MEAN PRESSURE (mbs) AT M.S.L. معدل الضغط الجوي (سطح البحر)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	09.2	09.9	09.1	07.8	07.6	08.7	....	1008.7
MOSUL	09.4	09.8	10.1	09.2	08.1	07.3	08.9	09.3	1009.0
KIRKUK	09.1	09.6	09.5	09.0	07.9	07.7	09.0	09.2	1008.9
KHANAQIN	....	10.0	09.0	08.2	07.1	07.0	09.0	....	1008.4
RUTBAH	08.3	08.8	08.9	08.6	07.1	07.4	08.0	08.0	1008.2
HABBANIYA	07.5	08.2	08.9	08.6	07.0	06.5	07.5	07.7	1007.7
BAGHDAD	07.5	07.9	09.1	08.4	07.3	06.9	07.8	08.0	1007.9
NUKHAIB	....	....	08.5	08.1	06.4	06.0	....	....	1007.2
HAI	....	07.5	08.4	08.0	06.7	06.2	07.6	....	1007.4
NAJAF	05.7	06.6	07.4	06.6	05.2	....	05.9	....	1006.2
DIWANIYA	07.4	08.5	09.2	08.4	07.1	06.5	07.8	07.8	1007.8
NASIRIYA	06.6	07.5	08.6	07.9	06.3	05.8	07.6	07.3	1007.2
BASRAH	07.5	07.9	09.1	08.8	07.6	06.9	07.8	08.0	1008.0

TABLE 11. MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS) معدل الغيم الواطئة (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	2.4	2.5	3.6	3.8	3.8	2.4	....	3.1
MOSUL	3.4	3.0	3.8	4.6	5.2	3.7	2.9	3.0	3.7
KIRKUK	2.1	2.0	2.2	2.8	3.5	3.3	1.8	1.4	2.4
KHANAQIN	....	3.0	3.2	4.1	4.3	4.8	3.3	....	3.8
RUTBAH	1.2	1.6	1.5	2.1	2.7	2.0	1.8	1.2	1.2
HABBANIYA	0.6	0.9	1.1	1.7	1.8	1.3	0.7	0.5	1.1
BAGHDAD	1.0	1.5	1.1	1.8	2.3	1.8	0.7	0.5	1.3
NUKHAIB	....	....	0.9	1.4	2.1	2.0	....	....	1.6
HAI	....	1.1	0.9	1.2	2.0	1.5	0.8	....	1.4
NAJAF	0.5	1.3	0.8	1.3	2.3	....	0.5	....	1.3
DIWANIYA	0.7	1.2	1.0	1.1	1.2	1.2	0.7	0.6	1.0
NASIRIYA	1.1	0.8	1.0	0.9	1.2	0.8	1.0	0.9	1.0
BASRAH	0.5	0.9	0.7	0.9	1.6	0.8	0.5	0.5	0.8

TABLE 12. MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS) معدل مجموع كمية الغيم (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	4.6	4.7	5.4	5.7	5.5	3.6	....	4.9
MOSUL	4.2	4.8	5.0	5.8	6.2	5.7	4.4	4.1	5.0
KIRKUK	2.9	3.4	3.1	4.3	5.1	4.4	3.0	2.2	3.6
KHANAQIN	....	3.5	3.9	4.4	5.2	5.2	4.0	....	4.4
RUTBAH	2.5	3.2	3.8	4.2	4.7	4.1	3.0	2.4	3.4
HABBANIYA	2.8	3.3	3.2	4.1	4.0	3.6	3.2	3.1	3.4
BAGHDAD	2.9	4.0	3.6	4.5	4.5	4.2	2.6	2.9	3.7
NUKHAIB	....	....	2.0	2.5	3.5	3.1	....	....	2.8
HAI	....	3.5	3.7	4.2	4.0	3.8	2.4	....	3.6
NAJAF	2.3	3.5	3.2	3.1	3.9	....	2.3	....	2.9
DIWANIYA	2.7	2.9	3.3	3.2	3.4	3.1	2.2	2.2	2.9
NASIRIYA	1.9	2.5	2.4	3.0	3.0	2.5	1.7	1.7	2.3
BASRAH	1.8	2.0	2.3	2.5	2.9	2.2	1.6	1.7	2.2

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 &	معدل السرعة بالعقد MEAN v. K.
سنجار SINJAR	0300	9	3	6	0	2	0	4	1	6	17	7	1	0	8
	0600	1	1	15	1	2	0	3	0	8	13	9	1	0	8
	0900	2	2	9	1	4	1	8	1	3	17	10	1	0	9
	1200	5	3	7	1	4	1	6	0	4	16	9	2	0	9
	1500	5	0	8	1	6	0	7	1	3	15	11	2	0	11
	1800	10	1	4	0	0	0	8	0	8	17	3	2	1	9
	TOTAL	32	10	49	4	18	2	36	3	32	95	49	9	1	9
موصل MOSUL	0000	2	0	4	1	7	0	8	4	5	22	4	0	0	7
	0300	1	1	2	1	6	1	6	4	9	19	3	0	0	5
	0600	2	0	3	1	12	0	7	2	6	21	4	0	0	6
	0900	3	0	6	1	7	0	4	2	3	23	5	0	0	7
	1200	5	1	6	3	6	0	1	4	5	13	12	1	0	9
	1500	5	3	6	1	9	0	3	1	3	15	12	1	0	9
	1800	5	0	6	4	7	0	2	1	6	20	5	0	0	6
	2100	4	0	4	3	7	1	0	2	10	15	5	1	0	6
	TOTAL	27	5	37	28	61	2	24	25	47	148	50	3	0	7
كركوك KIRKUK	0000	0	7	6	2	1	0	0	0	15	15	1	0	0	3
	0300	0	5	4	3	0	0	0	0	19	12	0	0	0	2
	0600	2	3	4	5	4	0	1	0	12	18	1	0	0	4
	0900	2	2	2	4	4	6	6	2	3	27	1	0	0	5
	1200	1	2	1	3	10	3	6	0	5	20	6	0	0	6
	1500	1	6	4	3	3	3	3	1	7	21	3	0	0	5
	1800	2	4	8	2	1	0	0	1	13	14	3	1	0	5
	2100	2	8	4	6	0	0	0	1	10	19	2	0	0	4
	TOTAL	10	37	33	28	23	12	16	5	84	146	17	1	0	4
خانقين KHANAQIN	0300	0	0	10	0	10	0	2	0	9	22	0	0	0	3
	0600	0	0	5	1	6	0	5	0	14	16	1	0	0	4
	0900	2	0	2	0	16	0	10	1	0	31	0	0	0	5
	1200	1	0	3	0	7	0	12	2	1	28	2	0	0	6
	1500	0	2	3	0	8	0	12	1	5	26	0	0	0	5
	1800	1	0	4	1	9	0	2	0	14	15	1	1	0	4
	TOTAL	4	2	27	2	56	0	48	4	43	138	4	1	0	5
رطبة RUTBAH	0000	2	0	2	0	3	1	6	9	8	11	2	0	0	8
	0300	1	0	2	0	2	1	13	2	10	15	6	0	0	5
	0600	3	0	4	1	4	0	13	0	6	18	7	0	0	6
	0900	1	1	1	2	5	0	15	2	4	16	10	1	0	8
	1200	0	0	2	4	0	2	15	5	3	15	13	0	0	10
	1500	4	0	3	0	2	0	12	4	6	17	8	0	0	7
	1800	2	3	3	2	1	0	9	3	8	19	3	1	0	5
	2100	2	1	5	2	3	0	10	6	2	22	7	0	0	7
	TOTAL	15	5	22	11	20	4	93	31	87	133	56	2	0	6

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TABLE 13-b .

مايس ١٩٦٣

عدد تكرار رصدات الرياح السطحية (منفراد)

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V.K.
حبانية HABBANIYA	0000	4	3	4	2	2	1	3	2	10	16	5	0	0	5
	0300	1	3	6	2	3	1	6	2	7	20	3	1	0	6
	0600	2	2	4	3	5	1	9	4	1	20	10	0	0	9
	0900	2	0	5	1	5	1	12	5	0	21	10	0	0	10
	1200	2	3	1	4	1	3	7	8	2	16	13	0	0	9
	1500	3	2	2	2	3	1	10	4	4	22	5	0	0	7
	1800	2	5	6	1	0	2	1	2	12	17	2	0	0	4
	2100	1	2	6	2	1	2	4	2	11	17	3	0	0	5
	TOTAL	17	20	34	17	20	12	52	29	47	159	51	1	0	7
بغداد BAGHDAD	0000	4	3	2	4	2	0	2	2	12	17	2	0	0	3
	0300	1	2	7	3	0	0	2	4	12	18	1	0	0	3
	0600	1	1	2	7	2	1	3	10	4	22	4	1	0	7
	0900	4	2	1	1	6	0	4	7	6	18	7	0	0	7
	1200	3	2	1	4	4	1	7	6	3	20	8	0	0	7
	1500	2	3	2	3	2	2	4	11	2	24	5	0	0	8
	1800	4	2	5	3	1	0	2	3	11	17	3	0	0	5
	2100	1	7	5	1	3	0	2	6	6	25	0	0	0	4
	TOTAL	20	22	25	26	30	4	26	49	56	161	30	1	0	6
فكيه KUT HAIS	0600	8	0	1	1	7	0	5	3	6	16	9	0	0	8
	0900	5	0	0	1	8	0	6	3	6	12	13	0	0	9
	1200	4	0	1	0	9	0	9	3	5	13	11	2	0	11
	1500	4	0	3	0	4	0	10	3	7	13	8	3	0	8
	TOTAL	21	0	5	2	28	0	30	14	24	54	41	5	0	9
حي HAI	0300	0	2	4	0	0	1	3	8	13	10	8	0	0	6
	0600	4	2	8	0	0	0	7	7	3	17	11	0	0	9
	0900	1	3	9	0	0	0	7	6	5	16	10	0	0	8
	1200	0	0	11	2	0	0	10	5	3	12	16	0	0	11
	1500	1	1	10	1	1	0	8	6	3	16	12	0	0	9
	1800	2	1	8	0	0	0	6	5	9	14	7	1	0	8
	TOTAL	8	9	50	3	1	1	41	37	36	85	64	1	0	9
نجف NAJAF	0000	3	3	4	3	4	1	4	1	8	15	6	0	0	7
	0300	6	3	3	2	4	2	7	2	2	26	3	0	0	7
	0600	7	3	3	2	6	3	3	3	1	23	6	1	0	9
	0900	6	4	2	2	8	3	3	3	0	21	10	0	0	10
	1200	6	5	5	3	4	0	5	3	0	14	15	2	0	11
	1800	3	7	3	5	3	1	5	1	3	20	7	1	0	8
	TOTAL	39	25	20	17	29	10	27	13	14	119	49	4	0	9

MAY 1963 .
TABLE 13-c.

مايس ١٩٦٣
عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة بالعقد MEAN V.K.
ديوانية DIWANIYA	0000	6	4	5	3	3	2	2	1	5	22	3	1	0	6
	0300	5	3	5	2	0	1	5	1	9	20	2	0	0	4
	0600	6	1	0	3	8	3	4	4	2	24	5	0	0	7
	0900	9	1	5	1	4	2	7	0	2	15	14	0	0	9
	1200	11	2	0	3	2	2	8	3	0	20	11	0	0	10
	1500	8	1	6	1	2	0	7	4	2	22	7	0	0	8
	1800	7	5	7	2	1	0	4	1	4	17	8	2	0	8
	2100	8	4	11	2	2	1	0	1	2	25	4	0	0	6
	TOTAL	60	21	39	17	22	11	37	15	26	165	54	3	0	7
ناصرية NASIRIYA	0000	5	1	3	4	5	1	0	3	9	18	4	0	0	5
	0300	2	2	4	2	2	3	5	2	9	19	3	0	0	4
	0600	0	1	3	6	3	2	5	7	4	24	3	0	0	6
	0900	2	1	5	7	2	0	7	7	0	25	6	0	0	8
	1200	3	1	5	4	0	1	9	7	1	23	7	0	0	8
	1500	2	3	9	2	0	0	7	4	4	22	4	1	0	8
	1800	9	3	7	2	0	0	3	3	1	24	6	0	0	7
	2100	5	4	5	8	1	0	3	2	5	18	8	0	0	7
	TOTAL	28	16	41	38	13	8	36	35	33	173	44	1	0	7
بصرة BASRAH	0000	4	3	2	0	9	2	3	5	3	22	6	0	0	6
	0300	3	0	8	1	3	1	6	5	4	25	2	0	0	4
	0600	6	2	2	2	7	0	3	7	2	23	5	1	0	7
	0900	8	1	0	6	5	1	0	10	0	18	11	2	0	10
	1200	9	1	2	4	4	1	0	10	0	21	10	0	0	9
	1500	7	4	1	4	5	0	2	8	0	17	4	0	0	7
	1800	4	2	3	6	3	0	2	6	3	26	2	0	0	5
	2100	6	4	1	4	4	0	0	5	3	23	4	1	0	6
	TOTAL	47	17	19	29	40	5	20	56	15	195	44	4	0	7

TABLE -14.

اعلى سرعة هبوب حدثت خلال ساعة

HIGHEST WIND - SPEED DURING ONE HOURS

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	40	360	1800	20th
MOSUL	30	070	1500	14th
KIRKUK	23	110	1800	20th
KHANAQIN	26	180	1800	16th
KUT BAH	26	240	0900	31st
HABBANIYA	25	190	0300	15th
BAGHDAD	28	310	0600	1st
NUKHAIB	25	270	1200	28th
HAI	24	300	1800	16th
NAJAF	30	070	1500	15th
DIWANIYA	26	350	1800	16th
NASIRIYA	23	280	1500	28th
BASRAH	25	290	2100	8th

MONTH: MAY . مايس ١٩٦٢

TABLE: 15-a .

الهطول الرمسي (ملليمترات)

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

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1	17.7	10.0	6.8	10.3	tr.	17.7	12.4
2	27.3	12.0	0.6	2.7	tr.	3.5	0.8
3	2.7	tr	0.4	3.6			
4		0.5			0.6		5.8
5				8.5	13.0	3.2	tr.
6	23.8	2.2	26.5		9.9		
7	21.7	6.1	5.5	9.6	4.0		
8	14.5	1.2	5.0		43.5	3.6	2.6
9	10.0	3.0	40.3		tr.	1.1	1.3
10	15.0	39.7	45.1	30.0	3.0	3.9	7.9
11	18.5	40.4	2.6	5.6		4.7	tr.
12	28.1	9.2	6.0	7.3			
13	0.3		tr.		3.5		
14	5.8	27.0	0.1	0.4	0.8	tr.	1.0
15		tr.	1.0	9.7	0.8	4.5	0.6
16		1.5	6.9	0.2	3.0	3.0	0.2
17		2.2					
18							
19							
20		tr.	0.7	1.8		tr.	3.6
21				1.0			
22							
23		0.3	0.4				
24							
25		0.8					
26		tr.	tr.			tr.	tr.
27				0.5		tr.	tr.
28	tr.	6.2	1.3	7.5	tr.	3.6	2.8
29							
30		tr.					
31	tr.	0.5	tr.				tr.
TOTAL	185.4	142.8	149.2	98.1	82.1	48.8	39.0
NORMAL	30.4	18.8	16.1	19.7	8.8	3.6	6.8

STATION	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
SINJAR	78.5	20th	1959
MOSUL	40.4	11th	1963
KIRKUK	45.1	10th	1963
KHANAQIN	32.6	6th	1950
RUTBAH	46.6	12th	1957
BAGHDAD	65.0	9th	1959

MAY 1963 .

مايس ١٩٦٣

TABLE 15-b.

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

الأيام	النكيب	حي	نجف	الديوانية	الناصرية	البصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1		3.2	tr.	tr.	0.7	20.3
2		2.3	0.7	0.5	1.0	5.4
3		tr.				0.2
4				tr.	2.1	
5	6.0	10.0	tr.	27.7	0.0	1.8
6						tr.
7			0.6			
8			5.7	12.2	4.9	
9		2.0	1.9	2.5	15.6	
10		8.6		6.1	tr.	9.8
11						tr.
12						
13	tr.					
14				0.5		
15		tr.	tr.	tr.		
16						tr.
17						
18						
19						
20			1.9	tr.		
21						
22						
23						
24						
25						
26						
27		tr.	tr.	3.2	1.0	
28		2.1			tr.	0.9
29						
30						
31	tr.					
TOTAL	6.0	28.1	10.8	42.7	23.5	38.4
NORMAL	????	6.3	????	8.2	5.0	7.6

STATIONS	HIGHEST AMOUNT OF RAIN DURING ONE DAY	DAY	YEAR
HAI	28.7	5th	1949
DIWANIYA	27.7	5th	1963
NASIRIYA	40.2	15th	1958
BASRAH	20.3	1st	1953

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TABLE 15-e.

(16)

مايس ١٩٦٣

الهطول اليومي (بالمليمترات)

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

الايام	عقرة	تل عوينات	صلاح الدين	سرسنك	تلعفر	طوز	بكرجو	افتخار
DAYS	AQRA	TEL-AWAINAT	SALAH-ADDIN	SER-SANK	TELA-AFAR	TUS	BAKRAJO	IFTIKAAR
1	31.8		7.9		26.0		9.0	
2	7.2	33.0	9.4	14.7			1.0	
3	16.5	8.9	8.6	14.7	11.5		3.0	
4			3.2	13.3				
5			4.7	12.7				
6			5.8	14.7	8.0		11.0	30.5
7	6.9	10.2	tr.	14.7	38.5	15.2		
8	1.7		tr.					
9	8.3		8.3		7.0		40.0	
10	27.3	10.2	11.9	29.2	14.5		30.0	30.5
11	27.8		10.7	10.2	4.6	47.0	3.0	22.9
12	13.0		12.2		33.5	29.2	9.0	
13		33.0	tr.	16.5			18.0	
14	2.8		10.9	12.7			6.0	
15	18.5	11.4	5.8	31.8			41.0	
16	50.6		6.7	25.4			5.0	
17	0.7	14.0	9.7					
18								
19								
20	2.8			12.7			5.0	
21	0.9			3.8				
22								
23			tr.					
24	1.3		tr.					
25								
26								
27								
28	9.6		4.9		1.8		16.0	
29			5.8	3.8				
30				14.0				
31				12.7				
TOTAL	227.7	120.7	126.6	261.5	154.9	91.4	197.0	83.9

MAY 1963 (17) مايس ١٩٦٣

TABLE 15-d

الهطول الموسمي (ملليمترات)

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

الايام	حويجة	شقلاوة	هيت	بيجي	كيارة	مندلي	سامرا	المنصور
DAYS	HAW-IJAH	SHAQ-LAWA	HIT	BAIJI	QAYARA	MAN-DILY	SAMIRA'A	MANSOOR
1	6.0	5.5	1.9	16.1	38.0			2.0
2				2.4	10.0	7.5		33.0
3				0.6	10.0	14.0		1.0
4		10.5						
5			8.5		8.0	17.0		9.0
6	3.8		7.0		5.0			
7	19.6			6.5	16.0			
8	1.3		9.0	21.0				
9	9.2		6.4	4.6				2.0
10	17.5	20.0	5.2	8.0	39.0	62.4		7.0
11	13.7			4.5	40.0	6.5	10.2	11.0
12	5.0				22.0	3.0		
13						1.0		
14				0.5				
15		14.0	4.3				7.6	2.0
16	5.2		tr.	4.0	9.0			
17								
18								
19								
20					6.5			
21								3.0
22								
23								
24								
25								
26								
27					23.0			
28	6.3					3.5		16.0
29				6.8				
30								
31								
TOTAL	87.6	50.0	58.3	75.0	226.5	115.5	17.8	86.0

MAY 1963 .

TABLE 15-e.

(18)

مايس ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	بعقوبة	عنة	كوت	سعدية	بدعة	سماوة	بدرة	علي الغربي	باو
DAYS	BAKOBA	ANAH	KUT	SAA-DIYA	BADAA	SAM-AWA	BADRA	ALI-ALGHARBI	FCA
1	5.6		10.0	17.0	24.0				
2	9.4			15.0	11.0	5.0			
3			12.0	12.0		6.5			3.0
4			4.0						
5	2.0		3.5						3.5
6			0.5	53.0	8.0	20.0			
7		7.0							
8									
9			1.5		2.0	10.0		35.0	
10	23.0		16.0		12.0		5.0	23.0	7.0
11	0.3		0.7	16.0			10.0		
12				17.0			12.0		
13									
14									
15	1.4		0.2	9.0					
16	3.0								
17									
18			0.4						
19									
20	3.4			3.0					
21									
22									
23			0.3						
24									
25									
26									
27									
28	12.4		0.2	7.0					
29					2.0				
30									
31									
TOTAL	60.5	7.0	49.3	149.0	57.0	47.5	32.0	60.0	13.5

TABLE 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــة

NO. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	12	0	0	4	0	0	1	8	0
MOSUL	17	0	1	9	0	1	1	8	0
KIRKUK	15	0	0	14	0	2	8	5	0
KHANAQIN	15	0	0	5	0	0	5	8	0
RUTBAH	10	0	1	7	0	1	9	2	0
HABBANIYA	10	0	0	9	0	1	9	3	0
BAGHDAD	11	0	1	6	0	1	8	3	0
NUKHAIB	1	0	0	0	0	0	10	4	0
HAI	6	0	0	4	0	0	7	2	0
NAJAF	5	0	0	5	0	2	11	2	0
DIWANIYA	7	0	0	7	0	5	12	4	0
NASIRIYA	7	0	0	7	0	2	14	2	0
BASRAH	6	0	1	2	0	0	15	1	0

TABLE 17 . DURATION OF SUNSHINE مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DAY	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	241.0	13.2	18th	2
BAGHDAD	261.8	13.3	22nd	0
HABBANIYA	265.1	13.1	19th	0
BASRAH	313.7	13.2	19th	0

TABLE 18 . MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لحرارة العشب والتربـــة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2M
MOSUL	,,,,	20.7	22.4
KIRKUK	12.7	22.0	20.3
HABBANIYA	,,,,	26.9	24.6
BAGHDAD	14.6	24.8	23.5
HAI	,,,,,	,,,,,	,,,,,
NAJAF	,,,,	27.7	27.2
NASIRIYA	19.4	29.1	26.0
BASRAH	17.9	,,,,	,,,,

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الارصاد الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر حزيران ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR JUNE 1963

مجلد ٢٦ ، عدد (٦) حزيران ١٩٦٣

VOLUME 26 , No. (6) , J U N E 1 9 6 3.

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NOTE: GEOGRAPHICAL DATA AND NOTES ON TABLES SEE JANUARY 1963.

JUNE 1963 .

(1)

حزيران ١٩٦٣

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (مئوية)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	26.6	24.9	28.3	29.0	34.3	33.4
2	24.7	26.3	28.8	24.4	29.0	31.0
3	27.1	27.1	28.0	25.4	30.1	31.0
4	27.5	27.1	29.4	27.7	32.3	32.2
5	30.4	29.7	32.6	29.9	34.5	35.6
6	31.2	31.9	32.8	30.9	37.0	36.0
7	31.2	30.9	32.7	31.0	33.3	33.0
8	31.6	31.8	33.3	31.3	34.3	34.9
9	28.1	29.7	30.2	26.7	30.6	31.3
10	26.9	28.7	29.7	25.8	30.5	32.1
11	23.6	26.7	26.8	23.5	28.4	28.8
12	27.1	26.9	27.8	25.8	29.0	29.0
13	30.1	29.0	29.8	26.9	30.7	30.8
14	30.6	29.7	30.8	28.4	31.8	32.9
15	29.2	29.7	30.8	26.7	30.8	31.8
16	27.8	29.2	28.9	25.8	30.3	29.8
17	29.6	29.7	30.8	28.0	30.9	30.1
18	31.7	31.8	32.8	29.3	33.1	32.9
19	33.2	32.7	33.3	31.1	34.3	34.8
20	28.3	29.6	30.9	27.0	31.7	32.1
21	28.6	30.1	30.4	27.2	30.9	31.9
22	30.3	30.6	30.4	27.8	31.8	31.7
23	30.2	30.6	30.8	28.2	32.0	31.6
24	32.3	32.1	33.6	29.2	32.7	31.3
25	33.5	32.3	35.0	30.2	33.8	34.6
26	34.7	32.9	34.7	30.9	34.8	33.3
27	34.8	34.8	36.2	31.8	35.6	36.0
28	35.9	34.4	36.8	32.4	36.0	35.8
29	36.1	36.2	36.9	32.4	36.9	34.9
30	35.9	35.8	36.5	33.3	36.1	36.1
MEANS	30.3	30.4	31.7	28.6	32.5	32.6
DEPARTURE FROM NORMAL	.....	+0.5	-0.2	0.0	0.0	-0.3

NOTE: AT SINJAR , OBSERVATIONS 0000& 2100 ARE MISSED.

TIME : G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

TABLE 1-b. المعدل اليومي لدرجات الحرارة (لمنفراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSRVATIONS :

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	37.8	33.7	34.9	34.9	33.5	32.3
2	32.2	35.2	32.6	32.3	34.3	35.0
3	33.6	33.7	31.7	32.1	33.0	32.6
4	34.5	35.4	32.9	33.6	34.6	32.7
5	38.1	36.5	35.3	36.1	35.6	34.0
6	39.8	35.9	36.9	36.7	36.1	35.2
7	38.0	34.7	36.1	34.0	33.1	34.0
8	39.0	36.2	37.2	35.4	35.3	33.6
9	35.1	34.7	33.4	32.4	33.5	33.6
10	34.4	33.9	32.6	33.8	34.3	32.8
11	29.3	32.3	31.2	30.0	30.9	31.9
12	32.2	31.4	31.1	30.2	29.7	29.9
13	34.7	33.0	31.6	31.7	30.8	29.4
14	36.3	34.7	33.7	32.9	31.0	31.4
15	33.2	35.0	33.6	32.8	33.8	32.4
16	32.2	31.7	32.2	30.9	30.6	31.0
17	34.1	31.5	32.5	31.1	29.1	30.0
18	36.8	34.2	34.6	33.1	30.6	30.1
19	38.2	36.6	36.0	34.9	34.2	35.3
20	36.3	36.7	34.6	33.6	33.1	33.2
21	34.7	33.9	33.1	33.1	32.8	33.2
22	35.0	33.6	33.9	32.4	32.4	32.2
23	36.4	33.3	34.2	32.8	31.9	32.2
24	36.7	33.5	34.2	33.8	31.6	31.6
25	38.3	34.8	36.5	34.2	33.1	31.9
26	40.2	34.6	36.7	35.0	34.2	34.1
27	40.5	37.2	37.4	36.1	34.7	34.1
28	41.0	38.7	38.4	36.9	36.2	35.2
29	40.7	36.5	38.6	35.6	34.2	35.0
30	40.5	36.5	38.9	36.4	34.4	34.4
MONS	36.3	34.7	34.6	33.6	33.1	32.8
DEPARTURE FROM NORMAL	....	+1.4	....	+1.4	+0.5	+0.1

NOTE : AT NUKHAIB , OBSERVATION 0000, 0300, 1800, 2100, ARE MISSED
AT HAI , OBSERVATION 2100 IS MISSED.

TABLE 2-B. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DAYS	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1005.2	1006.2	1006.4	1004.0	1003.2	1004.0
2	09.0	09.0	08.2	09.8	08.3	07.8
3	11.4	11.1	11.0	10.7	10.1	10.1
4	10.7	10.6	09.8	09.1	08.0	07.9
5	07.9	07.9	07.3	06.7	05.6	05.8
6	06.6	06.6	05.7	05.9	04.1	04.3
7	04.9	05.0	04.0	06.5	04.7	04.4
8	01.7	02.6	02.3	03.4	03.2	02.3
9	04.4	04.3	04.4	06.8	05.1	04.7
10	07.5	07.3	07.1	08.4	06.3	06.3
11	09.9	08.7	08.6	10.8	09.0	08.3
12	12.0	11.7	11.0	12.9	10.9	10.6
13	09.3	09.0	08.2	11.0	08.4	07.9
14	04.4	05.0	04.7	06.5	04.3	04.2
15	00.3	00.7	00.3	04.2	01.2	00.8
16	02.9	02.1	02.7	07.2	05.9	03.8
17	04.7	04.6	03.8	08.1	04.0	03.3
18	04.3	04.0	02.7	06.9	02.1	01.1
19	01.8	02.5	01.8	04.4	01.7	01.0
20	02.8	03.0	02.7	05.0	03.2	02.8
21	05.5	05.8	05.9	07.6	05.9	05.9
22	06.2	05.6	06.7	09.4	07.3	07.1
23	06.1	05.6	05.3	09.1	05.9	05.5
24	02.5	07.1	01.1	05.6	01.5	99.3
25	00.4	00.6	98.8	02.4	99.7	03.2
26	03.1	02.7	03.5	03.7	03.1	99.3
27	07.7	07.6	06.8	07.3	05.9	05.9
28	05.7	05.9	04.4	07.0	04.3	03.8
29	01.3	01.1	99.4	03.9	99.4	98.7
30	98.9	998.7	97.1	00.8	96.9	95.8
MEANS	1005.2	1005.4	1004.7	1006.8	1004.6	1004.5
DEPARTURE FROM NORMAL	+...	+1.7	+0.2	+0.9	+1.1	+1.4

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1012.4	12th	0900	1963	997.5	30th	1500	1963	1963
MOSUL	1012.8	12th	0600	1963	996.5	30th	1500	1963	
KIRKUK	1011.8	12th	0300	1963	995.2	30th	1500	1963	
RUTBAH	1013.4	13th	0300	1963	999.6	30th	1500	1963	
HABBANIYA	1011.9	12th	0600	1963	995.6	30th	1500	1963	
BAGHDAD	1011.6	12th	0600	1963	995.0	30th	1200	1963	
SINJAR	1012.4	12th	0900	1963	995.8	28th	1500	1962	RECORDS
MOSUL	1017.1	1st	0300	1952	992.8	29th	1800	1960	
KIRKUK	1014.4	1st	0300	1952	991.2	1st	1500	1951	
RUTBAH	1018.3	1st	0300	1952	997.3	30th	1200	1944	
BAGHDAD	1013.1	4th	0600	1937	992.5	29th	1500	1960	

TABLE 2-b. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DAYS	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1002.4	1006.2	1002.2	1005.0	1005.9	1007.7
2	09.0	06.4	06.2	07.3	06.4	07.0
3	09.9	08.2	07.8	09.2	07.7	07.3
4	07.6	05.3	05.8	07.0	05.7	05.3
5	05.5	04.1	03.7	05.3	04.0	04.2
6	04.1	03.9	02.8	04.4	03.7	04.1
7	05.4	03.9	03.6	04.9	04.2	04.1
8	02.0	02.6	01.1	02.8	02.7	03.0
9	06.9	03.7	03.5	04.7	03.9	03.6
10	05.9	05.2	04.3	05.6	05.0	05.0
11	10.2	06.0	06.8	07.7	06.0	05.4
12	11.6	08.5	09.4	10.2	09.2	08.7
13	09.0	06.0	06.8	07.8	06.6	06.7
14	04.1	02.5	02.8	04.1	02.9	03.1
15	01.8	99.8	99.4	01.0	99.8	99.7
16	05.6	02.1	02.4	03.7	02.5	02.4
17	05.9	01.5	02.3	03.5	02.4	02.6
18	03.0	98.8	99.6	00.6	99.2	99.3
19	02.2	98.4	99.3	00.6	98.8	99.2
20	02.9	00.9	01.1	02.5	01.1	00.7
21	05.9	04.3	04.0	05.2	04.0	03.7
22	07.7	05.9	05.6	06.8	05.9	05.8
23	06.5	03.8	04.2	05.5	04.0	04.2
24	02.6	99.9	99.9	01.4	00.3	01.7
25	99.4	98.8	98.0	99.9	99.3	00.2
26	01.3	03.1	01.6	03.3	03.2	03.7
27	04.4	05.7	04.1	05.7	05.0	05.5
28	04.6	02.3	02.3	03.8	02.7	02.7
29	01.0	98.5	97.9	99.3	98.8	99.6
30	97.4	94.9	94.4	96.3	95.0	95.4
MEANS	1004.9	1002.9	1002.8	1004.2	1003.2	1003.4
DEPARTURE FROM NORMAL	....	+1.2	....	+1.8	+1.3	+2.1

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
NUKHAIB	1013.0	12th	0600	1963	995.8	30th	1500	1963	
HAI	1009.2	3 rd	0900	1963	994.0	30th	1500	1963	
NAJAF	1009.4	12th	0300	1963	992.9	30th	1500	1963	1963
DIWANIYA	1011.1	12th	0600	1963	995.1	30th	1500	1963	
NASIRIYA	1010.1	12th	0900	1963	993.9	30th	1500	1963	
BASRAH	1009.7	12th	0900	1963	994.0	30th	1500	1963	
HAI	1012.6	1st	0300	1952	992.3	29th	1500	1960	RECORD
DIWANIYA	1012.7	1st	0600	1952	992.9	29th	1500	1960	
NASIRIYA	1012.4	8th	1800	1942	993.2	29th	1500	1960	
BASRAH	1011.7	9th	0600	1942	992.4	29th	1500	1960	

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TABLE - 3.

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELITIVE HUMIDITY (%) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	SIN-JAR	MO-SUL	KIR-KUK	RUT-BAH	HABB-NIYA	BAG-DAD	NUK-KHAIB	HAI	NA-JAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	37	52	31	21	31	29	15	33	31	21	29	50
2	39	44	33	34	37	31	22	31	30	31	33	49
3	32	42	30	29	38	28	18	26	24	25	23	49
4	25	41	27	25	30	27	18	22	27	23	22	54
5	22	39	19	20	25	19	18	24	23	20	27	57
6	22	34	23	21	21	20	12	34	22	23	30	56
7	24	38	25	21	28	25	15	28	18	26	40	66
8	23	35	23	17	31	27	10	32	16	32	33	63
9	27	36	24	26	37	27	12	30	20	27	38	69
10	32	43	25	28	43	23	18	29	25	23	24	66
11	34	49	30	35	35	28	22	33	23	29	42	62
12	27	44	29	29	37	32	20	33	24	29	45	48
13	24	40	25	21	33	27	19	29	25	28	43	50
14	27	41	24	19	34	25	14	27	20	27	41	54
15	30	35	27	27	35	29	26	31	21	28	31	51
16	32	29	29	23	24	27	20	31	18	30	41	56
17	27	28	23	23	20	21	26	29	13	25	38	54
18	25	27	19	27	27	16	12	27	19	24	41	63
19	26	35	19	19	24	21	11	24	19	21	34	62
20	29	32	22	25	29	24	9	27	22	28	38	50
21	31	31	28	31	38	30	14	29	28	27	34	44
22	29	31	29	28	32	28	14	31	26	28	41	52
23	30	28	24	26	25	28	13	33	23	28	40	55
24	27	31	18	22	23	23	10	32	17	28	34	46
25	24	28	18	22	20	26	9	32	15	28	32	44
26	13	30	19	21	23	23	5	38	18	30	27	46
27	17	25	18	20	29	25	6	32	19	27	32	58
28	19	25	16	18	25	22	7	27	15	26	39	50
29	19	25	19	21	24	26	7	29	13	28	32	45
30	18	27	20	22	25	24	9	35	15	29	39	51
MEANS	26	34	24	24	29	25	14	30	21	27	35	54
NORMAL	..	33	21	26	25	23	..	26	..	29	33	49

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	56	0300	2nd	13	0900	27th
MOSUL	75	0300	3rd	12	1500	19th
KIRKUK	62	1500	1st	6	1200	26th
RUTBAH	58	0300	12th	8	1500	6 th
HABBANIYA	66	0300	10th	8	1200	25th
BAGHDAD	54	0300	12th	8	1200	18th
NUKHAIB	36	0600	17th	2	1200	6 th
HAI	69	0300	26th	16	1200	3 rd
NAJAF	55	0300	13th	6	1500	24th
DIWANIYA	62	0300	8th	9	1200	1 st
NASIRIYA	64	2100	25th	7	0900	2 nd
BASRAH	91	0300	27th	19	0900	25th

TABLE 4-a . درجات الحرارة العظمى و الصغرى اليومية (سنتيغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الأيام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	31.2	20.8	34.8	16.4	35.4	24.6	38.3	27.8	37.3	22.
2	28.6	19.8	33.2	19.4	34.3	22.3	37.8	26.1	30.5	16.
3	30.4	20.6	25.9	15.6	34.5	19.1	36.7	19.4	32.7	16.
4	31.3	22.0	35.2	17.2	36.1	20.7	37.8	20.6	35.0	18.
5	35.4	23.2	39.0	17.8	39.2	21.7	40.6	21.1	38.0	20.
6	35.5	24.3	40.6	24.4	40.4	25.3	42.2	23.9	38.0	25.
7	35.1	24.4	39.8	19.2	39.6	27.9	40.6	25.6	38.5	21.
8	35.8	23.2	41.2	22.2	41.2	25.6	42.2	24.4	37.0	24.
9	31.6	24.0	37.4	22.6	37.0	24.0	39.4	23.3	33.1	19.
10	30.6	19.8	36.6	18.8	36.2	22.2	37.8	20.0	33.0	17.
11	26.8	18.3	32.8	21.6	33.1	21.3	36.1	20.6	29.5	16.
12	31.0	19.8	34.7	17.2	34.4	19.7	36.1	18.3	32.7	16.
13	34.2	22.1	37.8	18.2	37.5	20.3	39.0	18.3	36.0	15.
14	34.0	24.7	38.4	18.8	38.2	22.3	39.4	20.0	37.5	18.
15	34.2	23.6	38.2	20.2	39.4	23.2	40.6	23.9	32.0	20.
16	31.5	19.8	36.2	22.4	35.1	20.4	36.1	22.8	32.4	17.
17	33.8	20.5	38.2	19.2	37.4	22.0	38.3	18.3	35.5	18.
18	36.5	22.3	39.8	20.2	38.7	25.8	39.4	24.4	37.1	20.
19	36.6	25.0	41.4	20.4	40.9	25.1	41.7	23.3	39.4	19.
20	31.8	19.8	36.8	22.4	37.6	24.8	41.7	23.9	34.0	20.
21	31.5	24.0	37.4	21.2	37.2	23.0	37.8	20.0	34.8	19.
22	34.0	24.6	37.6	21.4	36.8	23.2	37.2	21.1	35.0	19.
23	35.0	21.6	40.2	19.4	38.9	22.5	38.9	21.1	35.8	20.
24	36.8	22.7	40.6	21.2	40.0	25.1	41.1	21.7	36.4	19.
25	38.0	23.2	42.0	20.8	42.6	26.8	43.9	22.2	38.5	20.
26	37.6	25.4	42.8	21.4	42.9	26.6	42.8	25.0	39.4	22.
27	38.5	25.8	42.8	23.1	44.0	27.0	44.4	26.1	39.6	23.
28	39.6	26.5	42.8	22.8	43.1	28.4	44.4	25.6	40.5	21.
29	39.8	27.0	43.4	27.7	42.5	29.7	43.3	24.4	40.3	22.
30	39.5	26.4	43.4	27.2	42.6	30.0	43.3	31.1	40.6	25.
MEANS	34.4	22.9	38.4	20.7	38.6	24.0	40.0	22.8	36.0	19.9
DEPARTURE FROM NORMAL	....	....	-1.1	+2.0	-0.6	+0.6	-0.7	+0.3	-0.1	+1.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	40.6	27th	1962	17.5	10th	1962
MOSUL	47.6	23rd	1961	11.1	1st	1952
KIRKUK	47.8	23rd	1961	13.9	2nd	1943
KHANAQIN	47.2	23rd	1961	10.0	6th	1959
RUTBAH	44.5	17th	1949	7.8	22nd	1936

TABLE 4-b. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	43.8	26.6	41.7	26.7	42.0	25.0	40.2	23.2
2	36.1	22.4	37.0	25.0	35.8	21.4	41.0	26.2
3	38.2	20.7	37.5	23.7	37.0	18.5	39.6	23.8
4	40.5	22.8	39.5	20.5	37.6	21.5	41.3	25.2
5	44.4	24.8	42.0	26.7	41.8	25.2	43.2	25.0
6	44.4	26.8	43.4	24.9	43.0	27.2	43.4	26.2
7	41.8	25.5	40.3	25.5	42.2	23.5	40.6	25.9
8	46.0	24.2	44.0	24.7	43.0	24.0	43.6	24.0
9	38.1	24.4	37.7	22.4	38.5	23.0	40.5	26.2
10	39.3	20.6	37.7	25.2	38.6	20.8	39.8	24.4
11	34.3	22.7	34.8	22.8	32.5	20.6	37.8	25.3
12	36.7	20.2	36.5	19.8	35.4	19.0	37.2	21.6
13	39.4	21.4	39.0	21.5	38.0	19.3	39.3	22.3
14	40.6	21.7	40.2	23.5	40.0	19.2	41.0	23.8
15	37.9	22.8	39.4	23.5	37.3	24.3	41.2	23.0
16	37.0	24.0	36.3	23.0	35.6	22.1	37.2	23.3
17	38.9	21.5	38.3	20.5	38.0	20.1	37.6	22.0
18	41.0	23.6	40.8	22.0	40.0	23.5	41.8	22.9
19	43.2	25.5	43.0	25.5	41.5	24.0	43.2	24.7
20	39.0	26.2	39.2	22.8	40.6	25.8	42.7	26.6
21	38.9	21.9	38.2	25.4	39.5	20.6	39.2	24.1
22	39.2	23.4	38.0	23.5	39.4	21.4	38.2	23.0
23	40.4	23.5	39.7	22.0	40.2	21.4	38.6	23.3
24	41.0	23.4	40.5	21.8	40.3	20.6	40.6	23.6
25	42.8	23.9	42.8	23.2	41.2	23.5	42.0	23.2
26	43.9	23.5	42.0	23.4	43.5	22.3	42.8	21.2
27	45.5	26.1	44.5	24.8	44.4	24.5	43.9	25.4
28	45.0	27.0	44.5	23.7	43.5	25.6	45.4	29.3
29	44.7	25.2	44.0	24.4	43.3	24.5	42.8	25.3
30	44.9	27.6	45.0	27.5	43.2	26.3	43.2	25.9
MEANS	40.9	23.8	40.3	21.9	39.9	22.6	39.0	24.3
DEPARTURE FROM NORMAL	-0.3	+0.5	-0.6	-1.4	....	....	-2.6	-0.5

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	48.9	24th	1942	15.6	3rd	1943
BAGHDAD	48.3	18th	1949	14.4	4th	1943
HAI	49.5	26th	1942	18.3	1st	1943

JUNE 1963 .
TABLE 4-a.

