الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

شعبة المناخ

بغداد

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MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

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معلومات مناخية شهرية لشهر
كانون الثاني ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR JANUARY 1961

مجلد ٢٤ عدد (١) كانون الثاني ١٩٦١

VOLUME 24 , No. (1) JANUARY 1961

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METEOROLOGICAL STATIONS

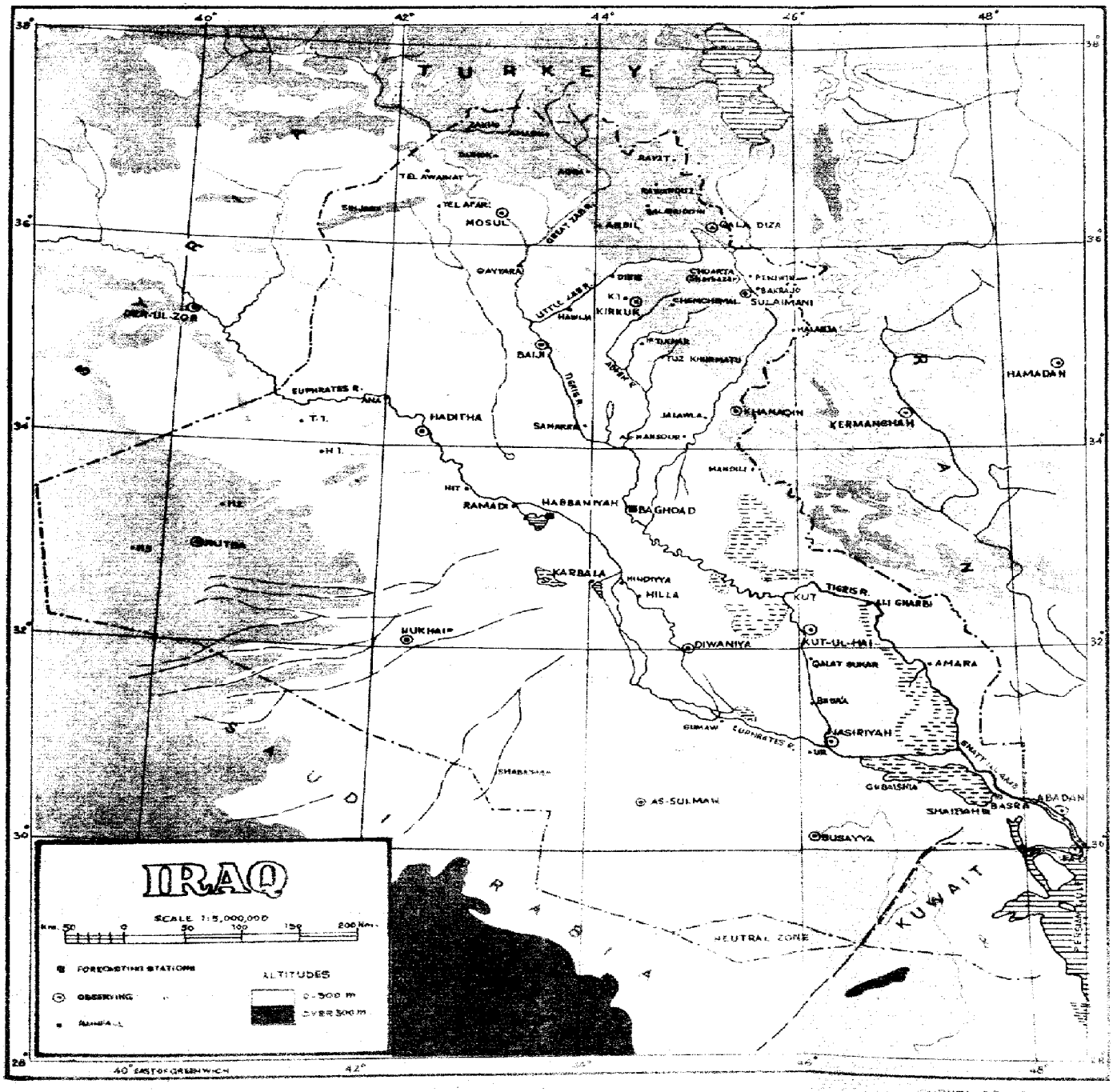
STATIONS	LATITUDE	N.	LONGITUDE	E.	HEIGHT ABOVE MSL (METERS)
MOSUL	36 19	N.	43 09	E.	222.6 Meters
KIRKUK	35 28		44 24		330.8
KHANAQIN	34 18		45 26		201.2
BAGHDAD	33 20		44 24		34.1
HABBANIYA	33 22		43 34		43.6
RUTBAH	33 02		40 17		515.5
HAI	32 10		46 03		14.9
DIWANIYAH	31 59		44 59		20.4
NASIRIYAH	31 01		46 14		3.0
BASRAH	30 34		47 47		2.4

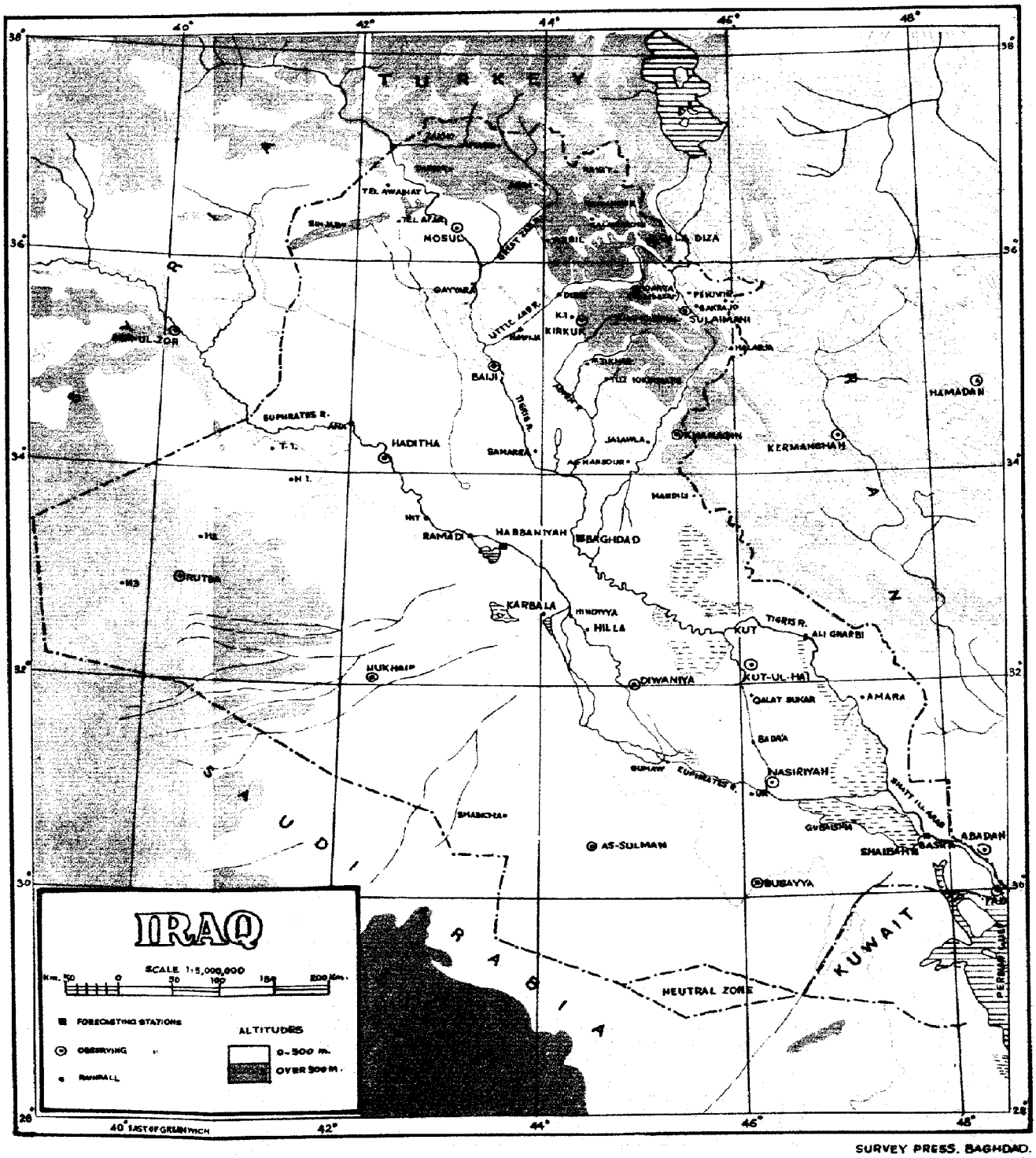
SELECTED RAINFALL STATIONS

STATION	LATITUDE	N.	LONGITUDE	E.	HEIGHT ABOVE MSL (METERS)
ZAKHO	37 08	N.	42 41	E.	442 Meters
AMADIA	37 05		43 30		1236
RAWANDUZ	36 37		44 33		1006
AQRA	36 45		43 53		716
TEL-AWAINAT	36 41		42 34		346
SINJAR	36 19		41 50		476
TELAAFAR	36 22		42 26		273
QAYARA	35 48		43 17		180
ARBIL	36 11		44 00		415
CHAMCHAMAL	35 32		44 51		701
SULAIMANIYA	35 33		45 27		853
PENJWIN	35 37		45 56		1311
BAKRAJO	35 34		45 23		750
HALABJAH	35 11		45 59		724
IFTIKHAR	35 03		44 27		204
CUARTA	35 44		45 33		1356
SALAHEDIN	36 37		44 13		1088
RAYAT	36 14		44 57		2610
SANAT	36 46		42 48		-
DUHOK	36 52		43 02		860
MIRZARUSTAM	36 03		44 58		459
SHAQLAWA	36 23		44 20		-
BERSANK	36 58		43 32		1046
BINKIRD	36 03		45 03		708
TUZ	34 53		44 39		220
ANA	34 28		41 27		-