حزيران ١٩٦٣

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMERATURES (C°)

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	45.0	26.7	42.8	26.0	40.8	23.6	40.0	23.t
2	38.8	26.7	39.0	27.4	44.0	26.8	43.8	26.1
3	38.6	23.2	40.0	22.2	40.4	25.2	37.5	27.9
4	39.8	24.0	41.6	24.6	42.0	26.0	38.0	27.3
5	44.5	24.0	45.0	25.1	44.2	26.0	40.0	28.4
6	44.5	25.9	45.6	27.1	44.8	28.8	41.6	28.5
7	44.2	28.2	41.6	27.7	39.1	28.7	38.0	30.0
8	46.8	26.7	46.2	24.6	44.5	27.0	39.4	28.8
9	40.1	26.3	39.3	24.6	38.2	28.2	37.7	28.7
10	40.2	23.4	41.8	24.4	41.5	26.6	38.0	28.5
11	39.4	25.2	37.1	23.5	35.7	26.7	36.5	26.8
12	38.4	22.4	37.6	21.0	34.6	25.4	33.8	26.1
13	39.7	22.6	39.3	22.6	34.7	25.6	35.7	26.0
14	41.9	23.4	41.2	23.0	36.8	26.2	35.3	26.7
15	40.9	23.3	41.2	22.0	40.9	26.4	39.4	26.5
16	38.5	25.7	37.6	25.2	36.0	26.0	36.4	26.2
17	39.3	23.4	38.6	22.6	35.0	23.6	35.0	24.6
18	42.2	26.2	41.5	24.6	38.5	24.1	36.5	24.4
19	44.2	26.2	44.1	24.5	44.1	26.0	39.5	25.3
20	42.4	25.8	42.7	24.8	40.9	27.4	39.5	26.5
21	40.7	24.1	40.5	23.6	39.8	26.4	38.7	28.0
22	40.7	25.7	39.6	24.4	37.8	27.2	37.2	28.1
23	40.6	26.5	40.0	24.0	36.7	28.0	36.8	28.3
24	41.3	25.8	40.0	25.7	37.8	27.6	36.9	28.2
25	44.3	27.2	43.6	25.4	41.5	24.0	40.0	24.5
26	44.8	26.3	44.4	23.2	43.6	23.4	42.0	26.2
27	46.2	26.2	46.2	24.6	44.5	25.0	41.1	26.5
28	47.0	28.8	46.1	26.6	44.2	26.4	41.0	27.6
29	46.4	28.4	44.2	27.0	42.7	29.1	40.6	30.2
30	46.0	30.7	45.0	28.2	40.7	28.5	39.6	29.4
MEANS	42.2	25.6	41.8	24.7	40.2	26.3	38.2	27.1
DEPARTURE FROM NORMAL	....	....	+1.1	+2.2	-0.2	+1.4	-0.3	+0.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	47.0	2nd	1962	14.4	1st	1942
NASIRIYA	48.3	27th	1955	18.3	26th	1943
BASRAH	48.2	26th	1957	20.5	1st	1952

TABLE 5 . المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES(°C)

	T I M E - G . M . T .								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	25.7	29.1	31.8	33.5	32.9	28.2	...	30.2
MOSUL	23.7	22.5	30.2	36.1	37.8	36.4	30.6	26.6	30.5
KIRKUK	25.9	25.8	33.0	36.5	37.9	36.4	30.3	27.5	31.7
KHANAQIN	....	24.7	33.9	38.0	39.6	38.0	32.3	....	34.4
RUTBAH	22.4	21.0	27.9	32.8	35.8	34.8	29.2	25.3	28.7
HABBANIYA	25.7	24.7	32.5	38.6	40.2	38.5	31.8	28.2	32.5
BAGHDAD	26.3	24.8	32.2	37.9	39.8	38.2	31.9	29.2	32.5
NUKHAIB	....	....	31.3	37.0	38.9	38.2	....	....	36.4
HAI	....	25.2	33.7	39.4	40.4	37.8	31.7	....	34.7
NAJAF	28.0	26.7	34.0	39.7	41.7	40.3	34.4	31.2	34.5
DIWANIYA	26.6	25.7	34.2	39.9	41.6	39.5	32.2	28.9	33.6
NASIRIYA	28.2	27.4	32.5	37.5	39.2	37.0	32.5	30.1	33.1
BASRAH	28.9	27.9	32.7	35.9	37.7	35.9	32.1	30.5	32.7

TABLE 6. MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS) معدل ضغط البخار (ملليبارات)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	10.5	10.9	11.2	8.0	10.7	10.8	....	10.3
MOSUL	13.7	13.6	14.5	14.5	13.3	12.3	13.9	13.6	13.8
KIRKUK	10.4	11.0	11.6	9.8	8.8	8.7	10.7	10.5	10.2
KHANAQIN	....	10.1	11.4	10.8	10.3	10.0	10.7	....	10.6
RUTBAH	9.0	9.8	9.9	8.4	7.5	7.4	8.1	8.7	8.6
HABBANIYA	13.3	13.6	14.1	13.0	12.2	13.5	14.2	15.8	13.7
BAGHDAD	11.4	12.0	13.3	11.3	10.8	10.6	11.9	10.3	11.5
NUKHAIB	....	....	9.3	7.8	7.2	7.2	....	....	7.9
HAI	....	14.1	17.8	16.1	15.7	16.0	14.8	....	15.8
NAJAF	10.8	10.5	11.2	10.3	10.4	10.0	11.3	10.9	10.7
DIWANIYA	12.6	13.5	13.9	12.6	11.8	12.0	13.4	13.1	12.9
NASIRIYA	14.1	15.3	17.2	15.8	15.6	18.2	20.7	17.6	16.8
BASRAH	24.8	24.6	25.9	26.4	26.3	26.5	28.9	26.2	26.2

TABLE 7 . MONTHLY MEAN WET-BULB TEMPERATURES(C) معدل حرارة البصلة الرطبة (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	16.0	17.5	18.7	19.4	19.2	17.3	....	18.0
MOSUL	16.8	16.3	15.8	21.9	21.8	20.8	19.5	17.8	19.3
KIRKUK	16.0	16.3	19.3	19.8	19.8	19.2	17.7	16.7	18.1
KHANAQIN	....	15.4	19.6	20.7	21.0	20.4	18.7	....	19.3
RUTBAH	13.8	13.7	16.6	17.8	18.4	18.1	16.3	15.0	16.2
HABBANIYA	17.4	17.1	20.2	21.9	22.1	22.0	20.1	18.5	19.9
BAGHDAD	16.4	16.5	23.2	21.1	21.4	22.7	19.0	17.7	19.8
NUKHAIB	....	....	17.6	19.0	19.6	19.3	....	....	18.9
HAI	....	17.0	21.5	22.5	22.6	22.0	19.8	....	20.9
NAJAF	17.0	16.5	19.6	21.1	21.8	21.2	19.7	18.3	19.4
DIWANIYA	17.2	17.5	20.8	22.1	22.4	21.7	19.8	18.5	20.0
NASIRIYA	18.7	19.0	21.6	22.8	23.1	23.5	23.0	21.0	21.6
BASRAH	23.5	23.1	25.0	26.3	26.6	26.3	26.0	24.5	25.2

TABLE 8. MONTHLY MEAN DEW-POINT(C) معدل درجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	7.6	8.1	8.5	8.6	8.1	7.9	...	8.1
MOSUL	11.4	11.3	12.7	12.7	11.1	9.7	11.9	11.2	11.5
KIRKUK	7.2	8.1	8.7	6.3	4.7	4.4	7.3	7.5	6.8
KHANAQIN	...	6.9	8.6	7.8	7.1	6.7	7.8	...	7.5
RUTBAH	5.2	6.5	6.7	4.4	2.6	2.6	3.9	4.9	4.6
HABBANIYA	10.9	11.1	11.8	10.5	9.7	10.9	11.8	11.1	11.0
BAGHDAD	8.9	9.5	11.0	11.3	7.8	7.5	8.9	8.5	9.2
NUKHAIB	...	...	5.4	2.8	1.4	1.6	...	...	2.8
HAI	...	11.9	15.4	14.0	13.5	13.7	12.6	...	13.5
NAJAF	7.7	7.3	8.3	7.0	7.1	6.5	8.3	7.7	7.5
DIWANIYA	10.1	11.2	11.7	10.1	9.1	9.4	11.1	10.7	10.4
NASIRIYA	11.8	13.1	14.7	13.3	12.8	15.6	17.8	15.1	14.3
BASRAH	20.7	20.6	21.3	21.8	21.6	22.0	23.2	21.5	21.6

E 1963 .
LE - 9 .

حزيران ١٩٦٣ (10) المعدل الشهرى للرطوبة النسبية ٪

MONTHLY MEAN RELATIVE HUMIDITY (٪)

	T I M E - G.M.T.								
TIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
JAR	,,	33	28	25	23	22	23	,,	26
UL	48	51	36	25	20	21	32	41	34
KUK	32	34	24	17	14	15	22	29	23
NAQIN	,,	39	22	16	15	15	22	,,	22
BAH	34	40	27	17	13	14	20	28	24
BANIYA	41	44	29	20	17	20	31	36	30
HDAD	34	38	28	18	14	16	26	28	25
HAIB	,,	,,	21	14	11	11	,,	,,	14
	,,	45	35	23	21	25	32	,,	30
AF	29	30	21	14	13	13	21	24	21
ANIYA	36	41	26	17	15	17	28	33	27
IRIYA	37	42	37	25	23	30	42	41	35
RAH	62	65	52	45	41	46	61	60	54

LE -10.

المعدل الشهرى للضغط الجوى على سطح البحر (ملليبارات)

MONTHLY MEAN PRESSURE (mbs.) AT M.S.L.

TIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
JAR	,,,,	06.0	06.0	05.7	04.6	04.1	05.4	,,,,	1005.
UL	06.0	06.7	06.5	05.6	03.8	03.4	04.7	05.6	1005.
KUK	05.2	05.7	05.4	04.7	03.5	03.1	04.9	05.2	1004.
NAQIN	,,,,	05.1	05.3	03.1	02.1	01.5	03.5	,,,,	1003.
BAH	06.8	07.5	07.7	07.3	06.4	04.4	06.3	06.6	1006.
BANIYA	04.9	05.3	05.8	05,2	03.9	03.3	04.1	04,8	1004.
HDAD	03.9	04.7	05.6	05.4	03.7	03.7	04.3	03.9	1004.
HAIB	,,,,	,,,,	06.8	05.6	03.9	03.0	,,,,	,,,,	1004.
	,,,,	03.1	03.9	03.7	02.6	02.0	02.8	,,,,	1003.
AF	02.4	03.3	03.7	03.9	02.2	01.5	02.4	02.4	1002.
ANIYA	03.8	04.5	05.3	05.1	03,7	03.	03.9	03.9	1004.
IRIYA	02.8	03.4	04.3	04.1	02.9	02.3	03.0	02.9	1003.
RAH	02.9	03.2	04.2	4.2	03.	03.	03.1	03.0	1003.

LE 11 .

المعدل الشهرى لكمية الغيم الواطئ بالاثمان

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

ATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
JAR	,,,	0.1	0.2	0.3	0.5	0.6	0.4	,,,	0.4
UL	0.5	0.6	0.5	0.4	1.2	1.0	0.5	0.6	0.7
KUK	0.1	0.4	0.3	0.4	0.4	0.4	0.2	0.2	0.3
NAQIN	,,,	0.0	0.5	0.3	0.4	0.4	0.3	,,,	0.3
BAH	0.2	0.1	0.0	0.2	0.4	0.5	0.5	0.2	0.3
BANIYA	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1
HDAD	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1
HAIB	,,,	,,,	5.4	2.8	1.4	1.6	,,	,,,	2.8
	,,,	0.0	0.0	0.0	0.0	0.0	0.0	,,	0.0
AF	0.1	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.1
ANIYA	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.1
IRIYA	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.1
RAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LE -12.

معدل مجموع كمية الغيوم (اثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

ATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
JAR	,,,	0.8	0.3	0.5	1.0	1.2	0.6	,,,	0.7
UL	0.7	1.1	1.1	1.6	1.8	1.5	0.8	0.8	1.2
KUK	0.2	0.4	0.4	0.4	0.5	0.6	0.2	0.3	0.4
NAQIN	,,,	1.0	0.5	0.4	0.4	0.4	0.3	,,,	0.5
BAH	0.3	0.3	0.4	0.6	0.6	1.1	0.8	0.7	0.6
BANIYA	0.6	0.5	0.4	0.2	0.2	0.4	0.5	0.5	0.4
HDAD	0.7	0.8	0.4	0.3	0.2	0.4	0.3	0.3	0.4
HAIB	,,,	,,,	0.2	0.2	0.1	0.1	,,,	,,,	0.2
	,,,	0.3	0.2	0.2	0.1	0.0	0.1	,,	0.2
AF	0.5	0.4	0.4	0.3	0.4	0.5	0.6	0.3	0.4
ANIYA	0.2	0.4	0.3	0.1	0.1	0.4	0.3	0.3	0.3
IRIYA	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1	0.1
RAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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TABLE 13-a.

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 بالعقد 1-10	11-21	22-33	34 فما فوق	معدل السرعة بالعقد MEAN V.K.
سنجار SINJAR	0300	17	1	2	0	0	0	3	5	2	17	5	3	3	13
	0600	7	0	2	0	0	2	7	2	4	12	10	3	1	12
	0900	3	0	4	1	4	0	15	1	2	10	12	6	0	14
	1200	2	0	3	0	7	2	11	2	3	7	14	6	0	15
	1500	1	0	2	0	6	0	15	4	2	13	13	2	0	13
	1800	12	0	1	0	2	0	13	1	1	23	4	2	0	9
	TOTAL	42	1	20	1	19	4	64	15	14	82	58	22	4	13
موصل MOSUL	0000	4	0	0	0	0	1	9	7	9	14	7	0	0	6
	0300	1	0	0	0	1	1	13	12	2	26	2	0	0	7
	0600	11	1	1	1	1	0	4	8	3	20	7	0	0	8
	0900	8	2	4	1	3	0	8	3	1	20	9	0	0	9
	1200	7	0	2	2	2	2	11	1	3	21	6	0	0	8
	1500	5	3	2	0	1	1	11	5	2	21	6	1	0	9
	1800	4	0	1	0	2	0	13	6	4	19	7	0	0	9
	2100	1	0	1	0	0	0	10	10	8	12	9	1	0	8
	TOTAL	41	6	11	4	10	5	79	52	32	153	53	2	0	8
كركوك KIRKUK	0000	0	10	0	2	0	0	0	1	17	9	4	0	0	3
	0300	0	8	2	0	0	0	0	0	20	8	2	0	0	2
	0600	1	4	2	2	0	0	1	1	17	9	4	0	0	3
	0900	2	1	1	2	2	0	10	3	6	23	1	0	0	4
	1200	2	0	1	1	1	3	12	7	4	23	3	0	0	6
	1500	0	2	0	1	0	3	12	4	8	19	3	0	0	5
	1800	0	4	1	0	1	0	3	1	20	8	2	0	0	2
	2100	0	8	0	1	0	0	0	0	21	7	1	0	1	3
	TOTAL	5	37	6	8	6	10	38	17	143	106	20	0	1	4
خانقين KHANAQIN	0300	0	0	10	0	7	0	1	0	12	18	0	0	0	2
	0600	1	1	6	0	4	0	8	1	9	20	1	0	0	4
	0900	5	0	1	0	4	0	14	3	3	26	1	0	0	5
	1200	2	0	0	0	7	0	10	9	2	27	0	1	0	6
	1500	1	0	0	0	11	0	14	7	0	30	0	0	0	5
	1800	0	0	2	0	3	0	6	2	17	13	0	0	0	2
	TOTAL	9	1	19	0	36	0	50	22	43	134	2	1	0	4
رطبة RUTBAH	0000	3	0	0	0	2	0	6	8	11	10	6	3	0	7
	0300	2	0	0	0	1	2	8	7	10	14	6	0	0	5
	0600	8	1	1	0	0	1	7	6	6	18	6	0	0	6
	0900	6	1	1	0	4	0	10	4	4	16	9	1	0	8
	1200	4	1	0	0	2	3	13	5	2	16	11	0	1	11
	1500	2	0	0	0	1	1	12	10	4	16	9	1	0	9
	1800	7	0	2	0	0	0	7	5	9	17	4	0	0	5
	2100	2	0	3	0	1	0	5	10	9	15	6	0	0	6
	TOTAL	34	3	7	0	11	7	68	55	55	122	57	5	1	7

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ABLE 13-b.

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	CA= LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	معدل السرعة بالعقد MEAN V. K.
حبانية ABBANIYA	0000	0	1	0	0	0	0	18	4	7	18	4	1	0	7
	0300	1	0	2	0	0	0	15	7	5	20	5	0	0	8
	0600	2	2	0	0	3	0	14	8	1	12	16	1	0	12
	0900	2	1	1	1	3	0	12	10	0	10	18	2	0	13
	1200	2	0	0	1	3	1	12	11	0	12	18	0	0	12
	1500	3	1	0	1	1	0	14	10	0	19	11	0	0	10
	1800	1	0	2	1	0	0	13	6	7	22	1	0	0	5
	2100	1	0	1	0	0	1	12	4	11	18	1	0	0	5
	TOTAL	12	5	6	4	10	2	110	60	31	139	74	4	0	9
بغداد AGHDAD	0000	3	1	0	0	1	0	6	10	9	21	0	0	0	4
	0300	6	1	0	1	0	0	1	16	5	20	5	0	0	6
	0600	5	2	0	2	0	0	3	15	3	14	13	0	0	10
	0900	7	1	0	2	1	1	4	13	1	17	12	0	0	10
	1200	6	2	0	1	1	1	7	10	2	13	14	1	0	11
	1500	5	0	0	2	1	0	5	16	2	18	10	0	0	8
	1800	0	0	0	1	0	0	4	15	10	16	3	1	0	5
	2100	5	1	0	1	0	0	4	14	5	24	1	0	0	5
	TOTAL	37	8	0	10	3	2	34	109	37	143	58	2	0	7
نخيب UKHAIB	0600	7	1	2	0	0	0	12	6	2	16	11	1	0	11
	0900	2	1	1	2	2	0	17	4	1	14	14	1	0	11
	1200	3	0	1	0	5	0	13	7	1	11	16	2	0	12
	1500	0	0	1	0	4	2	16	6	1	19	6	4	0	11
	TOTAL	12	2	5	2	11	2	58	23	5	60	47	8	0	11
حي AI	0300	0	0	2	0	0	0	9	16	3	21	6	0	0	8
	0600	0	1	2	0	0	0	4	19	4	12	14	0	0	10
	0900	2	0	1	0	0	0	7	19	1	12	17	0	0	11
	1200	2	1	0	0	0	0	7	19	1	13	15	1	0	12
	1500	1	0	1	0	0	0	7	19	2	17	11	0	0	12
	1800	0	0	2	0	0	0	7	25	3	9	18	0	0	10
	TOTAL	5	2	8	0	0	0	34	117	14	84	81	1	0	11
نجف NAJAF	0000	16	1	1	0	2	0	2	4	4	16	19	0	0	9
	0300	16	1	0	1	0	0	5	4	3	15	11	1	0	10
	0600	17	2	2	0	1	0	1	2	0	14	13	3	0	13
	0900	17	3	3	0	2	2	0	1	2	12	13	3	0	13
	1200	21	1	4	1	1	1	0	1	0	14	12	4	0	14
	1500	18	4	5	1	0	1	1	1	0	16	14	4	0	12
	1800	17	2	4	1	0	0	2	1	3	22	4	0	0	6
	2100	19	2	0	2	0	0	1	3	3	18	8	1	0	9
	TOTAL	141	21	19	6	6	3	13	16	15	128	85	12	0	11

ABLE 13o.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه									SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CA-LM	1-10	11-26	22-33	34	
ديوانية DIWANIYA	0000	11	1	2	1	0	0	13	1	1	16	10	0	0	9
	0300	9	1	0	1	0	0	12	3	4	16	10	0	0	8
	0600	9	2	1	1	0	0	13	3	1	10	19	0	0	12
	0900	12	1	0	0	2	0	15	0	0	7	22	1	0	13
	1200	10	0	0	0	1	1	14	2	2	9	19	0	0	11
	1500	11	0	2	0	0	0	14	2	1	16	13	0	0	10
	1800	10	0	1	0	0	0	13	4	2	27	1	0	0	6
	2100	8	0	2	0	0	0	18	0	2	25	3	0	0	6
	TOTAL	80	5	8	3	3	1	112	15	13	126	100	1	0	9
ناصرية NASIRIYA	0000	8	0	0	1	1	0	7	9	4	23	3	0	0	7
	0300	6	0	0	1	0	0	12	8	3	27	0	0	0	5
	0600	4	0	0	1	1	0	10	12	2	20	8	0	0	8
	0900	1	0	0	1	0	0	13	15	0	22	8	0	0	10
	1200	4	0	1	0	0	0	14	11	0	20	10	0	0	9
	1500	4	0	4	0	0	0	14	7	1	25	4	0	0	7
	1800	2	0	1	1	0	0	9	11	6	22	2	0	0	5
	2100	5	1	0	1	1	1	10	7	4	25	1	0	0	6
	TOTAL	34	1	6	6	3	1	89	80	20	184	36	0	0	57
بصرة BASRAH	0000	7	0	0	1	0	2	8	11	1	24	5	0	0	6
	0300	9	1	0	0	0	0	7	11	2	26	2	0	0	5
	0600	9	0	0	0	0	0	5	12	4	18	8	0	0	8
	0900	8	0	1	0	0	0	0	20	1	14	15	0	0	10
	1200	8	0	1	0	0	0	1	20	0	14	16	0	0	10
	1500	8	0	1	0	0	0	1	19	1	27	2	0	0	6
	1800	10	2	1	0	0	0	1	14	2	25	3	0	0	6
	2100	9	0	1	0	1	1	4	11	3	25	2	0	0	6
	TOTAL	68	3	5	1	1	3	27	118	14	173	53	0	0	8

ABLE 14o.

اعلى سرعة رياح حدثت خلال ساعة واحدة

HIGHEST WIND-SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)		DIRECTION	TIME GMT.	DAY
SINJAR	40	Knots	360	0300	11th
MOSUL	28	"	180	1500	6th
KIRKUK	35	"	140	2100	1st.
KHANAQIN	23	"	180	1200	1st.
RUTBAH	35	"	180	1200	18th.
HABBANIYA	25	"	270	0900	7th.
BAGHDAD	22	"	290	1200	7th.
NUKHAIB	30	"	320	1500	18th.
HAI	22	"	320	1200	14th.
NAJAF	28	"	360	0300	11th.
DIWANIYA	23	"	360	0900	19th
NASIRIYA	16	"	320	0000	12th.
BASRAH	21	"	360	0900	3rd.

JUNE 1963 .
TABLE 15-a.

الهطول اليومي (ملليمترات) (14) حزيران ١٩٦٣

DAILY PRECIPITATIONS (MILLIMETERS)

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	[illegible]
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDA
1		tr.	2.5		tr.	0.5	0.3
2							
3							
4							
5					tr.		
6	tr.	tr.	0.6				
7		tr.			tr.		
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19					tr.		
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL	tr.	tr.	3.1		tr.	0.5	0.3
NORMAL	0.2	0.6	0.2	0.3	0.1	0.0	0.1

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
SINJAR	6.1	13th	1957
MOSUL	5.4	5th	1959
KHANAQIN	6.0	12th	1957
RUTBAH	1.7	2nd	1954
KIRKUK	2.7	12th	1957
HABBANIYA	0.5	1st	1963
BAGHDAD	2.5	2nd	1955

JUNE 1963 .
TABLE 15-b.

حزيران ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1			[illegible]			
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			tr.			
NORMAL	....	0.0	...	0.0	0.0	0.0

STATIONS	HIGHEST AMOUNT OF RAIN IN ONEDAY		DAY	YEAR
HAI	0.3	mm.	4th.	1957
DIWANIYA	tr.		11 th.	1944
NASIRIYA	tr.		4th	1957
BASRAH	tr.		2nd	1958

TABLE 15.

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة

NO. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجويـــــة

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	0	0	0	0	0	0	25	0	0
MOSUL	0	0	0	0	0	0	23	0	0
KIRKUK	2	0	0	2	0	0	28	0	0
KHANAQIN	0	0	0	0	0	0	28	1	0
RUTBAH	0	0	0	0	0	0	25	0	0
HABBANIYA	1	0	0	1	0	1	28	0	0
BAGHDAD	1	0	0	1	0	1	28	1	0
NUKHAIB	0	0	0	0	0	0	29	0	0
HAI	0	0	0	0	0	0	29	0	0
NAJAF	0	0	0	0	0	1	26	0	0
DIWANIYA	0	0	0	0	0	1	28	0	0
NASIRIYA	0	0	0	0	0	2	29	0	0
BASRAH	0	0	0	0	0	0	30	0	0

TABLE 16.

DURATION OF SUNSHINE : مدة سطوع الشمس :

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	354.7	13.0	12th	0
BAGHDAD	361.6	13.7	24th	0
HABBANIYA	357.4	13.2	12th	0
BASRAH	351.9	13.4	20th	0

TABLE -17.

MONTHLY MEAN OF , GRASS MINIMUM AND EARTH TEMPERATURES (C°) المعدل الشهري لحرارة العشب و التربـــــة

STATIONS	GRASS MINIMUM C° TEMPERATURE	EARTH TEMPERATURES 0.3 M	EARTH TEMPERATURES 1.2 M
MOSUL	....	28.0	22.3
KIRKUK	16.4	28.3	24.3
HABBANIYA	....	33.8	28.6
BAGHDAD	19.2	31.5	26.9
NAJAF	....	33.9	31.9
NASIRIYA	24.1	34.0	29.4
BASRAH	22.1	.....	....

الجمهورية العراقيـــــــــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــة

مفتشية الانواء الجوية العامـــة

شعبة المناخ

بغداد

* * * * *

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

= = = = = = =

معلومات مناخية لشهر تموز ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR JULY 1963

مجلد ٢٦ ، عدد (٧) تموز ١٩٦٣

VOLUME 26, No. (7) , JULY 1963.

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NOTE:

GEOGRAPHICAL DATA AND NOTES ON TABLES SEE JANUARY 1963.

JULY 1963 .
TABLE 1-a.

(١)

تموز ١٩٦٣

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	35.3	35.2	36.1	32.7	35.8	35.3
2	35.1	34.6	36.2	29.5	36.3	35.4
3	31.0	32.9	32.9	27.8	31.9	31.6
4	31.1	32.1	32.6	29.7	33.7	32.9
5	32.4	35.2	34.6	29.6	35.0	34.0
6	32.0	32.4	33.7	28.9	34.0	32.4
7	32.5	32.5	33.3	28.7	34.8	33.7
8	31.6	32.1	33.0	28.4	32.9	32.9
9	32.6	32.4	32.5	29.0	32.6	33.1
10	33.2	32.9	32.5	28.8	33.0	31.7
11	35.8	33.9	35.6	30.5	34.4	33.1
12	36.1	35.6	30.9	35.7	35.7	34.9
13	37.1	35.9	37.4	32.1	35.4	34.2
14	34.1	34.5	35.3	31.8	35.0	34.4
15	33.3	33.6	35.5	30.9	34.5	35.0
16	34.1	33.6	36.2	30.9	35.0	35.7
17	34.6	34.7	36.1	32.6	38.5	36.0
18	37.0	35.4	37.9	32.2	35.8	37.3
19	37.7	36.9	36.9	31.3	36.2	36.0
20	35.0	35.6	34.8	31.1	34.2	34.8
21	37.4	35.4	36.2	31.7	34.6	33.8
22	38.7	36.7	37.5	33.1	36.8	34.3
23	32.7	34.7	36.4	31.8	36.2	35.4
24	34.6	35.7	35.9	31.6	35.6	36.3
25	35.1	34.0	35.5	32.5	35.6	37.0
26	36.0	35.2	36.2	32.6	35.9	36.6
27	34.9	35.1	35.7	31.6	36.4	37.7
28	35.9	35.1	35.8	31.5	35.5	36.1
29	37.9	36.8	37.4	31.2	36.2	35.6
30	38.3	37.2	37.9	31.8	36.2	36.6
31	39.8	36.5	39.0	32.2	36.9	36.5
MEANS	34.9	34.7	35.6	30.9	35.2	34.8
DEPARTURE FROM NORMAL	....	-1.0	-0.5	-0.6	-0.3	0.0

NOTE: AT SINJAR , OBSERVATIONS 0000 & 2100 ARE MISSED.

TIME : G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

JULY 1963 .
TABLE 1-b.

(2)

تموز ١٩٦٣

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حسي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	40.1	37.7	39.1	36.1	35.1	34.9
2	37.1	37.9	38.3	36.0	37.3	35.0
3	34.8	35.0	35.8	33.9	34.4	34.4
4	38.1	35.1	36.0	34.0	34.7	33.9
5	36.8	36.4	36.6	34.1	34.9	33.9
6	35.6	35.6	33.[illegible]	33.6	34.3	32.9
7	35.7	35.7	36.0	33.6	32.5	34.0
8	36.4	35.1	35.3	34.2	31.4	32.1
9	36.6	34.9	34.3	33.3	30.7	31.9
10	36.5	35.4	34.4	32.8	30.7	31.7
11	37.8	33.9	35.5	33.5	32.0	32.3
12	38.4	34.8	37.5	35.1	33.3	32.9
13	39.3	35.7	37.4	34.3	34.1	33.5
14	37.9	34.6	36.9	35.9	36.0	34.2
15	38.8	34.1	37.3	35.9	36.0	35.1
16	38.4	35.3	38.3	35.4	36.9	35.5
17	40.6	35.5	38.4	36.7	37.6	35.5
18	40.8	36.7	38.9	37.5	37.4	35.7
19	39.2	37.6	39.1	36.1	36.8	36.1
20	37.9	36.0	37.8	34.4	33.8	34.7
21	39.5	35.7	36.7	33.8	32.9	33.7
22	40.7	34.3	37.7	34.2	34.7	33.7
23	38.8	36.0	37.5	35.7	36.5	35.8
24	38.7	35.6	38.2	37.3	38.3	35.9
25	39.9	36.5	38.5	36.8	37.1	36.1
26	40.3	37.8	38.4	36.8	36.5	37.1
27	39.0	37.3	38.8	36.9	35.8	35.9
28	38.8	37.1	37.9	35.3	34.3	34.8
29	41.5	35.3	37.9	35.3	34.6	32.5
30	38.2	35.3	38.3	35.3	35.5	33.9
31	39.4	36.2	39.3	36.5	36.2	35.1
MEANS	38.4	35.8	37.4	35.2	34.9	34.3
DEPARTURE FROM NORMAL	....	0.0	....	-0.3	-0.8	-0.5

NOTE: AT NUKHAIB , OBSERVATION 0000,0300,1800,2100 are MISSED.
AT HAI, OBSERVATION 0000 & 2100 ARE MISSED.

JULY 1963 .

(3) تموز ١٩٦٣

TABLE 2-a.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	997.9	997.8	996.9	999.3	997.0	996.5
2	97.4	97.7	97.2	00.1	97.7	97.2
3	98.[illegible]	98.9	99.3	01.7	00.5	00.8
4	00.3	00.5	00.6	01.3	00.2	00.3
5	00.1	00.1	00.1	01.8	00.0	00.1
6	02.1	01.9	01.5	03.8	01.6	01.6
7	01.9	01.9	01.7	04.9	2[illegible].3	01.7
8	01.6	01.3	00.4	04.6	01.5	01.1
9	00.7	00.9	00.3	03.9	01.2	00.5
10	01.9	01.8	01.5	05.0	02.1	01.6
11	99.7	99.6	97.9	03.7	99.5	98.4
12	96.3	96.1	94.4	01.0	96.1	95.0
13	95.0	95.4	94.8	99.1	96.0	95.0
14	96.4	96.5	97.4	99.4	97.9	97.8
15	98.8	98.8	99.1	00.5	99.0	98.7
16	99.9	00.2	99.7	00.5	99.1	99.2
17	00.9	01.0	00.6	00.5	99.7	99.7
18	01.1	00.9	99.[illegible]	01.7	98.3	98.8
19	00.3	99.9	99.5	03.8	00.3	99.6
20	01.1	00.7	00.8	04.4	01.8	01.2
21	98.2	97.7	97.2	01.7	97.6	98.2
22	93.5	98.3	93.8	98.3	95.1	94.5
23	95.5	95.9	96.2	98.2	96.4	96.1
24	00.4	00.4	00.4	01.4	00.0	99.6
25	03.0	03.4	02.8	03.3	02.3	02.0
26	02.3	02.3	01.1	02.3	00.6	99.6
27	99.8	99.9	99.0	01.6	98.7	97.9
28	98.3	98.3	97.4	01.4	98.2	97.4
29	97.9	98.0	96.7	02.0	98.4	97.6
30	97.9	97.8	96.5	01.2	97.7	96.7
31	96.4	96.7	95.8	00.2	97.0	96.3
MEANS	999.2	999.4	998.7	1001.7	999.2	998.7
DEPARTURE FROM NORMAL	....	-0.9	-1.3	+0.8	-0.2	-0.2

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
SINJAR	1004.0	25th	0300	1963	992.1	22[illegible]	1500	1963
MOSUL	1004.8	25th	0300	1963	992.2	22[illegible]	1500	1963
KIRKUK	1003.8	25th	0600	1963	992.0	12th	1500	1963
RUTBAH	1006.1	8th	0300	1963	996.9	22[illegible]	1800	1963
HABBANIYA	1003.7	7th	0600	1963	993.4	22nd	1500	1963
BAGHDAD	1003.0	7th	0600	1963	993.2	22nd	1200	1963
SINJAR	1005.8	4th	1800	1962	992.1	22nd	1500	1963
MOSUL	1015.0	23rd	0600	1941	990.2	22nd	1300	1939
KIRKUK	1007.4	12th	0300	1958	990.3	26th	1800	1950
RUTBAH	1010.8	2nd	0600	1944	993.8	26th	1200	1950
BAGHDAD	1008.5	4th	18&21	1957	990.0	19th	0600	1948

1963

RECORD

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TABLE 2-b. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURES (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الأيام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	997.8	995.0	994.9	996.9	995.8	995.1
2	98.1	96.4	95.9	97.9	97.3	97.0
3	01.1	00.2	99.2	01.2	00.6	00.9
4	99.1	99.8	98.5	00.6	00.5	01.3
5	01.3	99.7	98.7	00.6	99.9	00.4
6	03.0	00.3	99.7	01.5	00.5	00.1
7	03.2	99.3	00.1	01.5	99.7	98.4
8	02.6	98.2	99.3	00.8	99.0	98.2
9	02.2	97.8	99.2	00.6	99.1	98.6
10	03.6	99.0	00.2	01.7	99.7	99.1
11	01.1	97.1	97.5	99.0	97.8	97.6
12	97.8	93.9	95.3	95.7	94.5	94.4
13	97.3	95.0	94.6	96.7	95.9	96.4
14	98.2	96.8	96.1	97.9	97.3	96.6
15	99.3	97.6	96.9	98.7	98.0	98.3
16	99.5	98.1	97.4	99.4	98.8	99.3
17	98.9	98.9	97.7	99.7	98.8	99.1
18	99.1	97.6	97.3	99.0	98.1	98.0
19	02.1	97.7	98.2	99.7	98.5	98.4
20	02.8	98.9	99.6	01.1	99.7	98.8
21	99.5	97.1	97.1	98.7	97.6	97.3
22	95.8	94.6	93.5	95.7	95.5	95.8
23	96.7	95.5	94.5	96.3	96.2	97.2
24	00.4	98.4	97.8	99.6	99.4	00.3
25	02.3	00.3	00.3	01.8	01.0	01.6
26	00.9	97.8	98.5	99.9	98.6	97.9
27	99.3	95.4	95.9	97.8	96.3	95.7
28	99.5	95.4	96.2	97.8	96.3	95.7
29	00.1	96.2	96.6	98.3	97.1	97.1
30	00.2	95.6	95.7	97.6	96.5	96.8
31	98.2	95.1	95.2	97.1	95.8	95.9
MEANS	1000.2	997.4	997.3	999.1	998.1	998.0
DEPARTURE FROM NORMAL	....	-0.4	....	-1.1	-0.3	-0.7

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1005.6	7th	0600	1963	994.8	22nd	1200	1963
HAI	1001.8	25th	0600	1963	992.7	12th	1500	1963
NAJAF	1001.9	7th	0300	1963	991.7	22nd	1800	1963
DIWANIYA	1002.6	25th	0900	1963	994.4	12th	1500	1963
NASIRIYA	1002.3	25th	0600	1963	993.2	23rd	0000	1963
BASRAH	1002.3	25th	0900	1963	993.5	12th	1500	1963
HAI	1006.8	4th	0900	1957	990.2	3rd	0000	1959
DIWANIYA	1007.9	12th	0600	1958	991.1	26th	1500	1954
NASIRIYA	1006.7	4th	0600	1957	991.3	22nd	1500	1956
BASRAH	1006.0	4th	0900	1957	990.3	3rd	1500	1959

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TABLE - 3. المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (٪) OF 8 OBSERVATIONS

الايام DATE	سنجار SIN-JAR	موصل MO-SUL	كركوك KIR-KUK	رطبة RUT-BAH	حبانية HABB-NIYA	بغداد BAG-HDAD	نخيب NUK-HAIB	حي HAI	نجف NA-JAF	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BAS-RAH
1	19	25	19	17	25	23	10	29	14	28	42	58
2	19	25	21	22	26	24	17	31	16	27	27	59
3	26	31	25	35	34	29	17	33	21	32	37	55
4	30	34	25	25	37	33	21	37	18	35	37	56
5	29	32	24	26	30	31	23	33	17	32	39	60
6	30	34	23	38	32	29	21	32	16	27	43	60
7	29	31	27	30	37	26	22	32	18	31	45	49
8	28	31	22	27	35	23	16	29	16	22	42	45
9	29	22	16	24	29	23	12	28	19	23	40	44
10	26	23	17	25	23	27	18	27	19	28	35	42
11	26	22	17	18	22	22	19	31	17	28	34	41
12	23	21	20	20	26	20	21	33	13	27	33	43
13	22	25	20	22	31	26	16	32	17	31	37	50
14	25	22	19	22	30	28	17	39	18	29	30	56
15	23	23	17	24	29	25	15	42	19	29	36	48
16	23	24	16	15	29	24	9	35	15	29	35	52
17	22	21	17	16	29	24	14	37	14	24	31	50
18	18	22	11	21	28	19	16	28	14	26	31	49
19	17	17	15	20	28	20	24	27	12	31	34	49
20	20	25	17	22	31	20	24	28	14	27	35	40
21	18	26	18	25	34	25	21	29	16	32	36	50
22	18	23	20	23	34	33	20	33	18	37	32	52
23	26	26	22	24	30	32	18	36	19	36	25	51
24	22	24	19	21	32	28	15	37	18	32	33	49
25	24	27	18	23	32	22	18	34	17	31	38	57
26	22	20	16	26	33	23	22	28	16	26	34	46
27	23	21	15	23	32	20	21	28	18	26	37	40
28	21	21	17	26	31	23	22	29	20	30	38	40
29	20	20	23	22	31	28	23	34	18	34	33	52
30	20	19	19	24	29	26	21	36	18	32	31	59
31	19	24	19	21	22	26	24	34	17	28	34	60
MEANS	23	24	19	23	30	25	19	32	17	29	35	50
NORMAL	..	26	19	24	23	22	..	25	..	28	30	49

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	35	0300	[illegible]	15	1500	1st
MOSUL	61	0300	8th	9	1200	19th
KIRKUK	44	0300	7th	5	1500	18th
RUTBAH	70	0300	6th	5	1200	2nd
HABBANIYA	69	0300	4th	8	1200	16th
BAGHDAD	53	0300	4&6th	9	1200	19th
NUKHAIB	34	0600	31st	6	1500	16th
HAI	64	0300	15th	18	1200	2nd
NAJAF	38	0300	9th	5	1200	1st
DIWANIYA	57	0300	22th	11	1200	5th
NASIRIYA	74	0300	17th	10	1200	2&17th
BASRAH	90	2100	3rd	24	1500	16th

TABLE 4-a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
TE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN
1	39.5	27.3	42.8	24.6	42.7	29.7	43.3	26.1	40.0	24.6
2	39.6	26.8	44.2	22.4	44.1	28.5	44.4	25.0	35.8	22.3
3	34.7	25.6	38.4	23.2	39.9	24.6	41.7	25.6	34.0	19.8
4	35.0	24.2	38.2	23.2	39.5	24.1	38.9	24.4	36.1	22.3
5	35.5	25.0	41.2	24.8	41.7	26.9	41.1	25.6	35.6	22.5
6	35.6	24.3	40.2	22.8	40.6	26.2	40.6	23.9	35.4	22.0
7	35.4	24.0	39.6	23.4	39.6	25.0	40.0	23.9	35.0	21.8
8	35.6	26.4	40.2	22.6	40.5	24.5	41.1	23.3	35.4	21.6
9	36.5	24.4	41.0	19.8	41.0	23.7	41.1	26.1	36.9	19.6
0	37.2	24.3	40.6	24.5	40.7	23.4	41.1	21.1	36.6	20.0
1	39.6	24.5	43.5	22.4	43.5	26.2	45.0	20.0	38.0	21.3
2	39.5	24.6	44.2	23.4	45.0	2[illegible].8	45.6	24.4	38.2	23.0
3	40.0	28.2	45.0	24.8	45.7	28.5	45.0	26.1	40.4	22.6
4	38.2	27.0	42.8	23.3	42.6	28.4	43.9	30.0	39.1	23.6
5	37.8	26.0	43.2	22.4	42.3	27.0	41.7	26.1	38.4	22.7
6	37.5	26.2	42.8	23.0	43.3	28.6	43.3	24.4	39.5	21.1
7	38.0	25.8	43.8	22.4	44.4	27.1	44.4	25.0	41.2	20.6
8	40.4	28.0	44.8	22.2	44.5	26.9	45.6	24.4	39.2	23.2
9	41.0	28.2	45.8	26.4	45.4	27.4	45.6	25.0	38.3	23.8
20	38.5	28.3	44.4	26.2	43.7	25.9	43.3	25.6	39.4	21.7
21	41.5	27.6	45.7	23.6	45.1	26.9	43.9	25.0	40.4	22.2
22	41.6	28.3	46.2	26.6	46.0	26.6	45.0	25.6	40.5	24.4
23	38.5	24.0	43.4	24.2	44.0	28.5	45.0	29.4	39.0	24.5
24	37.5	27.2	42.6	26.6	43.6	27.8	43.9	27.2	39.3	22.6
25	39.1	26.8	43.3	23.4	43.0	27.8	43.0	26.1	40.4	23.2
26	39.2	27.0	42.2	24.8	42.6	27.6	44.4	24.4	41.0	24.0
27	38.5	26.3	42.7	24.8	41.8	28.0	43.9	24.4	39.5	23.8
28	39.5	28.0	42.7	22.4	43.7	26.8	43.3	26.1	38.5	23.0
29	41.6	28.3	44.8	27.4	46.1	28.4	45.6	25.0	39.0	22.6
30	42.5	28.4	46.6	28.3	47.2	28.5	47.8	27.2	39.7	22.3
31	44.0	28.5	47.8	23.6	48.1	29.0	48.3	28.3	40.0	23.8
NS	38.7	26.5	44.1	24.0	43.3	26.9	43.3	25.2	38.4	22.5
AR-E M MAL	****	****	+0.3	-1.8	-0.7	-0.4	+0.3	+0.2	+0.2	-0.7

TIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
JAR	44.7	19th	1962	23.4	11th	1962
SUL	51.1	21st	1937	13.8	12th	1958
KUK	48.2	19th	1962	20.0	13th	1950
NAQIN	50.0	19th	1940	15.5	12th	1958
TBAH	46.1	21&22nd	1940	14.4	6th	1933

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TABLE 4 - b. درجات الحرارة العظمى والصغرى اليومية (بالفهرنهايت)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الأيام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	45.0	27.2	44.2	24.5	43.5	25.5	43.9	28.3
2	45.0	26.1	44.5	24.2	40.8	25.0	45.3	28.3
3	40.0	26.2	39.2	23.7	38.5	24.3	40.8	26.7
4	42.1	24.4	39.9	23.0	39.6	24.3	41.3	24.4
5	43.3	26.4	41.5	25.3	40.4	25.6	41.6	25.1
6	41.7	24.6	41.3	22.2	40.0	24.0	41.2	25.3
7	40.6	26.4	40.0	26.8	39.5	24.0	41.2	26.4
8	40.6	24.9	40.2	25.4	40.5	23.5	40.3	27.6
9	40.8	23.7	40.5	23.5	40.0	22.0	40.6	26.7
10	40.9	24.2	40.6	26.4	40.5	23.0	41.3	26.4
11	43.2	24.4	42.0	25.0	40.5	24.5	41.4	24.3
12	44.5	27.2	43.5	27.2	42.5	24.6	44.0	24.6
13	44.5	25.6	43.4	25.0	43.5	24.4	44.3	25.5
14	43.6	25.6	42.7	24.9	42.5	24.6	43.2	23.3
15	45.0	25.3	43.2	25.8	43.5	25.2	43.2	24.4
16	45.0	25.6	43.7	26.7	43.0	24.5	43.0	26.4
17	46.1	26.3	44.3	24.3	44.2	23.0	43.8	24.4
18	47.4	24.4	46.2	29.0	44.0	24.2	45.3	25.9
19	45.9	27.8	45.2	25.5	43.0	27.0	45.0	30.2
20	42.8	25.0	41.6	26.5	43.0	23.6	42.3	29.9
21	43.9	25.0	42.2	22.0	44.2	24.4	42.3	27.4
22	44.6	27.2	43.4	24.0	44.2	26.0	43.9	23.6
23	44.6	27.8	44.3	26.6	42.0	25.4	44.9	26.3
24	44.2	26.7	45.0	27.0	42.5	25.6	43.9	27.7
25	44.6	26.1	44.2	30.2	43.0	25.2	44.2	28.1
26	45.4	26.9	45.0	25.9	44.0	25.0	45.3	28.6
27	45.1	26.7	44.9	31.4	43.0	26.2	45.0	28.2
28	42.8	26.4	42.3	28.5	42.6	26.6	42.8	31.1
29	44.6	28.5	43.7	27.6	42.5	20.2	42.8	26.3
30	45.4	28.0	45.6	28.0	43.0	26.1	43.3	26.9
31	46.1	27.7	45.5	27.0	42.5	26.0	44.6	28.0
MEANS	43.9	26.1	43.1	25.9	42.1	24.7	43.1	26.6
DEPARTURE FROM NORMAL	0.0	-0.4	+0.3	-0.7	....	....	+0.5	-0.3

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	50.6	3rd	1948	21.1	21st	1948
BAGHDAD	50.0	31st	1957	16.6	8th	1946
HAI	50.0	22nd	1943	21.6	25th	1950

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TABLE 4-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
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	46.4	30.1	44.8	27.5	42.8	27.6	40.8	30.2
2	46.2	27.2	45.5	25.0	45.7	30.0	41.5	29.5
3	40.6	27.8	41.2	26.6	41.6	25.6	40.2	30.8
4	43.3	27.0	42.6	22.8	41.7	25.0	40.5	29.0
5	43.6	27.4	43.0	24.4	42.3	26.8	39.7	27.3
6	43.5	25.2	42.0	24.3	39.9	29.0	39.4	29.3
7	41.9	27.4	40.8	25.5	36.7	27.8	37.7	28.0
8	41.2	27.6	40.3	27.6	35.7	28.0	36.0	29.2
9	41.9	25.5	41.0	25.2	36.8	25.3	37.3	28.0
10	42.2	25.3	41.4	24.4	34.7	25.8	36.2	27.7
11	43.4	26.7	42.1	25.6	38.0	23.6	37.8	27.0
12	45.4	28.5	43.8	26.5	40.6	25.1	39.5	27.0
13	45.2	28.2	44.0	25.7	43.0	25.0	39.6	27.5
14	44.3	28.3	45.0	25.5	45.7	25.6	41.9	27.9
15	45.1	27.8	44.8	25.6	45.3	26.2	43.8	29.0
16	46.3	26.8	45.4	24.9	45.5	28.2	42.5	28.5
17	46.8	26.9	45.4	25.0	45.9	27.5	42.3	28.3
18	46.8	27.8	46.8	25.5	46.0	27.7	42.9	29.8
19	47.4	29.0	45.8	26.5	45.1	30.1	41.4	30.2
20	43.5	27.3	42.8	26.5	39.1	29.3	39.6	30.3
21	45.4	26.1	42.8	24.6	39.7	25.3	38.4	29.4
22	46.5	26.6	44.0	24.9	44.1	25.8	40.6	27.3
23	45.7	28.2	45.7	25.5	46.9	27.2	44.0	27.8
24	46.3	28.4	45.4	28.1	47.2	26.6	43.9	29.6
25	45.2	28.5	45.1	27.2	45.7	28.6	43.3	30.0
26	45.6	27.8	45.4	26.5	45.1	30.2	41.8	29.9
27	45.9	27.6	45.0	28.8	44.0	29.6	43.7	30.0
28	44.4	28.6	42.7	28.0	40.7	28.0	39.0	31.1
29	45.2	29.0	44.5	28.0	41.6	26.2	39.4	27.2
30	46.0	28.5	44.2	27.0	43.6	27.5	39.2	29.2
31	47.2	30.9	45.0	28.5	45.1	27.9	41.5	29.1
MEANS	44.8	27.7	43.8	26.1	42.4	27.2	40.5	28.9
DEPARTURE FROM NORMAL	....	....	+0.5	-2.4	-1.4	-1.7	+0.3	-1.3

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	49.5	4th	1945	16.5	12th	1956
NASIRIYA	49.5	19th	1962	20.0	15th	1952
BASRAH	50.5	26th	1951	22.2	15th	1952

TABLE 5. معدل درجة الحرارة الشهرى للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
	T I M E - G . M . T .								
SINJAR	....	31.1	34.0	36.5	38.0	36.6	33.3	....	34.9
MOSUL	27.2	25.6	33.7	40.7	42.3	41.1	35.3	30.6	34.6
KIRKUK	28.9	28.6	36.4	41.0	42.5	41.2	34.6	31.3	35.6
KHANAQIN	....	26.7	37.2	41.5	42.9	41.6	35.5	....	37.5
RUTBAH	24.9	23.3	29.7	35.1	37.7	37.0	32.0	27.7	30.9
HABBANIYA	28.2	26.9	37.4	41.2	43.2	41.6	34.0	30.8	35.4
BAGHDAD	28.7	27.3	34.5	40.6	42.5	41.2	33.7	30.4	34.9
NUKHAIB	....	....	33.0	38.6	41.0	40.8	....	....	38.4
HAI	....	27.4	34.9	41.1	42.5	39.8	33.8	....	36.6
NAJAF	31.6	29.8	36.8	42.4	44.3	43.2	37.0	33.5	37.4
DIWANIYA	24.1	26.9	35.6	41.7	43.7	41.5	33.4	30.4	35.3
NASIRIYA	29.8	28.0	33.7	40.1	41.6	39.3	34.5	31.9	34.9
BASRAH	30.5	29.5	34.3	37.9	39.4	37.4	33.8	32.1	34.4

TABLE 6 معدل ضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	11.3	12.4	12.9	13.4	13.3	12.3	....	12.6
MOSUL	12.2	12.5	13.6	14.3	12.6	11.5	11.3	11.9	12.5
KIRKUK	10.4	10.7	11.8	10.3	9.9	8.8	10.0	10.5	10.3
KHANAQIN	....	9.7	12.1	11.3	11.7	10.7	11.6	....	11.2
RUTBAH	10.6	11.9	11.3	9.5	8.4	7.9	7.9	8.6	9.5
HABBANIYA	14.3	15.3	18.9	16.4	14.3	15.9	16.8	16.0	16.0
BAGHDAD	12.7	12.5	15.0	13.6	12.2	12.8	13.7	13.2	13.2
NUKHAIB	....	....	11.8	12.5	12.8	13.4	....	....	12.6
HAI	....	15.2	20.4	19.9	19.8	19.1	17.9	....	18.7
NAJAF	9.6	10.0	11.8	10.9	9.6	8.9	10.7	10.2	10.2
DIWANIYA	14.3	14.9	17.4	16.4	14.6	15.5	16.9	15.1	15.6
NASIRIYA	18.0	17.2	18.6	18.8	18.2	20.1	21.3	19.2	18.9
BASRAH	25.7	25.2	26.2	27.0	26.5	27.8	28.6	28.2	26.9

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS

TABLE 7 °MONTHLY MEAN WET-BULBTEMPERATURES(C) معدل حرارة البصلة الرطبة

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	18.2	20.0	21.1	21.9	21.7	19.9	....	20.5
MOSUL	17.1	17.0	20.5	23.1	22.5	22.1	20.0	18.6	20.2
KIRKUK	17.2	17.3	20.6	21.5	21.9	21.0	19.2	18.2	19.6
KHANAQIN	....	16.1	21.1	22.1	22.8	21.9	20.2	....	20.7
RUTBAH	15.8	15.7	18.0	19.2	19.5	18.8	17.6	16.0	17.6
HABBANIYA	18.9	18.8	22.9	24.1	23.9	24.0	21.9	20.5	21.9
BAGHDAD	18.2	18.8	21.4	22.8	22.8	22.6	20.5	19.1	20.8
NUKHAIB	....	....	19.5	21.8	22.6	22.8	....	....	21.7
HAI	....	18.4	23.1	24.5	24.9	24.1	22.6	....	22.9
NAJAF	17.9	17.4	20.8	22.3	22.4	21.8	20.4	19.0	20.3
DIWANIYA	18.5	18.6	22.7	24.2	24.1	23.2	21.8	19.9	21.6
NASIRIYA	21.0	20.0	22.6	24.6	24.9	24.9	23.9	22.2	23.0
BASRAH	24.3	23.8	25.6	27.0	27.2	27.1	26.4	25.7	25.9

TABLE 8 . MONTHLY MEAN DEW-POINT(C) معدل درجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.7	10.4	10.6	11.4	11.1	9.9	....	10.3
MOSUL	9.5	9.9	11.1	12.0	10.1	8.7	8.4	9.2	9.9
KIRKUK	7.2	7.7	9.0	6.7	6.0	4.5	6.5	7.4	6.9
KHANAQIN	....	6.3	9.5	8.4	9.1	7.6	8.9	....	8.3
RUTBAH	7.5	9.3	8.4	5.8	3.5	3.4	4.2	4.7	5.9
HABBANIYA	12.0	13.0	16.4	14.0	11.7	16.8	14.5	13.9	14.0
BAGHDAD	10.5	9.9	12.8	11.2	9.7	10.2	11.3	10.8	10.8
NUKHAIB	....	....	9.2	10.0	10.2	10.8	....	....	10.1
HAI	....	13.1	17.8	17.3	17.2	16.6	15.6	....	16.3
NAJAF	6.2	6.8	9.2	7.9	5.9	5.4	7.7	7.0	7.0
DIWANIYA	12.1	12.9	15.2	14.1	12.3	13.1	14.6	12.9	13.4
NASIRIYA	15.3	14.6	16.2	16.2	15.5	17.4	18.2	16.4	16.2
BASRAH	21.1	20.8	21.6	22.2	21.9	22.6	23.0	22.7	22.0

TABLE -9. المعدل الشهري للرطوبة النسبية %

MONTHLY MEAN RELATIVE HUMIDITY (%)

TIME - G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEAN
SINJAR	..	27	24	22	21	21	25	..	23
MOSUL	34	39	26	19	15	15	20	27	24
KIRKUK	26	28	20	13	12	12	19	23	19
KHANAQIN	..	28	19	14	14	13	20	..	18
RUTBAH	34	42	28	17	13	13	18	23	24
HABBANIYA	38	43	35	21	17	20	32	36	30
BAGHDAD	33	35	27	18	15	16	26	31	25
NUKHAIB	..	..	24	18	13	17	..	..	18
HAI	..	42	37	26	24	25	34	..	31
NAJAF	21	24	19	13	10	11	17	19	17
DIWANIYA	39	47	30	20	16	19	33	35	29
NASIRIYA	43	45	36	26	24	29	39	41	35
BASRAH	59	61	48	41	37	44	55	59	51

TABLE -10 معدل الضغط الجوي على سطح البحر

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	00.3	00.3	99.4	98.5	97.9	00.1	....	999.4
MOSUL	99.9	00.6	00.3	99.3	98.0	97.2	98.9	99.7	999.2
KIRKUK	99.5	99.9	99.4	98.5	97.3	96.8	98.8	99.5	998.7
KHANAQIN	....	99.5	98.0	97.1	94.5	96.0	98.0	....	997.4
RUTBAH	01.5	02.2	02.5	02.0	01.4	01.2	01.3	01.4	1001.7
HABBANIYA	99.0	00.1	00.4	99.8	98.9	98.2	98.9	99.0	999.3
BAGHDAD	98.3	99.1	99.8	99.5	98.4	97.7	98.5	98.7	998.9
NUKHAIB	....	....	02.0	00.7	99.3	98.5	....	....	1000.1
HAI	....	97.4	98.2	98.0	97.1	96.5	97.4	....	997.4
NAJAF	96.7	97.8	98.4	98.2	96.8	96.3	97.1	97.2	997.3
DIWANIYA	99.3	99.1	99.9	99.9	98.8	98.4	98.9	98.9	999.1
NASIRIYA	97.5	98.1	99.0	98.8	97.8	97.3	98.1	97.9	998.1
BASRAH	97.7	98.5	98.7	98.8	98.1	97.4	97.8	97.9	998.1

TABLE -11. معدل كمية الغيم الواطئة (اثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	0.1	0.1	0.5	0.6	0.5	0.1	..	0.3
MOSUL	0.2	0.2	0.1	0.4	0.7	0.3	0.2	0.1	0.3
KIRKUK	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2
KHANAQIN	..	0.1	0.0	0.3	0.3	0.0	0.0	..	0.1
RUTBAH	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
BAGHDAD	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
NUKHAIB	..	..	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
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	1.3	1.6	1.0	0.0	0.0	0.5
BASRAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE -12. معدل مجموع كمية الغيوم (اثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	0.2	0.1	0.6	0.8	0.6	0.1	..	0.4
MOSUL	0.3	0.3	0.2	0.4	0.7	0.5	0.4	0.2	0.4
KIRKUK	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2
KHANAQIN	..	0.2	0.4	0.4	0.4	0.2	0.3	..	0.3
RUTBAH	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.1
HABBANIYA	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1
BAGHDAD	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.1	0.1
NUKHAIB	..	..	0.0	0.0	0.0	0.0	..	..	0.0
HAI	..	0.1	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	1.3	1.6	1.0	0.0	0.0	0.5
BASRAH	0.0	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.1

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TABLE 13-a. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

STATIONS المحطة	TIME GMT. وقت كرينتش	DIRECTION الاتجاه									SPEED IN KNOTS السرعة بالعقد				MEAN V. K. معدل السرعة بالعقد
		N	NE	E	SE	S	SW	W	NW	CA-LM	1-10	11-21	22-33	34	
SINJAR سنجار	0300	20	0	1	0	2	0	4	2	2	24	4	1	0	8
	0600	5	0	6	0	3	0	9	1	7	17	7	0	0	7
	0900	1	0	1	1	11	0	13	0	4	14	10	3	0	8
	1200	3	1	2	0	5	1	12	1	6	17	8	0	0	11
	1500	0	0	0	0	9	0	12	2	8	9	12	2	0	10
	1800	8	0	0	0	1	0	17	1	4	23	4	0	0	7
	TOTAL	37	1	10	1	31	1	67	7	31	104	45	6	0	8
MOSUL موصل	0000	5	1	1	0	2	1	5	7	9	15	7	0	0	7
	0300	2	1	2	0	7	0	5	11	3	26	2	0	0	6
	0600	5	0	0	2	1	0	8	12	3	25	3	0	0	7
	0900	3	0	4	1	7	3	5	6	2	28	1	0	0	7
	1200	5	2	2	0	6	2	7	7	0	22	9	0	0	9
	1500	7	0	1	1	5	4	9	3	1	24	6	0	0	9
	1800	1	0	0	0	1	1	20	7	1	17	13	0	0	10
	2100	5	0	1	0	2	1	8	5	9	16	6	0	0	6
	TOTAL	33	4	11	4	31	12	67	58	28	173	47	0	0	8
KIRKUK كركوك	0000	0	3	0	0	0	0	1	1	26	5	0	0	0	1
	0300	1	0	3	0	0	0	0	0	27	4	0	0	0	1
	0600	1	2	0	1	2	1	5	4	15	16	0	0	0	2
	0900	3	0	1	0	4	5	11	3	4	25	2	0	0	5
	1200	4	1	0	0	2	7	9	3	5	21	5	0	0	6
	1500	1	0	0	0	2	7	13	5	3	27	1	0	0	5
	1800	0	0	0	0	0	0	3	3	25	6	0	0	0	1
	2100	1	2	1	0	0	0	0	1	26	5	0	0	0	1
	TOTAL	11	8	5	1	10	20	42	20	131	109	8	0	0	3
KHANAQIN خانقين	0300	0	0	7	0	5	0	2	1	16	15	0	0	0	2
	0600	0	0	6	0	3	0	5	3	14	17	0	0	0	2
	0900	1	0	3	0	10	0	10	7	0	30	0	1	0	6
	1200	1	0	0	0	10	0	13	7	0	31	0	0	0	6
	1500	0	0	0	1	4	0	11	12	3	27	1	0	0	5
	1800	0	0	0	0	5	0	4	3	19	12	0	0	0	2
	TOTAL	2	0	16	1	37	0	45	33	52	132	1	1	0	4
RUTBAH رطبة	0000	0	0	0	0	0	1	13	13	4	11	13	3	0	11
	0300	1	0	0	0	0	0	19	6	5	19	7	0	0	8
	0600	3	0	0	0	0	0	11	13	4	20	2	0	0	7
	0900	2	1	0	0	1	0	13	10	4	24	3	0	0	6
	1200	2	0	1	0	2	1	21	1	3	16	12	0	0	9
	1500	0	0	1	0	1	1	17	7	4	22	5	0	0	6
	1800	1	0	0	0	0	0	9	8	13	18	0	0	0	3
	2100	3	0	0	0	0	1	11	6	10	14	7	0	0	6
	TOTAL	12	1	2	0	4	4	114	64	47	144	54	3	0	7

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TABLE 13-b. جدول تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت غرينتش TIME GMT.	DIRECTION الاتجاه								سكون CA-LM	SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW		1-10	11-21	22-33	34+	
حبانية HABBANIYA	0000	1	1	0	0	0	0	16	5	8	18	5	0	0	6
	0300	1	0	0	0	0	0	17	7	6	19	6	0	0	7
	0600	5	0	0	0	0	0	17	9	0	16	15	0	0	10
	0900	2	0	0	0	3	1	12	12	1	12	18	0	0	11
	1200	0	0	0	0	4	5	13	9	0	15	16	0	0	10
	1500	2	0	0	0	3	3	13	6	4	19	8	0	0	8
	1800	0	0	1	1	0	1	15	2	11	18	2	0	0	4
	2100	1	0	2	0	0	3	16	3	6	20	5	0	0	5
	TOTAL	12	1	3	1	11	12	119	53	36	137	75	0	0	8
بغداد BAGHDAD	0000	6	0	0	0	0	0	3	13	9	18	4	0	0	5
	0300	2	1	0	0	1	0	3	15	9	18	4	0	0	5
	0600	2	2	0	0	0	2	1	21	3	16	12	0	0	9
	0900	2	0	1	0	0	1	5	19	3	18	10	0	0	9
	1200	4	0	0	0	0	2	7	13	3	14	14	0	0	10
	1500	4	0	0	0	1	1	12	6	2	19	6	0	0	7
	1800	1	0	0	0	0	0	6	13	11	18	2	0	0	4
	2100	1	0	0	0	0	0	5	16	9	15	7	0	0	5
	TOTAL	22	3	1	1	4	6	42	116	53	136	59	0	0	7
نخيب NUKHAIB	0600	17	0	1	0	0	0	8	5	0	19	11	1	0	11
	0900	6	0	1	2	2	0	10	10	0	22	9	0	0	8
	1200	5	0	0	0	3	0	12	8	3	20	8	0	0	8
	1500	5	0	0	0	5	0	11	8	2	26	3	0	0	7
	TOTAL	33	0	2	2	10	0	41	31	5	87	31	1	0	8
حي HAI	0300	1	0	0	0	0	0	0	27	5	14	14	0	0	9
	0600	0	0	0	0	0	0	8	18	5	15	11	0	0	9
	0900	0	2	0	0	0	0	2	21	6	8	14	3	0	11
	1200	0	1	2	0	0	0	3	21	4	8	15	4	0	13
	1500	0	0	3	0	0	0	1	26	1	20	10	0	0	9
	1800	0	0	3	0	0	0	0	26	2	15	14	0	0	10
	TOTAL	1	3	8	0	0	0	14	139	21	80	78	7	0	10
نجف NAJAF	0000	11	1	2	0	2	0	4	8	3	19	9	0	0	8
	0300	14	2	3	0	0	0	3	6	3	21	6	1	0	8
	0600	22	6	0	1	1	0	2	0	1	14	15	1	0	11
	0900	13	5	4	1	1	1	0	5	1	15	10	5	0	12
	1200	13	2	3	1	1	1	0	9	1	16	10	4	0	12
	1500	14	4	3	1	0	0	2	6	1	21	9	0	0	10
	1800	9	1	3	1	0	0	2	6	9	22	0	0	0	4
	2100	9	3	1	0	2	0	4	8	4	23	4	0	0	6
	TOTAL	105	24	19	4	6	2	17	48	23	151	63	11	0	9

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عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

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
DIWANIYA ديوانية	0000	7	0	1	0	0	0	18	1	4	20	7	0	0	8
	0300	3	0	0	0	0	0	22	3	3	24	4	0	0	7
	0600	10	0	0	0	0	0	14	7	0	16	15	0	0	10
	0900	16	0	0	0	0	1	11	2	1	15	12	3	0	11
	1200	8	0	1	0	0	1	19	2	0	14	17	3	0	11
	1500	7	0	0	0	0	1	17	3	3	23	5	0	0	6
	1800	5	2	1	0	0	1	14	2	6	23	2	0	0	5
	2100	4	1	0	0	1	1	18	1	5	23	3	0	0	5
	TOTAL	60	3	3	0	1	5	133	21	22	158	65	3	0	8
NASIRIYA ناصرية	0000	1	0	0	0	0	2	15	9	4	24	3	0	0	7
	0300	1	0	1	0	0	3	16	9	1	29	1	0	0	6
	0600	0	0	0	0	0	2	14	13	2	24	5	0	0	8
	0900	0	0	0	0	0	1	9	21	0	22	9	0	0	9
	1200	1	0	0	1	0	0	11	18	0	22	9	0	0	9
	1500	2	1	0	2	0	0	11	14	1	26	4	0	0	7
	1800	0	1	1	2	0	0	12	12	3	28	0	0	0	6
	2100	2	0	0	0	0	0	16	8	5	25	1	0	0	6
	TOTAL	7	2	2	5	0	8	104	10¼	16	200	32	0	0	7
BASRAH بصرة	0000	5	0	0	0	0	1	4	15	6	21	4	0	0	6
	0300	5	1	0	0	0	1	8	14	1	27	3	0	0	6
	0600	4	2	0	0	0	0	3	19	3	22	6	0	0	7
	0900	6	0	0	0	0	0	1	23	1	20	10	0	0	8
	1200	10	0	0	0	0	0	1	20	0	19	12	0	0	9
	1500	7	0	0	0	0	0	1	23	0	26	5	0	0	6
	1800	2	3	0	0	0	0	1	22	3	21	7	0	0	6
	2100	3	0	0	0	0	0	1	20	7	15	9	0	0	6
	TOTAL	43	6	0	0	0	2	20	156	21	171	56	0	0	7

TABLE 14.

اعلى سرعة رياح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)		DIRECTION	TIME GMT.	DAY
AMARA	28	Knots	270	1200	19th
MOSUL	18		290	1200	27th
KIRKUK	15		230	1200	14th
KHANAQIN	26		320	0900	26th
QUTBAH	24		300	0000	6th
ABBANIYA	20		270	1200	22nd
BAGHDAD	20		300	1200	20th
HUSAIB	26		320	0600	19th
HAI	24		280	0900	26th
NAJAF	28		350	1200	1st
DIWANIYA	26		290	0900	8th
NASIRIYA	16		290	0900	28th
BASRAH	18		320	0600	8th.

JULY 1963 . تموز ١٩٦٣

TABLE 15-a.

DAILY PRECIPITATION (MILLIMETERS)

الهطول اليومي (ملليمترات)

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
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							
NORMAL		0.1		0.6			

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DATE	YEAR
MOSUL	2.3	8th	1943
KIRKUK	0.3	11th	1947
KHANAQIN	9.1	10th	1938
RUTBAH	tr.	9th	1950
BAGHDAD	tr.	9th	1950
HABBANIYA	tr.	3rd	1954

JULY 1963 .
TABLE 15-b.

(15)

تموز ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	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						
NORMAL				0.2		0.2

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

CLIMATOLOGICAL SUMMARY : الخلاصات المناخيـــــة

NO. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الأيام التي حدثت فيها الظواهر الجويـــــة

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	0	0	0	0	0	0	28	0	0
MOSUL	0	0	0	0	0	0	29	0	0
KIRKUK	0	0	0	0	0	0	31	0	0
KHANAQIN	0	0	0	0	0	0	27	0	0
RUTBAH	0	0	0	0	0	0	31	0	0
HABBANIYA	0	0	0	0	0	0	31	0	0
BAGHDAD	0	0	0	0	0	0	31	0	0
NUKHAIB	0	0	0	0	0	0	31	0	0
HAI	0	0	0	0	0	0	31	0	0
NAJAF	0	0	0	0	0	0	31	0	0
DIWANIYA	0	0	0	0	0	0	31	0	0
NASIRIYA	0	0	0	0	0	2	26	0	0
BASRAH	0	0	0	0	0	1	30	0	0

TABLE - 17.

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	391.8	13.1	16th	0
HABBANIYA	396.7	13.2	11th	0
BAGHDAD	402.6	13.4	21st	0
BASRAH	334.6	13.1	17th	0

TABLE -18 .

MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لدرجات حرارة الهواء والتربـــــة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL.	...	32.6	...
KIRKUK	20.0	33.5	28.8
HABBANIYA	25.4	35.7	31.1
BAGHDAD	19.4	33.6	28.7
NAJAF	....	36.8	34.9
NASIRIYA	25.0	35.8	31.1
BASRAH	23.3	....	....

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر آب ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR AUGUST 1963

مجلد ٢٦ عدد (٨) آب ١٩٦٣

VOLUME 26 , No. (8) , A U G U S T 1 9 6 3

C O N T E N T S

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= = relative humidity	3	5
Daily maximum and minimum temperature	4a-c	6-8
Monthly mean dry-bulb temperature	5	9
= = vapour-pressure	6	9
= = wet-bulb temperature	7	9
= = dew-point	8	9
= = relative-humidity	9	10
= = pressure at M.S.L.	10	10
= = low-cloud amount	11	10
= = total-cloud amount	12	10
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NOTES ON TABLES AND GEOGRAPHICAL DATA : SEE JANUARY 1963.

AUGUST 1963 .

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آب ١٩٦٣

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغـــــراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	28.0	36.3	37.4	32.8	36.5	36.0
2	33.7	36.0	36.4	31.7	35.3	34.9
3	33.0	33.5	34.9	31.0	35.3	35.9
4	33.6	32.1	35.6	30.9	35.9	37.5
5	34.0	33.2	35.8	31.0	35.9	38.1
6	34.0	33.2	34.3	31.9	35.4	36.2
7	45.6	32.6	34.7	31.4	34.3	34.9
8	34.9	34.0	35.7	30.0	34.1	33.9
9	32.3	32.1	32.9	29.6	32.3	33.4
10	35.0	33.0	34.5	31.2	33.6	32.2
11	36.4	35.0	36.3	31.4	35.5	35.6
12	37.0	35.7	36.1	30.6	35.0	34.7
13	35.4	35.2	35.4	30.7	34.1	33.6
14	35.1	34.5	34.4	30.5	33.3	33.3
15	36.0	33.7	34.9	31.1	33.4	33.2
16	38.7	34.6	35.9	32.3	35.0	34.5
17	36.0	35.0	36.1	32.4	34.9	34.8
18	35.6	34.9	36.9	32.9	35.0	35.0
19	36.6	36.9	38.2	33.1	35.6	34.8
20	36.7	36.8	37.8	33.5	36.4	35.1
21	37.3	35.5	37.3	32.4	34.6	35.7
22	36.1	36.2	38.3	32.5	35.9	35.2
23	36.6	35.8	36.9	32.5	35.9	36.2
24	33.6	35.1	36.1	30.3	34.8	35.3
25	34.3	33.4	34.8	31.5	34.0	35.0
26	34.6	34.3	34.7	31.4	33.9	33.6
27	34.0	32.5	33.3	31.1	32.9	32.8
28	33.3	31.6	33.0	30.4	32.8	32.2
29	32.9	31.8	32.7	30.5	31.6	32.2
30	31.9	31.2	32.9	29.0	32.0	33.4
31	33.2	30.8	32.4	28.9	31.8	32.6
MEANS	35.0	34.1	35.4	31.3	34.4	34.6
DEPARTURE FROM NORMAL	....	+1.4	+4.9	+0.7	+0.2	+0.1

NOTE : AT SINJAR , OBSERVATIONS 0000 & 2100 ARE MISSED.

TIME: G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

TABLE 1-b. المعدل اليومي لدرجات الحرارة (مئوية) لـ ٨ مراصد

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	40.1	36.3	39.5	36.1	36.1	35.5
2	39.0	36.1	38.8	36.1	36.6	35.7
3	38.7	36.8	38.4	37.3	37.3	36.9
4	39.1	36.7	38.2	38.2	38.7	37.4
5	39.1	36.9	38.7	37.5	36.9	36.1
6	39.1	37.6	37.2	36.6	36.6	35.3
7	38.8	35.7	36.6	34.7	33.5	33.8
8	38.4	34.7	36.5	34.3	33.1	34.8
9	36.6	35.4	35.9	33.1	32.8	33.6
10	37.6	33.6	37.0	33.0	33.4	33.3
11	38.5	34.0	37.1	34.4	34.1	32.4
12	38.0	34.8	37.4	34.3	34.2	33.6
13	37.8	34.6	37.0	33.3	35.1	33.5
14	37.7	33.8	36.9	33.5	34.3	35.0
15	38.3	34.0	36.5	32.7	34.2	33.4
16	39.6	34.2	37.2	33.7	34.3	33.4
17	40.1	35.8	38.2	35.0	34.5	33.8
18	40.2	35.3	38.4	34.5	34.2	33.5
19	41.0	35.1	38.6	34.8	36.0	35.3
20	40.4	34.1	39.1	35.1	35.3	34.3
21	40.6	35.4	38.9	34.6	36.0	34.7
22	40.9	35.0	38.4	34.8	35.1	32.6
23	40.3	34.0	39.2	36.1	34.7	36.0
24	38.4	33.5	39.1	35.6	35.0	35.3
25	38.2	36.6	39.0	35.1	37.0	34.8
26	39.0	35.3	37.4	33.8	35.2	34.3
27	39.1	34.8	36.1	33.8	35.5	33.2
28	38.1	34.8	35.9	33.1	34.9	33.2
29	39.1	34.2	35.0	33.4	34.6	33.2
30	36.5	33.9	34.7	33.6	34.6	34.6
31	38.0	34.0	34.6	32.4	33.3	32.7
MEANS	38.9	35.1	37.5	34.7	35.1	34.4
DEPARTURE FROM NORMAL	....	-0.3	....	+1.1	-0.9	+1.0

NOTE: AT NUKHAIB, OBSERVATIONS 0000, 0300, 1800, &2100 ARE MISSED
AT HAI, OBSERVATION 2100 IS MISSED.

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	995.2	995.9	996.3	999.0	997.1	996.9
2	94.7	95.7	96.3	98.7	97.0	96.6
3	98.2	98.6	98.7	99.4	98.2	98.0
4	01.2	01.5	01.1	02.1	00.0	99.8
5	03.6	03.7	03.3	04.4	02.3	02.0
6	02.7	02.5	02.2	04.1	02.1	01.6
7	99.0	98.5	[illegible]	01.6	98.5	97.7
8	96.6	96.8	96.0	00.6	97.5	96.8
9	99.0	99.5	99.4	02.0	99.7	99.4
10	00.2	00.5	98.9	02.8	99.6	99.0
11	98.3	98.3	96.9	02.0	99.8	96.6
12	96.2	95.6	94.9	00.5	96.6	95.3
13	97.2	95.6	95.7	99.8	96.2	96.3
14	97.7	97.2	97.1	00.4	98.2	97.9
15	99.5	00.2	98.7	01.1	99.0	98.8
16	00.3	01.9	00.0	02.0	99.5	98.9
17	03.8	01.6	00.1	02.8	00.3	99.6
18	02.0	99.8	98.6	02.4	99.3	98.7
19	00.6	98.9	97.7	01.8	98.3	98.1
20	01.5	99.7	99.1	02.1	99.7	99.4
21	02.0	99.6	99.1	02.5	99.9	99.5
22	00.9	98.4	97.2	01.2	96.9	97.3
23	00.3	98.6	98.0	00.3	98.0	97.6
24	03.1	01.1	00.7	03.1	00.8	00.3
25	02.2	01.3	01.1	03.6	01.4	01.2
26	01.1	00.4	00.2	02.8	00.7	00.5
27	00.3	99.6	99.2	01.4	99.7	99.5
28	00.6	00.7	00.8	02.8	01.0	00.1
29	01.2	02.0	02.5	02.9	02.2	02.1
30	03.2	03.2	02.8	03.7	02.3	02.0
31	03.3	03.5	03.0	05.2	03.4	02.6
MEANS	1000.3	999.7	999.1	1002.1	999.5	999.0
DEPARTURE FROM NORMAL	....	-1.7	-0.2	-1.8	-1.4	-1.2

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1006.3	17th	0600	1963	993.6	1st	1500	1963	1963
MOSUL	1005.2	31st	0600	1963	993.5	12th	1500	1963	
KIRKUK	1004.6	5th	2100	1963	992.1	12th	1500	1963	
RUTBAH	1006.5	31st	0600	1963	996.6	2nd	0600	1963	
HABBANIYA	1004.3	31st	0600	1963	995.2	12th	1500	1963	
BAGHDAD	1003.5	31st	0600	1963	994.1	12th	1500	1963	
MOSUL	1010.7	26th	0600	1962	992.1	7th	1500	1958	RECORD
KIRKUK	1009.7	25th	2100	1962	990.1	13th	1500	1952	
RUTBAH	1013.7	3rd	0300	1953	992.0	2nd	0000	1961	
BAGHDAD	1007.6	25th	0600	1962	992.7	3rd	1500	1954	

TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	997.4	996.2	995.7	997.6	996.8	996.9
2	97.6	96.2	95.0	97.2	96.8	97.5
3	98.2	96.8	95.6	97.7	97.0	98.4
4	99.6	98.8	97.9	99.5	98.4	99.0
5	02.6	95.2	99.5	01.1	99.8	99.6
6	02.5	98.7	99.3	00.8	99.0	97.9
7	99.8	95.6	96.4	97.9	96.5	95.8
8	98.5	94.8	95.6	97.1	95.8	94.3
9	01.0	97.1	98.1	99.7	98.1	97.9
10	01.2	98.1	97.9	99.7	99.0	99.1
11	99.5	95.3	95.6	97.1	96.0	96.3
12	98.1	94.1	94.3	96.2	95.1	94.9
13	97.7	95.5	95.1	97.1	96.5	96.8
14	99.1	97.2	96.6	98.6	97.8	98.1
15	99.4	98.1	97.6	99.5	98.7	97.8
16	00.0	98.3	98.0	99.5	99.0	99.4
17	01.2	98.5	98.6	00.2	99.3	99.5
18	00.5	97.8	97.6	99.2	98.4	98.6
19	99.3	97.4	96.9	98.8	98.1	98.4
20	01.1	98.7	98.3	00.0	99.4	99.6
21	00.8	98.4	99.4	00.1	99.1	99.2
22	98.5	96.5	95.7	97.5	97.3	97.9
23	98.8	97.2	96.0	97.8	97.4	98.0
24	01.3	99.1	98.4	00.2	99.6	00.1
25	02.1	00.2	99.8	01.5	00.5	00.7
26	01.3	99.6	99.1	00.8	00.2	00.6
27	99.0	98.3	97.9	99.8	99.0	98.8
28	01.1	99.5	99.4	01.1	00.3	00.5
29	02.1	01.1	00.4	02.0	01.5	01.8
30	01.9	00.8	00.2	01.9	01.3	01.7
31	04.0	00.6	01.1	02.6	01.3	01.1
MEANS	1000.2	997.7	997.6	999.3	998.5	998.6
DEPARTURE FROM NORMAL	....	-1.6	.....	-0.3	-0.9	-0.4

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
NUKHAIB	1005.6	31st	0600	1963	995.4	1st	1500	1963	1963
HAI	1002.2	30ty	0600	1963	993.4	12th	1500	1963	
NAJAF	1001.9	31st	1800	1963	993.2	12th	1500	1963	
DIWANIYA	1003.4	31st	1800	1963	995.6	12th	1500	1963	
NASIRIYA	1002.9	29th	0600	1963	994.3	12th	1500	1963	
BASRAH	1002.6	30th	0900	1963	994.1	12th	1500	1963	
HAI	1008.4	30th	0600	1953	992.7	4th	1500	1953	RECORD
DIWANIYA	1009.0	30th	0600	1953	991.8	3rd	1500	1954	
NASIRIYA	1008.1	31st	0600	1953	992.1	3rd	2100	1954	
BASRAH	1007.5	31st	0600	1953	992.4	3rd	1500	1954	

AUGUST 1963 . آب ١٩٦٣

TABLE - 3 . المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

الايام DATE	سنجار SIN-JAR	موصل MO-SUL	كركوك KIR-KUK	رطبة RUT-BAH	حبانية HABB-ANIYA	بغداد BAG-HDAD	نخيب NUKH-AIB	حي HAI	نجف NA-JAF	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BAS-RAH
1	21	21	20	18	23	26	19	33	17	29	35	60
2	28	22	19	22	27	32	16	46	16	32	34	58
3	26	24	23	23	34	28	14	38	18	26	34	51
4	24	27	19	23	29	23	15	49	20	23	29	54
5	26	25	16	21	26	20	17	35	16	22	34	66
6	25	24	18	20	28	27	14	27	16	22	30	47
7	21	25	18	21	27	24	17	30	19	26	33	42
8	21	24	21	20	21	21	16	30	16	26	32	43
9	26	25	16	22	32	25	16	25	20	28	34	48
10	20	25	20	23	26	31	17	30	19	33	28	54
11	19	28	20	22	24	23	10	33	18	30	29	53
12	15	26	20	31	24	27	15	33	18	32	29	52
13	17	24	22	30	30	34	19	36	19	38	28	51
14	18	26	23	26	29	31	20	36	21	36	29	60
15	19	26	24	20	33	33	11	34	22	32	30	54
16	19	27	22	21	26	31	12	35	19	35	26	52
17	20	23	21	19	24	25	9	35	19	31	28	54
18	21	21	19	18	24	29	9	33	20	33	26	61
19	17	21	18	16	26	34	9	35	21	31	26	65
20	15	19	20	17	24	31	8	40	17	29	28	59
21	16	22	16	18	28	27	8	32	14	28	24	59
22	18	20	16	17	31	29	11	35	17	29	24	53
23	18	23	19	22	33	30	10	39	14	30	29	35
24	19	26	20	29	29	32	15	42	18	34	37	58
25	21	27	19	33	33	32	14	35	16	32	29	53
26	19	21	17	24	31	31	12	34	17	35	32	53
27	22	19	18	20	34	35	9	33	18	32	28	55
28	21	23	17	22	26	32	10	33	18	35	31	55
29	23	27	17	20	29	26	8	33	20	33	27	53
30	22	24	22	22	35	28	9	32	21	30	30	44
31	22	27	21	18	33	25	10	29	20	30	30	53
MEANS	21	24	19	22	28	28	13	35	18	30	30	53
NORMAL	[illegible]	34	14	25	23	22	[illegible]	24	[illegible]	29	26	48

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	34	[illegible]	15th	10	1200	20ty
MOSUL	55	0300	25th	10	1500	14th
KIRKUK	39	0300	15th	6	1200	6th
RUTBAH	64	0300	25th	8	1500	29th
HABBANIYA	62	0300	5th	8	1200	8th
BAGHDAD	56	0000	28th	10	1200	7th
NUKHAIB	31	0600	10th	3	1200	30ty
HAI	64	0300	2nd	20	1200	9th
NAJAF	36	0300	31st	5	1500	21st
DIWANIYA	55	0300	16th	10	1200	21st
NASIRIYA	64	0300	24th	10	1200	22nd
BASRAH	96	0000	5th	8	1200	23rd

TABLE 4-a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	سنجار SINJAR		موصل MOSUL		كركوك KIRKUK		خانقين KHANAQIN		رطبة RUTBAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	41.6	29.0	45.8	25.0	46.3	29.8	45.0	29.4	40.5	24.0
2	38.0	25.2	42.8	27.2	44.2	28.6	45.0	30.6	38.7	24.6
3	37.7	24.6	42.0	22.4	42.8	26.8	43.9	25.6	39.0	22.9
4	37.4	24.3	42.0	21.4	43.4	28.0	43.3	26.1	39.4	22.0
5	37.3	25.0	41.8	22.3	43.8	27.8	44.4	25.0	39.5	21.0
6	38.0	25.2	41.2	22.6	41.2	26.5	42.8	24.4	40.8	23.0
7	38.5	26.8	42.2	20.4	43.0	25.5	42.8	23.3	39.9	22.4
8	38.2	28.2	43.0	22.2	43.6	27.0	42.8	22.8	38.4	21.4
9	36.0	26.2	40.4	24.2	41.0	25.1	41.7	23.3	36.2	21.6
10	39.5	24.0	42.4	21.4	42.6	25.1	41.7	21.7	38.8	22.3
11	40.0	25.2	42.8	23.8	42.6	24.8	43.9	25.6	38.7	22.8
12	40.4	25.4	44.6	26.8	44.1	27.0	43.9	24.4	38.0	22.3
13	40.1	26.6	44.4	24.5	44.2	26.0	43.3	25.0	38.0	22.0
14	40.2	23.3	43.3	24.7	43.6	25.8	42.8	25.6	37.6	22.6
15	39.9	24.2	42.6	22.8	42.7	25.2	42.2	25.0	38.5	22.2
16	40.9	24.2	41.2	26.4	42.2	30.7	43.3	24.4	40.6	23.0
17	40.5	22.6	42.8	24.4	44.3	28.0	43.9	26.1	41.2	22.5
18	40.9	23.2	43.8	25.2	44.5	27.2	45.0	25.0	41.2	23.6
19	41.2	26.5	45.7	27.6	45.7	26.9	45.6	26.1	41.6	24.0
20	41.7	29.0	45.8	27.6	46.1	28.7	46.1	27.2	41.7	24.0
21	41.6	29.3	46.0	25.2	46.3	27.5	45.0	26.7	42.0	24.8
22	41.6	28.3	45.8	23.4	46.6	29.3	47.2	25.6	43.0	20.8
23	41.9	29.4	46.1	23.8	46.0	27.6	45.6	26.1	40.7	24.0
24	39.1	25.1	43.2	27.2	44.9	28.0	45.6	26.1	38.2	22.3
25	40.4	27.5	41.8	22.2	43.3	27.8	42.8	25.6	40.0	24.0
26	40.3	26.7	43.4	23.4	43.4	27.1	42.2	25.6	40.4	22.4
27	38.6	29.5	42.2	23.2	42.7	24.1	41.1	23.3	40.0	21.5
28	38.1	24.3	41.4	19.8	41.7	24.5	41.1	21.7	39.0	19.8
29	37.5	25.6	40.6	20.6	41.7	24.1	41.1	22.8	39.2	20.3
30	36.1	26.2	40.2	19.2	40.7	24.3	41.1	22.8	37.5	20.0
31	38.0	25.3	39.2	20.2	40.5	24.4	41.1	22.2	38.3	19.8
MEANS	39.4	26.0	42.9	23.6	43.5	26.7	43.4	25.3	39.5	22.4
DEPARTURE FROM NORMAL	...	...	-0.5	+2.5	+0.6	+0.5	+0.3	+0.4	+0.6	+1.3

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	44.6	17th	1962	22.6	17th	1963
MOSUL	49.8	6th	1957	12.8	26th	1952
KIRKUK	47.4	6th	1956	19.4	26th	1941
KHANAQIN	49.5	8th	1938	11.6	24th	1942
RUTBAH	45.6	10th	1930	15.0	25th	1949

TABLE 4-b. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	46.0	28.2	45.6	25.7	44.3	25.2	44.0	27.6
2	46.1	27.2	44.7	24.2	43.0	24.2	44.6	24.4
3	44.2	24.6	45.0	25.9	42.7	24.2	45.0	26.2
4	45.6	25.6	45.5	27.2	44.0	25.0	45.0	27.7
5	43.9	25.7	45.2	32.0	43.2	25.0	45.0	27.0
6	44.4	26.8	43.4	27.6	42.7	25.6	44.0	29.4
7	42.8	24.7	42.0	27.4	42.6	24.8	42.6	28.6
8	43.2	25.3	42.7	24.8	42.4	23.5	42.6	25.6
9	40.9	24.1	41.2	27.2	40.8	23.8	42.4	27.0
10	42.3	25.1	41.7	22.8	40.1	24.5	40.8	24.2
11	43.6	27.1	43.6	26.0	41.8	25.6	42.4	22.7
12	43.4	27.9	43.0	27.4	41.8	24.2	42.5	26.7
13	42.8	24.9	42.8	22.4	41.6	24.9	42.9	25.0
14	42.1	25.0	41.8	23.8	41.5	24.4	41.3	24.3
15	43.0	23.9	42.4	22.4	42.2	24.3	42.6	24.0
16	44.4	23.9	43.7	22.6	42.8	24.0	43.2	24.3
17	43.9	25.5	44.2	24.8	43.5	25.5	43.9	27.3
18	44.6	25.4	44.3	24.3	43.8	25.0	44.0	26.4
19	46.1	25.3	45.2	22.5	44.2	26.5	42.9	25.3
20	46.0	26.8	45.5	23.5	44.3	25.0	43.6	24.1
21	45.5	25.0	45.0	26.0	44.3	24.3	44.9	26.0
22	46.6	26.1	46.2	24.8	44.8	25.5	44.2	23.6
23	46.9	27.0	47.0	23.2	45.0	25.0	45.6	23.8
24	43.6	26.1	45.0	23.5	42.4	26.6	44.7	22.9
25	43.5	24.0	42.9	25.7	41.6	24.6	43.8	26.3
26	42.8	24.0	42.8	24.7	42.5	26.0	42.3	25.3
27	43.2	23.9	42.2	21.9	42.6	24.7	42.3	24.6
28	43.4	23.3	42.1	19.6	41.6	25.0	43.1	25.3
29	42.1	22.4	41.8	18.5	40.6	22.7	42.2	24.7
30	42.5	22.6	42.3	20.2	40.8	22.6	42.0	24.3
31	40.5	23.2	41.1	24.7	40.0	21.6	41.7	24.0
MEANS	43.9	25.2	43.6	24.4	42.5	24.7	43.3	25.4
DEPARTURE FROM NORMAL	+0.2	+0.4	+0.1	-0.3	....	....	-0.6	-0.5

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	50.0	14th	1938	19.4	29th	1941
BAGHDAD	50.2	5th	1957	17.8	22nd	1937
HAI	48.9	26th	1943	18.9	30th	1941

TABLE 4-c. درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	47.2	29.4	45.5	27.0	45.2	27.6	42.8	30.8
2	46.8	28.0	45.5	25.0	47.0	26.2	44.2	29.2
3	46.6	27.5	46.6	26.5	47.1	28.6	44.8	29.2
4	47.3	27.2	46.4	30.0	47.8	29.1	46.3	28.1
5	46.0	28.3	47.0	28.0	46.5	28.5	44.3	29.3
6	44.5	27.4	44.4	28.0	43.5	28.5	41.3	30.3
7	44.0	27.2	42.8	26.8	41.0	25.8	38.7	30.9
8	44.2	26.9	43.0	26.3	41.8	25.3	41.0	26.0
9	43.1	25.6	41.5	23.4	41.8	24.0	38.7	28.0
10	44.0	25.4	41.5	23.5	41.6	24.7	40.2	25.2
11	44.0	25.1	42.5	25.5	41.5	26.0	38.5	25.2
12	44.2	28.5	42.5	25.6	42.5	26.4	40.0	27.8
13	44.5	26.3	42.2	25.0	43.5	26.9	39.8	27.7
14	44.0	27.6	42.0	25.5	43.7	25.4	41.7	28.3
15	43.6	24.2	42.2	24.0	44.0	24.5	40.2	26.4
16	44.9	25.5	43.3	23.0	44.6	23.7	42.1	25.2
17	45.6	28.5	43.7	26.0	44.7	24.6	40.8	26.9
18	45.7	29.3	44.0	25.2	44.7	26.8	40.1	27.1
19	46.7	29.2	44.6	24.2	45.2	25.7	42.2	26.2
20	46.3	28.4	45.0	25.5	46.0	26.0	42.4	27.3
21	46.6	26.7	44.8	26.2	46.1	26.3	43.4	27.2
22	46.3	24.3	45.2	22.7	45.5	24.6	40.7	27.0
23	46.8	26.8	45.6	27.7	44.9	24.4	48.2	25.7
24	46.6	26.5	45.0	25.2	45.0	25.2	45.0	26.3
25	45.0	27.8	44.5	26.6	45.5	28.3	43.8	27.3
26	44.8	28.2	43.0	25.5	44.3	25.7	41.7	27.8
27	44.4	26.5	42.6	25.0	44.0	25.7	41.2	26.4
28	43.6	26.5	43.2	24.0	43.9	25.4	41.1	26.4
29	43.5	25.4	43.0	22.5	43.3	23.6	43.2	25.4
30	43.6	25.3	43.0	25.0	44.0	25.0	41.0	26.3
31	41.3	26.7	41.7	24.2	43.1	25.0	40.6	25.3
MEANS	45.0	27.0	43.8	25.4	44.3	25.9	41.9	27.3
departure from normal	....	....	+1.1	+2.5	+0.2	+1.2	+0.7	+1.2

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	48.3	26th	1943	16.1	29th	1941
NASIRIYA	49.4	15th	1951	16.1	24th	1946
BASRAH	48.9	9th	1938	20.0	29th	1941

TABLE 5 . المعدل الشهرى لدرجات الحرارة للمصلة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

STATIONS	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	29.0	33.5	36.8	38.5	37.5	33.6	....	34.8
MOSUL	27.0	25.4	32.8	40.6	42.3	40.5	34.2	30.2	34.1
KIRKUK	29.3	28.1	36.0	41.5	42.7	40.6	33.8	31.0	35.4
KHANAQIN	....	26.4	37.3	41.7	43.2	41.5	35.5	....	28.2
RUTBAH	25.0	23.2	30.0	36.2	38.7	37.9	32.0	27.4	31.3
HABBANIYA	25.1	26.0	33.3	44.1	43.1	40.6	36.2	30.3	34.8
BAGHDAD	28.3	25.8	33.5	41.1	43.2	41.2	33.4	30.0	34.6
NUKHAIB	....	....	33.1	39.1	41.7	41.1	....	....	38.8
HAI	28.3	26.2	37.4	41.5	41.1	38.7	33.5	....	35.1
NAJAF	32.1	29.5	35.7	42.8	44.5	43.2	36.8	33.9	37.5
DIWANIYA	27.5	26.3	35.0	41.6	43.7	40.7	32.6	29.4	34.6
NASIRIYA	28.6	26.6	34.4	42.9	43.5	40.1	33.9	31.0	35.1
BASRAH	29.4	27.7	34.1	39.1	40.7	37.5	33.5	31.6	34.2

TABLE 6. المعدل الشهرى لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	10.6	11.0	10.9	11.0	11.0	11.1	....	10.9
MOSUL	11.8	11.3	12.5	13.5	11.8	11.0	11.1	11.4	11.8
KIRKUK	10.3	10.6	11.8	10.8	9.6	8.9	10.4	10.6	10.4
KHANAQIN	....	9.4	11.9	11.8	11.4	11.0	11.8	....	11.2
RUTBAH	9.5	10.2	11.7	10.0	8.1	7.9	8.0	8.5	9.2
HABBANIYA	13.7	13.7	16.6	14.2	11.5	14.4	15.0	14.5	14.2
BAGHDAD	13.5	13.3	16.1	14.8	13.3	15.3	15.9	14.8	14.6
NUKHAIB	....	....	9.5	8.6	8.2	7.9	....	....	8.6
HAI	14.9	14.8	21.2	21.3	21.1	21.7	17.8	....	19.0
NAJAF	10.5	11.5	11.8	11.2	10.5	10.2	11.2	10.9	11.0
DIWANIYA	13.7	14.7	18.2	17.2	13.5	14.3	14.0	12.6	14.5
NASIRIYA	14.1	13.4	16.0	15.6	15.0	17.9	18.5	17.4	16.0
BASRAH	26.5	25.8	27.3	27.3	26.2	29.3	29.1	27.1	27.3

TABLE 7. معدل درجة حرارة للمصلة الرطبة

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

STATIONS	0000	03000	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	11.8	19.2	20.1	21.0	20.6	19.2	....	18.7
MOSUL	17.2	16.3	19.6	22.7	22.7	21.7	19.8	17.9	19.7
KIRKUK	17.3	17.0	20.5	21.9	21.9	20.8	19.1	18.1	19.6
KHANAQIN	....	15.7	21.0	22.4	22.7	22.0	20.4	....	20.7
RUTBAH	15.1	15.0	18.4	19.9	20.7	19.8	17.4	15.7	17.8
HABBANIYA	18.4	17.6	20.7	23.1	23.2	23.1	20.9	19.7	20.8
BAGHDAD	18.7	17.0	21.5	23.8	23.6	23.7	21.4	19.7	21.2
NUKHAIB	....	....	18.5	20.2	20.8	20.6	....	....	20.0
HAI	18.8	17.8	23.2	25.2	25.5	24.6	21.5	....	22.4
NAJAF	18.7	18.0	20.7	22.6	22.8	22.2	20.8	19.4	20.7
DIWANIYA	18.4	18.3	22.8	24.6	24.2	24.0	21.3	19.5	21.6
NASIRIYA	18.9	17.8	21.7	24.1	24.3	24.3	22.6	21.2	21.9
BASRAH	24.3	23.3	25.9	27.4	27.4	27.6	26.5	25.2	26.0

TABLE 8. المعدل الشهرى لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW-POINT (C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.1	11.1	7.9	8.1	8.1	8.4	....	8.6
MOSUL	9.1	8.5	9.8	11.3	9.3	7.9	8.1	8.5	9.1
KIRKUK	7.1	7.6	9.0	7.5	5.9	4.7	7.4	7.5	7.1
KHANAQIN	....	5.7	9.2	9.2	8.8	8.1	9.2	....	8.4
RUTBAH	5.5	7.0	9.1	6.9	4.4	3.3	3.6	4.4	5.5
HABBANIYA	11.4	11.3	13.8	11.9	9.9	11.9	12.8	12.3	11.9
BAGHDAD	11.2	11.2	14.0	12.5	10.9	13.1	13.7	12.6	12.4
NUKHAIB	....	....	6.0	4.4	2.8	2.9	....	....	4.0
HAI	12.8	12.7	18.3	18.4	18.3	18.5	15.4	....	16.3
NAJAF	8.0	8.9	9.3	8.5	7.4	7.0	9.3	8.1	8.3
DIWANIYA	11.8	12.5	15.9	13.0	14.5	16.0	16.2	14.7	14.6
NASIRIYA	11.7	10.8	13.9	13.4	12.8	15.7	16.1	15.0	13.7
BASRAH	21.7	21.1	22.2	22.3	21.3	23.4	23.5	22.1	22.2

AUGUST 1963 .

TABLE - 9 .

MONTHLY MEAN RELATIVE HUMIDITY (%)

المعدل الشهري للرطوبة النسبية (٪)

	T I M E - G . M . T .								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	28	22	18	16	17	22	..	21
MOSUL	33	35	25	18	14	15	21	27	24
KIRKUK	26	28	20	14	12	12	20	24	20
KHANAQIN	..	27	19	15	13	14	20	..	18
RUTBAH	29	36	28	17	12	12	17	23	22
HABBANIYA	37	41	31	18	14	19	30	34	28
BAGHDAD	36	40	31	19	15	20	31	35	28
NUKHAIB	..	..	19	12	10	10	..	..	13
HAI	39	44	39	27	24	32	34	..	34
NAJAF	23	28	19	13	11	12	19	21	18
DIWANIYA	39	47	33	21	16	22	33	36	31
NASIRIYA	36	38	30	19	17	25	35	39	30
BASRAH	65	69	51	39	35	46	57	58	53

TABLE -10. MONTHLY MEAN PRESSURE (mbs) AT M.S.L. الضغط الجوي على سطح البحر

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	01.3	01.1	00.6	99.5	98.9	00.1	....	1000.3
MOSUL	00.2	00.8	00.8	99.7	98.3	97.9	99.5	00.3	999.7
KIRKUK	00.0	00.2	99.8	98.8	97.6	97.3	99.6	00.0	999.0
KHANAQIN	....	00.0	98.2	97.3	96.5	93.3	98.3	....	997.3
RUTBAH	01.6	02.3	02.8	02.3	01.5	01.3	01.4	01.8	1001.9
HABBANIYA	99.1	00.0	00.7	00.1	99.0	99.1	99.4	99.3	999.6
BAGHDAD	98.5	99.2	00.0	99.9	98.7	98.1	99.4	99.0	999.1
NUKHAIB	....	....	01.9	00.8	99.2	98.5	....	....	1000.1
HAI	98.2	97.8	98.8	98.6	97.5	97.0	98.1	....	998.0
NAJAF	96.9	98.0	98.8	98.3	97.2	96.6	97.6	97.5	997.6
DIWANIYA	98.7	99.5	00.2	00.1	99.0	98.5	99.3	99.3	999.3
NASIRIYA	98.0	98.6	99.5	99.2	98.0	97.6	98.5	98.4	998.5
BASRAH	98.0	98.6	99.6	99.6	98.5	97.9	98.5	98.6	998.7

TABLE -11. MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS) الغيوم الواطئة (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	0.0	0.0	0.0	0.0	0.1	0.0	....	0.0
MOSUL	0.0	0.1	0.1	0.1	0.4	0.2	0.0	0.1	0.1
KIRKUK	0.0	0.3	0.1	0.1	0.4	0.1	0.0	0.0	0.1
KHANAQIN	....	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
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	0.0	0.0	0.3	0.0	0.0	0.0	0.0
BASRAH	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0

TABLE -12. MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS) مجموع كمية الغيوم (الاثمان)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	0.0	0.0	0.0	0.0	0.1	0.0	....	0.0
MOSUL	0.1	0.1	0.1	0.1	0.5	0.3	0.1	0.1	0.2
KIRKUK	0.0	0.3	0.1	0.1	0.4	0.1	0.0	0.0	0.1
KHANAQIN	....	0.1	0.1	0.1	0.2	0.0	0.1	0.0	0.1
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	....	....	0.0	0.0	0.1	0.2	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	0.1
NASIRIYA	0.0	0.1	0.1	0.0	0.3	0.2	0.0	0.0	0.1
BASRAH	0.2	0.4	0.2	0.0	0.1	0.3	0.1	0.1	0.2

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TABLE 13-a.

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 SPEED
SINJAR	0300	13	2	0	0	1	0	10	3	2	23	6	0	0	8
	0600	7	0	3	0	4	0	6	2	9	19	3	0	0	5
	0900	5	0	3	2	2	0	7	0	2	22	0	0	0	7
	1200	7	1	2	1	7	3	0	2	1	22	8	0	0	10
	1500	5	0	1	0	3	2	0	2	1	20	9	1	0	10
	1800	10	1	0	0	2	1	4	6	4	27	3	0	0	8
	TOTAL	47	4	9	3	29	0	56	15	22	133	30	1	0	8
MOSUL	0000	1	0	0	0	3	2	0	4	11	17	3	0	0	6
	0300	2	0	0	2	6	0	6	3	6	24	1	0	0	5
	0600	10	1	1	0	2	0	4	3	6	21	4	0	0	6
	0900	8	1	2	1	6	2	3	3	6	24	1	0	0	6
	1200	9	1	3	2	6	1	2	3	2	21	3	0	0	6
	1500	7	1	2	0	6	1	0	2	2	22	1	0	0	5
	1800	1	0	1	0	1	1	2	3	7	19	3	0	0	6
	2100	2	0	1	0	1	1	0	4	12	13	6	0	0	5
	TOTAL	40	6	9	4	31	9	17	25	50	160	37	1	0	5
KIRKUK	0000	0	7	0	0	0	0	1	0	2	23	8	0	0	6
	0300	0	3	0	0	0	0	1	0	2	25	5	0	0	5
	0600	2	4	1	0	3	0	0	1	0	20	11	0	0	6
	0900	2	1	0	2	3	0	6	1	0	21	10	0	0	6
	1200	2	0	2	0	0	0	8	1	0	21	10	0	0	6
	1500	4	0	0	0	3	0	5	1	1	22	8	0	0	6
	1800	1	1	0	0	0	0	1	3	0	25	5	0	0	5
	2100	1	1	1	0	0	0	1	0	0	28	3	0	0	4
	TOTAL	12	17	4	2	9	0	34	4	4	186	98	4	0	0	5
KHANAQIN	0300	0	0	6	0	7	0	0	0	0	18	13	0	0	0	4
	0600	0	1	6	0	4	0	1	0	2	17	14	0	0	0	5
	0900	1	0	1	0	7	0	4	0	5	2	28	0	0	0	6
	1200	0	0	1	0	7	0	4	0	5	3	28	0	0	0	6
	1500	0	0	0	1	5	0	5	0	8	3	28	0	0	0	6
	1800	0	0	0	0	2	0	4	0	4	19	12	0	0	0	5
	TOTAL	1	1	16	2	32	0	18	0	25	64	123	2	0	0	5
RUTBAH	0000	1	0	1	0	1	1	3	7	7	20	7	0	0	5
	0300	0	0	0	0	2	0	1	0	9	22	2	0	0	5
	0600	5	0	1	0	0	0	1	0	4	24	0	0	0	4
	0900	4	2	0	0	2	0	0	0	2	24	0	0	0	4
	1200	2	1	0	0	0	0	0	0	2	25	0	0	0	4
	1500	3	0	0	0	0	0	0	0	8	25	0	0	0	4
	1800	3	0	0	0	0	0	0	0	7	21	3	0	0	5
	2100	2	0	0	0	1	0	5	9	14	14	3	0	0	5
	TOTAL	20	1	1	0	6	8	86	74	52	173	22	1	0	5

TABLE 13-b. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

STATIONS المحطة	TIME GMT. وقت كرينتش	DIRECTION الاتجاه								CALM سكون	SPEED IN KNOTS السرعة بالعقد				MEANS V.K. معدل السرعة بالعقد
		N	NE	E	SE	S	SW	W	NW		1-10	11-21	22-33	34	
HABBANIYA حبانية	0000	0	0	0	0	1	2	15	6	7	23	1	0	0	5
	0300	1	0	0	0	0	0	20	8	2	26	3	0	0	6
	0600	3	0	0	0	0	0	16	12	0	18	12	1	0	10
	0900	4	0	0	0	2	0	17	7	1	14	15	1	0	11
	1200	4	0	0	0	1	0	16	7	3	13	15	1	0	10
	1500	2	0	0	0	0	0	17	11	1	25	5	0	0	8
	1800	0	0	0	0	0	0	13	3	15	16	1	0	0	3
	2100	2	0	0	0	0	0	12	5	12	19	0	0	0	4
	TOTAL	16	0	0	0	4	2	126	59	41	153	52	2	0	8
BAGHDAD بغداد	0000	3	1	0	0	1	1	4	14	7	23	1	0	0	4
	0300	1	0	0	0	0	1	3	16	10	20	1	0	0	4
	0600	1	1	0	0	0	0	4	20	5	19	7	0	0	7
	0900	6	0	0	0	0	2	8	13	2	18	11	0	0	9
	1200	7	0	0	0	0	2	15	4	3	16	9	1	0	9
	1500	0	0	0	0	0	2	12	8	9	19	3	0	0	5
	1800	0	0	0	0	0	0	8	7	16	15	0	0	0	3
	2100	0	0	0	0	1	1	5	12	12	18	1	0	0	4
	TOTAL	18	2	0	0	2	9	59	94	64	150	33	1	0	6
NUKHAIB نخيب	0600	11	0	0	0	0	0	9	11	0	15	15	1	0	12
	0900	6	1	0	0	0	0	10	6	8	14	8	1	0	7
	1200	1	0	1	0	0	0	18	5	6	11	13	1	0	9
	1500	5	0	0	0	0	0	14	5	7	17	7	0	0	7
	TOTAL	23	1	1	0	0	0	51	27	21	57	43	3	0	9
HAI حي	0000	3	0	0	0	0	0	13	10	5	15	11	0	0	8
	0300	1	2	0	0	0	0	11	12	5	22	4	0	0	6
	0600	3	2	0	0	0	0	10	10	6	20	5	0	0	7
	0900	1	2	0	0	0	0	10	14	4	15	12	0	0	8
	1200	0	2	0	0	0	0	11	14	4	17	10	0	0	9
	1500	0	0	1	0	0	0	9	15	6	20	5	0	0	7
	1800	0	0	0	0	0	0	11	16	4	17	10	0	0	8
	TOTAL	8	8	1	0	0	0	75	91	34	126	57	0	0	8
NAJAF نجف	0000	15	3	0	0	0	0	0	7	6	21	4	0	0	6
	0300	13	5	0	0	0	0	1	10	2	25	4	0	0	7
	0600	14	7	0	0	0	0	1	9	0	23	7	1	0	10
	0900	17	5	1	0	1	0	0	7	0	17	12	1	1	10
	1200	14	5	1	1	0	1	2	5	2	17	11	1	0	10
	1500	17	8	1	2	0	0	1	2	0	24	7	1	0	9
	1800	13	5	1	0	0	0	0	5	7	22	2	0	0	5
	2100	12	1	0	0	0	0	2	4	12	17	12	0	0	4
	TOTAL	115	39	4	3	1	1	7	49	29	166	59	3	1	8

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TABLE 13-c. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

STATIONS المحطة	TIME GMT. وقت كرينتش	DIRECTION الاتجاه								CALM نوع ساكن	SPEED IN KNOTS السرعة بالعقد				MEANS V.K. معدل السرعة
		N	NE	E	SE	S	SW	W	NW		1-10	11-21	22-33	34	
DIWANIYA ديوانية	0300	8	3	0	0	0	0	18	0	2	22	7	0	0	8
	0300	5	1	0	0	0	1	18	2	4	24	3	0	0	7
	0600	10	0	1	0	0	0	16	4	0	22	9	0	0	8
	0900	8	0	0	0	1	0	17	5	0	19	12	0	0	9
	1200	10	0	0	0	1	0	17	3	0	13	18	0	0	10
	1500	15	0	0	0	0	0	11	2	3	25	3	0	0	6
	1800	6	0	2	0	0	0	15	2	5	24	1	0	0	5
	2100	10	2	0	1	0	0	13	2	3	26	2	0	0	5
	TOTAL	72	6	3	1	2	1	125	20	18	175	55	0	0	7
NASIRIYA ناصرية	0000	4	0	0	0	1	4	19	2	1	30	0	0	0	5
	0300	4	1	0	0	0	4	19	2	1	30	0	0	0	5
	0600	1	0	0	1	0	0	18	10	1	27	3	0	0	7
	0900	1	0	3	1	0	0	14	12	0	25	5	0	0	8
	1200	1	0	3	3	0	0	12	15	0	22	9	0	0	9
	1500	0	2	2	3	0	0	11	12	1	27	3	0	0	7
	1800	4	4	0	2	2	0	8	11	0	31	0	0	0	5
	2100	5	1	0	1	2	1	11	9	1	30	0	0	0	5
	TOTAL	20	8	5	11	5	9	112	73	5	222	21	0	0	6
BASRAH بصرة	0000	8	0	1	0	0	2	5	12	3	27	1	0	0	4
	0300	4	0	0	3	0	1	15	6	2	28	1	0	0	4
	0600	3	0	0	1	0	0	2	21	4	25	2	0	0	5
	0900	5	0	0	2	0	0	1	22	1	27	3	0	0	6
	1200	9	0	1	0	1	0	0	20	0	24	7	0	0	9
	1500	13	0	0	2	1	0	1	14	0	30	1	0	0	5
	1800	6	3	0	0	2	0	1	17	2	26	3	0	0	5
	2100	6	1	0	0	1	3	3	14	3	27	1	0	0	6
	TOTAL	54	4	2	8	5	6	28	126	15	214	19	0	0	6

TABLE 14 . 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	22 knots	180	1500	6th.
MOSUL	25	080	1500	15th
KIRKUK	18	270	1200	6th
KHANAQIN	16	320	0900	6th
RUTBAH	22	320	1200	11th
HABBANIYA	22	290	0900	11th
BAGHDAD	25	300	1200	7th
NUKHAIB	25	280	0900	11th
HAI	20	320	1500	6th
NAJAF	34	330	0900	11th
DIWANIYA	17	310	1200	12th
NASIRIYA	19	340	0900	6th
BASRAH	18	310	0000	7th

TABLE 15-a.

DAILY PRECIPITATIONS (MILLIMETERS) الهطول اليومي (ملليمترات)

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
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							
NORMAL				٥٫١			

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DATE	YEAR
MOSUL	٥٫٢ mm.	5th	1954
KIRKUK	٥٫٢	10th	1956
KHANAQIN	١٫٩	22nd	1938
RUTBAH	٤٣٠	10th	1952
HABBANIYA	٤٣٠	10th	1956
BAGHDAD	٤٣٠	7th	1942

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TABLE 15-b.

آب ١٩٦٣

الجدول الموسمي

(ملليمترات)

DAILY PRECIPITATIONS (MILLIMETERS)

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	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						
NORMAL						

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
DIWANIYA	0.5 mm.	11th	1940
BASRAH	tr.	12th	1962

TABLE - 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

NO. OF DAYS FOR THE CASES OF PHENOMENAS :

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	0	0	0	0	0	0	31	0	0
MOSUL	0	0	0	0	0	0	29	0	0
KIRKUK	0	0	0	0	0	0	30	0	0
KHANAQIN	0	0	0	0	0	0	31	0	0
RUTBAH	0	0	0	0	0	0	31	0	0
HABBANIYA	0	0	0	0	0	0	31	0	0
BAGHDAD	0	0	0	0	0	0	31	0	0
NUKHAIB	0	0	0	0	0	0	31	0	0
HAI	0	0	0	0	0	0	31	0	0
NAJAF	0	0	0	0	0	1	31	0	0
DIWANIYA	0	0	0	0	0	0	31	0	0
NASIRIYA	0	0	0	0	0	1	31	0	0
BASRAH	0	0	0	0	0	0	31	0	0

TABLE -17.

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	375.4	12.8	6 &9th	0
HABBANIYA	382.4	12.8	3.4.7-9th	0
BAGHDAD	378.4	12.7	8-10.14th	0
BASRAH	351.3	12.5	2nd	0

TABLE -18.

MONTHLY MEAN TEMPERATURES OF : المعدل الشهري لحرارة العشب والتربة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL	....	32.2	....
KIRKUK	20.4	33.3	30.6
HABBANIYA	24.6	35.0	31.8
BAGHDAD	20.9	35.0	31.0
NAJAF	....	36.8	36.2
NASIRIYA	23.9	36.2	32.3
BASRAH	22.4	....	....

الجمهورية العراقية

وزارة المواصـــلات

مديرية الطيران المدني العامة

REPUBLIC OF IRAQ

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

METEOROLOGICAL DEPARTMENT

شعبة المنـــاخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

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العـدد ٩ ، ١٠ ، ١١ و ١٢
مجـلد ٢٦
الشهر ايلول ، تشرين الاول ، تشرين
الثاني وكانون الاول
السـنة ١٩٦٣

الجمهورية العراقيـــــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــــة

مديرية الانواء الجوية العامـــــة

شعبة المنـــاخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر ايلول سنة ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR SEPTEMBER 1963

مجلد ٢٦ ، عدد (٩) ، ايلول ١٩٦٣

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TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C) @ 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	34.1	31.8	32.9	29.4	32.5	33.7
2	34.1	31.4	32.4	29.2	31.3	33.3
3	33.4	31.3	32.6	28.5	31.5	32.1
4	31.6	30.1	31.1	29.1	31.1	32.1
5	30.8	28.9	31.5	28.8	31.4	32.9
6	31.3	28.8	30.8	28.8	30.4	31.8
7	32.3	28.3	31.4	28.0	39.9	29.8
8	31.5	30.5	32.8	28.1	30.5	30.0
9	30.7	31.3	31.8	27.5	30.4	31.2
10	30.3	29.2	30.7	27.7	30.5	31.1
11	32.5	28.4	32.2	27.9	29.9	29.4
12	33.1	30.5	31.8	29.2	31.0	31.0
13	32.4	30.5	31.9	29.1	31.3	31.8
14	33.7	30.8	32.2	29.7	32.0	31.9
15	32.4	31.3	32.0	28.5	32.4	31.8
16	31.4	30.7	32.7	27.5	30.9	32.5
17	32.2	30.6	33.1	27.5	30.8	32.5
18	32.1	29.9	33.6	26.4	30.5	32.1
19	30.1	30.5	32.0	26.9	31.5	31.9
20	30.5	31.0	32.2	26.2	30.3	31.6
21	27.9	29.5	30.2	24.7	29.9	30.6
22	26.6	27.5	29.7	25.0	28.6	29.2
23	26.5	28.1	31.4	27.1	31.2	32.8
24	30.2	33.2	34.5	29.9	32.5	31.7
25	32.7	30.1	33.0	29.4	31.7	31.8
26	30.8	30.1	32.0	26.3	30.8	31.2
27	29.3	25.5	27.9	26.5	28.2	29.9
28	29.6	25.9	27.5	28.5	28.0	28.7
29	30.5	28.5	28.4	28.9	28.3	28.6
30	31.2	28.4	29.8	28.5	29.3	29.0
MEANS	31.2	29.8	31.5	28.0	30.4	31.3
DEPARTURE FROM NORMAL	....	+2.9	+1.1	+1.4	+0.2	+0.5

NOTE : AT SINJAR ,OBSERVATIONS 0000& 2100 ARE MISSED.

TIME : G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	37.7	33.6	35.4	32.5	32.4	31.5
2	37.2	33.5	34.9	32.4	32.9	32.0
3	36.1	33.1	34.5	31.9	32.6	29.9
4	36.4	33.8	34.0	32.6	33.2	32.3
5	36.4	33.6	34.9	33.3	34.5	32.5
6	36.0	33.4	34.4	32.2	33.6	33.5
7	35.6	31.5	33.2	30.9	31.4	31.1
8	35.8	31.3	32.7	30.2	30.7	29.4
9	35.9	31.6	33.0	30.6	31.4	30.1
10	35.2	31.1	32.4	30.5	31.2	28.8
11	35.1	31.5	32.1	29.4	30.9	30.0
12	35.6	30.0	32.1	29.9	29.8	29.5
13	36.4	32.5	33.8	31.6	31.0	29.9
14	37.5	32.3	34.9	31.6	31.3	32.0
15	36.2	31.8	34.7	32.7	32.3	31.6
16	36.4	32.3	34.4	33.4	33.0	31.2
17	37.3	32.7	36.2	33.0	32.7	31.9
18	36.4	32.1	35.8	32.3	32.6	31.5
19	35.1	31.8	34.6	32.1	33.1	33.5
20	34.9	31.0	31.7	31.9	33.6	32.2
21	32.0	31.4	31.8	29.5	31.8	33.5
22	31.9	31.4	30.9	29.3	31.6	32.5
23	35.2	31.9	32.9	32.5	33.1	33.0
24	37.1	30.0	33.8	32.1	32.7	28.7
25	38.1	30.6	34.0	31.5	31.2	30.9
26	35.1	32.2	33.9	31.5	31.5	30.0
27	33.5	32.6	31.4	30.4	30.7	30.8
28	34.1	29.6	31.6	28.8	28.9	27.6
29	34.9	32.2	32.6	30.5	30.1	27.6
30	34.9	31.6	32.2	30.1	31.0	28.4
MEANS	35.7	31.9	33.5	31.3	31.9	30.9
DEPARTURE FROM NORMAL	....	-0.1	....	-0.5	+0.3	-0.5

NOTE : AT NUKHAIB , OBSERVATIONS 0000,0300,1800 & 2100 are MISSED
AT HAI, OBSERVATION 2100 IS MISSED.

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1002.9	1003.0	1002.2	1005.1	1002.7	1002.2
2	00.2	00.6	00.8	03.7	01.3	00.8
3	99.4	00.1	99.9	03.1	00.8	00.4
4	01.1	01.8	01.8	02.8	02.0	02.1
5	05.1	05.8	05.5	05.4	04.3	04.4
6	05.3	06.0	05.3	07.0	05.2	05.0
7	04.5	05.1	04.4	07.0	04.8	04.4
8	04.4	05.0	03.5	06.0	03.5	03.1
9	05.2	05.3	03.3	05.4	02.5	01.7
10	05.4	05.6	03.9	05.9	02.8	01.8
11	05.2	06.5	04.9	06.8	04.8	04.3
12	08.3	08.3	07.6	08.3	07.3	07.0
13	07.5	07.3	06.7	07.2	06.2	06.0
14	04.1	04.7	04.5	04.9	04.0	04.0
15	03.2	04.2	04.4	05.0	03.7	04.0
16	06.0	06.5	06.2	06.9	05.2	05.4
17	05.7	06.4	06.4	06.8	04.8	05.2
18	05.5	06.0	05.8	06.9	04.7	05.4
19	07.1	07.1	06 8	08.1	05.6	05.6
20	07.0	07.2	06.8	08.4	05.6	05.7
21	05.7	05.8	05.2	08.4	05.4	04.9
22	09.4	09.4	08.9	08.7	08.3	08.4
23	14.1	13.7	12.6	09.3	10.1	10.5
24	13.2	13.0	13.3	10.5	11.5	12.5
25	11.7	12.2	11.4	10.7	10.2	10.8
26	10.5	10.3	09.7	11.7	09.1	08.9
27	11.2	11.5	11.2	12.9	11.3	11.0
28	13.9	14.0	13.6	13.3	13.3	13.0
29	14.1	12.5	13.6	12.6	12.9	12.9
30	10.3	10.9	10.4	11.6	10.1	09.8
MEANS	1006.9	1007.2	1006.7	1007.7	1006.1	1006.0
DEPARTURE FROM NORMAL		-0.5	-0.8	+1.2	-0.6	-0.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1015.5	29th	0600	1963	998.4	3rd	1500	1963	1963
MOSUL	1016.4	29th	0600	1963	998.1	2nd	1500	1963	
KIRKUK	1015.2	29th	0600	1963	997.7	3rd	1200	1963	
RITBAH	1014.9	28th	0600	1963	1002.0	3rd	1200	1963	
HABBANIYA	1014.7	29th	0600	1963	999.6	3rd	1500	1963	
BAGHDAD	1014.8	29th	0600	1963	999.4	3rd	1500	1963	
SINJAR	1016.2	29th	0600	1962	998.4	3rd	1500	1963	RECORD
MOSUL	1018.7	30th	0600	1938	997.8	4th	1500	1959	
KIRKUK	1017.1	29th	0300	1962	995.5	1st	1500	1955	
RUTBAH	1023.2	30th	0200	1938	997.9	1st	1200	1955	
BAGHDAD	1017.5	30th	0600	1938	996.5	1st	1500	1955	

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TABLE 2-b . المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1003.4	1000.5	1000.8	1002.5	1001.4	1001.2
2	01.8	99.0	99.4	01.1	00.1	00.0
3	01.3	99.1	98.9	00.9	00.1	00.2
4	01.9	00.5	00.0	00.2	01.3	01.6
5	03.0	00.7	02.1	04.0	03.3	03.6
6	04.9	03.3	03.0	04.7	03.6	03.6
7	04.9	02.9	02.6	04.1	03.5	03.8
8	03.7	01.9	01.8	03.4	02.6	02.9
9	02.3	01.1	00.7	02.0	01.1	01.2
10	03.4	99.9	00.4	01.8	00.8	01.2
11	05.1	03.1	03.1	04.7	04.2	04.2
12	07.6	06.1	05.5	06.9	06.8	07.2
13	06.7	04.8	04.2	05.7	04.9	05.6
14	04.2	03.5	02.3	04.4	03.9	04.4
15	03.8	04.6	02.4	04.6	04.8	06.3
16	04.5	06.0	03.4	05.4	06.1	07.5
17	04.2	06.3	03.3	05.6	06.4	07.7
18	04.7	06.1	03.3	05.7	06.3	07.5
19	05.3	06.1	03.5	05.8	06.0	07.4
20	05.6	05.5	03.5	05.4	05.7	07.7
21	06.0	04.7	03.6	05.5	05.3	06.5
22	07.3	07.5	06.3	08.4	07.8	08.5
23	07.7	10.0	07.7	10.1	10.1	11.6
24	10.3	12.4	09.8	12.1	12.3	13.2
25	08.7	10.9	08.5	10.6	11.0	11.5
26	09.3	07.9	06.6	08.4	08.1	08.4
27	11.1	07.6	09.1	10.1	08.3	07.9
28	12.8	10.2	11.2	12.4	10.9	10.9
29	12.8	10.4	11.1	12.1	10.4	10.5
30	09.4	07.9	08.1	09.6	08.4	08.3
MEANS	1006.0	1005.0	1004.2	1006.0	1005.5	1006.1
DEPARTUR FROM NORMAL	0000	-0.4	0000	-0.4	+0.2	+0.4

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1014.9	28th	0600	1963	999.9	2,3rd	1500	1963
HAI	1013.9	24th	0600	1963	998.3	2nd	1500	1963
NAJAF	1013.1	29th	0600	1963	998.0	3rd	1500	1963
DIWANIYA	1014.1	29th	0600	1963	1000.2	3rd	1500	1963
NASIRIYA	1014.0	24th	0600	1963	999.0	2nd	1500	1963
BASRAH	1014.5	24th	0600	1963	999.2	2nd	1500	1963
HAI	1016.3	29th	0600	1962	995.5	3rd	1500	1955
DIWANIYA	1015.7	29th	0600	1962	995.2	3rd	1500	1955
NASIRIY A	1016.1	29th	0600	1962	995.1	8th	0600	1948
BASRAH	1016.7	29th	0600	1962	995.7	1st	0300	1955

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TABLE - 3 .

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

الأيام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد	نخيب	هي	نجف	ديوانية	ناصرية	بصرة
DATE	SIN-JAR	MO-SUL	KIR-KUK	RUT-BAH	HABB-ANIYA	BAG-HDAD	NUKH-AIB	HAI	NA-JAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	19	24	17	15	26	24	7	32	16	31	31	55
2	19	26	19	19	30	27	11	31	19	31	26	57
3	20	29	26	29	30	30	16	35	24	34	28	52
4	20	24	20	23	34	27	14	34	25	31	29	47
5	20	23	20	20	31	25	19	33	20	28	24	44
6	20	27	22	20	30	26	13	34	23	30	28	53
7	21	31	23	18	29	32	18	33	27	30	25	49
8	22	25	20	19	27	35	15	32	28	31	25	60
9	22	22	19	17	32	31	8	33	18	33	23	55
10	22	24	15	19	21	23	10	34	17	31	27	64
11	19	29	16	20	23	26	11	33	14	31	26	61
12	20	26	18	18	26	26	10	35	18	31	25	55
13	20	26	16	15	27	24	11	30	16	27	28	49
14	18	25	17	22	27	29	8	33	16	35	32	48
15	20	29	17	22	26	32	15	34	18	31	30	52
16	23	29	22	28	33	31	14	40	22	27	30	46
17	21	24	14	26	34	31	11	40	16	25	32	43
18	21	28	13	30	31	29	11	42	14	25	29	45
19	22	25	21	29	29	28	16	41	16	27	33	43
20	24	26	16	34	33	33	17	47	24	31	24	46
21	31	34	25	39	35	35	22	40	29	39	25	56
22	32	39	28	37	37	42	19	42	27	38	35	72
23	33	36	23	31	33	37	14	43	29	29	52	76
24	27	26	15	22	28	42	8	48	22	29	34	66
25	24	30	17	24	30	37	8	41	20	27	26	58
26	27	27	18	33	27	37	11	30	19	28	23	64
27	25	30	20	27	29	31	13	25	27	25	22	47
28	22	25	20	23	32	30	16	27	27	27	22	46
29	19	24	16	17	37	31	13	21	28	25	22	54
30	19	27	19	19	30	34	12	26	30	31	26	36
MEANS	22	27	19	24	30	31	13	35	22	30	28	53
NORMAL	,,	34	21	27	29	26	,,	24	,,	32	25	46

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	42	0600	23rd	15	1500	14th
MOQUL	62	0300	23rd	10	1200	13th
KIRKUK	40	2100	22nd	5	1200	28th
RUTBAH	62	0300	23rd	7	0900	13th
HABBANIYA	62	0300	6th	10	1200	24th
BAGHDAD	58	0300	22nd	10	1200	12th
NUKHAIB	32	0600	21st	4	1500	1st
HAI	70	0300	25th	14	1200	29th
NAJAF	45	0300	23rd	6	1500	11th
DIWANIYA	63	0300	22nd	10	1200	24th
NASIRIYA	81	0300	23rd	6	0900	29th
BASRAH	100	0300	23rd	15	1200	13th

TABLE 4-a . درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	37.8	26.8	41.4	20.0	41.8	24.4	41.7	21.7	39.5	19.0
2	37.6	26.3	41.7	19.2	41.4	22.3	41.7	21.7	38.5	19.0
3	36.7	25.8	40.6	20.8	41.0	24.5	40.0	21.1	36.5	19.8
4	34.8	24.2	38.7	20.0	40.0	24.2	39.0	21.1	37.4	19.6
5	34.5	22.8	38.2	19.4	38.6	23.5	39.4	20.6	37.0	21.0
6	34.3	22.6	37.8	18.2	38.9	23.1	38.9	22.2	37.2	18.2
7	35.8	23.0	39.2	15.8	40.3	22.1	39.4	21.1	36.6	17.3
8	35.3	23.0	39.0	18.4	39.1	24.8	39.4	20.6	37.5	17.0
9	34.8	22.3	37.2	19.4	37.5	26.9	38.3	25.0	36.1	17.3
10	34.6	21.3	37.8	19.2	38.0	22.7	40.6	24.4	36.0	17.8
11	36.8	21.5	39.0	16.0	40.9	24.3	41.1	24.4	38.0	16.5
12	36.9	21.6	40.4	19.9	41.0	22.5	40.6	24.4	39.2	17.8
13	35.8	21.3	40.2	19.0	40.8	21.8	41.1	20.6	39.6	18.0
14	37.5	22.1	41.2	18.5	41.2	22.5	40.6	20.0	38.5	20.3
15	36.5	20.6	41.3	19.2	41.2	23.4	41.7	21.7	36.5	21.0
16	35.6	20.3	40.4	21.0	41.5	24.4	42.2	25.0	36.6	17.2
17	36.5	21.3	40.3	19.8	41.1	26.4	42.8	24.4	36.8	17.2
18	36.0	21.5	41.0	18.4	41.6	25.6	43.3	29.4	35.2	18.1
19	33.8	22.0	39.2	18.4	40.0	23.0	42.2	25.0	35.3	18.2
20	34.0	22.6	39.6	18.8	39.4	23.5	40.6	21.1	35.2	18.5
21	30.8	20.3	36.2	22.4	38.0	23.1	37.2	26.7	32.5	18.0
22	30.6	19.8	36.2	18.8	16.1	22.6	37.8	20.0	33.4	16.2
23	29.5	20.8	36.2	18.0	38.5	23.6	40.6	19.4	34.5	18.4
24	33.0	21.8	41.8	25.8	41.1	29.3	41.7	22.8	39.4	20.0
25	37.0	25.6	41.2	20.4	42.1	24.5	41.1	22.2	39.4	20.5
26	33.5	24.8	40.2	20.2	40.6	24.3	40.0	22.2	32.5	21.0
27	32.6	23.2	35.4	18.4	35.2	20.5	37.2	20.0	36.0	17.0
28	32.5	23.0	36.2	16.4	35.8	17.8	37.2	13.9	38.8	17.9
29	34.2	22.1	38.2	13.4	36.1	20.1	37.8	17.2	40.0	17.8
30	35.0	23.2	38.6	17.2	37.7	19.3	38.9	16.7	36.5	21.0
MEANS	34.8	22.6	39.2	19.0	39.6	23.4	40.1	21.8	36.9	18.5
DEPARTURE FROM NORMAL	....	....	+0.3	+3.2	+1.4	+1.3	+0.8	+1.0	+1.3	+1.2

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	39.1	6th	1962	16.3	13th	1962
MOSUL	47.2	?	1935	6.9	26th	1956
KIRKUK	46.1	2nd	1945	9.5	30th	1938
KHANAQIN	48.4	5&6th	1938	10.6	30th	1938
RUTBAH	45.0	3rd	1925	8.9	21st	1936

TABLE 4-b. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN
1	42.5	23.1	42.4	26.0	41.7	21.1	40.6	23.8
2	41.1	22.1	41.8	22.8	41.3	21.5	41.5	23.7
3	41.7	23.2	40.8	19.7	40.3	22.9	40.6	24.5
4	40.2	22.8	39.5	22.2	39.6	21.9	40.8	25.9
5	41.5	21.4	40.5	23.6	40.3	22.6	41.2	24.9
6	40.0	21.2	40.0	22.5	39.8	22.4	41.3	25.0
7	40.3	21.4	39.7	21.0	38.9	21.4	39.4	22.0
8	40.2	21.1	40.2	19.4	39.4	20.0	39.8	21.6
9	39.0	21.7	39.6	20.7	39.4	21.2	39.3	20.4
10	38.9	23.9	39.5	24.2	38.7	21.7	40.8	20.2
11	40.7	20.4	40.7	18.2	39.0	19.3	41.2	20.0
12	41.6	21.3	41.1	17.6	39.8	19.4	40.3	19.8
13	41.1	21.8	41.8	20.5	40.3	20.2	41.5	22.6
14	42.7	21.8	41.9	20.5	41.5	21.2	41.6	22.7
15	42.8	28.1	41.5	21.0	40.3	23.2	42.2	20.0
16	41.9	20.5	42.4	25.0	42.0	22.5	41.3	21.2
17	42.8	21.7	42.6	22.3	41.5	21.9	43.0	21.4
18	42.8	21.9	42.3	20.5	41.4	21.6	43.7	20.0
19	42.8	22.4	42.2	21.0	39.4	22.4	43.2	20.3
20	38.4	23.4	39.3	21.9	37.5	22.1	41.2	21.3
21	37.5	23.1	38.4	23.0	35.5	22.0	40.2	25.0
22	37.2	21.2	37.5	20.0	35.4	19.8	40.0	21.4
23	41.7	21.0	41.0	22.5	38.5	21.0	40.6	22.6
24	43.1	23.7	41.2	24.5	41.3	24.0	40.8	21.3
25	44.4	20.6	41.7	22.6	41.0	21.4	41.9	20.0
26	40.0	20.6	40.8	21.6	39.0	21.8	42.0	19.7
27	40.3	20.6	37.8	24.0	37.0	20.0	40.7	25.2
28	37.7	18.6	38.1	16.8	38.2	20.0	38.6	19.3
29	39.4	19.4	39.2	17.8	39.0	19.6	39.6	23.4
30	39.5	18.9	39.5	17.6	39.0	20.0	39.9	23.8
MEANS	39.5	21.8	40.5	21.4	39.5	21.3	41.0	22.1
DEPARTURE FROM NORMAL	-0.5	+0.4	+0.6	+0.4	....	....	+0.1	-0.5

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	48.4	2nd	1945	11.1	30th	1938
BAGHDAD	46.6	2&6th	1945	10.5	30th	1938
HAI	48.4	16th	1945	15.0	28th	1961

TABLE 4-c. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN
1	42.2	26.8	41.4	23.0	41.1	24.0	39.3	24.4
2	42.3	26.3	41.5	22.4	42.5	23.6	40.7	23.5
3	41.2	24.2	41.5	22.6	42.3	23.5	39.0	24.4
4	41.6	24.6	41.5	20.6	42.3	24.1	41.4	24.3
5	42.1	26.2	42.5	21.8	43.4	23.0	40.4	23.4
6	41.8	26.6	42.6	23.5	43.4	24.0	41.8	23.8
7	40.0	23.5	40.0	21.8	40.8	23.2	38.8	24.2
8	40.3	22.3	40.0	20.5	41.0	22.2	38.2	21.9
9	40.0	23.6	40.1	20.5	41.3	21.4	38.3	22.0
10	39.7	24.3	39.6	22.5	40.9	22.7	36.3	22.5
11	39.8	21.6	40.8	19.5	41.4	21.1	37.4	23.2
12	41.6	21.6	41.4	17.5	40.5	18.9	38.9	21.2
13	42.0	24.0	42.0	22.0	42.5	19.5	41.4	20.2
14	44.5	24.5	42.5	21.0	43.2	20.0	41.2	21.3
15	43.6	26.4	43.8	20.1	43.4	22.4	42.6	23.2
16	43.0	27.0	44.0	24.5	44.0	23.0	39.5	23.8
17	45.6	26.6	46.0	22.0	43.7	23.4	40.0	24.4
18	44.6	26.2	44.5	22.5	44.6	22.4	40.2	24.4
19	43.0	25.8	44.2	20.5	45.1	22.3	44.0	24.3
20	39.3	25.2	41.7	20.5	45.0	23.8	45.7	23.9
21	37.4	25.4	38.6	22.5	42.0	24.5	42.0	28.6
22	38.2	21.3	40.0	18.9	40.0	23.0	42.8	24.3
23	40.5	23.0	42.6	24.2	42.4	26.1	42.1	27.4
24	43.3	25.3	44.0	22.0	43.4	23.3	39.3	24.8
25	43.3	26.6	44.0	20.5	42.0	21.5	38.1	23.3
26	43.7	25.6	43.5	19.8	42.0	22.3	38.7	22.3
27	43.5	25.3	39.2	24.7	40.8	22.2	37.8	22.0
28	39.0	23.4	38.4	20.0	37.8	19.6	35.3	20.0
29	40.3	24.1	40.9	21.1	41.1	19.3	38.0	18.4
30	39.5	23.2	39.9	20.0	41.1	21.7	37.7	20.1
MEANS	41.6	24.7	41.7	21.4	42.2	22.4	39.9	23.2
DEPARTURE FROM NORMAL	....	....	+1.8	+1.7	+0.7	+0.9	+0.6	+0.8

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	46.6	1st	1945	11.6	25&28th	1943
NASIRIYA	48.9	6th	1940	13.9	23rd	1940
BASRAH	46.6	9th	1951	13.1	16th	1958

TABLE 5 . المعدل الشهرى لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C^{o})

	T I M E - G . M . T .								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	28.5	30.5	33.0	34.1	33.5	29.2	....	31.5
MOSUL	22.6	20.3	28.5	36.4	38.3	36.1	29.8	26.3	29.8
KIRKUK	25.9	24.5	32.1	37.6	38.9	36.1	29.6	27.6	31.5
KHANAQIN	....	23.2	33.5	38.3	39.5	37.2	30.7	....	33.7
RUTBAH	21.5	19.3	26.1	33.4	36.0	34.4	28.6	24.4	28.0
HABBANIYA	24.9	22.2	29.3	37.9	36.6	35.5	29.3	26.3	30.3
BAGHDAD	25.4	22.9	29.8	37.6	40.5	38.4	30.2	27.4	31.5
NUKHAIB	....	....	29.1	36.7	38.9	38.3	....	....	35.8
HAI	25.3	22.7	31.2	39.0	40.5	35.0	29.9	....	31.9
NAJAF	28.0	26.2	31.6	38.8	41.1	38.9	33.2	29.9	33.5
DIWANIYA	24.3	21.9	31.4	39.9	41.4	36.0	29.7	26.0	31.3
NASIRIYA	24.9	22.9	31.1	39.9	41.6	36.8	30.6	27.7	31.9
BASRAH	25.5	23.7	31.2	37.3	39.0	34.0	29.7	27.6	31.0

TABLE 6 . المعدل الشهرى لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.0	9.9	10.4	10.5	10.0	9.5	....	9.9
MOSUL	10.4	10.3	11.1	12.0	10.9	10.1	9.9	10.0	10.6
KIRKUK	7.9	8.1	9.0	7.2	6.7	7.4	9.6	8.6	8.1
KHANAQIN	....	8.0	9.9	10.4	10.3	9.8	10.2	....	9.7
RUTBAH	7.8	8.4	10.0	7.4	7.9	7.5	7.6	7.9	8.1
HABBANIYA	11.6	11.8	13.4	11.7	10.0	14.2	12.5	11.5	12.1
BAGHDAD	12.1	11.4	14.3	14.5	13.2	14.3	13.4	12.8	13.3
NUKHAIB	....	....	7.7	7.7	7.0	7.1	....	....	7.4
HAI	13.2	12.7	19.0	17.9	17.1	17.5	14.7	....	16.0
NAJAF	10.4	9.0	10.7	10.7	10.4	11.0	11.5	11.5	10.7
DIWANIYA	11.2	11.7	14.5	13.1	12.6	14.6	13.0	12.1	12.9
NASIRIYA	11.5	10.7	11.9	10.6	10.4	15.0	15.6	13.6	12.4
BASRAH	21.5	19.4	21.8	23.6	23.1	25.9	25.9	23.8	23.1

TABLE 7. معدل درجة الحرارة (سنتغراد) للبصلة الرطبة

MONTHLY MEAN WET-BULB TEMPERATURES(C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	15.7	17.6	18.8	20.0	18.8	16.8	....	18.1
MOSUL	14.8	13.6	17.3	20.7	20.9	19.8	17.4	15.8	17.5
KIRKUK	14.7	14.2	17.8	19.0	19.2	18.6	17.1	15.8	17.1
KHANAQIN	....	13.6	18.8	20.6	21.1	20.0	17.8	....	18.7
RUTBAH	12.7	12.0	16.0	18.3	18.8	18.1	15.8	14.1	15.7
HABBANIYA	16.4	15.3	19.0	21.1	21.1	21.3	18.9	16.8	18.7
BAGHDAD	16.7	15.5	19.0	22.2	22.5	22.0	19.1	18.0	19.4
NUKHAIB	....	....	16.2	19.3	19.9	19.1	....	....	18.6
HAI	16.6	15.4	21.3	23.1	23.2	21.9	18.9	....	20.1
NAJAF	16.9	15.5	18.4	20.9	21.7	21.1	19.4	18.2	19.0
DIWANIYA	15.8	15.0	20.0	22.4	22.8	21.7	18.7	17.0	19.2
NASIRIYA	16.2	14.9	18.8	21.3	21.8	22.1	20.2	18.2	19.2
BASRAH	21.1	19.7	23.1	25.6	25.9	25.5	24.1	22.6	23.5

TABLE 8. MONTHLY MEAN DEW-POINT (C) المعدل الشهرى لدرجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	5.3	6.7	7.4	7.7	6.9	6.0	....	6.7
MOSUL	7.3	7.0	8.2	9.5	7.9	6.7	6.5	6.5	7.5
KIRKUK	3.3	3.6	5.0	1.7	0.6	2.2	6.0	4.4	3.4
KHANAQIN	....	3.5	6.7	6.4	7.2	6.4	6.6	....	6.1
RUTBAH	2.8	3.8	6.8	4.6	3.3	2.6	2.7	3.1	3.7
HABBANIYA	9.0	9.2	11.5	8.7	6.2	11.6	10.0	8.8	9.4
BAGHDAD	9.6	9.2	12.1	12.1	10.6	12.4	10.0	10.6	10.8
NUKHAIB	....	....	3.1	2.3	2.2	1.5	....	....	2.2
HAI	10.8	10.2	16.4	15.5	14.8	14.9	12.5	....	13.6
NAJAF	7.1	5.1	7.4	7.3	7.3	7.8	8.6	8.7	7.4
DIWANIYA	8.3	9.0	12.3	10.3	9.9	12.2	10.5	9.5	10.3
NASIRIYA	8.5	7.4	8.9	7.1	7.0	12.5	13.1	11.0	9.4
BASRAH	18.5	16.0	18.6	19.8	19.3	21.4	21.2	19.8	19.3

TABLE - 9. المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (٪)

T I M E - G.M.T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	26	23	21	20	20	24	..	22
MOSUL	39	43	29	20	16	17	24	30	27
KIRKUK	24	27	19	11	10	13	24	24	19
KHANAQIN	..	28	19	15	15	15	23	..	19
RUTBAH	30	37	31	18	14	14	20	26	24
HABBANIYA	38	45	34	18	14	25	32	34	30
BAGHDAD	38	43	34	22	18	24	31	36	31
NUKHAIB	..	..	20	12	11	11	..	..	13
HAI	41	47	41	26	22	32	35	..	35
NAJAF	28	27	23	12	13	16	23	27	21
DIWANIYA	37	45	31	18	16	24	31	35	30
NASIRIYA	36	38	26	15	13	24	35	40	28
BASRAH	67	66	49	37	34	49	62	64	54

TABLE - 10. معدل الضغط الجوي على سطح البحر

MONTHLY MEAN PRESSURE(mbs)AT M.S.L.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	07.4	07.6	06.9	06.3	05.9	07.4	....	1006.9
MOSUL	07.8	08.4	08.2	07.2	05.7	05.1	07.1	07.7	1007.2
KIRKUK	07.2	07.6	07.5	06.4	05.0	05.1	07.3	07.5	1006.7
KHANAQIN	....	07.0	06.0	05.0	04.1	04.3	05.5	....	1005.3
RUTBAH	07.4	08.1	08.6	07.6	07.1	07.2	07.6	07.5	1007.6
HABBANIYA	05.4	06.3	07.3	06.4	05.4	04.6	06.2	06.2	1006.0
BAGHDAD	05.5	06.0	07.1	06.9	05.5	05.2	06.1	06.1	1006.0
NUKHAIB	....	....	07.6	06.6	04.9	04.6	....	....	1005.9
HAI	04.4	05.0	06.1	05.4	04.5	04.2	05.3	....	1005.0
NAJAF	03.5	04.2	05.5	04.9	03.6	03.3	04.3	04.2	1004.2
DIWANIYA	05.4	06.2	07.1	06.7	05.4	05.2	06.1	06.0	1006.0
NASIRIYA	05.0	05.6	06.8	06.2	04.8	04.7	05.7	05.4	1005.5
BASRAH	05.5	06.0	07.2	06.8	05.6	05.4	06.1	06.0	1006.1

TABLE -11. معدل كمية الغيوم الواطئة

MONTHLY MEAN LOW CLOUD AMOUNT(OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	0.7	0.8	0.5	1.0	0.6	0.1	...	0.6
MOSUL	0.3	0.8	0.6	0.7	1.1	0.8	0.3	0.3	0.6
KIRKUK	0.1	0.4	0.3	0.5	0.4	0.6	0.3	0.3	0.4
KHANAQIN	...	0.6	0.5	0.9	0.9	0.8	0.2	...	0.7
RUTBAH	0.0	0.1	0.1	0.1	0.9	0.7	0.2	0.0	0.3
HABBANIYA	0.0	0.2	0.5	0.4	0.4	0.4	0.3	0.2	0.3
BAGHDAD	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.1	0.1
NUKHAIB	...	...	0.1	0.2	0.2	0.3	...	...	0.2
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
NAJAF	0.0	0.6	0.4	0.3	0.4	0.4	0.1	0.1	0.3
DIWANIYA	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.1
NASIRIYA	0.0	0.0	0.1	0.0	0.3	0.3	0.0	0.0	0.1
BASRAH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

TABLE -12. معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	1.5	1.6	1.6	1.8	1.8	0.4	...	1.5
MOSUL	0.4	1.3	1.6	1.6	2.0	1.9	0.7	0.4	1.2
KIRKUK	0.3	0.5	0.4	0.6	1.0	1.1	0.5	0.4	0.6
KHANAQIN	...	1.0	1.0	1.3	1.4	1.3	0.4	...	1.1
RUTBAH	0.0	0.1	0.6	0.6	1.4	1.4	0.8	0.3	0.7
HABBANIYA	0.3	0.6	0.7	0.6	0.8	0.8	0.5	0.3	0.6
BAGHDAD	0.4	0.8	0.9	0.8	1.0	1.0	1.0	1.0	0.9
NUKHAIB	...	...	0.1	0.2	0.4	0.4	...	...	0.3
HAI	0.2	0.6	0.7	0.7	0.9	0.9	0.4	...	0.7
NAJAF	0.1	0.8	0.6	0.7	0.9	1.0	0.4	0.5	0.6
DIWANIYA	0.0	0.6	0.8	0.9	0.9	0.8	0.3	0.1	0.6
NASIRIYA	0.0	0.3	0.3	0.2	0.5	0.7	0.0	0.0	0.3
BASRAH	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1

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TABLE 13-a . — 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	سكون CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 و	معدل السرعة بالعقد MEAN K.
سنجار SINJAR	0300	12	6	3	0	0	0	2	6	1	24	4	1	0	3
	0600	5	0	5	1	1	2	9	3	4	22	4	0	0	7
	0900	2	0	3	0	6	0	12	4	3	16	11	0	0	10
	1200	2	0	0	2	6	3	10	4	3	14	12	1	0	10
	1500	5	1	1	0	7	1	9	2	4	10	16	0	0	10
	1800	19	0	0	0	1	0	6	4	0	26	4	0	0	8
	TOTAL	45	7	12	3	21	6	48	23	11	112	51	2	0	9
موصل MOSUL	0000	5	0	2	0	5	0	7	3	8	19	3	0	0	5
	0300	1	1	0	0	1	1	5	5	8	20	2	0	0	4
	0600	7	2	3	0	1	0	8	6	3	24	3	0	0	7
	0900	5	3	5	2	3	0	6	5	1	23	6	0	0	8
	1200	8	2	2	1	3	0	7	6	1	19	10	0	0	9
	1500	1	1	2	0	5	4	11	4	2	23	5	0	0	8
	1800	3	1	0	0	4	0	12	7	3	21	6	0	0	7
	2100	2	0	3	1	1	1	9	3	10	17	3	0	0	5
	TOTAL	32	10	17	4	31	6	65	39	36	166	38	0	0	7
كركوك KIRKUK	0000	1	8	0	0	0	0	0	1	20	8	2	0	0	2
	0300	0	3	0	0	0	0	0	0	27	3	0	0	0	1
	0600	1	5	1	1	4	1	0	0	17	10	3	0	0	3
	0900	1	5	0	1	8	3	9	1	3	23	4	0	0	6
	1200	1	1	0	0	3	7	12	1	5	22	2	1	0	6
	1500	1	1	0	0	4	4	8	3	9	18	3	0	0	4
	1800	0	2	0	0	0	0	2	0	26	4	0	0	0	1
	2100	1	5	0	0	0	0	2	0	22	6	2	0	0	2
	TOTAL	6	30	1	1	19	15	33	6	129	94	16	1	0	3
خانقين KHANAQIN	0300	0	0	9	0	7	0	1	1	12	18	0	0	0	3
	0600	1	0	9	0	3	0	3	1	13	15	2	0	0	5
	0900	2	0	3	1	11	0	6	4	3	25	2	0	0	5
	1200	3	0	1	0	10	0	13	2	1	28	1	0	0	7
	1500	1	1	0	0	9	0	11	4	4	26	0	0	0	4
	1800	0	1	4	0	2	1	1	0	21	9	0	0	0	3
	TOTAL	6	2	26	1	42	1	35	12	54	121	5	0	0	5
رطبة RUTBAH	0000	0	1	1	0	1	0	4	4	19	9	2	0	0	2
	0300	2	0	0	0	4	1	5	3	15	14	1	0	0	3
	0600	10	0	0	0	4	0	5	6	5	23	2	0	0	5
	0900	6	1	1	2	3	3	5	7	2	26	2	0	0	5
	1200	4	1	0	2	2	6	7	5	3	21	6	0	0	7
	1500	6	0	3	1	1	2	11	2	4	24	2	0	0	6
	1800	8	1	2	1	0	0	4	7	7	23	0	0	0	4
	2100	6	0	0	0	3	0	4	2	15	15	0	0	0	2
	TOTAL	42	4	7	6	18	12	45	36	70	155	15	0	0	34

TABLE 13-b. عدد تكرار رصدات الرياح السطحية :-

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه								بدون سكون CALM	SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW		1-10	11-21	22-33	34+	
حبانية HABBANIYA	0000	1	0	2	0	1	0	7	4	15	15	0	0	0	3
	0300	0	0	2	1	0	1	10	7	9	20	1	0	0	4
	0600	0	1	2	0	1	0	10	13	3	22	5	0	0	7
	0900	5	0	1	1	0	2	8	12	1	19	10	0	0	9
	1200	4	0	0	1	2	0	11	10	2	20	8	0	0	8
	1500	4	1	3	0	0	0	7	8	7	22	4	0	0	4
	1800	1	0	3	0	0	0	5	7	14	15	1	0	0	3
	2100	0	0	3	0	0	0	7	6	14	15	1	0	0	3
	TOTAL	15	2	16	3	4	3	65	67	65	148	27	0	0	41
بغداد BAGHDAD	0000	1	2	3	1	0	0	1	13	9	21	0	0	0	3
	0300	2	0	1	2	0	1	0	11	13	16	1	0	0	3
	0600	2	0	1	4	1	0	4	9	9	21	0	0	0	3
	0900	5	0	1	2	4	0	3	11	4	25	1	0	0	5
	1200	3	1	0	1	3	1	4	12	5	19	6	0	0	7
	1500	3	0	0	2	0	1	4	11	9	21	0	0	0	3
	1800	0	1	1	3	0	0	1	10	14	15	1	0	0	3
	2100	1	0	2	1	1	0	1	14	10	20	0	0	0	3
	TOTAL	17	4	9	16	9	3	18	91	73	158	9	0	0	4
نخيب NUKHAIB	0600	12	0	2	0	1	0	6	6	3	19	7	1	0	9
	0900	4	2	0	1	3	0	6	6	8	19	2	1	0	6
	1200	6	1	1	2	5	1	7	2	5	18	7	0	0	7
	1500	6	1	0	1	7	1	3	6	5	20	5	0	0	7
	TOTAL	28	4	3	4	16	2	22	20	21	76	21	2	0	7
هي HAI	0000	0	0	1	0	0	0	13	8	8	17	5	0	0	7
	0300	1	1	2	2	0	0	10	10	4	21	5	0	0	7
	0600	0	0	4	3	1	1	10	8	3	22	5	0	0	6
	0900	2	0	5	2	1	0	8	7	5	15	9	1	0	8
	1200	1	1	5	0	0	1	11	6	5	12	13	0	0	9
	1500	0	0	2	3	0	0	9	6	10	15	5	0	0	10
	1800	0	1	6	0	0	1	13	5	4	18	8	0	0	7
	TOTAL	4	3	25	10	2	3	74	50	39	120	51	0	0	8
نجف NAJAF	0000	10	5	0	3	3	1	1	3	5	21	4	0	0	7
	0300	8	1	2	0	0	2	11	4	2	25	3	0	0	7
	0600	9	5	1	0	1	1	5	8	0	22	7	1	0	9
	0900	11	5	1	0	1	1	4	4	0	22	8	1	0	8
	1200	12	5	3	3	2	1	3	1	0	19	11	0	0	10
	1500	9	8	2	6	2	1	0	2	0	23	7	0	0	8
	1800	10	5	3	5	2	0	1	1	3	24	3	0	0	7
	2100	7	9	0	4	1	1	3	3	2	23	5	0	0	7
	TOTAL	66	43	12	21	15	8	28	25	12	179	48	1	0	8

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TABLE 13. عدد تكرار اتجاهات الرياح السطحية

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.
DIWANIYA	0000	9	2	2	3	3	0	8	1	2	20	8	0	0	7
	0300	2	1	2	1	2	3	13	3	6	22	2	0	0	5
	0600	5	1	0	1	3	3	12	4	0	22	8	0	0	6
	0900	10	0	1	0	2	4	7	5	1	17	12	0	0	9
	1200	12	0	0	1	3	4	0	6	2	19	9	0	0	8
	1500	10	0	2	1	3	4	0	7	3	27	0	0	0	4
	1800	8	1	1	2	4	0	8	0	3	24	3	0	0	7
	2100	5	1	1	4	1	0	13	3	2	27	1	0	0	6
NASIRIYA	0000	2	1	0	0	3	3	10	5	6	24	0	0	0	4
	0300	0	0	1	1	5	3	12	4	4	26	0	0	0	4
	0600	2	0	0	0	4	3	13	7	0	29	1	0	0	6
	0900	4	0	0	2	0	1	12	11	0	23	7	0	0	8
	1200	3	0	4	2	2	1	2	16	0	23	7	0	0	8
	1500	5	0	4	6	1	0	5	6	3	26	4	0	0	5
	1800	4	1	2	7	2	0	6	6	2	28	0	0	0	5
	2100	5	1	0	6	4	0	9	4	1	29	0	0	0	5
	TOTAL	25	3	1	25	21	11	69	59	16	208	16	0	0	5
BASRAH	0000	4	0	0	0	4	3	4	12	3	27	0	0	0	4
	0300	2	0	0	1	2	6	12	4	3	27	0	0	0	4
	0600	3	0	1	2	0	2	8	12	2	27	1	0	0	5
	0900	6	0	1	1	2	2	1	16	1	23	8	0	0	6
	1200	7	1	2	1	1	1	0	16	1	25	4	0	0	6
	1500	13	0	0	2	1	0	0	11	3	27	0	0	0	4
	1800	5	1	1	0	7	0	0	13	3	27	0	0	0	4
	2100	5	1	0	1	7	2	3	6	4	26	0	0	0	4
	TOTAL	46	3	5	8	24	16	28	90	20	209	11	0	0	4

TABLE 14. اعلى سرعة هبوب خلال ساعة واحدة

HIGHEST WIND-SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	24 knots	350	0300	25th
MOSUL	21	270	1200	5th
KIRKUK	26	160	1200	11th
KHANAQIN	16	160	1200	16th
RUTBAH	20	340	0300	25th
HABBANIYA	17	270	1200	6th
BAGHDAD	16	300	1200	6th
NUKHAIB	25	360	0900	26th
HAI	22	270	0900	28th
NAJAF	23	350	0600	10th
DIWANIYA	17	330	1200	28th
NASIRIYA	19	320	1200	25th
BASRAH	15	340	0900	26th

TABLE 15-a.

DAILY PRECIPITATION (MILLIMETERS) الهطول اليومي (ملليمترات)

الايام DATE	سنجار SINJAR	موصل MOSUL	كركوك KIRKUK	خانقين KHANAQIN	رطبة RUTBAH	حبانية HABBANIYA	بغداد BAGHDAD
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19			tr.				
20		tr.	tr.				tr.
21							
22	tr.			tr.			
23	2.7	tr.		tr.			
24	tr.	tr.					
25							
26	0.4						
27							
28							
29							
30							
TOTAL	3.1	tr.	tr.	tr.			tr.
NORMAL		0.4	0.2	0.4	0.9	0.1	0.1

STATIONS	HIGHEST AMOUNT OF RAIN DURING ONE DAY		DAY	YEAR
MOSUL	7.1	mms.	29th	1957
KIRKUK	3.2		28th	1942
KHANAQIN	1.0		25th	1951
RUTBAH	15.0		12th	1957
HABBANIYA	6.4		25th	1951
BAGHDAD	0.6		30th	1951

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TABLE 15-b.

الجدول ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRICIPITATION (MILLIMETERS)

الأيام	النخيب	الحي	النجف	الديوانية	الناصرية	البصرة
DATE	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						
NORMAL	...					

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
HAI	٢٣.٥	27th	1957
DIWANIYA	٢٣.٥	22nd	1953
NASIRIYA	٥.٢	7th	1957
BASRAH	٥.٤	12th	1938

TABLE -16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

NO. OF DAYS FOR THE CASES OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	2	0	0	0	0	0	18	0	0
MOSUL	0	0	0	0	0	0	19	0	0
KIRKUK	0	0	0	0	0	0	24	0	0
KHANAQIN	0	0	0	0	0	0	22	0	0
RUTBAH	0	0	0	0	0	0	24	0	0
HABBANIYA	0	0	0	0	0	0	25	0	0
BAGHDAD	0	0	0	0	0	0	24	0	0
NUKHAIB	0	0	0	0	0	0	27	0	0
HAI	0	0	0	0	0	0	30	0	0
NAJAF	0	0	0	0	0	0	25	0	0
DIWANIYA	0	0	0	0	0	0	25	0	0
NASIRIYA	00	0	0	0	0	0	29	0	0
BASRAH	0	0	0	0	0	0	30	0	0

TABLE -17.

DURATION OF SUNSHINE . مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	296.9	12.0	1st	0
HABBANIYA	327.5	12.2	1st	0
BAGHDAD	316.0	11.6	2&4th	0
BASRAH	331.9	11.8	4&5th	0

TABLE -18.

MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لحرارة العشب و القريبة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL	....	28.7	....
KIRKUK	15.8	29.4	29.5
HABBANIYA	20.8	31.8	31.4
BAGHDAD	16.4	32.8	31.2
NAJAF	....	33.2	33.7
NASIRIYA	19.9	33.3	32.1
BASRAH	17.8	....	....

OCTOBER 1963 (10)

الجمهورية العراقيـــــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــــة

مفتشية الانواء الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر تشرين الاول ١٩٦٣

CLIMATOLOGICAL DATA FOR OCTOBER 1963

مجلد ٢٦ عدد (١٠) تشرين الاول ١٩٦٣

VOLUME 26 , No. (10) , OCTOBER 1963

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OCTOBER 1963 . (1) تشرين الاول ١٩٦٣

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	30.0	26.3	28.5	26.9	28.5	28.4
2	29.3	25.9	28.1	25.9	27.7	27.9
3	29.3	25.1	28.0	27.2	27.7	28.7
4	29.8	25.8	27.8	25.3	27.5	28.4
5	27.8	25.9	29.0	23.6	26.9	28.3
6	28.0	24.6	26.9	24.1	25.3	26.5
7	29.0	25.7	27.1	25.3	26.1	26.1
8	29.7	25.2	28.0	27.7	26.7	27.4
9	29.4	25.4	28.7	27.4	27.6	27.3
10	30.3	25.4	29.1	27.2	26.8	28.1
11	29.3	25.5	30.8	27.8	26.7	26.9
12	29.4	24.4	28.4	25.7	28.6	26.6
13	26.9	24.4	27.7	24.8	26.4	26.5
14	27.9	26.0	28.0	25.3	28.0	27.2
15	27.6	27.1	28.3	23.6	27.7	27.4
16	25.6	23.8	25.3	22.4	25.1	25.6
17	25.8	22.8	25.0	23.9	24.9	24.7
18	26.1	23.4	25.5	25.1	23.1	24.3
19	22.7	21.0	24.5	23.5	24.0	25.5
20	18.4	18.6	23.9	24.4	25.5	26.6
21	17.7	18.7	22.2	21.1	25.4	26.7
22	15.0	16.9	19.8	15.5	23.4	25.2
23	15.9	17.7	18.9	15.6	21.2	22.9
24	16.7	17.2	18.5	15.1	20.8	21.6
25	16.9	17.0	18.1	14.7	19.3	20.8
26	16.7	16.0	16.9	16.9	17.9	17.1
27	17.3	16.6	17.5	17.3	19.6	20.5
28	19.8	17.4	18.8	17.7	21.0	21.7
29	18.7	16.6	19.0	18.5	20.1	20.2
30	18.8	16.8	18.7	18.5	19.6	19.6
31	17.7	17.2	20.0	19.9	19.8	20.2
MEANS	24.3	22.0	24.4	22.5	24.5	25.0
DEPARTURE FROM NORMAL	....	+1.9	+0.2	+1.4	+0.1	+0.2

NOTE : AT SINJAR , OBSERVATIONS 0000&2100 ARE MISSED.

TIME : G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

TABLE 1-b. المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	33.5	31.3	31.0	29.0	30.5	27.8
2	33.4	31.3	30.7	29.2	29.9	28.4
3	33.4	30.6	30.5	29.8	29.5	28.6
4	33.7	30.1	30.6	29.4	29.8	27.0
5	31.8	31.7	30.8	30.4	31.1	30.2
6	32.2	29.5	30.1	29.2	30.7	30.2
7	32.6	29.2	29.3	28.0	29.3	28.5
8	32.5	29.6	30.3	29.4	29.1	27.7
9	33.0	30.1	30.6	28.3	29.1	26.0
10	33.5	28.4	29.7	27.9	26.8	26.0
11	33.5	26.5	29.1	26.3	26.2	27.7
12	34.2	26.9	28.3	26.2	27.9	25.7
13	33.2	26.8	28.4	26.9	28.6	27.6
14	32.1	26.6	29.0	27.0	27.4	27.2
15	32.0	26.4	29.5	27.3	28.0	27.0
16	30.4	28.1	27.8	27.0	27.3	27.4
17	30.2	27.5	27.4	26.3	26.4	26.7
18	30.4	26.9	27.6	26.2	26.8	26.1
19	29.1	28.0	27.1	26.6	26.8	25.4
20	29.1	28.1	27.6	27.1	28.0	28.0
21	27.1	28.0	26.5	26.8	27.7	27.1
22	25.1	28.1	26.3	26.7	28.4	29.3
23	22.8	27.5	24.0	24.5	25.7	29.1
24	23.4	25.8	22.5	23.2	24.8	27.3
25	21.2	23.8	21.7	22.1	24.7	25.3
26	19.5	21.5	19.1	20.1	21.9	22.8
27	22.2	21.8	20.8	20.9	22.2	23.2
28	23.6	23.9	22.2	21.9	22.4	23.1
29	24.0	23.0	22.7	21.1	22.4	23.4
30	24.2	22.2	22.2	21.9	23.3	22.5
31	23.4	22.0	22.0	21.7	22.5	24.1
MEANS	29.0	27.2	27.0	26.1	26.9	26.7
DEPARTURE FROM NORMAL	....	+0.7	....	+0.1	+1.0	+0.9

NOTE: AT NUKHAIB, OBSERVATION 0000,0300,1800 & 2100 ARE MISSED.
AT HAI, OBSERVATION 2100 IS MISSED.

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1010.4	1011.2	1011.0	1012.7	1011.2	1010.9
2	12.7	13.2	13.2	13.5	12.7	12.7
3	13.2	13.6	13.0	12.8	12.8	12.4
4	11.2	12.1	11.8	12.0	10.9	10.9
5	10.2	10.5	09.9	11.5	09.5	09.6
6	11.1	11.9	11.4	12.1	10.9	11.1
7	13.0	11.2	13.4	12.7	12.6	12.8
8	15.2	16.0	15.2	13.7	14.5	14.4
9	15.2	15.6	14.5	14.4	13.5	13.2
10	12.0	13.1	11.9	12.4	11.0	10.5
11	12.0	12.6	11.8	10.8	11.1	11.0
12	12.9	14.1	14.3	12.4	12.8	13.6
13	13.7	14.3	14.5	14.1	13.4	13.9
14	13.1	13.8	13.7	12.4	11.9	13.4
15	11.2	11.3	12.1	13.0	11.7	12.3
16	14.5	15.0	15.6	16.2	15.2	15.3
17	16.6	17.3	17.0	17.3	16.8	16.7
18	16.1	16.5	16.3	15.7	15.9	15.8
19	17.3	18.0	17.0	15.9	15.5	15.6
20	16.7	17.0	15.7	13.9	14.3	14.8
21	14.9	14.9	14.8	12.9	12.5	12.3
22	12.3	13.8	13.0	11.6	10.6	10.3
23	14.4	14.6	14.5	13.7	13.4	13.6
24	16.5	16.2	15.3	15.1	13.8	13.1
25	16.7	16.6	16.0	17.1	15.9	15.2
26	17.0	17.6	17.3	16.8	17.0	17.2
27	18.5	18.5	17.9	17.1	16.6	16.8
28	18.3	18.4	17.5	17.7	17.1	16.7
29	17.7	18.1	17.3	17.3	17.0	16.7
30	16.4	16.4	16.3	15.5	15.6	15.8
31	16.0	16.6	15.9	13.8	13.7	14.8
MEANS	1014.4	1014.8	1014.5	1014.1	1013.6	1013.7
DEPARTURE FROM NORMAL	....	+0.3	+1.4	-0.3	+0.2	+1.1

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1015.9	28th	0600	1963	1008.7	5th	1500	1963	1963
MOSUL	1020.1	27th	0600	1963	1008.1	5th	1500	1963	
KIRKUK	1019.3	27th	0600	1963	1007.5	5th	1200	1963	
RUTBAH	1019.3	17th	0600	1963	1009.7	22nd	1200	1963	
HABBANIYA	1018.9	29th	0600	1963	1008.2	22nd	1200	1963	
BAGHDAD	1018.6	26th	0600	1963	1007.7	22nd	1500	1963	
SINJAR	1023.3	28th	0300	1962	1005.6	10th	1200	1962	RECORD
MOSUL	1026.0	26th	0600	1950	1003.2	12th	1200	1948	
KIRKUK	1024.4	29th	0600	1947	1002.5	7th	1200	1950	
RUTBAH	1027.3	15th	0000	1948	1000.0	8th	1200	1962	
BAGHDAD	1023.4	29th	0300	1947	1003.8	11th	1500	1958	

TABLE 2-b.

الضغط اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	هي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1011.2	1008.6	1009.4	1010.6	1009.1	1008.8
2	12.2	10.5	11.0	12.1	10.8	10.6
3	11.9	10.6	10.6	12.2	11.1	11.0
4	10.0	09.9	08.6	10.7	10.4	10.7
5	09.3	08.7	07.5	09.2	09.1	10.5
6	10.3	10.0	08.9	10.6	09.7	10.7
7	12.0	11.9	10.8	12.5	11.7	11.9
8	13.5	12.2	12.4	13.9	12.8	12.5
9	13.6	10.6	10.8	12.4	10.8	10.4
10	11.1	08.1	08.5	09.7	08.2	08.1
11	10.7	10.0	09.1	10.7	10.3	11.2
12	11.9	13.7	11.8	13.6	13.7	14.8
13	12.2	14.1	11.8	13.9	13.8	14.9
14	11.3	12.9	11.0	13.2	12.9	13.8
15	11.4	12.8	10.5	12.8	12.9	13.8
16	15.4	13.8	13.2	14.8	14.1	14.7
17	16.6	15.1	15.1	16.6	15.6	15.2
18	15.7	14.0	14.3	15.6	14.3	14.4
19	14.5	14.3	13.6	15.3	14.4	15.1
20	13.7	14.1	12.7	14.4	13.9	15.3
21	12.4	11.9	09.9	11.2	13.0	14.4
22	10.1	09.6	07.3	08.8	09.4	12.0
23	13.4	11.1	11.5	12.5	11.3	11.9
24	12.6	11.3	10.9	12.3	11.4	12.3
25	16.2	12.5	12.8	14.2	12.7	12.2
26	14.1	13.1	15.2	16.4	14.8	14.3
27	16.3	14.0	14.5	15.6	14.2	13.9
28	16.8	13.9	14.8	15.8	14.2	14.9
29	14.0	14.9	15.2	16.6	15.7	15.6
30	14.6	14.5	13.5	15.4	14.7	14.8
31	14.4	13.6	12.8	14.3	13.3	13.6
MEANS	1013.1	1012.5	1011.6	1013.2	1012.4	1012.9
DEPARTURE FROM NORMAL	....	-0.2	....	+0.8	-0.1	+0.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1018.7	28th	0600	1963	1007.6	4th	1500	1963
HAI	1016.4	17th	0600	1963	1007.0	10th	1500	1963
NAJAF	1016.9	17th	0600	1963	1004.4	22nd	1500	1963
DIWANIYA	1018.1	17th	0600	1963	1006.5	22nd	1500	1963
NASIRIYA	1017.4	29th	0600	1963	1006.6	10th	1200	1963
BASRAH	1017.2	29th	0600	1963	1007.3	10th	1200	1963
HAI	1022.4	29th	0600	1947	1002.9	1st	0000	1954
DIWANIYA	1022.7	29th	0600	1947	1002.6	1st	0000	1954
NASIRIYA	1022.5	29th	0600	1947	1003.2	1st	0000	1954
BASRAH	1021.0	26th	0600	1950	1002.9	1st	0000	1954

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TABLE -3. المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (٪) OF 8 OBSERVATIONS

DATE الايام	SIN-JAR سنجار	MO-SUL موصل	KIR-KUK كركوك	RUT-BAH رطبة	HABB-ANIYA حبانية	BAG-HDAD بغداد	NUKH-AIB نخيب	HAI حي	NA-JAF نجف	DIWA-NIYA ديوانية	NASI-RIYA ناصرية	BAS-RAH بصرة
1	21	35	26	23	32	38	17	31	24	33	30	55
2	21	36	27	27	41	44	18	32	26	34	32	55
3	22	42	26	22	40	39	18	33	22	34	31	49
4	22	39	29	26	41	40	13	34	23	37	30	53
5	23	36	21	27	41	39	17	34	27	32	33	35
6	23	40	26	28	42	42	18	38	25	30	33	50
7	21	38	26	30	40	41	18	34	25	34	31	62
8	22	35	13	27	40	40	17	33	26	32	29	64
9	21	32	21	24	34	39	14	31	21	29	26	67
10	18	32	20	20	35	35	10	32	21	28	27	61
11	20	32	15	17	36	40	12	41	25	36	39	62
12	20	33	17	24	25	39	12	51	24	37	34	76
13	28	34	25	26	41	41	14	65	22	38	46	69
14	25	40	24	27	33	35	14	55	24	36	40	65
15	23	34	20	34	38	38	13	48	23	33	42	58
16	31	39	33	37	47	45	21	43	30	38	39	60
17	35	44	38	29	44	50	23	43	33	43	40	68
18	30	42	34	28	46	53	23	44	31	45	40	72
19	39	56	38	37	50	42	17	43	30	42	43	75
20	73	80	45	36	50	40	25	44	38	42	41	69
21	85	88	60	60	50	43	31	49	44	33	49	80
22	95	92	69	86	56	50	41	56	42	44	51	81
23	76	80	63	73	60	53	41	74	41	47	50	77
24	60	74	63	79	61	57	40	56	52	50	54	80
25	61	71	62	80	62	51	44	56	49	51	46	82
26	63	76	62	69	67	70	51	51	60	55	42	57
27	58	69	53	62	58	50	34	49	51	51	43	55
28	51	65	49	60	55	46	34	40	42	47	40	55
29	52	68	49	55	61	52	34	46	46	53	45	44
30	52	68	51	57	61	52	31	48	48	49	40	60
31	64	74	47	39	59	49	29	46	45	46	36	52
MEANS	40	52	37	41	47	45	24	45	34	40	39	63
NORMAL	..	63	28	32	36	21	..	34	..	38	42	63

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	98	1800	11th	17	1500	7th
MOSUL	97	1800	22nd	14	1200	12th
KIRKUK	94	0000	23rd	11	1200	5th
RUTBAH	100	0300	26th	8	0900	10th
HABBANIYA	88	0300	31st	12	1200	14th
BAGHDAD	85	2100	26th	12	1200	12th
NUKHAIB	64	0600	26th	7	1200	11th
HAI	85	0300	23rd	18	1200	9th
NAJAF	84	0300	27th	11	1200	9th
DIWANIYA	83	0300	27th	14	1200	10th
NASIRIYA	81	0300	12th	12	1200	10th
BASRAH	100	0300	12th	15	0900	5th

TABLE 4-a. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	33.5	23.8	35.2	16.4	34.5	21.9	36.7	19.4	33.5	18.5
2	32.5	22.1	36.6	14.0	35.6	20.6	36.7	18.3	35.5	16.9
3	32.7	21.8	35.0	15.2	35.1	21.3	36.1	18.3	37.0	16.4
4	33.6	22.5	36.2	14.4	36.5	19.1	36.7	17.8	33.6	19.2
5	31.5	20.2	35.4	15.2	36.1	23.2	38.3	22.8	32.9	15.3
6	32.6	19.8	33.8	14.2	34.5	20.6	35.0	18.9	34.1	14.1
7	32.3	20.0	34.6	14.2	34.8	23.6	35.0	16.7	35.0	14.6
8	33.4	19.3	35.2	14.6	35.4	18.5	36.1	16.1	37.0	19.5
9	33.0	19.8	35.8	15.2	36.6	19.6	36.1	15.6	37.4	18.4
10	34.2	20.0	36.0	15.2	36.0	21.4	35.0	21.1	37.0	18.4
11	33.5	19.8	36.2	15.0	37.0	24.2	37.2	20.6	36.9	18.8
12	33.5	20.0	35.8	14.2	35.3	21.5	36.1	20.0	34.4	17.5
13	30.8	19.0	32.8	14.2	34.5	22.5	35.0	19.4	32.5	17.0
14	31.0	19.6	34.2	16.2	35.1	21.1	36.1	18.3	36.0	16.3
15	31.6	19.0	34.2	22.4	33.6	25.1	36.7	21.1	32.0	16.6
16	29.2	19.0	31.8	14.2	32.2	19.6	33.9	18.9	31.5	14.0
17	28.5	18.4	31.8	13.8	32.0	19.2	31.7	16.1	33.7	14.3
18	28.4	19.3	31.8	14.2	32.2	18.3	32.8	16.1	35.0	14.8
19	24.5	20.0	25.4	18.2	29.7	20.4	33.3	16.1	27.2	19.0
20	20.5	16.4	22.3	14.4	30.0	18.4	31.1	17.2	30.6	18.0
21	20.6	15.2	21.2	16.6	25.5	20.1	31.7	22.8	25.0	20.4
22	16.5	14.3	18.3	16.2	24.2	17.2	31.9	20.0	18.1	15.9
23	18.6	12.1	22.4	13.3	25.4	14.5	25.6	17.2	21.5	11.0
24	19.6	12.3	22.3	12.6	25.2	12.0	22.8	16.1	21.0	12.0
25	20.3	11.2	22.8	12.2	25.5	11.8	26.7	12.8	21.0	9.8
26	20.0	11.3	23.2	10.4	25.0	11.4	21.1	11.1	25.0	10.7
27	20.4	12.0	23.8	11.2	24.5	10.6	26.1	8.9	24.3	11.8
28	22.6	11.8	25.0	11.1	25.9	10.1	27.2	10.6	25.5	11.4
29	23.0	12.1	24.2	10.8	27.0	12.0	27.8	10.0	27.0	12.0
30	22.6	11.7	24.8	10.0	26.8	11.6	26.1	10.0	28.2	10.7
31	21.5	12.6	24.5	10.0	27.2	12.8	27.2	10.6	26.8	12.7
MEANS	27.3	17.3	29.8	14.2	31.3	18.2	32.3	16.7	30.5	15.4
departure from normal	...	....	-1.8	+3.4	-0.3	+1.2	+0.1	-0.6	+0.5	+2.8

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	38.6	21st	1962	11.2	25th	1963
MOSUL	41.3	3&4th	1952	0.0	25th	1947
KIRKUK	41.4	2nd	1953	1.1	29th	1946
KHANAQIN	42.2	2nd	1953	3.9	14&15th	1948
RUTBAH	38.4	6th	1953	0.6	15th	1948

TABLE 4-b. درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	39.5	21.3	37.4	21.2	37.4	21.8	39.7	22.2
2	38.1	19.5	37.0	18.2	37.0	19.0	38.8	22.4
3	37.6	19.0	37.2	18.0	37.6	19.2	38.0	23.2
4	37.8	19.0	37.4	17.7	37.5	19.4	39.2	19.7
5	37.9	19.5	37.8	19.2	35.5	19.0	40.2	23.7
6	36.7	16.7	36.3	16.7	36.0	18.0	38.0	19.9
7	37.1	17.0	35.3	17.1	35.5	17.8	36.8	20.2
8	37.7	17.5	37.4	18.2	36.6	19.8	38.7	20.3
9	37.8	18.8	37.3	17.2	36.4	19.0	39.0	21.2
10	36.9	18.4	36.0	18.7	37.0	18.7	37.8	19.9
11	37.2	17.9	36.9	17.8	37.4	17.5	37.8	15.3
12	37.2	16.7	36.3	17.2	38.4	18.0	36.5	18.0
13	36.9	19.8	37.1	17.7	37.4	17.5	36.4	18.6
14	38.2	17.4	36.4	18.2	38.0	18.8	37.0	18.2
15	35.0	22.7	37.0	18.2	37.0	19.0	37.6	16.6
16	36.6	18.2	33.3	18.2	34.4	17.4	37.3	18.2
17	33.0	18.4	33.1	16.3	34.4	17.0	33.8	20.9
18	33.4	17.1	33.3	15.3	34.0	17.2	35.0	18.4
19	30.3	17.2	32.3	17.2	33.5	17.5	36.9	20.0
20	33.4	18.9	32.3	18.9	32.2	18.3	35.8	21.2
21	33.6	21.5	32.0	22.5	29.8	17.5	35.4	20.3
22	29.1	22.2	30.0	22.8	27.4	19.0	35.0	21.6
23	27.8	15.2	28.8	18.1	26.0	13.6	32.4	24.6
24	27.2	16.1	27.8	17.5	25.5	16.0	30.0	21.2
25	25.6	14.2	27.2	15.2	24.2	12.5	30.0	18.6
26	24.7	13.6	21.4	14.1	22.2	14.0	27.0	17.4
27	28.1	11.4	27.3	9.5	25.6	10.6	29.6	15.0
28	27.1	13.9	28.2	12.8	27.0	11.4	30.6	16.3
29	28.3	13.4	28.5	11.4	27.5	11.0	29.6	16.4
30	29.1	12.5	28.0	11.6	28.4	11.5	29.0	14.6
31	30.1	12.2	29.0	9.8	27.6	10.5	29.4	14.6
MEANS	33.5	17.3	33.7	16.9	32.7	16.7	35.1	19.3
departure from normal	0.0	+1.2	-0.2	+0.7	....	....	0.0	+2.1

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	42.2	2nd	1953	5.6	29th	1946
BAGHDAD	44.6	2nd	1947	3.9	29th	1946
HAI	45.9	3rd	1947	6.7	15th	1948

TABLE 4-c. درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C^{o})

	النجف		الديوانية		الناصرية		البصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	39.4	24.0	38.2	20.7	40.7	20.9	36.4	20.8
2	37.8	23.4	38.5	20.2	39.8	20.8	36.4	20.0
3	38.3	22.1	38.5	21.2	39.3	21.4	36.2	21.5
4	38.8	21.6	39.2	20.3	40.0	19.0	35.0	19.4
5	38.2	22.4	40.2	20.6	40.0	24.6	40.6	20.8
6	38.3	20.6	39.3	18.0	40.0	22.7	41.1	22.3
7	37.2	22.2	37.2	18.2	38.4	21.0	36.8	22.0
8	38.4	21.4	38.4	22.6	39.1	20.0	35.5	20.4
9	37.9	21.9	37.4	20.0	37.9	21.6	35.7	22.3
10	37.5	22.3	37.2	20.0	37.0	18.3	36.4	17.2
11	37.4	20.2	37.0	17.6	38.0	15.9	37.8	17.5
12	36.6	18.3	38.2	14.5	36.3	19.7	36.5	21.0
13	36.6	18.0	38.0	17.0	37.2	20.9	36.6	21.1
14	35.8	19.6	37.8	18.7	37.0	19.6	36.8	21.3
15	38.2	21.1	39.2	17.5	38.4	18.2	35.0	20.0
16	34.6	20.8	36.5	18.5	38.4	18.3	36.7	20.6
17	34.2	19.6	33.8	17.4	35.5	17.0	34.0	18.3
18	34.9	21.2	34.8	16.8	35.7	19.2	33.3	18.4
19	35.0	18.8	35.5	17.2	36.0	19.7	32.7	18.2
20	34.6	21.3	34.8	20.5	37.0	19.1	38.0	18.9
21	31.3	20.6	35.1	19.3	34.6	20.8	35.8	23.7
22	32.8	21.2	35.3	19.0	38.2	19.1	37.5	24.3
23	28.5	20.4	30.8	21.0	32.4	20.5	37.1	26.6
24	28.0	17.2	27.5	19.5	31.0	18.1	36.2	20.2
25	27.9	16.2	29.4	16.4	31.4	19.7	32.4	20.4
26	23.8	15.2	27.0	15.6	29.4	16.4	29.0	17.6
27	28.2	13.3	29.2	13.0	29.9	16.3	30.8	17.6
28	28.8	14.5	30.5	15.5	31.3	15.3	30.6	18.0
29	28.6	15.2	29.6	12.6	30.4	15.5	30.0	17.4
30	28.5	16.3	30.1	14.6	29.8	17.2	29.7	18.0
31	29.4	14.3	30.4	13.6	30.5	15.2	33.8	17.4
MEANS	34.0	19.5	38.2	18.0	35.8	19.1	35.2	20.1
departure from normal	....	....	+3.6	+2.9	+0.2	+2.6	+0.4	+2.4

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	43.9	2nd.	1947	2.8	18th	1948
NASIRIYA	43.9	1st	1951	7.8	30th	1948
BASRAH	45.6	1st	1951	6.1	6th.	1941

TABLE 5. المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

	T I M E - G . M . T .								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	20.7	22.9	26.7	26.6	25.5	22.9	....	24.2
MOSUL	16.8	15.5	20.9	27.4	29.2	25.9	21.5	18.8	22.0
KIRKUK	20.1	19.2	24.8	29.7	30.2	26.9	22.9	21.3	24.4
KHANAQIN	....	18.5	25.8	30.7	31.7	28.6	24.1	....	26.6
RUTBAH	17.4	16.1	20.7	27.7	29.7	27.2	22.0	19.2	22.5
HABBANIYA	19.4	18.0	23.8	31.2	32.5	27.4	23.0	21.0	24.5
BAGHDAD	20.1	18.1	24.6	30.9	32.6	28.4	23.7	21.3	25.0
NUKHAIB	....	....	23.1	30.6	32.1	30.4	....	....	29.0
HAI	21.7	20.2	26.4	33.6	34.5	28.4	25.2	....	27.1
NAJAF	22.7	20.4	25.5	31.9	33.6	30.6	26.5	24.2	26.9
DIWANIYA	20.4	18.5	26.0	33.5	34.5	29.0	24.6	22.0	26.1
NASIRIYA	21.3	19.6	26.3	33.8	35.1	30.6	25.6	23.1	26.9
BASRAH	22.0	20.8	26.8	32.8	34.1	28.5	25.7	23.9	26.8

TABLE 6. معدل ضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE(MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	9.6	10.3	11.1	11.1	10.6	10.4	....	10.5
MOSUL	11.8	11.5	12.4	13.1	12.9	13.4	12.8	12.5	12.6
KIRKUK	10.2	10.1	10.9	10.0	9.1	9.9	10.8	10.2	10.2
KANAQIN	....	9.4	11.7	11.4	11.3	11.0	10.8	....	10.9
RUTBAH	9.3	9.3	9.7	6.6	8.7	9.4	10.3	9.8	9.2
HABBANIYA	13.1	12.8	14.9	12.5	11.8	14.0	13.3	12.8	13.1
BAGHDAD	12.9	12.7	14.1	14.4	13.1	14.1	13.7	13.2	13.5
NUKHAIB	....	....	9.1	8.5	8.4	8.1	....	....	8.5
HAI	13.5	13.4	17.2	16.5	15.8	16.2	14.4	....	15.3
NAJAF	10.9	10.6	11.1	10.9	10.3	11.0	11.4	11.3	10.9
DIWANIYA	11.1	11.8	14.9	13.6	12.9	13.4	12.5	11.6	12.7
NASIRIYA	12.8	12.3	14.0	12.6	12.1	14.3	14.2	13.3	13.2
BASRAH	20.9	18.9	21.9	22.5	22.5	23.6	23.1	22.1	21.9

TABLE 7. معدل حرارة البصلة الجافة (سنتغراد)

MONTHLY MEAN WET-BULB TEMPERATURES(C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	13.4	14.7	15.9	16.6	16.1	14.6	....	15.2
MOSUL	12.8	12.1	15.0	18.0	18.6	17.5	15.6	14.0	15.5
KIRKUK	13.4	13.0	15.8	17.3	17.1	16.2	15.0	13.9	15.2
KHANAQIN	....	12.2	16.6	18.4	18.7	17.4	15.5	....	16.5
RUTBAH	11.8	11.1	13.7	16.5	16.7	16.1	14.6	12.9	14.2
HABBANIYA	14.6	17.5	17.3	19.0	19.1	19.2	16.3	15.3	17.3
BAGHDAD	14.9	14.0	17.4	19.8	19.9	18.8	16.9	15.6	17.2
NUKHAIB	....	....	14.2	13.8	17.5	16.7	....	....	15.5
HAI	12.2	14.7	18.9	21.0	20.8	19.1	17.2	....	17.7
NAJAF	14.9	13.9	16.2	18.6	19.0	18.2	16.8	15.8	16.7
DIWANIYA	14.4	13.6	18.1	20.4	20.4	18.6	16.5	14.9	17.1
NASIRIYA	15.4	14.4	17.9	20.1	20.3	19.7	17.7	16.3	17.7
BASRAH	19.4	18.1	21.6	23.8	24.1	22.9	21.7	20.6	21.5

TABLE 8. معدل درجة الندى (سنتغراد)

MONTHLY MEAN DEW-POINT(C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	5.9	7.1	7.7	8.2	7.8	7.1	....	7.3
MOSUL	9.0	8.7	9.9	10.9	10.5	11.1	10.5	10.0	10.1
KIRKUK	6.6	6.5	7.8	6.5	5.1	6.4	7.7	6.7	6.7
KHANAQIN	....	5.6	8.9	8.4	8.4	8.2	7.9	....	7.9
RUTBAH	5.4	5.3	6.6	3.3	4.5	5.6	7.6	6.3	5.6
HABBANIYA	10.8	10.5	13.0	10.0	8.6	11.7	10.9	10.5	10.7
BAGHDAD	10.6	10.6	12.0	12.2	13.1	12.0	11.5	11.0	11.6
NUKHAIB	....	....	5.3	4.2	4.1	3.6	....	....	4.3
HAI	11.0	10.9	14.7	14.2	13.5	13.8	12.2	....	12.9
NAJAF	8.1	7.5	8.2	7.9	7.2	8.1	8.8	8.6	8.1
DIWANIYA	9.0	9.2	12.4	11.0	10.6	11.1	10.1	9.3	10.3
NASIRIYA	10.4	9.9	11.7	10.1	9.4	12.0	11.8	10.7	10.8
BASRAH	17.7	16.1	18.5	18.8	18.9	19.9	19.4	18.6	18.5

TABLE - 9.

MONTHLY MEAN RELATIVE HUMIDITY (%) المعدلات الشهرية معدل الرطوبة النسبية

STATIONS	TIME - G. M. T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	44	42	38	37	39	44	...	41
MOSUL	64	67	54	40	36	44	53	62	52
KIRKUK	48	50	39	27	24	31	42	44	38
KHANAQIN	...	46	38	28	26	30	38	...	34
RUTBAH	50	54	45	30	26	31	45	48	41
HABBANIYA	56	64	52	29	26	43	49	54	47
BAGHDAD	55	64	47	33	28	37	47	53	46
NUKHAIB	...	...	34	21	20	21	...	...	24
HAI	52	57	50	34	29	43	45	...	44
NAJAF	41	45	36	24	21	26	34	39	33
DIWANIYA	50	56	44	27	24	34	41	46	40
NASIRIYA	51	54	41	24	22	33	43	46	39
BASRAH	77	76	62	45	42	61	70	74	63

TABLE -10. معدل الضغط الجوي على سطح البحر (ملليبارات)

MONTHLY MEAN PRESSURE(mbs.) AT M.S.L.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	14.8	15.4	14.7	13.6	14.1	14.6	....	1014.5
MOSUL	15.2	15.6	16.3	15.2	13.4	13.5	14.8	15.3	1014.9
KIRKUK	14.8	15.2	15.5	14.4	12.9	13.4	14.7	15.0	1014.5
KHANAQIN	....	15.0	14.2	13.0	12.0	12.3	11.0	....	1012.9
RUTBAH	13.8	14.3	15.3	14.5	13.3	13.5	14.1	13.9	1014.1
HABBANIYA	13.4	13.9	15.1	14.1	12.7	12.7	13.5	13.6	1013.6
BAGHDAD	13.4	13.9	15.0	14.2	12.7	12.7	13.6	13.8	1013.7
NUKHAIB	....	....	15.0	13.7	12.1	12.2	....	....	1013.2
HAI	11.7	12.3	13.5	12.8	11.3	11.4	12.2	....	1012.2
NAJAF	11.2	11.9	12.9	12.2	10.6	10.7	11.9	11.3	1011.6
DIWANIYA	12.8	13.7	14.9	13.7	12.2	12.2	13.2	13.1	1013.2
NASIRIYA	12.1	12.6	13.8	13.0	11.4	11.5	12.4	12.3	1012.4
BASRAH	12.4	12.9	14.1	13.4	12.0	12.1	13.5	12.7	1012.9

TABLE -11. معدل كمية الغيوم الواطئة

MONTHLY MEAN LOW CLOUD AMOUNT(OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	0.8	0.9	1.5	2.1	1.4	1.0	...	1.3
MOSUL	1.5	1.4	1.7	2.7	2.8	2.3	1.6	1.6	2.0
KIRKUK	0.9	1.0	1.2	1.2	1.6	1.5	1.1	0.8	1.2
KHANAQIN	...	1.1	2.0	2.4	2.4	3.0	1.4	...	2.1
RUTBAH	0.7	0.7	0.8	0.9	2.3	2.1	1.2	0.7	
HABBANIYA	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3
BAGHDAD	0.2	0.3	0.4	0.4	0.6	0.4	0.4	0.2	0.4
NUKHAIB	...	...	0.8	0.7	0.8	0.6	...	...	0.7
HAI	0.2	0.4	0.5	0.3	0.2	0.5	0.3	...	0.3
NAJAF	0.4	0.6	0.3	0.3	0.8	0.9	0.6	0.3	0.5
DIWANIYA	0.1	0.0	0.3	0.1	0.5	0.6	0.3	0.0	0.2
NASIRIYA	0.2	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0.2
BASRAH	0.0	0.3	0.2	0.1	0.2	0.3	0.1	0.1	0.2

TABLE -12. معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	2.5	3.0	3.3	3.8	3.6	1.9	...	3.0
MOSUL	1.9	2.4	2.9	4.3	4.5	3.4	2.3	1.9	3.0
KIRKUK	1.1	1.6	1.9	2.3	2.9	2.5	1.3	1.2	1.9
KHANAQIN	...	3.0	2.4	3.0	3.2	3.3	2.0	...	2.8
RUTBAH	2.0	2.6	2.1	2.7	4.4	4.0	2.4	1.8	2.8
HABBANIYA	1.5	2.5	2.2	2.2	3.0	3.1	2.0	1.6	
BAGHDAD	1.4	2.9	2.3	2.4	3.1	3.3	1.9	1.3	2.3
NUKHAIB	...	...	1.6	1.5	1.9	1.4	...	...	1.6
HAI	1.4	2.4	3.0	2.5	2.9	3.0	2.2	...	2.8
NAJAF	1.1	2.3	2.5	2.4	2.8	3.3	2.3	1.3	2.3
DIWANIYA	0.9	2.1	2.1	1.8	2.1	3.1	2.0	1.2	1.9
NASIRIYA	0.5	2.1	2.1	2.4	2.6	2.5	1.5	0.6	1.8
BASRAH	1.0	1.8	2.1	1.9	2.0	2.4	1.7	1.7	1.8

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TABLE 13-a. (11)

عدد تكرار وسدات الرياح السطحيـــة

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	سكون CA-LM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34	معدل سرعة العقد V.K.
سنجار SINJAR	0300	15	0	0	1	0	0	6	5	4	27	0	0	0	6
	0600	9	0	9	0	2	0	2	2	7	23	1	0	0	5
	0900	1	0	6	0	8	1	6	2	7	22	2	0	0	5
	1200	1	0	6	1	8	1	13	0	1	22	8	0	0	9
	1500	3	0	2	1	5	0	11	0	9	16	6	0	0	6
	1800	16	0	3	0	0	0	3	6	3	23	5	0	0	7
	TOTAL	45	0	26	3	23	2	41	15	31	133	23	0	0	6
موصل MOSUL	0000	1	0	0	0	1	2	6	6	15	16	0	0	0	3
	0300	0	0	1	0	5	0	7	7	11	20	0	0	0	3
	0600	7	1	2	2	4	0	4	8	3	25	3	0	0	6
	0900	9	1	1	3	9	0	1	4	3	25	3	0	0	6
	1200	3	3	4	4	2	1	2	8	4	22	5	0	0	8
	1500	0	1	2	1	3	0	9	1	14	16	1	0	0	4
	1800	3	0	2	0	3	0	10	7	6	22	3	0	0	6
	2100	1	0	0	0	4	1	8	4	13	17	0	1	0	4
	TOTAL	24	6	12	10	31	4	47	45	69	163	15	1	0	5
گركوك KIRKUK	0000	1	8	2	0	2	0	0	1	17	14	0	0	0	2
	0300	1	3	2	2	0	0	1	0	22	9	0	0	0	1
	0600	1	0	0	4	1	0	0	0	25	4	2	0	0	1
	0900	1	0	0	0	6	2	4	2	16	14	1	0	0	2
	1200	2	1	1	0	3	2	9	5	8	20	3	0	0	5
	1500	2	1	0	0	1	1	5	5	16	13	2	0	0	2
	1800	1	2	1	0	0	0	1	0	26	4	1	0	0	1
	2100	1	7	2	0	1	0	0	0	20	11	0	0	0	2
	TOTAL	10	22	8	6	14	5	20	13	150	89	9	0	0	2
خانقين KHANAQIN	0300	0	1	9	3	5	0	1	0	12	19	0	0	0	2
	0600	1	0	8	0	5	0	1	0	16	14	1	0	0	3
	0900	3	1	2	0	5	0	7	9	4	26	1	0	0	5
	1200	5	1	0	0	9	0	7	8	1	28	2	0	0	6
	1500	1	0	1	0	8	0	9	5	7	24	0	0	0	4
	1800	1	0	6	0	4	0	2	0	18	13	0	0	0	2
	TOTAL	11	3	26	3	36	0	27	22	58	124	4	0	0	4
رطبة RUTBAH	0000	0	1	0	1	2	2	3	2	20	9	2	0	0	3
	0300	1	1	0	0	4	4	3	2	16	14	1	0	0	3
	0600	3	0	0	0	4	5	9	2	8	22	1	0	0	4
	0900	2	0	1	2	6	3	6	5	6	22	3	0	0	5
	1200	4	0	1	2	1	2	8	2	11	18	2	0	0	4
	1500	6	1	4	0	3	1	6	4	6	22	3	0	0	5
	1800	9	2	1	1	4	1	1	0	12	17	2	0	0	4
	2100	2	1	1	1	3	1	1	3	18	10	3	0	0	3
	TOTAL	27	6	8	7	27	19	37	20	97	134	17	0	0	4

TABLE 13-b. 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	34و	معدل السرعة بالعقد MEAN V.K.
	0000	2	0	2	0	1	0	4	3	19	12	0	0	0	2
	0300	1	1	0	0	1	0	6	3	19	12	0	0	0	2
	0600	3	1	1	0	0	0	9	9	8	22	1	0	0	4
	0900	6	0	1	1	2	2	5	12	2	25	4	0	0	7
حبانية HABBANIYA	1200	6	2	0	0	5	1	7	7	3	20	8	0	0	7
	1500	5	1	0	1	1	2	2	7	12	19	0	0	0	3
	1800	2	0	1	2	0	0	3	5	18	10	3	0	0	3
	2100	3	0	2	1	1	0	4	2	18	10	3	0	0	3
	TOTAL	28	5	7	5	11	5	40	48	99	130	19	0	0	4
	0000	5	2	1	2	0	0	1	5	15	12	4	0	0	4
	0300	3	1	0	1	0	0	1	10	15	16	0	0	0	3
	0600	3	3	0	1	0	0	2	9	13	17	1	0	0	3
	0900	10	0	1	2	1	0	3	7	7	17	7	0	0	6
بغداد BAGHDAD	1200	7	0	0	2	1	2	2	14	3	20	8	0	0	8
	1500	3	1	0	1	0	0	3	12	11	17	3	0	0	4
	1800	4	0	0	1	0	0	4	10	12	14	4	1	0	4
	2100	4	0	1	1	0	0	2	7	16	10	5	0	0	4
	TOTAL	39	7	3	11	2	2	18	74	92	123	32	1	0	5
	0600	12	1	3	3	0	0	9	0	3	25	3	0	0	6
	0900	8	2	2	2	3	2	6	0	6	21	4	0	0	6
	1200	9	0	1	2	4	1	7	1	6	20	4	1	0	7
	1500	7	3	3	3	2	1	6	1	5	21	5	0	0	6
	TOTAL	36	6	9	10	9	4	28	2	20	87	16	1	0	6
	0000	2	1	2	1	0	0	11	7	7	16	8	0	0	7
	0300	2	1	4	1	0	2	10	6	5	22	4	0	0	6
	0600	0	2	5	2	0	1	10	7	4	24	3	0	0	6
	0900	0	1	6	1	1	0	12	6	4	16	11	0	0	8
	1200	1	4	3	0	0	0	12	7	4	12	15	0	0	9
	1500	1	0	4	0	0	0	10	8	8	19	4	0	0	5
	1800	0	3	4	0	0	0	14	8	2	24	5	0	0	7
	TOTAL	6	12	28	5	1	3	79	49	34	133	50	0	0	7
	0000	14	1	1	2	1	1	1	4	6	20	5	0	0	6
	0300	7	6	0	1	0	0	5	8	4	25	2	0	0	6
	0600	12	4	1	3	0	0	6	5	0	27	3	0	0	7
	0900	10	7	2	2	2	1	3	2	2	22	6	1	0	8
نجف NAJAF	1200	10	9	3	2	2	1	2	2	0	25	5	1	0	9
	1500	14	7	6	1	1	1	0	1	0	29	2	0	0	7
	1800	11	7	3	2	0	2	1	3	2	26	2	0	1	7
	2100	9	5	1	3	3	0	3	3	4	21	5	1	0	7
	TOTAL	87	46	17	16	9	6	21	28	18	195	30	4	1	8

تشرين الاول ١٩٦٣

OCTOBER 1963.
TABLE 13c.

عدد تكرار رصدات الرياح السطحيـــة

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة	وقت كرينتش	DIRECTION الاتجاه									SPEED IN KNOTS السرعة بالعقد				معدل السرعة بالعقد
STATIONS	TIME GMT.	N	NE	E	SE	S	SW	W	NW	CA-LM	1-10	11-21	22-33	٣٤ و	MEAN V.K.
ديوانية	0000	8	2	1	1	0	0	7	4	8	20	3	0	0	5
	0300	9	0	1	0	0	0	11	3	7	22	2	0	0	5
	0600	12	1	3	1	0	0	9	2	3	23	5	0	0	6
	0900	13	1	1	0	1	2	6	4	3	17	11	0	0	8
DIWANIYA	1200	13	0	0	0	3	2	4	6	3	16	12	0	0	8
	1500	14	1	1	2	0	0	3	5	5	25	1	0	0	5
	1800	9	1	1	3	1	0	6	4	6	21	4	0	0	5
	2100	14	2	0	0	4	0	5	2	4	25	2	0	0	5
	TOTAL	92	8	8	7	9	4	51	30	39	169	40	0	0	6
ناصرية	0000	5	0	1	3	3	0	6	10	3	28	0	0	0	4
	0300	1	1	1	3	2	1	8	10	4	27	0	0	0	4
	0600	5	0	2	1	2	2	11	7	1	30	0	0	0	5
	0900	9	0	1	4	1	1	2	12	1	23	7	0	0	8
NASIRIYA	1200	9	0	4	3	0	0	0	15	0	25	6	0	0	8
	1500	11	1	4	4	0	0	2	7	2	29	0	0	0	4
	1800	3	3	3	3	1	1	2	11	4	25	2	0	0	5
	2100	4	1	1	2	4	1	2	13	3	27	1	0	0	5
	TOTAL	47	6	17	23	13	6	33	85	18	214	16	0	0	5
بصرة	0000	8	2	1	1	3	1	2	6	7	24	0	0	0	4
	0300	5	3	0	1	2	1	8	5	6	24	1	0	0	3
	0600	7	1	1	0	3	3	2	10	4	25	2	0	0	4
	0900	11	2	0	0	8	0	1	9	0	26	5	0	0	6
BASRAH	1200	9	0	2	2	2	2	1	12	1	27	3	0	0	6
	1500	12	0	0	5	2	0	1	9	2	29	0	0	0	3
	1800	12	1	1	3	5	0	0	7	2	28	1	0	0	4
	2100	8	0	0	1	5	3	0	8	6	24	1	0	0	4
	TOTAL	72	9	5	13	30	10	15	66	28	207	13	0	0	4

TABLE 14.

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	18 Knots	270	0900	19th
MOSUL	25	300	2100	24th
KIRKUK	16	340	1800	22nd
KHANAQIN	19	180	1200	5th.
RUTBAH	18	020	1800	18th
HABBANIYA	18	150	1800	14th
BAGHDAD	25	330	1800	22nd
NUKHAIB	22	360	1200	21st
HAI	17	100	1800	22nd
NAJAF	38	360	1800	22nd
DIWANIYA	18	340	2100	22nd
NASIRIYA	18	150	1800	22nd
BASRAH	15	170	0600	23rd.

OCTOBER 1963 . تشرين الاول ١٩٦٣

TABLE 15-a.

الهطول اليومي (ملليمترات)

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

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1					tr.		
2							
3		tr.					
4							
5							
6							
7							
8							
9							
10							
11							
12			tr.				
13		tr.					
14	tr.	0.2	tr.				
15			tr.				
16							
17							
18		0.8					
19	tr.	1.1	tr.		tr.		
20	1.6	5.0	tr.		tr.		
21	9.2	11.4	2.9		9.8	tr	
22	14.7	30.2	7.4		21.6	tr.	
23				13.3	tr.		1.3
24	2.6	1.2	tr.	1.8	6.0	1.7	tr.
25	0.4						
26							tr.
27							
28							
29							
30							
31	1.2	3.2			tr.		
TOTAL	29.7	53.1	10.3	15.1	37.4	1.7	1.3
NORMAL	14.5	7.1	3.3	6.1	5.0	1.7	3.0

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
SINJAR	35.0	29th	1957
MOSUL	30.2	22nd	1963
KIRKUK	9.8	31st	1961
KHANAQIN	54.8	30th	1937
HABBANIYA	15.2	20th	1942
BAGHDAD	15.8	30th	1937
RUTBAH	30.1	27th	1937

OCTOBER 1963.
TABLE 15-b.

(15)

تشرين الاول ١٩٦٣

الهطول اليومي (ملليمترات)

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

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						
2						
3						
4		tr.				
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22	tr.					
23	1.0					
24		0.5	tr.			
25						
26		tr.	tr.	tr.		
27					tr.	
28						tr.
29		tr.				
30						tr.
31						tr.
TOTAL	1.0	0.5	tr.	tr.	tr.	tr.
NORMAL	....	1.8	...	1.3	1.3	0.8

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
HAI	9.5 mm.	22nd	1959
DIWANIYA	5.9	21st	1959
NASIRIYA	8.5	31st	1954
BASRAH	4.2	31st	1954

OCTOBER 1963 .
TABLE 15-c.

(16)

تشرين الاول ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRICIPITATION (MILLIMETERS) . tr. < 0.05 mm.

الايام	عقرة	تل عوينات	قيارة	حويجة	حلبجة	افتخار	صلاح الدين	دهوك	تلعفر
DAYS	AQRA	TEL AWAINAT	QAYARA	HAWIJA	HALA-BJAH	'FTI-KHAR	SALAH ADDIN	DUHOK	TELA-AFAR
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14			tr.						
15			tr.				3.6		
16									
17									
18									
19	3.7								tr.
20	16.3	35.6						39.8	15.0
21		15.2	8.0	1.8	3.0		4.5	2.1	2.0
22	24.0	2.5	39.0	7.2	4.0	12.7	5.7	31.9	27.5
23	38.0				3.0				
24					2.0				
25					1.0				
26									
27									
28									
29									
30									
31									
TOTAL	82.0	53.3	47.0	9.0	13.5	12.7	13.8	73.8	44.5

TABLE 15-d الهطول اليومي (ملليمترات)

DAILY PRICIPITATION (MILLIMETERS) : tr. < 0.05 mm.

الايام	دوكان	سرسنك	سامرا	بيجي	طوز	عنة	هيت	كوت	كربلاء
DAYS	DUKAN	SER-SANK	SAMIRA	BAIJI	TUZ	ANA	HIT	KUT	KARBALAA
1									
2									
3									
4								tr.	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19		5.1							
20	1.0	57.2							
21	3.8	6.4		1.0		4.0			
22	4.1	57.2	tr.	8.0		24.0	3.4		
23					7.6		0.4		
24									
25									
26								tr.	
27									14.0
28									
29									
30									
31									
TOTAL	3.9	125.9	tr.	9.0	7.6	28.0	3.8	tr.	14.0

TABLE -16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

NO. OF DAYS FOR THE CASES OF PHENOMENAS عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	6	0	0	0	0	0	8	4	0
MOSUL	8	0	0	0	0	0	8	4	0
KIRKUK	2	0	0	1	0	0	20	3	0
KHANAQIN	2	0	0	1	0	0	..	.	0
RUTBAH	3	0	0	1	0	0	10	4	0
HABBANIYA	1	0	0	0	0	0	14	3	0
BAGHDAD	1	0	0	1	0	1	16	2	0
NUKHAIB	1	0	0	0	0	0	19	1	0
HAI	1	0	0	0	0	0	13	0	0
NAJAF	0	0	0	0	0	0	11	0	0
DIWANIYA	0	0	0	0	0	0	15	0	0
NASIRIYA	0	0	0	0	0	0	16	0	0
BASRAH	0	0	0	0	0		17	0	0

TABLE - 17.

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	237.9	10.2	28th	4
HABBANIYA	268.1	10.9	6th	0
BAGHDAD	238.2	10.4	6th	1
BASRAH	292.9	11.0	4th	0

TABLE -18.

MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لحرارة الحشيش والتربـــــة

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL	....	20.8	....
KIRKUK	12.4	24.8	27.2
HABBANIYA	16.9	27.5	28.8
BAGHDAD	12.2	27.8	29.4
NAJAF	....	28.9	30.8
NASIRIYA	17.4	29.0	30.2
BASRAH	15.9	....	....

الجمهورية العراقيـــــــة

وزارة المواصلات

مديرية الطيران المدني العامـــــة

شعبة الصـــلح

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر تشرين الثاني ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR NOVEMBER 1963

مجلد ٢٦ ، عدد (١١) تشرين الثاني ١٩٦٣

VOLUME 26 , No. (11) , NOVEMBER 1963

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NOVEMBER 1963 .

TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	17.0	17.8	21.7	18.6	21.8	21.0
2	17.2	16.5	20.1	17.5	21.3	22.3
3	15.6	16.4	17.9	14.9	19.0	19.8
4	15.9	15.7	16.5	14.5	17.3	18.2
5	16.2	14.3	16.6	14.9	17.0	16.6
6	17.5	15.1	17.5	15.3	16.5	15.9
7	17.4	15.5	18.2	15.4	16.1	15.3
8	17.5	14.9	18.1	16.4	15.8	15.0
9	17.1	14.7	17.4	15.3	16.3	15.3
10	17.8	14.2	17.4	15.7	18.3	17.1
11	17.8	15.5	15.9	15.2	19.2	18.8
12	14.9	14.6	15.7	14.8	17.0	18.4
13	16.1	13.7	15.1	14.5	14.5	15.2
14	17.3	13.9	15.0	14.6	14.9	15.0
15	17.3	13.0	15.8	15.0	15.3	15.7
16	18.2	13.5	16.1	16.9	15.9	16.1
17	17.2	13.7	16.1	15.7	15.2	15.6
18	17.4	14.4	16.9	15.0	16.0	16.4
19	18.2	13.4	16.7	15.9	15.9	15.9
20	17.5	12.4	16.5	17.4	15.6	16.1
21	16.3	12.7	15.7	15.6	16.5	15.7
22	17.0	12.3	15.5	14.8	15.1	13.6
23	17.3	12.2	16.1	15.1	15.5	15.4
24	14.8	13.7	17.2	15.4	17.1	15.7
25	15.0	13.1	16.1	14.3	15.5	15.0
26	14.2	11.4	15.3	11.0	12.2	12.1
27	14.1	11.3	14.8	10.5	11.3	12.7
28	13.5	9.1	12.6	10.4	11.1	12.4
29	12.6	9.6	13.5	11.2	12.3	12.2
30	10.8	12.0	15.0	14.6	15.4	15.9
MEANS	16.2	13.6	16.4	14.9	16.1	16.3
DEPARTURE FROM NORMAL	....	+0.5	-0.1	+1.1	-0.7	-0.6

NOTE : AT SINJAR , OBSERVATIONS 0000 & 2100 ARE MISSED.

TIME: G.M.T.

$$\frac{0000+0300+0600+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

TABLE 1-b. المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	26.1	21.5	14.7	22.3	22.2	22.7
2	24.0	22.7	23.8	24.2	23.7	24.7
3	20.7	22.8	21.3	21.6	22.6	26.1
4	20.7	21.1	19.5	19.1	21.3	21.6
5	19.3	19.1	18.2	18.3	19.0	20.6
6	20.5	16.7	17.3	16.5	18.0	18.9
7	21.5	19.8	17.7	15.7	17.8	17.8
8	23.0	18.6	18.6	17.6	17.3	17.2
9	21.9	19.1	18.9	17.2	17.9	17.2
10	22.8	18.1	18.4	17.8	17.0	17.2
11	16.7	17.1	17.4	17.8	17.2	16.2
12	19.3	18.5	17.5	18.0	17.8	17.9
13	19.3	18.4	17.9	16.6	17.5	18.0
14	18.9	17.9	16.8	16.1	16.7	16.9
15	18.8	17.4	17.4	16.1	17.3	17.7
16	20.6	17.4	17.5	16.4	17.3	17.3
17	20.3	18.6	17.9	18.0	17.6	16.6
18	20.2	18.6	18.6	18.4	17.9	16.5
19	21.8	18.4	18.8	18.0	17.9	17.4
20	21.4	17.9	18.2	17.2	17.0	17.4
21	20.1	18.6	18.9	18.2	16.2	15.6
22	19.8	17.7	18.4	19.8	17.8	17.5
23	19.6	16.4	17.2	16.1	17.3	17.5
24	19.9	15.5	18.4	17.7	16.4	16.1
25	17.1	17.7	17.4	16.8	18.1	17.4
26	16.1	15.0	15.0	13.7	15.3	15.5
27	16.5	13.3	13.1	11.6	13.1	12.7
28	16.2	12.9	13.0	13.5	13.2	12.0
29	16.8	12.5	14.3	13.0	12.3	12.6
30	17.8	14.2	15.8	14.9	14.2	14.4
MEANS	19.9	17.5	17.6	17.3	17.5	17.6
DEPARTURE FROM NORMAL	....	-0.4	....	-0.3	-1.3	-1.7

NOTE: AT NUKHAIB, OBSERVATIONS 0000 , 0700 , 1800& 2100 ARE MISSE
AT HAI, OBSERVATION 2100 IS MISSED .

TABLE 2-a. المعدل اليومي للضغط الجوي على سطح البحر (بالملبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1014.2	1014.1	1013.4	1012.6	1012.4	1013.0
2	12.8	12.4	13.2	12.0	10.6	10.9
3	15.1	15.4	15.7	16.0	15.2	15.2
4	21.8	21.9	21.2	21.9	20.8	20.7
5	23.1	23.5	22.4	23.3	22.4	22.0
6	20.0	20.2	19.2	20.4	19.5	19.2
7	17.6	17.7	16.8	18.3	17.3	17.3
8	18.6	19.3	18.4	17.9	18.1	18.3
9	18.5	18.8	18.1	17.8	18.0	18.0
10	17.6	18.3	17.9	16.4	17.1	17.1
11	16.7	17.4	17.8	17.0	16.8	16.9
12	20.3	20.4	20.0	19.2	18.7	19.0
13	21.0	21.7	21.1	20.0	20.3	20.5
14	20.6	21.7	21.0	20.1	20.3	20.2
15	19.3	19.9	19.4	18.8	19.8	18.6
16	16.7	17.5	17.2	16.6	16.3	16.6
17	16.9	17.2	16.8	16.7	16.1	16.1
18	19.6	19.5	19.3	18.5	18.6	18.6
19	19.0	19.3	18.7	18.2	18.0	16.9
20	16.0	17.0	16.0	15.4	15.4	15.7
21	14.9	15.6	15.1	13.5	13.7	14.4
22	17.7	18.6	17.8	17.6	16.8	16.8
23	19.2	20.7	19.6	19.1	19.0	18.9
24	17.2	18.2	17.6	16.4	16.6	17.3
25	19.1	19.3	17.7	20.1	17.6	17.1
26	18.8	19.4	17.9	20.7	18.5	18.0
27	19.4	19.6	18.9	21.2	19.6	19.8
28	20.2	21.5	21.1	20.5	20.6	21.0
29	21.1	21.8	21.3	20.4	20.6	21.3
30	16.8	17.1	16.9	14.4	14.7	16.2
MEANS	1018.3	1018.9	1018.3	1018.0	1017.7	1017.7
DEPARTURE FROM NORMAL	....	+0.4	+0.8	-0.5	+0.3	+0.3

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
SINJAR	1024.4	5th	0600	1963	1012.1	2nd	1200	1963
MOSUL	1025.4	5th	0600	1963	1012.1	3rd.	0000	1963
KIRKUK	1023.8	15th	0600	1963	1011.0	20ty	1200	1963
RUTBAH	1025.1	5th	0600	1963	1011.2	30ty	2100	1963
HABBANIYA	1023.9	5th	0600	1963	1008.7	3rd	2100	1963
BAGHDAD	1023.6	5th	0600	1963	1009.6	2nd	1200	1963
SINJAR	1024.9	9th	0600	1962	1009.3	5th	1500	1962
MOSUL	1034.5	22nd	0600	1958	1004.3	7th	1200	1944
KIRKUK	1031.1	30th	0600	1953	1005.8	22nd	0000	1961
RUTBAH	1034.7	30th	0600	1953	1004.0	7th	1300	1938
BAGHDAD	1029.9	25th	0600	1961	1006.1	7th	1200	1938

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TABLE 2-b المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1011.6	1012.6	1011.4	1012.8	1013.0	1013.3
2	10.1	10.7	07.9	10.0	10.7	12.6
3	14.5	13.5	13.0	14.7	13.9	13.6
4	21.0	18.7	18.8	20.0	19.1	18.7
5	23.2	20.4	20.4	21.9	20.9	20.1
6	20.0	17.7	17.8	19.2	18.2	18.0
7	17.2	15.8	15.7	17.4	16.8	16.9
8	17.3	17.2	16.3	18.1	17.6	17.8
9	16.7	16.8	16.2	18.1	17.4	17.5
10	15.6	16.4	15.3	17.1	16.7	17.2
11	17.1	15.9	15.1	16.6	16.7	17.4
12	18.7	17.9	17.1	18.9	18.4	18.7
13	19.5	19.0	18.4	20.1	19.7	19.2
14	20.6	18.4	18.5	20.1	19.4	19.0
15	18.6	17.0	17.1	18.6	17.8	17.3
16	16.3	15.1	15.1	16.4	15.7	15.8
17	15.4	14.6	14.3	15.9	15.4	15.6
18	18.5	17.2	17.1	18.5	17.8	17.8
19	17.5	17.5	16.7	18.2	17.6	17.5
20	15.6	15.1	13.8	15.7	15.1	15.8
21	13.5	13.9	12.5	14.2	14.3	15.0
22	16.6	15.7	15.1	16.7	16.3	16.1
23	18.8	17.4	17.4	18.8	18.1	18.2
24	16.3	17.2	15.6	17.3	17.2	17.9
25	18.6	15.9	15.5	16.9	16.1	16.8
26	19.3	16.0	16.6	18.1	17.1	16.9
27	19.5	18.3	18.3	20.0	19.3	19.2
28	20.9	20.0	19.2	21.2	20.6	20.6
29	20.2	20.6	19.6	21.6	21.0	21.0
30	13.5	18.0	14.2	16.8	17.7	18.7
MEANS	1017.4	1016.7	1016.0	1017.7	1017.2	1017.3
DEPARTURE FROM NORMAL	....	-0.4	....	+1.0	+0.5	+0.7

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
NUKHAIB	1025.8	5th	0600	1963	1009.2	2nd	1500	1963	1963
HAI	1022.5	5th	0600	1963	1009.2	2nd	1500	1963	
NAJAF	1022.3	5th	0600	1963	1004.2	2nd	1500	1963	
DIWANIYA	1023.5	5th	0600	1963	1007.4	2nd	1500	1963	
NASIRIYA	1022.7	28th	0600	1963	1008.8	2nd	1500	1963	
BASRAH	1022.4	29th	0600	1963	1011.0	2nd	1200	1963	
HAI	1028.2	30th	0600	1953	1004.9	17th	1200	1957	RECORD
DIWANIYA	1030.0	29th	1800	1953	1004.5	7th	1200	1957	
NASIRIYA	1028.6	30th	0600	1961	1006.2	7th	1200	1944	
BASRAH	1028.2	30th	0600	1961	1004.9	26th	1300	1939	

TABLE - 3. المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE	SIN-JAR سنجار	MO-SUL موصل	KIR-KUK كركوك	RUT-BAH رطبة	HABB-ANIYA حبانية	BAG-HDAD بغداد	NUKH-AIB النخيب	HAI هي	NAJ-AF نجف	DIWA-NIYA ديوانية	NASI-RIYA ناصرية	BAS-RAH بصرة
1	61	75	43	51	48	47	20	51	38	47	37	58
2	69	77	56	57	52	48	34	49	39	44	53	70
3	68	76	74	66	64	63	37	71	48	52	72	69
4	56	72	67	63	66	63	36	55	50	55	56	78
5	49	66	62	58	58	60	34	56	45	55	51	63
6	43	68	56	51	55	54	30	51	48	54	47	66
7	42	66	52	47	51	58	27	47	44	51	40	58
8	44	70	51	38	53	56	18	45	37	50	43	64
9	46	66	52	41	55	57	24	46	43	50	44	68
10	45	70	48	56	53	55	31	45	45	50	44	64
11	43	69	64	66	55	54	74	50	55	59	48	78
12	64	76	68	57	65	61	48	64	55	63	57	67
13	55	82	71	55	67	68	39	59	42	64	47	69
14	42	70	67	50	67	62	41	55	46	65	50	69
15	44	68	59	51	56	51	34	54	35	59	43	71
16	42	69	58	48	55	55	29	49	35	57	40	61
17	47	71	61	51	59	53	34	44	36	57	44	62
18	47	65	54	49	65	58	32	53	42	64	48	65
19	44	61	51	51	61	47	33	52	40	62	49	67
20	43	63	47	47	62	61	32	56	45	68	49	66
21	45	59	48	49	61	60	37	52	49	64	56	64
22	42	60	47	53	64	63	40	58	44	70	54	62
23	49	71	49	45	64	61	36	57	50	70	47	52
24	52	74	50	53	58	63	41	68	42	63	49	61
25	45	67	57	68	63	65	44	59	50	68	46	60
26	35	61	50	42	48	58	28	62	38	64	48	69
27	38	56	39	47	54	64	23	58	46	64	40	61
28	45	68	50	49	63	69	27	59	40	63	40	64
29	39	65	46	39	52	66	24	54	43	65	50	66
30	45	51	35	35	53	55	22	58	40	40	42	54
MEANS	48	68	54	51	58	59	34	55	44	58	48	65
NORMAL	٥٥	٥٢	٤٩	٥٤	58	٥٤	٥٥	٥٤	٤٨	56	52	69

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	74	0600	12th	28	1200	27th
MOSUL	98	0000	17th	25	1200	27th
KIRKUK	93	0300	3rd	20	1200	10th
RUTBAH	90	0300	25th	14	1200	29th
HABBANIYA	93	0300	13th	24	1200	25th
BAGHDAD	96	0300	14th	24	1200	1st
NUKHAIB	82	0900	11th	12	1200	26th
HAI	89	0300	30ty	25	1200	9th
NAJAF	90	0300	27th	16	1200	9th
DIWANIYA	95	0000	23rd	21	0900	10th
NASIRIYA	87	2100	30ty	17	1200	1st
BASRAH	95	0300	4th	27	0900	23rd

TABLE No. 5

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	19.6	12.3	22.2	11.6	27.8	16.2	30.0	16.1	23.8	13.2
2	19.8	13.0	19.6	14.0	26.2	16.9	28.3	16.1	23.5	13.6
3	18.5	10.3	22.0	12.2	23.2	14.1	24.4	17.2	21.0	10.0
4	16.3	10.3	21.6	10.3	23.0	10.6	22.8	10.6	21.0	8.6
5	20.6	10.5	21.8	9.4	23.7	10.6	25.0	10.0	23.0	7.6
6	22.3	11.0	24.0	8.4	26.4	11.2	25.6	9.4	24.0	7.7
7	23.4	10.6	24.6	10.1	27.5	11.4	25.6	9.4	25.0	8.0
8	22.5	11.0	25.0	7.4	26.2	12.0	25.0	8.9	26.5	8.0
9	21.5	10.8	23.8	7.8	26.6	10.2	25.0	7.2	26.4	7.2
10	22.8	11.6	24.4	6.4	24.4	9.9	25.0	7.2	19.5	10.2
11	22.0	11.8	23.6	10.4	19.0	13.3	22.8	11.7	23.0	10.1
12	18.5	10.6	21.4	9.2	21.9	10.6	21.7	12.2	22.5	8.3
13	20.3	9.5	21.6	7.0	22.2	9.9	22.2	8.9	23.9	5.9
14	21.5	9.8	21.4	7.7	21.4	9.1	22.2	7.2	24.0	6.4
15	20.5	11.6	22.2	5.3	22.2	10.0	25.0	7.2	24.5	8.2
16	21.3	12.6	22.0	5.2	22.3	10.5	23.3	6.6	25.0	8.0
17	21.0	12.3	23.2	6.8	23.2	10.3	23.9	7.2	24.9	8.3
18	21.0	10.5	26.0	7.2	26.0	9.8	25.0	8.9	25.6	7.7
19	23.2	10.8	25.4	5.2	25.8	8.8	23.3	7.8	24.5	8.5
20	22.5	10.3	25.8	6.2	26.6	9.2	23.3	9.4	25.6	9.7
21	21.0	10.2	24.2	3.4	24.7	9.6	23.3	7.2	23.5	9.9
22	20.8	10.3	21.8	4.4	23.4	9.3	23.3	7.2	23.4	7.7
23	19.6	12.3	19.2	4.4	23.0	9.7	23.0	6.1	21.0	7.0
24	17.5	12.0	19.6	7.2	21.8	12.8	23.9	11.7	22.6	11.6
25	17.6	10.2	19.2	8.0	22.2	13.3	23.3	10.3	17.0	8.0
26	19.0	9.2	21.2	4.9	24.0	7.6	24.0	6.1	19.0	5.7
27	19.5	7.3	20.2	5.0	23.5	7.2	21.1	6.1	19.0	3.1
28	18.0	8.5	18.4	3.1	20.7	5.8	19.4	5.0	19.2	2.6
29	17.8	6.3	18.2	1.4	20.6	7.3	20.0	4.4	20.3	3.0
30	13.0	7.5	17.8	6.2	18.6	10.4	21.1	4.4	23.4	5.8
MEANS	20.1	10.5	21.9	7.2	23.5	10.6	23.8	8.9	22.8	8.0
DEPARTURE FROM NORMAL	...	...	-0.3	+0.4	+0.9	-0.6	-0.7	-1.6	+1.5	+0.5

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	30.2	1st	1962	6.3	29th	1963
MOSUL	35.0	?	1932	-4.4	24th	1958
KIRKUK	32.8	1st	1944	-2.0	30th	1953
KHANAQIN	35.0	7th	1940	-1.1	25th	1961
RUTBAH	35.0	2nd	1932	-6.0	30th	1953

TABLE 4-b.

درجات الحراره العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حبانيه		بغداد		نخيب		هي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	29.5	12.6	30.7	12.2	30.4	10.6	32.4	12.8
2	27.8	17.5	27.4	15.2	26.8	13.5	30.6	14.0
3	27.0	12.9	26.6	12.5	24.3	11.6	28.4	18.6
4	24.9	11.6	24.5	9.8	24.8	9.6	27.2	14.8
5	24.4	10.0	25.2	8.4	23.5	7.8	26.0	11.3
6	25.5	9.5	25.5	7.0	24.5	7.4	25.8	10.7
7	25.7	8.6	25.5	6.7	24.8	6.7	27.2	10.0
8	27.1	8.0	25.5	5.7	27.1	7.2	27.0	9.3
9	26.7	8.0	26.5	5.0	26.4	5.6	27.0	9.6
10	27.9	9.0	25.2	7.7	25.3	9.6	27.2	8.8
11	22.8	17.1	22.0	15.3	18.4	14.8	23.8	11.2
12	25.5	12.1	25.4	14.3	23.8	9.6	25.6	12.7
13	24.0	7.6	24.1	7.5	23.6	6.7	25.8	11.2
14	24.8	7.8	24.0	5.2	24.0	6.8	24.9	10.4
15	25.6	7.4	25.3	7.7	24.0	6.6	25.7	8.8
16	26.1	8.4	25.2	6.5	25.2	7.6	25.3	8.4
17	25.8	8.1	25.9	8.2	24.2	8.8	26.6	9.8
18	26.6	9.4	25.8	7.6	25.6	7.8	26.9	10.2
19	26.1	8.1	27.4	8.5	26.8	8.0	27.2	11.0
20	25.5	8.2	24.3	6.2	26.3	9.0	27.0	9.3
21	25.6	8.4	24.8	8.0	23.3	13.6	26.0	10.8
22	26.4	10.1	24.6	9.4	24.0	8.0	25.3	9.8
23	24.0	8.0	24.2	5.6	24.3	7.6	25.0	8.2
24	22.8	12.0	23.5	11.3	23.4	11.7	24.6	9.2
25	22.2	11.1	23.2	9.7	20.2	10.2	26.0	9.6
26	22.2	6.7	21.7	5.5	21.2	5.2	22.8	8.7
27	20.9	4.2	20.4	2.0	20.3	3.5	21.3	5.3
28	21.0	3.8	19.7	2.2	20.0	4.3	21.6	4.6
29	22.0	3.0	22.5	2.3	21.8	2.6	21.8	5.2
30	24.5	5.1	23.2	6.2	23.2	3.6	23.2	4.2
MEANS	25.0	9.2	24.7	8.0	24.1	8.2	25.8	10.0
DEPARTURE FROM NORMAL.	+0.6	-0.9	+0.2	-2.6	....	....	-0.4	-1.8

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	35.0	1st	1962	-3.3	30th	1953
BAGHDAD	34.8	1st	1957	-0.3	30th	1953
HAI	37.2	3rd	1949	-0.6	24th	1958

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TABLE 4-e. درجات الحراره العظمى و الصغرى اليوميه (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	نجف		ديوانية		ناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
الايام	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	29.8	20.5	32.3	14.0	31.4	14.2	30.7	16.5
2	30.5	16.1	32.5	16.5	31.0	16.4	30.4	17.2
3	27.4	15.1	26.8	15.1	27.1	18.8	32.8	22.9
4	24.1	15.1	26.7	14.5	26.5	16.6	24.3	20.2
5	24.2	11.9	26.0	11.7	26.2	11.6	26.0	17.0
6	24.3	8.9	24.6	11.2	25.8	11.7	25.7	12.6
7	26.2	9.2	25.8	7.5	26.2	9.8	26.0	11.3
8	27.3	11.2	27.3	9.3	27.3	7.7	25.8	9.6
9	27.4	9.9	27.1	7.1	27.5	8.7	25.8	8.3
10	27.4	9.4	28.5	9.5	27.0	7.6	27.0	8.8
11	21.2	10.2	24.2	11.5	22.0	12.6	20.2	11.2
12	24.2	10.4	25.6	12.0	25.5	11.8	25.2	14.5
13	24.4	9.4	26.6	9.5	25.6	10.2	26.3	10.8
14	23.8	8.4	25.0	8.0	24.9	7.5	25.1	8.8
15	25.2	10.2	25.8	7.0	25.9	10.2	27.4	9.5
16	25.4	9.6	25.5	7.0	25.8	9.9	24.8	8.0
17	26.3	11.3	28.4	8.5	26.9	10.0	25.0	8.8
18	26.4	11.3	27.6	9.5	27.0	10.6	27.0	8.9
19	26.8	11.1	27.4	9.1	26.8	10.0	27.2	8.5
20	25.0	11.4	26.3	8.6	26.2	9.1	26.4	9.2
21	25.1	14.1	27.8	12.5	26.2	11.4	19.1	10.2
22	24.8	11.5	26.0	9.4	24.0	11.6	23.0	11.9
23	24.3	9.5	25.4	7.3	26.0	8.2	25.6	10.0
24	25.5	11.4	26.2	9.7	25.0	7.4	25.4	9.3
25	21.4	11.4	24.6	11.6	26.3	11.8	26.2	10.0
26	20.2	7.5	21.0	7.4	22.0	10.9	22.7	9.4
27	21.2	5.4	21.4	1.8	21.7	5.4	22.1	6.5
28	21.4	6.4	22.2	2.1	22.3	3.8	21.8	4.1
29	22.5	6.2	23.7	3.6	22.0	3.8	21.4	5.2
30	24.1	5.6	24.0	3.6	23.0	3.4	25.2	4.5
MEANS	24.9	10.7	22.7	9.4	25.7	10.1	25.4	10.8
DEPARTURE FROM NORMAL	....	....	-2.9	-0.5	-0.7	-1.6	-1.3	-2.2

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	36.1	4th	1949	-2.8	16th	1948
NASIRIYA	36.7	1&2nd	1942	-1.6	24th	1958
BASRAH	36.6	10th	1939	1.4	27th	1958

TABLE 5 . المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

	T I M E - G . M . T .								
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	13.0	14.8	18.3	19.6	17.3	14.5	....	16.3
MOSUL	9.0	8.2	12.0	19.0	21.2	16.7	12.8	10.4	13.6
KIRKUK	11.6	11.8	15.8	21.3	22.7	18.2	15.1	13.6	16.3
KHANAQIN	....	10.3	15.7	21.9	23.4	19.6	15.1	....	17.7
RUTBAH	10.2	9.0	13.0	20.3	22.1	18.4	14.0	11.8	14.9
HABBANIYA	11.1	9.8	15.0	22.6	24.3	18.4	14.8	12.8	16.1
BAGHDAD	10.9	9.2	15.4	21.7	24.3	19.4	15.1	12.7	16.1
NUKHAIB	....	....	13.6	20.9	23.5	21.6	....	....	19.9
HAI	12.3	10.7	16.5	23.8	25.0	19.8	16.6	....	17.8
NAJAF	13.8	11.6	15.5	22.7	24.6	21.2	17.9	15.5	17.8
DIWANIYA	11.5	10.0	16.7	24.4	25.6	19.8	15.7	14.0	17.2
NASIRIYA	12.4	11.0	19.3	23.2	25.0	20.8	16.9	14.7	17.9
BASRAH	13.0	11.6	17.5	23.8	24.6	19.4	16.6	14.3	17.6

TABLE 6. معدل ضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	7.8	8.9	9.1	9.1	8.4	8.3	....	8.6
MOSUL	9.9	9.3	10.2	11.0	10.8	11.2	10.4	10.2	10.4
KIRKUK	9.6	9.6	10.2	9.7	8.8	10.0	9.9	9.6	9.7
KHANAQIN	....	8.6	8.9	9.4	9.6	9.9	9.1	....	9.3
RUTBAH	8.9	7.8	8.4	8.1	7.5	8.2	8.3	8.3	8.2
HABBANIYA	9.5	9.2	10.5	14.0	10.5	11.2	10.2	10.1	10.6
BAGHDAD	9.8	9.2	10.7	11.0	10.7	11.3	10.6	10.1	10.4
NUKHAIB	....	....	7.4	7.6	6.9	5.8	....	....	6.9
HAI	9.6	9.5	11.5	12.2	11.8	11.9	10.5	....	11.0
NAJAF	8.8	8.8	8.2	8.4	8.5	8.5	8.9	8.7	8.6
DIWANIYA	9.8	9.1	11.5	12.9	12.8	12.3	11.0	10.5	11.2
NASITIYA	8.3	8.1	9.1	9.4	9.1	11.1	10.3	9.7	9.4
BASRAH	11.9	10.5	13.4	13.8	14.0	14.1	14.2	12.5	13.1

TABLE 7. MONTHLY MEAN WET-BULB TEMPERATURES(C°) معدل حرارة البصلة الرطبة

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	8.8	10.2	12.0	12.6	11.3	9.7	....	10.8
MOSUL	7.8	7.1	9.6	13.5	14.3	12.5	10.2	8.8	10.5
KIRKUK	9.6	9.1	11.5	13.7	13.8	12.4	11.0	10.1	11.4
KHANAQIN	....	7.6	10.6	13.8	14.5	13.0	10.5	....	11.7
RUTBAH	7.3	6.8	9.0	12.4	12.8	11.5	9.5	8.7	9.8
HABBANIYA	8.6	7.8	11.2	14.8	15.4	13.3	10.4	10.0	11.4
BAGHDAD	8.6	7.4	11.5	15.1	15.5	13.8	11.4	9.9	11.7
NUKHAIB	....	....	8.7	12.4	12.9	12.7	....	....	11.7
HAI	9.1	8.2	12.2	15.5	15.7	13.7	11.6	....	12.3
NAJAF	9.7	8.6	10.1	13.6	14.5	13.1	11.3	10.4	11.4
DIWANIYA	9.0	7.8	12.6	16.7	17.0	14.4	12.0	10.4	12.5
NASIRIYA	8.8	7.6	10.7	14.3	14.9	14.2	12.0	10.6	11.6
BASRAH	11.0	9.4	14.0	16.8	17.2	15.1	14.0	12.0	13.7

TABLE 8. MONTHLY MEAN DEW-POINT(C°) معدل درجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	3.6	4.9	5.3	5.1	4.7	3.9	....	4.9
MOSUL	6.4	5.7	7.0	8.2	7.6	8.2	7.4	6.9	7.2
KIRKUK	6.1	6.0	6.8	6.2	4.7	6.5	6.4	6.0	6.1
KHANAQIN	....	4.4	5.1	6.0	6.0	6.5	5.3	....	5.6
RUTBAH	4.0	3.9	4.1	3.7	2.4	3.9	4.0	3.6	3.7
HABBANIYA	5.8	5.3	7.4	7.7	7.4	8.5	7.0	6.8	7.0
BAGHDAD	6.2	5.4	7.6	8.7	7.8	8.5	7.7	6.5	7.3
NUKHAIB	....	....	2.0	2.4	1.2	2.4	....	....	2.0
HAI	6.1	5.8	8.7	9.7	9.1	9.1	7.3	....	8.0
NAJAF	5.0	4.8	3.8	4.1	4.5	4.4	4.9	4.7	4.5
DIWANIYA	6.3	5.3	8.8	10.5	10.3	9.8	8.6	7.4	8.4
NASIRIYA	4.3	3.2	5.1	5.7	5.0	8.1	7.0	6.1	5.6
BASRAH	9.0	6.9	10.9	11.5	11.7	11.6	11.8	9.7	10.4

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TABLE - 9. المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (٪)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
				G . M . T .					
SINJAR			67	44	40	45	51		48
MOSUL	64		72	50	43	58	70	79	68
KIRKUK	67		65	39	33	48	58	63	54
KHANAQIN			58	36	33	43	52		47
RUTBAH	67	71	58	35	28	39	52	60	50
HABBANIYA	72	75	62	36	35	53	61	68	58
BAGHDAD	73	75	60	42	36	49	61	68	59
NUKHAIB			47	32	24	29			33
HAI	67	73		42	37	51	55		55
NAJAF	56		46	31	27	34	43	49	44
DIWANIYA	72	74	60	42	39	53	64	68	59
NASIRIYA	58	60	49	33	29	44	52	57	48
BASRAH	77	74	66	47	46	61	74	75	65

TABLE -10. المعدل الشهري للضغط الجوي على سطح البحر (ملبار) MONTHLY MEAN PRESSURE (mbs.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		18.6	19.5	18.4	17.0	17.8	18.6		1018.3
MOSUL	19.3	19.6	20.4	18.9	17.3	17.6	18.7	19.1	1018.9
KIRKUK	18.5	18.8	19.6	18.1	16.6	17.4	18.5	18.6	1018.3
KHANAQIN		20.0	19.1	17.4	16.0	16.5	18.3		1017.9
RUTBAH	17.6	18.6	19.3	18.1	17.0	17.6	18.3	17.8	1018.0
HABBANIYA	17.5	18.0	19.1	18.0	16.6	16.8	17.4	17.5	1017.6
BAGHDAD	17.5	17.9	18.9	18.4	16.7	16.9	17.6	17.6	1017.7
NUKHAIB			19.3	18.1	16.0	16.2			1017.4
HAI	16.3	16.8	18.1	17.3	15.7	16.4	16.7		1016.8
NAJAF	15.8	16.3	17.6	16.5	15.0	15.3	15.9	15.8	1016.0
DIWANIYA	17.4	18.0	19.1	18.1	16.6	16.8	17.5	17.5	1017.6
NASIRIYA	16.8	17.4	18.8	17.7	16.2	16.5	17.2	17.0	1017.2
BASRAH	16.9	17.3	18.6	17.8	16.6	16.9	17.4	17.3	1017.4

TABLE -11. MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS) معدل كمية السحب الواطئة

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		0.2	0.2	0.3	0.9	0.4	0.5		0.4
MOSUL	1.0	1.0	1.3	2.0	2.1	1.5	1.0	1.2	1.4
KIRKUK	0.8	0.7	0.9	0.8	1.3	1.3	1.2	1.2	1.0
KHANAQIN		1.6	1.0	0.8	0.6	1.5	0.8		1.0
RUTBAH	0.8	0.7	0.4	0.6	1.4	1.0	0.7	0.7	0.8
HABBANIYA	0.3	0.4	0.3	0.2	0.3	0.2	0.1	0.3	0.3
BAGHDAD	0.0	0.3	0.4	0.3	0.6	0.3	0.1	0.2	0.3
NUKHAIB			0.8	0.5	0.9	1.0			0.8
HAI	0.1	0.1	0.0	0.2	0.2	0.4	0.2		0.2
NAJAF	0.1	0.1	0.3	0.4	0.3	0.7	0.5	0.2	0.3
DIWANIYA	0.0	0.5	0.2	0.3	0.8	0.7	0.2	0.1	0.4
NASIRIYA	0.3	0.2	0.5	0.6	0.6	0.5	0.3	0.1	0.4
BASRAH	0.5	0.8	0.7	0.6	0.7	0.5	0.4	0.3	0.6

TABLE -12. MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS) معدل مجموع كمية الغيوم

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR		1.3	1.3	1.8	2.5	2.3	1.3		1.7
MOSUL	1.6	1.7	2.3	2.8	3.0	2.7	1.8	1.8	2.2
KIRKUK	1.1	1.2	1.6	1.8	2.1	2.2	1.8	1.9	1.7
KHANAQIN		1.7	1.8	1.9	2.1	2.2	1.1		1.8
RUTBAH	1.7	1.7	1.7	2.0	2.7	2.7	1.6	1.6	2.0
HABBANIYA	1.4	1.7	1.7	2.0	2.1	2.1	1.8	1.5	1.8
BAGHDAD	1.3	1.6	2.0	2.0	2.4	2.4	1.2	1.7	1.8
NUKHAIB			1.9	2.1	2.4	2.7			2.3
HAI	1.2	1.6	1.8	2.0	2.2	2.7	1.7		1.9
NAJAF	0.9	1.4	1.5	2.0	2.3	2.3	1.6	1.4	1.7
DIWANIYA	0.7	1.4	1.5	1.8	2.4	2.3	1.0	1.0	1.5
NASIRIYA	0.8	1.8	1.8	1.8	1.9	2.2	1.7	1.6	1.7
BASRAH	1.9	2.3	2.2	2.2	2.1	2.2	1.8	1.9	2.1

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TABLE 13-a.

تشرين الثاني ١٩٦٣
عدد تكرار رصدات الرياح السطحيـــــة

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	هادئ CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34+	معدل السرعة MEAN V.K.
سنجار SINJAR	0300	15	3	2	0	0	0	4	5	1	24	5	0	0	8
	0600	6	4	6	0	3	0	3	0	8	20	2	0	0	5
	0900	2	0	7	2	7	0	5	0	7	19	4	0	0	6
	1200	1	0	4	1	11	0	6	1	6	19	5	0	0	7
	1500	4	0	1	0	0	0	7	3	15	13	1	1	0	3
	1800	17	3	1	0	0	0	3	5	1	26	2	1	0	7
	TOTAL	45	10	21	3	21	0	28	14	38	121	19	2	0	6
موصل MOSUL	0000	2	0	2	1	0	0	8	5	12	18	0	0	0	3
	0300	4	0	0	0	2	0	12	9	3	26	1	0	0	5
	0600	2	0	1	1	2	0	9	12	3	25	2	0	0	7
	0900	5	0	2	2	3	1	7	8	2	26	2	0	0	5
	1200	3	1	1	0	5	0	9	9	2	25	3	0	0	6
	1500	2	0	4	0	3	0	2	7	12	18	0	0	0	3
	1800	2	0	1	1	3	0	10	6	7	20	3	0	0	5
	2100	2	0	1	1	3	0	6	5	12	17	1	0	0	4
	TOTAL	22	1	12	6	21	1	63	61	53	175	12	0	0	5
كركوك KIRKUK	0000	1	5	1	0	0	0	0	0	23	7	0	0	0	1
	0300	1	5	0	1	0	0	0	1	22	8	0	0	0	1
	0600	0	1	1	1	1	0	1	0	25	5	0	0	0	1
	0900	0	2	0	2	3	2	2	3	16	13	1	0	0	2
	1200	0	0	0	1	8	0	4	2	15	14	1	0	0	2
	1500	0	0	1	2	2	0	1	1	23	6	1	0	0	1
	1800	1	2	1	2	0	0	0	0	24	5	1	0	0	1
	2100	0	6	0	1	0	0	0	0	23	7	0	0	0	2
	TOTAL	3	21	4	10	14	2	8	7	171	65	4	0	0	1
خانقين KHANAQIN	0300	0	0	8	5	9	0	0	0	8	22	0	0	0	3
	0600	0	0	7	1	4	0	1	0	17	13	0	0	0	2
	0900	2	0	2	0	4	0	14	3	5	24	1	0	0	4
	1200	0	0	0	0	4	0	15	5	6	24	0	0	0	4
	1500	0	0	1	0	3	0	12	2	12	18	0	0	0	2
	1800	0	0	3	0	2	0	2	0	23	7	0	0	0	1
	TOTAL	2	0	21	6	26	0	44	10	71	108	1	0	0	3
رطبة RUTBAH	0000	0	0	0	0	4	2	2	0	22	8	0	0	0	2
	0300	0	0	1	0	5	4	5	0	15	15	0	0	0	3
	0600	0	0	0	0	5	8	6	1	10	20	0	0	0	3
	0900	1	0	0	1	2	5	11	2	8	21	1	0	0	3
	1200	3	1	0	1	4	2	9	3	7	20	3	0	0	4
	1500	5	2	1	1	2	0	3	3	13	17	0	0	0	3
	1800	3	0	1	0	3	0	4	0	19	10	1	0	0	2
	2100	1	0	1	0	4	2	4	2	16	11	3	0	0	3
	TOTAL	13	3	4	3	29	23	44	11	110	122	8	0	0	3

TABLE 13-b.

عدد تكرار رصدات الرياح السطحيـــة

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 بالعقد 1-10	11-21	22-33	34	معدل السرعة بالعقد MEAN V.K.
حبانية HABBANIYA	0000	0	0	1	0	0	0	6	5	18	12	0	0	0	2
	0300	0	2	0	1	0	0	6	3	18	12	0	0	0	3
	0600	1	1	2	0	0	0	12	3	11	13	6	0	0	5
	0900	0	0	1	2	3	2	11	6	5	18	7	0	0	7
	1200	0	0	1	3	4	1	5	11	5	20	4	1	0	7
	1500	2	0	3	2	0	1	2	6	14	14	2	0	0	3
	1800	1	0	4	1	0	1	6	0	17	11	2	0	0	3
	2100	0	0	1	2	1	0	3	4	19	10	1	0	0	3
	TOTAL	4	3	13	11	8	5	51	38	107	110	22	1	0	4
بغداد BAGHDAD	0000	1	2	1	0	1	0	7	11	6	23	0	0	0	4
	0300	3	1	0	1	0	0	10	8	6	23	0	0	0	4
	0600	2	0	2	1	0	0	4	11	9	19	1	0	0	4
	0900	1	1	1	3	0	3	7	11	2	22	5	0	0	8
	1200	6	0	0	2	0	1	3	18	0	22	8	0	0	8
	1500	5	1	0	1	2	0	2	12	7	22	1	0	0	4
	1800	2	0	1	2	1	0	4	12	8	20	2	0	0	5
	2100	3	0	2	2	1	0	9	6	7	22	1	0	0	5
	TOTAL	23	5	7	12	5	4	46	89	45	173	18	0	0	5
نخيب NUKHAIB	0600	3	0	0	0	1	4	19	1	2	25	3	0	0	6
	0900	6	0	1	0	4	4	11	2	2	23	5	0	0	7
	1200	6	1	1	1	3	0	10	6	2	23	5	0	0	7
	1500	4	1	2	0	3	0	7	9	4	23	3	0	0	5
	TOTAL	19	2	4	1	11	8	47	18	10	94	16	0	0	6
حي HAI	0000	0	0	1	0	0	0	13	10	6	22	2	0	0	5
	0300	1	1	0	0	0	1	17	8	2	25	3	0	0	6
	0600	0	0	0	0	0	0	15	8	7	23	0	0	0	5
	0900	1	1	1	0	0	0	12	10	5	18	7	0	0	6
	1200	1	2	1	0	0	0	14	11	1	25	4	0	0	7
	1500	0	2	2	0	0	0	13	6	7	22	1	0	0	4
	1800	0	0	3	0	0	1	14	7	5	22	3	0	0	6
	TOTAL	3	6	8	0	0	2	98	60	33	157	20	0	0	6
نجف NAJAF	0000	8	3	0	0	2	1	3	8	5	25	0	0	0	5
	0300	7	3	0	1	2	1	5	10	1	26	3	0	0	6
	0600	8	3	0	1	1	1	5	11	0	27	3	0	0	6
	0900	10	5	1	1	2	0	2	9	0	28	2	0	0	7
	1200	9	10	0	2	2	0	1	3	3	24	3	0	0	7
	1500	11	5	2	2	1	1	0	5	3	25	2	0	0	5
	1800	10	5	0	3	0	1	0	7	4	25	1	0	0	5
	2100	12	2	0	2	1	1	2	4	6	19	5	0	0	6
	TOTAL	75	36	3	12	11	6	18	57	22	199	19	0	0	6

TABLE 13-c. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	ريح ساكن CA-IM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34≤	معدل السرعة بالعقد MEAN V.K.
ديوانية DIWANIYA	0000	1	0	0	2	0	0	14	1	12	17	1	0	0	3
	0300	3	0	0	1	1	0	14	0	11	19	0	0	0	3
	0600	4	0	2	1	0	0	17	6	0	29	1	0	0	5
	0900	16	0	1	1	0	1	8	3	0	27	3	0	0	5
	1200	10	0	0	1	1	0	14	2	2	23	5	0	0	7
	1500	11	0	0	1	1	0	8	2	7	22	1	0	0	3
	1800	6	0	1	3	0	0	10	3	7	21	2	0	0	4
	2100	4	0	0	3	1	0	7	3	12	17	1	0	0	3
	TOTAL	55	0	4	13	4	1	92	20	51	175	14	0	0	4
ناصرية NASIRIYA	0000	2	1	1	0	0	6	12	6	2	28	0	0	0	4
	0300	1	0	0	2	1	6	15	3	2	28	0	0	0	4
	0600	1	0	0	1	0	3	15	8	2	27	1	0	0	5
	0900	3	0	0	1	1	0	10	14	1	28	1	0	0	7
	1200	3	0	2	0	0	0	5	18	2	26	2	0	0	7
	1500	6	0	1	2	1	0	9	7	4	25	1	0	0	4
	1800	5	0	0	3	2	1	6	11	2	28	0	0	0	4
	2100	1	0	0	4	1	4	7	10	3	25	2	0	0	4
	TOTAL	22	1	4	13	6	20	79	77	18	215	7	0	0	5
بصرة BASRAH	0000	5	0	2	1	0	2	13	6	1	29	0	0	0	4
	0300	4	1	1	0	1	2	18	3	0	30	0	0	0	4
	0600	4	1	2	0	0	0	10	12	1	28	1	0	0	5
	0900	6	0	0	1	1	0	6	15	1	23	7	0	0	7
	1200	2	1	0	2	0	1	3	21	0	25	5	0	0	8
	1500	2	0	1	1	1	1	4	20	0	29	1	0	0	5
	1800	3	0	0	3	0	0	9	14	1	28	1	0	0	4
	2100	1	2	1	1	1	1	13	8	2	28	0	0	0	4
	TOTAL	27	5	7	9	4	7	76	99	6	220	14	0	0	5

TABLE 14 . اعلى سرعة ريح حدثت خلال ساعة واحدة

HIGHEST WIND-SPEED, DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR(V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	28 Knots	360	1500	25th
MOSUL	16	140	0900	30th
KIRKUK	16	140	1500	2nd
KHANAQIN	11	180	0900	11th
RUTBAH	18	120	1200	10th
HABBANIYA	22	120	1200	30th
BAGHDAD	20	150	2100	30th
NUKHAIB	20	360	0900	2nd.
HAI	20	090	1500	2nd.
NAJAF	20	120	1500	30th
DIWANIYA	19	130	1800	2nd.
NASIRIYA	21	120	0900	2nd.
BASRAH	16	150	1800	2nd.

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TABLE 15-a.

تشرين الثاني ١٩٦٣
الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1	1.4	3.4	tr.		tr.	tr.	
2	4.8	2.2	10.5	7.0	tr.	tr.	tr.
3				1.1			
4							
5							
6							
7							
8							
9							
10			tr.		tr.		
11			11.3		tr.	tr.	
12				1.7		tr.	
13							
14							
15							
16							
17							
18							
19							
20					tr.		
21							
22							
23							
24	tr.	1.2	0.2				
25							
26							
27							
28							
29							
30		tr.					tr.
TOTAL	6.2	6.8	22.0	9.8	tr.	tr.	tr.
NORMAL	44.5	43.9	41.5	37.3	15.6	18.7	21.5

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
SINJAR	48.8	28th	1953
MOSUL	86.3	27th	1929
KIRKUK	44.0	3rd	1945
KHANAQIN	51.5	17th	1957
RUTBAH	25.2	24th	1937
HABBANIYA	36.2	18th	1960
BAGHDAD	48.9	17th	1957

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تشرين الثاني ١٩٦٣

TABLE 15-b.

الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS)

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						0.1
2				tr.	2.8	tr.
3					tr.	0.6
4						0.1
5						
6						
7						
8						
9						
10						
11	2.8		tr.	tr.		0.3
12	3.0					
13						
14						
15						
16						
17						
18						
19						
20						
21					tr.	0.1
22						
23						
24						
25						
26						
27						
28						
29						
30		tr.	tr.			
TOTAL	5.8	tr.	tr.	tr.	2.8	1.2
NORMAL	...	19.4	....	14.7	20.5	27.7

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
HAI	55.	29th	1957
DIWANIYA	38.9	11th	1961
NASIRIYA	47.2	26th	1950
BASRAH	61.4	15th	1940

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تشرين الثاني ١٩٦٣

TABLE 15-a .

الهطول اليومي (ملليمترات)

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

الايام	تل عوينات	تلعفر	سامراء	دوكان	المنصور	بعقوبة	قيارة	صلاح الدين
DATE	TEL AWAINAT	TELAA-FAR.	SAMIRA'A	DUKAN	MANSOOR	BAQOBA	QAYARA	SALAH ADDIN
1		5.0		0.8				
2				13.0	2.0	2.4	tr.	
3		4.2						
4			tr.					
5								
6								
7								
8								
9								
10								
11				1.3				
12			tr.					
13								
14								9.1
15								
16								
17								
18								
19								
20								
21								11.4
22								14.5
23	35.6							
24	15.2			0.5			2.4	
25	2.5							
26								
27								
28								
29								
30								
TOTAL	53.3	9.2	tr.	15.6	2.0	2.4	2.4	35.0

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TABLE 15-d.

تشرين الثاني ١٩٦٣
الهطول اليومي (ملليمترات)

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

الايام DATE	سرسنك SER-SANK	دهوك DUHOK	عقرة AQRA	جلولاء JALA-WLAA	بيجي BAIJI	طوز TUS	افتخار IFTI-KHAR	حلبجة HALABJAH
1	0.7	9.9	6.2					
2	0.4	1.8	3.3	12.7		12.7	7.6	2.0
3	1.0							3.0
4								
5								
6								
7								
8								
9								
10								
11			3.9		10.4			
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23	0.4							
24	0.8	3.0						
25			6.5					
26								
27								
28								
29								
30								
TOTAL	3.3	14.7	19.9	12.7	10.4	12.7	7.6	5.0

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TABLE 15 -

(18)

تشرين الثاني ١٩٦٣

الهطول اليومي (مليمترات)

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

الايام	حويجة	هيت	كوت	فاو	بدعة	سعدية	معقل
DATE	HAWIJA	HIT	KUT	FAO	BADA'A	SAIDIYA	MAQIL
1							
2	4.5						
3			0.3		9.0	10.0	2.5
4				3.6			
5							
6							
7							
8							
9							
10		tr.					
11	2.2						
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL	6.7	tr.	0.3	3.6	9.0	10.0	2.5

TABLE - 16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

NO. OF DAYS FOR THE CASES OF PHENOMENAS عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	2	0	0	0	0	0	18	2	0
MOSUL	3	0	0	0	0	0	17	4	0
KIRKUK	3	0	0	2	0	0	20	4	0
KHANAQIN	3	0	0	0	0	0	18	3	0
RUTBAH	0	0	0	0	0	0	17	0	0
HABBANIYA	0	0	0	1	0	0	18	2	0
BAGHDAD	0	0	0	1	0	0	18	2	0
NUKHAIB	2	0	0	0	0	0	13	2	0
HAI	0	0	0	0	0	0	19	2	0
NAJAF	0	0	0	0	0	0	16	0	0
DIWANIYA	0	0	0	1	0	0	17	0	0
NASIRIYA	1	0	0	1	0	0	17	2	0
BASRAH	2	0	0	0	0	0	17	5	0

TABLE -17 .

DURATION OF SUNSHINE : مدة سطوع الشمس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	235.4	10.0	5,6&7th	1
HABBANIYA	266.4	10.5	5th	1
BAGHDAD	240.8	10.0	7th	1
BASRAH	244.8	10.5	7th	0

TABLE -18 . المعدل الشهري لحرارة العشب والتربة (سنتغراد)

MONTHLY MEAN TEMPERATURE OF :

STATIONS	GRASS MINIMUM TEMPERATURE C°	EARTH TEMPERATURE 0.3 M	EARTH TEMPERATURE 1.2 M
MOSUL	,,,,	14.3	,,,
KIRKUK	5.6	17.7	22.7
HABBANIYA	8.6	21.0	25.6
BAGHDAD	3.0	20.1	26.0
NAJAF	,,,,	20.7	24.3
DIWANIYA	,,,,	,,,,	,,,,
NASIRIYA	8.6	21.5	27.1
BASRAH	7.5	,,,,	,,,,

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الجمهورية العراقيـــــــة

وزارة المواصلات

مديرية الطيران المدني العامـــــة

مفتشية الانواء الجوية العامة

شعبة المناخ

بغداد

- - - -

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر كانون الاول ١٩٦٣

MONTHLY CLIMATOLOGICAL DATA FOR DECEMBER 1963

مجلد ٢٦ ،عدد (١٢) ، كانون الاول ١٩٦٣

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TABLE 1-a.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	10.9	12.3	12.9	11.5	15.0	15.6
2	9.8	11.1	11.9	9.1	11.3	11.5
3	7.3	9.0	9.5	8.1	9.8	9.4
4	5.9	7.7	10.1	7.1	11.7	11.6
5	7.3	8.6	8.8	8.1	10.2	10.1
6	7.5	6.9	9.1	8.4	9.0	9.2
7	8.1	7.4	8.3	9.5	8.4	9.7
8	8.9	8.6	9.6	11.0	11.0	10.5
9	7.8	10.6	11.9	10.1	13.3	13.7
10	5.6	9.1	8.9	7.0	10.1	10.7
11	5.7	6.8	5.0	2.9	4.7	4.8
12	4.8	6.2	6.1	3.4	3.8	4.7
13	6.4	7.3	7.3	5.2	5.5	6.5
14	6.5	6.3	7.4	8.4	6.0	6.7
15	8.2	9.0	9.2	8.7	7.6	7.6
16	10.1	9.7	11.0	8.4	8.6	9.5
17	11.0	9.2	11.4	9.4	9.2	9.4
18	10.9	8.6	11.8	10.9	8.9	9.5
19	11.5	10.0	12.9	14.4	11.0	11.2
20	12.2	11.2	13.4	13.9	12.2	13.0
21	15.7	10.8	13.4	14.8	12.3	12.0
22	16.2	10.4	13.4	12.5	12.8	12.6
23	14.7	9.9	14.0	13.5	11.7	11.4
24	11.5	8.3	11.8	13.1	11.3	11.8
25	5.6	5.6	5.4	2.7	7.7	7.8
26	5.7	4.6	6.6	2.0	7.6	8.4
27	4.1	4.0	7.5	3.8	7.9	8.8
28	1.2	3.7	6.2	4.0	5.6	5.2
29	-0.3	4.9	7.0	4.9	6.9	7.1
30	-1.3	4.0	5.6	2.2	7.0	7.7
31	-0.4	1.9	3.1	1.6	5.0	4.6
MEANS	7.7	7.8	9.4	8.1	9.1	9.4
DEPARTURE FROM NORMAL	...	-0.1	-1.2	-0.2	-1.8	-1.6

NOTE : AT SINJAR, OBSERVATIONS 0000 & 2100 ARE MISSED.

TIME : G.M.T.

0000+0300+0600+0900+1200+1500+1800+2100 = DAILY MEAN

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TABLE 1-b.

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	17.2	13.8	15.4	15.7	15.9	17.6
2	15.1	12.2	12.9	11.9	13.8	16.2
3	11.5	11.9	10.4	10.5	14.5	15.8
4	12.1	13.5	12.3	12.8	14.2	15.3
5	11.5	10.5	10.8	10.2	11.2	12.9
6	12.3	10.9	11.5	11.1	10.9	11.4
7	12.5	10.4	10.0	10.2	10.5	11.0
8	13.1	11.2	11.4	10.8	11.4	11.4
9	14.6	12.9	12.7	13.6	15.3	15.7
10	11.5	12.5	12.6	12.1	14.0	17.0
11	6.7	6.1	6.3	5.5	7.2	8.9
12	6.8	5.7	4.4	4.5	5.6	6.8
13	6.9	7.5	5.9	6.9	7.4	9.1
14	8.9	8.7	7.5	7.4	8.2	9.5
15	10.7	10.3	8.6	8.8	9.6	10.4
16	13.0	11.9	9.5	10.7	11.1	11.2
17	12.2	12.6	10.4	11.1	11.9	12.4
18	12.4	12.7	11.2	11.1	11.8	12.9
19	15.6	13.6	13.2	10.3	12.0	12.8
20	15.7	13.8	13.5	14.6	13.8	13.2
21	17.6	14.3	13.2	14.3	14.9	13.6
22	17.6	13.9	14.1	13.7	14.1	13.0
23	16.8	12.9	13.3	13.2	13.1	12.5
24	18.0	13.4	12.8	12.8	13.1	13.5
25	8.5	7.6	8.3	7.7	7.6	9.4
26	6.8	6.7	7.2	6.7	5.4	5.6
27	8.4	6.6	7.0	5.3	6.0	7.0
28	8.4	6.0	5.7	4.7	3.7	7.1
29	7.1	6.7	7.2	6.7	6.2	8.9
30	7.2	11.4	8.3	10.0	12.1	14.6
31	6.0	6.7	6.4	5.8	7.8	9.1
MEANS	11.7	10.8	10.1	10.2	10.8	11.8
DEPARTURE FROM NORMAL	....	-1.6	....	-0.1	-1.8	-1.8

NOTE : AT NUKHAIB, OBSERVATION 0000, 0300, 1800, & 2100 ARE MISSED.
AT HAI, OBSERVATION 2100 IS MISSED.

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TABLE 2-a. المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	RUTBAH	HABBANIYA	BAGHDAD
1	1008.6	1009.9	1010.4	1010.2	1009.1	1009.8
2	10.9	10.7	10.4	12.0	10.2	10.5
3	13.1	13.8	14.1	10.6	11.4	12.6
4	10.6	11.0	10.8	10.5	09.5	10.7
5	18.9	19.4	19.1	19.8	19.6	19.7
6	27.2	27.7	27.3	24.7	26.2	26.6
7	23.7	24.8	22.9	20.9	22.7	22.9
8	16.3	17.1	17.4	12.9	15.6	16.7
9	10.3	10.7	11.3	09.1	09.2	10.4
10	06.5	06.6	07.9	10.3	09.4	09.8
11	21.1	20.9	21.5	25.2	22.7	22.8
12	25.4	25.6	25.2	22.9	24.5	24.8
13	23.5	24.1	24.0	22.5	23.6	23.7
14	27.1	27.6	26.7	24.5	26.5	26.6
15	25.0	25.5	24.9	24.2	24.6	24.6
16	25.0	25.4	24.6	23.4	24.2	24.0
17	24.4	24.9	24.0	23.0	23.9	23.8
18	23.7	24.3	23.3	20.9	22.9	22.9
19	23.5	24.3	23.3	19.7	22.3	22.6
20	25.7	25.8	25.1	22.4	24.1	24.3
21	25.7	26.6	25.7	25.0	25.4	25.3
22	23.5	24.6	23.5	23.9	23.6	23.4
23	21.3	21.1	20.8	22.0	20.7	20.7
24	18.5	18.7	18.8	20.2	18.2	18.1
25	24.5	24.2	20.8	26.0	19.2	17.8
26	29.0	29.2	25.9	28.6	21.5	19.8
27	28.8	27.9	26.0	27.4	23.7	22.8
28	25.9	24.8	24.6	23.6	23.5	24.1
29	19.7	19.8	19.7	14.4	17.1	18.3
30	12.2	08.3	08.0	08.6	06.5	07.2
31	11.7	13.3	14.0	15.3	14.0	14.8
MEANS	1020.4	1020.6	1020.1	1019.5	1019.2	1019.4
DEPARTURE FROM NORMAL	....	-0.5	0.0	-1.4	-1.2	-0.6

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR	
SINJAR	1030.7	27th	0300	1963	1003.1	11th	1500	1963	1963
MOSUL	1030.4	27th	0600	1963	1004.0	30th	2100	1963	
KIRKUK	1028.7	6th	0600	1963	1002.9	30th	1500	1963	
RUTBAH	1029.9	26th	0300	1963	1007.5	30th	0900	1963	
HABBANIYA	1028.4	14th	0600	1963	1003.8	30th	1200	1963	
BAGHDAD	1028.6	14th	0600	1963	1003.8	30th	1200	1963	
SINJAR	1030.7	27th	0300	1963	1003.1	11th	1500	1963	RECORD
MOSUL	1033.7	26th	0600	1947	1004.0	30th	2100	1963	
KIRKUK	1031.5	13th	0600	1956	1002.9	30th	1500	1963	
RUTBAH	1035.9	26th	0600	1947	1005.5	16th	0000	1951	
BAGHDAD	1032.2	13th	0600	1956	1003.8	30th	1200	1963	

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TABLE 2-b. المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

DAILY MEAN PRESSURE (MILLIBARS) AT M.S.L. OF 8 OBSERVATIONS

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	1008.8	1011.3	1008.0	1010.1	1010.3	1012.3
2	20.0	10.1	09.0	11.0	10.5	11.1
3	09.7	13.2	10.6	12.6	12.4	13.7
4	09.1	11.9	10.3	12.3	13.0	14.1
5	20.0	19.2	18.8	20.9	20.7	20.9
6	25.8	25.0	24.2	26.1	25.2	24.4
7	21.4	21.6	19.9	10.3	21.9	21.5
8	13.5	17.6	14.0	16.7	17.2	18.5
9	08.1	11.4	08.0	11.5	10.6	13.3
10	09.6	11.6	09.0	11.9	12.4	13.8
11	25.7	22.1	22.1	24.0	23.5	23.5
12	23.6	24.4	23.0	24.9	24.5	24.4
13	23.2	21.9	21.5	22.9	21.8	21.4
14	26.5	24.6	24.6	26.2	25.0	24.2
15	24.0	23.0	22.9	28.3	23.5	22.9
16	24.1	22.5	22.1	23.7	22.9	22.7
17	23.9	22.3	21.8	23.4	22.7	22.4
18	22.0	21.8	20.9	22.7	22.0	21.8
19	20.4	21.8	20.5	22.5	22.1	22.2
20	22.5	23.5	22.1	23.9	22.2	23.6
21	25.2	23.7	23.6	24.9	23.8	23.6
22	24.9	22.4	21.9	23.1	22.2	21.9
23	20.7	20.2	19.3	20.9	20.4	20.4
24	17.8	18.1	16.4	18.2	18.1	18.5
25	21.9	14.7	16.5	17.1	15.7	15.7
26	25.2	17.7	17.7	18.9	17.9	17.8
27	24.0	22.2	20.9	22.8	22.3	22.2
28	23.3	24.0	22.1	23.8	23.7	24.4
29	15.8	19.6	15.5	18.1	18.3	20.1
30	05.9	08.9	05.8	08.2	08.7	10.8
31	14.2	14.9	14.0	15.8	15.9	16.1
MEANS	1019.4	1018.9	1017.7	1019.3	1019.1	1019.5
DEPARTURE FROM NORMAL	....	-0.1	....	-0.3	-0.3	+0.1

STATIONS	HIGHEST	DAY	TIME	YEAR	LOWEST	DAY	TIME	YEAR
NUKHAIB	1027.8	6th	0600	1963	1004.8	30th	1200	1963
HAI	1026.8	6th	0600	1963	1006.0	30th	1200	1963
NAJAF	1026.2	11th	2100	1963	1000.5	10th	0600	1963
DIWANIYA	1028.4	14th	0600	1963	1004.8	30th	1200	1963
NASIRIYA	1027.4	11th	2100	1963	1003.9	30th	1200	1963
BASRAH	1027.3	11th	2100	1963	1007.9	30th	1200	1963
HAI	1030.2	22nd	0600	1953	1005.0	22nd	0900	1952
DIWANIYA	1031.1	12th	0600	1956	1004.8	30th	1200	1963
NASIRIYA	1030.5	12&13	0600	1956	1005.7	21st	1200	1961
BASRAH	1030.9	27th	0600	1939	1007.5	30th	1200	1954

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TABLE - 3. الـمعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

الايام	سنجار	موصل	كركوك	رطبة	حبانية	بغداد	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	SIN-JAR	MO-SUL	KIR-KUK	RUT-BAH	HABB-ANIYA	BAG-HDAD	NUKH-AIB	HAI	NA-JAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	52	56	58	70	63	62	43	67	50	77	53	76
2	76	81	81	67	83	79	40	88	64	79	63	77
3	93	90	88	87	93	93	84	80	83	86	66	79
4	96	92	92	84	88	88	56	85	72	77	77	88
5	85	82	87	74	89	85	59	80	72	77	77	85
6	79	93	85	78	86	66	59	75	66	71	72	85
7	80	87	79	66	90	68	54	74	70	73	69	82
8	83	84	72	54	78	68	45	72	65	68	66	80
9	81	76	66	63	90	63	46	76	65	68	52	74
10	95	92	92	70	87	84	68	77	64	74	62	57
11	84	85	88	50	60	74	41	75	46	60	51	69
12	86	87	84	52	87	86	28	82	52	69	59	79
13	84	85	84	59	88	80	49	79	65	67	66	74
14	70	87	75	49	75	83	40	75	69	76	66	74
15	67	80	68	40	80	78	35	72	54	71	65	73
16	65	83	70	46	75	72	36	66	57	65	62	69
17	62	83	70	45	72	77	36	67	53	62	63	71
18	59	86	70	45	90	79	40	66	49	65	56	72
19	57	83	63	39	77	68	31	65	52	63	57	72
20	55	83	59	37	74	67	37	65	63	58	58	76
21	48	86	64	41	74	73	40	64	57	61	57	76
22	45	83	66	51	71	79	39	70	57	66	62	83
23	53	84	58	47	79	84	39	77	61	67	70	83
24	58	79	73	37	77	76	30	75	58	69	63	76
25	50	37	38	69	26	33	41	59	47	47	43	62
26	51	54	32	57	19	29	27	59	44	47	49	60
27	60	64	31	53	32	38	34	68	45	61	57	71
28	62	68	37	50	56	58	22	69	59	56	58	69
29	66	59	35	65	46	65	17	53	44	46	47	59
30	79	90	85	87	76	74	69	62	61	56	47	62
31	86	93	87	71	66	75	50	76	55	63	57	68
MEANS	70	80	69	58	72	71	43	72	59	66	60	75
NORMAL	00	92	69	69	64	71	00	72	00	71	71	80

STATIONS	HIGHEST	TIME	DAY	LOWEST	TIME	DAY
SINJAR	99	0300	12th	39	0300	25th
MOSUL	98	2100	24th	19	0900	25th
KIRKUK	100	1500	30ty	12	0900	26th
RUTBAH	99	0000	26th	16	2100	24th
HABBANIYA	100	0600	14th	11	2100	26th
BAGHDAD	100	0300	7th	17	1200	26th
NUKHAIB	93	0900	3rd	10	1200	28th
HAI	98	1800	3rd	36	1200	29th
NAJAF	96	2100	3rd	14	1200	27th
DIWANIYA	98	0300	4th	27	0600	25th
NASIRIYA	94	0300	4th	25	1200	25th
BASRAH	100	0600	23rd	28	1200	29th

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TABLE 4-a . درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	سنجار		موصل		كركوك		خانقين		رطبة	
	SINJAR		MOSUL		KIRKUK		KHANAQIN		RUTBAH	
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	13.5	7.6	14.4	11.4	15.2	13.1	21.1	11.7	17.4	8.4
2	12.1	6.5	14.2	8.8	17.6	10.0	14.4	10.6	14.6	5.(
3	9.4	6.3	10.4	8.2	10.7	8.5	15.0	7.2	10.4	6.1
4	6.8	4.6	9.2	7.2	12.1	7.8	15.0	10.0	8.0	6.2
5	9.5	4.3	14.0	5.2	11.4	6.6	11.1	7.2	14.2	4.(
6	9.6	3.2	11.8	4.4	14.7	5.3	14.4	3.9	16.5	1.8
7	11.6	4.2	13.4	3.0	12.7	3.5	13.9	2.2	16.0	3.(
8	11.3	5.0	14.8	2.6	15.5	3.5	15.0	3.3	19.6	5.(
9	9.6	5.3	14.2	6.2	16.6	7.0	17.2	6.1	15.2	3.(
10	8.5	2.8	11.8	7.4	12.6	7.9	15.0	11.4	12.0	6.(
11	9.0	1.2	11.8	4.2	8.3	3.6	6.6	1.1	8.7	-1.(
12	7.0	0.8	10.4	1.8	11.0	0.5	10.6	0.5	10.0	-3.(
13	10.0	1.8	12.0	4.1	12.5	3.4	13.3	2.8	14.0	-2.(
14	10.2	1.6	13.0	0.2	15.3	1.8	15.0	0.5	17.7	1.(
15	13.5	1.8	14.8	3.2	16.0	3.6	16.7	1.6	18.6	1.(
16	13.5	3.6	15.0	5.8	17.2	6.2	18.9	2.8	18.2	0.(
17	16.0	4.8	17.6	3.3	18.0	5.4	18.3	2.8	19.4	1.(
18	15.3	5.0	16.3	2.8	19.0	6.2	18.9	2.8	20.5	1.(
19	15.3	5.5	18.0	2.8	21.5	7.8	20.0	3.3	23.5	5.(
20	15.4	6.3	17.6	3.8	20.4	8.6	20.6	5.0	22.7	7.(
21	20.0	7.3	18.0	6.1	20.6	8.1	21.1	6.1	25.0	9.(
22	19.3	8.5	18.0	5.2	21.3	8.0	22.8	5.0	22.2	4.(
23	19.8	8.2	17.6	4.7	22.0	7.7	22.2	5.2	24.5	5.(
24	15.0	8.0	13.2	2.1	18.0	7.6	19.4	5.2	23.2	6.(
25	9.1	0.9	8.8	1.8	8.7	0.1	12.2	1.1	5.0	-0.(
26	10.9	0.5	13.6	-1.7	11.6	-0.2	14.4	4.4	8.4	-5.(
27	7.5	-1.0	12.3	-2.1	14.1	3.0	15.6	4.4	10.2	-2.(
28	6.1	-3.4	11.4	-2.8	13.6	0.7	12.8	-1.4	14.0	4.(
29	2.6	-5.7	9.6	0.0	11.2	2.5	11.7	-2.2	10.7	-2.(
30	1.5	-4.4	5.8	1.6	6.4	5.2	14.4	2.8	3.4	2.(
31	2.8	-2.3	2.0	0.8	4.4	0.0	7.8	2.8	6.2	-1.(
MEANS	11.0	3.1	13.1	3.6	14.5	5.3	15.7	4.3	15.2	2.(
DEPARTURE FROM NORMAL	....	....	-1.6	+0.8	-1.3	-0.8	-1.6	-1.7	+0.4	0.(

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
SINJAR	20.6	4th	1962	-5.7	29th	1963
MOSUL	27.2	3rd	1956	-7.4	15th	1959
KIRKUK	27.1	2nd	1956	-6.1	23rd	1946
KHANAQIN	27.8	2nd	1956	-5.0	5th	1941
RUTBAH	26.0	4th	1956	-8.9	5th.	1941

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TABLE 4-b.

كانون الاول ١٩٦٣

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	حبانية		بغداد		نخيب		حي	
	HABBANIYA		BAGHDAD		NUKHAIB		HAI	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	21.7	9.0	20.0	11.6	20.6	7.8	18.9	10.2
2	16.7	7.8	16.8	8.4	17.6	7.1	18.2	8.2
3	10.8	6.9	12.8	4.8	13.6	4.1	19.3	4.2
4	16.7	7.9	16.6	6.2	14.6	4.5	19.2	8.0
5	15.5	8.5	15.2	8.0	14.8	3.2	15.6	5.8
6	17.9	3.3	16.0	2.5	16.4	2.3	17.0	4.2
7	15.7	3.4	16.0	1.3	16.3	2.6	17.2	3.2
8	18.9	3.9	17.6	2.3	17.6	3.4	18.3	4.0
9	18.9	8.6	17.8	9.8	20.2	3.4	18.0	8.3
10	14.9	8.2	14.8	8.3	14.2	3.6	16.8	9.2
11	9.1	2.2	9.3	1.4	10.4	-1.0	9.4	3.0
12	8.9	-1.4	10.4	-1.5	10.2	-3.6	11.2	0.2
13	11.7	0.6	12.3	2.5	10.3	-2.3	15.0	0.0
14	13.5	0.5	14.0	0.5	13.4	-2.5	16.2	2.9
15	16.1	1.5	16.3	0.1	16.0	-2.5	18.9	2.6
16	17.1	2.2	18.2	1.5	17.2	-0.5	20.0	3.2
17	17.8	3.2	18.5	1.7	17.1	-0.6	20.4	4.4
18	18.1	2.4	18.4	1.6	17.4	0.6	21.0	4.9
19	21.1	2.8	20.7	1.6	20.6	0.6	22.2	5.2
20	23.1	4.2	21.8	4.6	21.2	4.2	23.0	5.0
21	20.5	6.1	22.4	5.0	24.0	4.6	23.1	6.4
22	21.9	6.9	22.3	5.7	22.5	5.5	21.3	7.8
23	21.1	5.0	20.8	4.1	22.3	4.6	21.8	6.3
24	20.6	4.9	20.2	2.3	20.3	4.6	23.8	4.6
25	21.1	5.4	12.8	4.6	13.4	-1.5	8.2	4.3
26	12.8	3.8	14.8	3.5	9.4	-2.5	9.0	3.3
27	16.1	2.3	15.2	2.2	12.0	-1.6	12.6	2.0
28	16.2	-0.6	12.7	-2.9	13.5	-4.3	13.6	-1.1
29	13.1	-1.1	12.3	0.0	11.6	-5.5	13.0	-1.0
30	10.1	6.0	11.4	8.2	8.3	-5.4	14.8	7.9
31	10.4	2.1	11.0	1.0	8.6	-4.5	13.6	2.3
MEANS	16.5	4.4	16.1	3.6	15.7	0.9	17.1	4.5
DEPARTURE FROM NORMAL	-1.0	-1.4	-1.6	-1.6	...	...	-1.9	-2.3

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
HABBANIYA	30.6	5th	1959	-6.7	5th	1941
BAGHDAD	26.6	3rd	1956	-6.7	5th	1941
HAI	28.9	1st	1943	-4.6	12th	1956

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TABLE 4-c. درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

الايام	نجف		ديوانية		الناصرية		بصرة	
	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.8	9.6	23.1	11.0	21.5	12.0	21.9	12.0
2	17.2	7.0	17.5	9.5	19.6	9.0	23.0	11.3
3	14.0	6.5	15.6	5.0	20.8	7.0	25.0	8.7
4	15.7	7.3	20.0	7.1	19.2	9.7	19.9	11.2
5	15.8	6.3	15.8	6.2	16.0	6.6	17.4	10.0
6	17.2	6.5	19.4	4.5	17.2	5.4	17.3	5.7
7	16.3	3.4	17.6	3.1	17.1	5.2	17.8	5.8
8	17.2	4.0	18.2	2.0	17.6	3.2	19.6	3.1
9	19.0	7.0	20.6	9.0	22.5	11.0	21.4	8.3
10	19.1	9.4	19.6	7.0	21.6	8.8	25.0	9.3
11	11.2	2.1	10.2	3.0	10.6	5.6	12.2	8.0
12	10.6	-1.0	12.2	-2.3	11.8	-1.2	12.8	1.3
13	13.2	-1.3	14.0	0.0	13.4	0.9	16.9	1.0
14	14.0	0.6	15.5	0.3	16.3	1.8	16.6	4.0
15	16.3	1.6	18.0	1.1	17.6	3.0	18.5	3.5
16	16.0	2.0	19.6	2.8	19.1	3.6	20.8	3.9
17	18.2	3.3	20.2	3.0	20.0	4.9	21.0	5.1
18	18.2	3.3	20.5	3.2	20.5	4.7	20.7	5.0
19	21.2	3.4	23.0	4.0	21.0	3.8	22.5	5.8
20	23.1	5.4	24.5	6.5	23.1	6.4	23.1	6.5
21	21.0	6.2	23.0	7.3	24.0	7.7	22.1	6.6
22	20.4	8.3	22.2	8.0	22.1	8.6	21.1	7.6
23	20.3	6.2	21.4	4.8	21.3	7.4	23.7	4.8
24	21.0	5.6	23.0	5.0	21.1	4.6	22.8	5.7
25	12.2	4.8	11.7	0.6	8.7	5.2	13.0	7.5
26	12.9	1.6	13.9	2.0	8.3	1.8	7.8	3.3
27	13.2	1.0	13.5	0.2	11.3	1.6	11.8	3.1
28	13.0	-0.6	13.9	-3.3	11.8	-2.1	15.3	0.7
29	13.3	-2.1	14.0	-2.5	12.7	-2.2	15.4	2.0
30	16.0	2.0	15.3	4.4	16.4	8.6	18.0	7.3
31	12.6	0.5	12.6	0.6	11.8	4.1	12.6	8.2
MEANS	16.5	3.9	17.7	3.6	17.3	5.1	18.6	6.0
DEPARTURE FROM NORMAL	****	****	-0.7	-1.5	-1.5	-2.0	-1.0	-2.5

STATIONS	HIGHEST MAX.	DAY	YEAR	LOWEST MIN.	DAY	YEAR
DIWANIYA	27.8	14th	1943	-5.6	30th	1948
NASIRIYA	28.2	5th	1956	-5.0	6th	1941
BASRAH	30.4	1st	1962	-2.6	13th	1956

TABLE 5. المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

STATIONS	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	5.2	6.5	9.3	10.3	8.7	6.6	...	7.6
MOSUL	5.4	4.7	6.3	10.5	12.2	9.8	7.5	6.1	7.8
KIRKUK	7.1	6.7	8.5	12.9	13.5	10.3	8.4	7.5	9.4
KHANAQIN	...	6.1	8.4	13.7	14.6	12.6	9.2	...	10.8
RUTBAH	4.7	3.5	5.6	12.3	14.6	10.7	7.2	5.6	8.0
HABBANIYA	6.5	5.0	7.4	13.6	15.2	10.5	8.3	6.9	9.2
BAGHDAD	5.9	4.9	7.7	13.3	15.5	11.8	8.7	6.2	9.5
NUKHAIB	...	...	5.4	12.3	15.4	13.6	...	...	11.7
HAI	6.9	5.7	8.2	14.9	16.5	12.4	9.8	...	10.6
NAJAF	6.9	4.9	7.8	13.6	16.2	13.1	10.2	8.2	10.1
DIWANIYA	5.9	4.7	8.5	15.4	17.3	12.7	9.4	6.9	10.1
NASIRIYA	7.4	6.1	8.7	14.6	17.1	13.5	10.7	8.9	10.9
BASRAH	8.2	7.2	10.8	16.5	17.8	13.4	11.1	9.5	11.8

TABLE 6. المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE(MILLIBARS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	6.4	7.1	7.7	8.0	7.6	6.9	...	7.3
MOSUL	7.9	7.6	8.0	8.8	9.2	9.4	9.0	8.1	8.5
KIRKUK	7.6	7.4	7.6	8.1	8.2	8.8	8.3	7.9	8.0
KHANAQIN	...	7.3	7.9	8.7	8.6	9.1	8.8	...	8.4
RUTBAH	6.0	6.0	6.0	6.1	5.8	6.3	6.2	5.9	6.0
HABBANIYA	7.6	6.9	7.6	9.2	9.0	9.3	8.7	8.1	8.3
BAGHDAD	7.6	7.2	8.1	9.0	9.0	9.3	8.7	8.1	8.4
NUKHAIB	...	...	5.5	7.1	5.6	5.8	...	...	6.0
HAI	8.3	7.7	8.9	10.4	9.6	10.1	9.2	...	9.2
NAJAF	7.2	6.6	6.8	7.2	7.1	7.8	7.4	7.4	7.2
DIWANIYA	7.3	6.9	7.9	9.0	9.0	9.3	8.4	7.6	8.2
NASIRIYA	7.6	6.9	7.2	8.1	7.8	9.2	8.6	8.0	7.9
BASRAH	9.5	8.6	10.0	11.0	10.9	11.1	10.9	9.9	10.2

TABLE 7. MONTHLY MEAN WET-BULB TEMPERATURES(C°) حرارة البصلة الرطبة (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	3.3	4.5	6.3	7.1	5.3	4.2	...	5.1
MOSUL	4.5	3.9	5.2	8.0	9.2	8.0	6.5	5.1	6.3
KIRKUK	5.2	4.8	6.1	8.6	9.0	7.8	6.4	5.6	6.7
KHANAQIN	...	4.6	6.2	9.5	10.0	9.1	7.3	...	7.8
RUTBAH	2.9	1.5	3.4	7.0	8.6	6.3	4.3	3.3	4.7
HABBANIYA	4.6	3.8	5.5	9.7	10.3	8.4	6.5	5.5	6.8
BAGHDAD	4.7	3.8	6.0	10.3	10.7	8.9	6.9	5.3	7.1
NUKHAIB	...	...	2.7	7.1	8.4	7.7	...	...	6.5
HAI	5.5	4.6	6.6	10.7	10.9	9.5	7.6	...	7.9
NAJAF	4.9	3.3	5.1	8.5	9.7	8.6	6.6	5.8	6.6
DIWANIYA	4.2	3.3	6.2	9.8	11.3	9.3	7.0	5.2	7.0
NASIRIYA	5.2	4.3	5.8	9.5	10.6	9.7	7.9	6.5	7.4
BASRAH	7.2	6.0	8.8	12.2	12.7	10.8	9.5	8.1	9.4

TABLE 8. MONTHLY MEAN DEW-POINT(C°) معدل درجة الندى (سنتغراد)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	0.6	1.6	2.7	3.2	2.3	1.5	...	2.0
MOSUL	3.2	3.1	3.5	4.5	5.1	5.6	4.9	3.3	4.2
KIRKUK	2.3	1.9	2.3	2.1	3.1	4.2	3.5	2.7	2.8
KHANAQIN	...	3.1	4.1	5.3	5.2	5.8	5.4	...	4.8
RUTBAH	-0.7	-0.8	-1.0	-1.1	-1.8	-0.2	-0.3	-1.1	-0.9
HABBANIYA	2.2	1.5	2.8	4.3	3.8	4.7	4.0	2.9	3.3
BAGHDAD	2.5	1.6	3.4	4.8	4.6	5.3	4.3	3.2	3.7
NUKHAIB	...	...	-2.3	-0.9	-2.4	-1.6	...	...	-1.8
HAI	3.9	3.4	4.9	6.9	5.9	6.6	5.3	...	5.3
NAJAF	1.9	0.9	1.2	2.8	2.1	2.4	2.2	2.3	2.0
DIWANIYA	2.0	1.2	2.9	4.7	4.6	5.2	4.0	2.7	3.5
NASIRIYA	1.9	1.3	1.6	3.1	2.8	5.5	4.4	3.3	3.0
BASRAH	5.8	4.5	6.6	7.9	7.6	7.8	7.7	6.3	6.8

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TABLE - 9. المعدل الشهري للرطوبة النسبية (%)

MONTHLY MEAN RELATIVE HUMIDITY(%)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	78	73	66	64	69	72	,,	70
MOSUL	86	89	83	69	63	77	85	85	80
KIRKUK	75	75	69	56	55	70	75	76	69
KHANAQIN	,,	77	71	55	50	64	74	,,	65
RUTBAH	70	75	63	43	37	50	61	65	58
HABBANIYA	80	78	77	58	52	70	78	80	72
BAGHDAD	84	76	76	57	50	69	77	82	71
NUKHAIB	,,	,,	59	43	33	38	,,	,,	43
HAI	83	87	81	69	51	68	74	,,	72
NAJAF	71	76	63	45	37	54	59	67	59
DIWANIYA	77	79	67	49	45	62	70	75	66
NASIRIYA	69	72	62	47	39	58	66	69	60
BASRAH	85	84	76	57	52	70	80	81	73

TABLE -10. معدل الضغط الجوي على سطح البحر (ملبار)

MONTHLY MEAN PRESSURE(mbs) AT M.S.L.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,,	20.7	21.4	20.6	22.3	19.7	19.6	,,,,	1020.7
MOSUL	20.6	20.7	21.7	20.9	19.4	19.9	20.7	20.8	1020.6
KIRKUK	20.2	20.1	21.0	20.0	18.6	19.6	20.4	20.5	1020.1
KHANAQIN	,,,,	21.0	20.5	19.0	18.0	19.1	20.0	,,,,	1019.6
RUTBAH	19.2	19.8	20.6	19.6	18.1	19.2	20.2	19.7	1019.6
HABBANIYA	19.0	19.2	20.4	19.3	18.1	18.5	19.3	19.5	1019.2
BAGHDAD	19.2	19.3	20.5	19.8	18.8	19.0	19.6	19.6	1019.5
NUKHAIB	,,,,	,,,,	21.4	20.1	17.9	18.2	,,,,	,,,,,	1019.4
HAI	18.7	18.9	20.1	19.3	18.0	18.3	19.2	,,,,	1018.9
NAJAF	17.5	17.5	18.5	17.6	16.6	17.0	17.8	17.9	1017.6
DIWANIYA	19.3	19.6	20.9	19.6	18.3	19.0	19.7	19.7	1019.5
BASRAH	19.3	19.5	20.9	19.8	18.6	19.0	19.6	19.6	1019.5
NASIRIYA	18.8	19.2	20.3	19.5	18.1	18.5	19.3	19.3	1019.1

TABLE -11. معدل كمية الغيم الواطئة

MONTHLY MEAN LOW CLOUD AMOUNT(OKTAS)

SYATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,	1.7	2.1	2.4	2.8	2.0	1.6	,,,	2.3
MOSUL	3.2	3.6	4.2	4.5	3.7	3.2	2.9	2.6	3.5
KIRKUK	2.4	2.5	1.9	2.7	2.7	2.2	2.1	1.9	2.3
KHANAQIN	,,,	2.5	2.5	2.4	3.1	2.3	2.2	,,,	2.5
RUTBAH	0.7	0.7	1.0	1.1	1.6	1.3	1.1	1.0	1.1
HABBANIYA	0.2	0.6	1.1	1.0	1.5	0.5	0.2	0.0	0.6
BAGHDAD	0.6	0.6	1.1	1.1	1.0	0.8	0.5	0.3	0.7
NUKHAIB	,,,,	,,,,	0.7	0.6	1.0	1.0	,,,,	,,,	0.8
HAI	0.0	0.2	0.3	0.7	1.1	0.6	0.6	,,,	0.5
NAJAF	0.5	0.8	0.9	1.0	0.9	1.1	0.7	0.1	0.8
DIWANIYA	0.0	0.3	0.9	0.7	0.7	0.7	0.4	0.1	0.5
NASIRIYA	0.2	0.3	1.0	0.7	1.1	0.7	1.0	0.6	0.7
BASRAH	0.5	0.6	0.7	1.4	1.5	0.9	0.5	0.6	0.8

TABLE -12. معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,,	2.5	4.4	2.9	5.3	4.9	2.9	,,,	3.8
MOSUL	4.5	4.7	5.8	6.1	5.6	5.1	4.1	3.7	5.0
KIRKUK	3.0	2.8	3.5	4.1	4.4	3.2	2.3	2.5	3.2
KHANAQIN	,,,	2.6	3.7	4.0	4.8	3.4	2.4	,,,,	3.5
RUTBAH	1.6	2.3	3.7	3.3	3.1	2.4	2.0	1.6	2.5
HABBANIYA	1.9	2.6	3.7	4.0	3.9	2.9	2.3	1.6	2.9
BAGHDAD	1.9	2.2	3.5	3.3	3.6	2.9	2.0	1.7	2.6
NUKHAIB	,,,	,,,	3.0	3.6	4.0	3.6	,,,	,,,	3.6
HAI	1.8	1.5	2.0	2.5	3.0	2.6	1.7	,,,	2.2
NAJAF	1.3	1.7	2.3	2.7	3.0	3.1	1.9	1.1	2.1
DIWANIYA	1.1	1.6	2.2	2.5	2.5	2.4	1.3	0.7	1.8
NASIRIYA	1.0	1.1	1.6	1.9	2.5	1.9	1.9	1.5	1.7
BASRAH	1.3	1.5	1.8	2.0	2.5	1.8	1.3	1.3	1.7

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TABLE 13 a. 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	CA-LM ك ساكن	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	>34	معدل السرعة بالعقد MEAN V.K.
سنجار SINJAR	0300	11	1	11	0	0	0	4	4	0	22	5	0	4	13
	0600	5	1	10	1	0	0	5	2	7	17	3	1	3	9
	0900	1	0	14	2	4	1	0	4	5	18	3	2	3	9
	1200	1	1	13	2	5	0	4	0	5	18	8	0	0	7
	1500	3	0	8	1	1	0	2	2	14	11	6	0	0	5
	1800	13	2	3	0	0	0	3	5	5	19	3	3	1	9
	TOTAL	34	5	59	6	10	1	18	17	36	105	30	6	9	9
موصل MOSUL	0000	1	0	7	1	5	1	6	2	8	16	6	1	0	7
	0300	0	0	7	2	4	0	5	5	8	15	8	0	0	7
	0600	4	0	6	5	5	1	3	2	5	19	6	1	0	7
	0900	4	0	7	0	9	0	3	6	2	21	8	1	0	8
	1200	3	4	5	5	6	0	2	4	2	18	11	0	0	9
	1500	0	0	7	3	5	0	3	3	10	14	7	0	0	6
	1800	0	0	8	2	7	0	3	6	5	21	4	1	0	7
	2100	1	2	5	3	5	0	4	2	9	18	2	2	0	6
	TOTAL	13	6	52	21	46	2	29	30	49	142	52	5	0	7
كركوك KIRKUK	0000	0	2	6	3	2	0	1	0	17	8	4	2	0	5
	0300	1	1	6	2	1	0	1	0	20	5	4	2	0	5
	0600	1	3	3	5	1	0	0	0	18	9	3	1	0	5
	0900	1	3	2	8	4	1	1	0	11	17	2	1	0	5
	1200	1	3	0	6	7	0	0	0	14	10	6	1	0	6
	1500	1	2	1	6	1	0	0	0	20	7	4	1	0	3
	1800	0	4	4	5	1	0	0	0	17	11	3	0	0	4
	2100	0	4	8	2	1	0	1	0	15	10	6	0	0	5
	TOTAL	5	22	30	37	18	1	3	0	132	77	32	7	0	37
خانقين KHANAQIN	0300	0	0	10	0	8	0	3	0	10	17	2	2	0	5
	0600	0	1	9	0	12	1	1	0	7	17	6	1	0	6
	0900	0	3	0	0	12	1	2	3	10	13	4	3	1	8
	1200	0	2	2	0	10	1	10	4	2	21	3	4	1	9
	1500	0	2	3	0	15	0	5	0	6	21	1	3	0	4
	1800	0	2	5	0	9	0	1	0	14	15	0	2	0	5
	TOTAL	0	10	29	0	66	3	22	7	49	104	16	15	2	6
رطبة RUTBAH	0000	1	1	1	1	3	1	9	2	12	9	5	5	0	7
	0300	1	1	0	0	6	4	7	3	9	15	5	2	0	6
	0600	1	0	0	0	5	4	9	4	8	16	5	2	0	7
	0900	4	0	0	0	6	3	9	3	6	18	3	3	1	9
	1200	5	1	0	1	8	0	8	4	4	15	8	3	1	10
	1500	4	0	1	3	6	0	6	3	8	18	3	2	1	6
	1800	4	1	0	2	4	0	5	2	13	13	4	1	0	5
	2100	2	0	1	2	3	4	6	1	12	12	3	4	0	7
	TOTAL	22	4	3	9	41	16	59	22	72	116	36	22	2	57

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TABLE 13-b.

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عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت التسجيل TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	بدون سكون CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34-	معدل السرعة بالعقد MEAN V.K.
حبانية HABBANIYA	0000	2	0	0	4	1	2	4	1	17	3	7	4	0	7
	0300	1	0	3	1	0	2	5	1	18	5	6	2	0	5
	0600	1	0	1	2	2	1	5	3	16	5	10	0	0	5
	0900	2	0	2	2	2	2	7	4	10	11	9	1	0	10
	1200	2	0	3	1	2	1	6	9	7	13	10	1	0	8
	1500	1	0	2	2	1	2	2	3	18	7	5	1	0	4
	1800	2	0	3	1	1	2	2	1	19	4	7	1	0	5
	2100	0	0	2	3	1	3	2	3	17	6	7	1	0	6
	TOTAL	9	0	16	16	10	15	33	25	122	54	61	11	0	6
بغداد BAGHDAD	0000	3	1	0	6	2	1	3	6	9	15	5	2	0	7
	0300	3	0	0	5	1	2	4	4	12	12	4	3	0	7
	0600	3	1	1	6	2	1	5	8	4	21	5	1	0	8
	0900	4	0	0	6	3	1	3	13	1	17	13	0	0	10
	1200	6	2	0	5	3	1	3	10	1	18	12	0	0	10
	1500	1	0	1	5	3	1	1	1	8	19	4	0	0	5
	1800	2	0	1	6	0	2	3	6	11	13	7	0	0	6
	2100	1	0	0	6	1	2	2	8	11	14	5	1	0	6
	TOTAL	23	4	3	45	15	11	24	56	57	129	55	7	0	7
نخيب NUKHAIB	0600	0	0	1	0	4	4	11	4	7	21	2	1	0	6
	0900	2	0	2	1	5	3	11	3	4	20	5	2	0	8
	1200	0	1	4	1	5	2	13	3	2	20	7	2	0	8
	1500	1	1	4	2	3	2	12	5	1	24	3	3	0	8
	TOTAL	3	2	11	4	17	11	47	15	14	85	17	8	0	8
هاي HAI	0000	2	0	5	1	0	0	9	8	6	20	5	0	0	5
	0300	1	0	5	0	0	0	10	8	7	18	6	0	0	6
	0600	2	1	7	0	0	0	5	10	6	20	5	0	0	6
	0900	4	3	4	1	0	0	7	7	5	20	6	0	0	7
	1200	2	2	6	1	0	0	6	10	4	21	6	0	0	7
	1500	2	3	6	0	1	0	5	5	9	19	3	0	0	4
	1800	1	2	4	1	2	0	7	9	5	22	4	0	0	5
	TOTAL	14	11	37	4	3	0	49	57	42	140	35	0	0	7
نجف NAJAF	0000	10	0	0	3	3	1	2	7	5	18	6	2	0	8
	0300	9	3	0	4	1	2	1	5	6	19	4	2	0	8
	0600	10	4	0	0	4	2	2	5	4	20	5	1	0	8
	0900	13	4	1	1	2	2	4	2	2	21	5	2	1	9
	1200	15	6	0	1	3	1	2	3	0	22	7	2	0	8
	1500	14	5	0	1	4	1	1	3	2	23	5	1	0	7
	1800	10	3	2	2	2	2	1	6	3	22	4	2	0	7
	2100	10	0	1	2	3	1	0	8	6	18	5	2	0	7
	TOTAL	91	25	4	14	22	12	13	39	28	163	41	14	2	8

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TABLE 13-a. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت 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	المعدل السرعة بالعقد MEAN V.K.
ديوانية DIWANIYA	0000	5	0	3	4	0	2	11	1	5	20	6	0	0	6
	0300	3	0	2	4	1	2	16	0	3	23	5	0	0	6
	0600	4	0	2	2	5	1	13	2	2	19	10	0	0	8
	0900	3	0	2	4	0	1	14	3	4	22	5	0	0	7
	1200	7	0	2	1	3	0	13	4	1	20	9	1	0	8
	1500	10	2	2	2	0	1	10	2	2	25	4	0	0	6
	1800	1	2	3	2	0	1	12	3	7	19	5	0	0	6
	2100	3	0	5	2	2	1	8	0	10	16	5	0	0	4
	TOTAL	36	4	21	21	11	9	97	15	34	164	49	1	0	6
ناصرية NASIRIYA	0000	2	0	0	5	2	3	12	5	2	26	3	0	0	5
	0300	0	0	1	4	3	4	15	3	1	27	3	0	0	5
	0600	0	1	2	4	1	4	12	7	0	26	5	0	0	7
	0900	2	0	0	6	2	0	13	7	0	25	5	0	0	7
	1200	3	1	3	4	1	0	7	12	1	28	3	0	0	7
	1500	5	1	2	4	1	0	8	9	2	28	1	0	0	7
	1800	6	0	1	5	3	1	8	4	3	26	2	0	0	4
	2100	1	0	1	4	7	2	9	5	2	26	3	0	0	5
	TOTAL	19	3	10	34	19	14	84	52	11	212	25	0	0	6
بصرة BASRAH	0000	4	1	2	1	1	2	7	9	4	24	3	0	0	4
	0300	0	0	3	2	2	1	15	5	3	23	5	0	0	5
	0600	2	0	2	4	0	2	14	7	0	27	4	0	0	5
	0900	4	0	1	3	2	2	5	14	0	23	7	0	1	8
	1200	4	0	0	3	5	0	0	18	1	26	3	1	0	7
	1500	2	0	1	7	2	0	3	15	1	25	5	0	0	5
	1800	8	1	3	1	2	1	5	9	1	27	3	0	0	4
	2100	6	1	4	0	1	2	3	10	4	24	3	0	0	4
	TOTAL	30	3	16	21	15	10	52	87	14	199	33	1	1	5

TABLE 14. اعلى سرعة ريح خلال ساعة

HIGHEST WIND - SPEED DURING ONE HOUR

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR(V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	61 Knots	350	0300	25th
MOSUL	30	300	2100	24th
KIRKUK	28	140	0300	31st
KHANAQIN	41	180	1200	30th
RUTBAH	35	360	1200	25th
HABBANIYA	30	280	0300	25th
BAGHDAD	25	130	0000	30th
NUKHAIB	30	280	1200	26th
HAI	22	080	0900	30th
NAJAF	36	350	0600	25th
DIWANIYA	23	360	1200	25th
NASIRIYA	17	140	0300	30th
BASRAH	36	170	0900	30th

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TABLE 15-a — الهطول اليومي (ملليمترات)

DAILY PRECEPITATION (MILLIMETERS), tr. <0.05 mm

الايام	سنجار	موصل	كركوك	خانقين	رطبة	حبانية	بغداد
DATE	SINJAR	MOSUL	KIRKUK	KHANAQIN	RUTBAH	HABBANIYA	BAGHDAD
1	tr.	1.2	3.7	0.5	tr.	tr.	tr.
2	0.3	5.2	0.5	0.7	tr.	0.0	tr.
3	6.7	29.4	22.7	1.5	tr.	6.6	8.0
4	16.2	32.4	8.5	7.0	tr.	tr.	0.3
5	1.1		tr.	8.3	0.8		
6				0.4			
7							
8			0.5				
9	tr.	4.6	2.3	0.6	0.9		
10	23.6	14.1	9.2	15.0	tr.	12.7	3.3
11				6.4			
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29		6.3	2.0		2.0		tr.
30	16.7	14.5	40.1	4.4	1.5	4.9	4.0
31	17.1	5.6	2.3	3.2			
TOTAL	81.7	113.3	91.8	48.0	5.2	24.2	20.6
NORMAL	79.8	62.4	61.9	57.3	20.6	20.0	25.1

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
SINJAR	65.3	20th	1949
MOSUL	70.9	30th	1945
KIRKUK	46.3	30th	1945
KHANAQIN	71.4	21st	1956
RUTBAH	45.7	26th	1935
HABBANIYA	28.2	13th	1938
BAGHDAD	40.0	5th	1954

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كانون الاول ١٩٦٣

TABLE 15-b.

الهطول اليومي (ملليمترات)

DAILY PRECEPITATION (MILLIMETERS) . tr. (0.05 mm

الايام	نخيب	حي	نجف	ديوانية	ناصرية	بصرة
DATE	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1		tr.			tr.	0.2
2		0.8		tr.	tr.	
3	0.5	12.0	10.0	9.0	31.2	17.8
4	5.0			tr.	0.9	tr.
5						
6						
7						
8						
9		0.9		tr.	tr.	0.2
10		6.8	1.0	3.8	0.1	0.4
11	1.0					
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30	0.9	tr.		0.3	0.3	0.1
31	1.1					
TOTAL	7.6	21.4	11.0	12.8	32.5	18.7
NORMAL	....	28.4	....	25.3	24.5	36.7

STATIONS	HIGHEST AMOUNT OF RAIN IN ONE DAY	DAY	YEAR
HAI	41.0	5th	1954
DIWANIYA	37.6	18th	1941
NASIRIYA	31.2	3rd	1963
BASRAH	57.0	5th	1954

DECEMBER 1963 — كانون الاول ١٩٦٣

TABLE 15-c. — الهطول اليومي (ملليمترات)

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

الايام	دهوك	سرسنك	تلعفر	عقرة	كيارة	صلاح الدين	بكرجو	حلبجة
DATE	DUHOK	SER-SANK	TELA-AFAR	AQRA	QAYARA	SALAH ADDIN	BAKRAJO	HALA-BJAH
1	1.4	0.1	1.7	6.5	5.5	28.0	26.0	
2	1.0	0.3	11.5	7.2	11.5	5.0		2.0
3	16.1	1.9	17.5	43.0	26.5	30.0	24.0	1.5
4	24.7	1.1	9.0	20.3	56.5	26.5	54.0	2.5
5				6.6		tr.	2.0	
6								
7								
8		0.6				11.7		2.5
9	28.7	1.9	8.0	25.4	6.5	23.5	14.0	1.5
10	23.3	0.9	7.0	27.8	4.0	29.6	13.0	
11						3.7		
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29	1.9	1.9	1.3	4.6		4.5		
30	14.9	0.5	13.3	23.2		6.0	28.0	2.0
31			1.6	3.7	25.0		8.0	2.5
TOTAL	112.0	9.2	70.9	160.0	110.5	168.1	169.0	14.5

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TABLE 15d.

كانون الاول ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECEPITATION (MILLIMETERS) ; tr. < 0.05 mm

الايام	حويجة	افتخار	طوز	المنصور	جلولاء	مندلي	بيجي	عنة
DATE	HAWIJA	IFTI-KHAR	TUS	MANSOOR	JALAWLAA	MANDILY	BAIJI	ANAH
1	2.2							1.0
2						50.0	4.0	
3	23.2	10.2				40.0	15.4	2.7
4	10.4	5.1	11.4	35.0	25.4	105.0	9.4	9.2
5								
6								
7								
8								
9	2.5							0.1
10	7.6	11.4		50.0	16.5	90.0	4.5	3.5
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29	4.2							
30	17.6	22.9		17.0	10.2		18.4	1.0
31			25.4					
TOTAL	67.7	49.6	36.8	102.0	52.1	185.0	51.8	17.5

DECEMBER 1963 .

TABLE 15-c .

(18)

كانون الاول ١٩٦٣

الهطول اليومي (ملليمترات)

DAILY PRECEPITATION (MILLIMETERS) : tr. < 0.05 mm

الايام	كربلاء	كوت	بدعة	معقل	فاو	عزيزية	سامراء	سعيدية
DATE	KARBALAA	KUT	BADA'A	MAQIL	FAO	AZIZIYA	SAMARA	SAIDIYA
1		3.0					tr.	
2		2.0				6.0		
3		4.0		12.7			8.0	
4	32.0	1.6	8.0		0.5		tr.	
5								20.0
6								
7								
8								
9		3.5					tr.	
10	18.0	2.2					4.0	
11			1.0					
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29							3.5	
30		2.0				5.0	2.5	
31			2.0					25.0
TOTAL	50.0	18.3	11.0	12.7	0.5	11.0	18.0	45.0

DECEMBER 1963 . (19) كانون الاول ١٩٦٣

TABLE -٣٠ الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) : tr. < 0.05 mm

الايام	بعقوبة	تل عوينات	اور	دوكان	هيت	علي الغربي	بدرة
DATE	BAQOBA	TEL-AWAINAT	UR	DUKAN	HIT	ALI-ALGHARBI	BADRA
1				7.9			
2				0.8			
3	5.0	15.2		5.8	10.6	18.6	
4	2.2	15.2	7.6	8.4	5.3		6.0
5		5.1		1.0			10.0
6							
7							
8				0.5			
9				2.8			5.0
10	17.2			8.6		7.6	4.0
11					7.8		
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29		15.2			2.6		
30	3.8			8.4			3.5
31							
TOTAL	28.2	50.7	7.6	44.2	26.3	26.2	28.5

TABLE -16 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــة

NO. : OF DAYS FOR CASES OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
SINJAR	7	2	0	0	0	1	3	8	3
MOSUL	9	2	0	0	5	0	4	12	8
KIRKUK	10	1	0	2	0	0	10	5	2
KHANAQIN	11	0	0	3	0	0	11	8	0
RUTBAH	4	0	0	0	0	0	12	4	19
HABBANIYA	3	0	0	0	2	0	8	0	0
BAGHDAD	4	0	0	0	5	0	12	2	0
NUKHAIB	4	0	0	0	0	1	8	4	4
HAI	5	0	0	0	0	2	14	2	5
NAJAF	2	0	0	0	1	2	14	2	4
DIWANIYA	2	0	0	1	0	2	15	0	5
NASIRIYA	3	0	0	1	0	2	17	0	4
BASRAH	4	0	0	1	-2	2	18	0	4

TABLE -17.

DURATION OF SUNSHINE : مدة سطوع الشمـــس

STATIONS	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DATE	NO. OF DAYS WITHOUT SUNSHINE
MOSUL	141.7	8.8	26th	7
HABBANIYA	198.9	9.4	23rd	0
BAGHDAD	185.0	8.7	23rd	2
BASRAH	227.1	9.8	6&7th	3

TABLE -18 .

المعدل الشهري لحرارة العشب و التربـــه (سنتغراد)

MONTHLY MEAN TEMPERATURE OF :

STATIONS	GRASS MINIMUM TEMPERATURE C °	EARTH TEMPERATUR 0.3 M	EARTH TEMPERATUR 1.2 M
MOSUL	...	9.6	...
KIRKUK	1.5	11.7	17.8
HABBANIYA	3.8	14.7	21.8
BAGHDAD	-0.1	12.9	21.9
NAJAF	...	11.7	20.2
NASIRIYA	3.9	14.8	23.1
BASRAH	2.3	...	...