GEOGRAPHICAL DATAS (Continued)

STATION	LATITUDE N.			LONGITUDE E.			HEIGHT ABOVE MSL (METERS)	
DIALA (SEDOR)	34	05	N.	45	01	E.	68	Meters
JALAWLAA	34	16		45	09		119	
HIT	33	39		43	50		58	
KARBALAA	32	37		44	01		29	
HINDIA	32	48		44	17		24	
HILLA	32	29		44	26		27	
KUT	32	30		45	45		19	
MANDILY	33	45		45	33		137	
NUKHAIB	32	02		42	15		305	
AMARA	31	51		47	10		9	
SHABICHA	30	42		47	44		-	
SAMAWA	31	18		45	16		6	
BADAA	31	26		46	11		9	
UR	30	58		46	08		4	
CHABISHIYA	30	44		47	05		4	
MAIQIL	30	34		47	47		2	
FAO	29	59		48	30		2	
DIBIS	35	41		44	05		239	
BAIJI	34	56		43	29		115	
SAMIRRAA	34	11		43	50		65	
RUMADI	33	25		43	17		49	
HADITHA	34	04		42	22		140	
HAWIJAH	35	31		43	18		305	
ALI AL GHARBI	32	28		46	41		13	
SALMAN	30	28		45	43		202	
GALALA	35	37		44	49		1050	
BILLI (ZIBAR)	36	52		44	04		400	
DIANA	36	39		44	33		700	
TAQ-TAQ	35	53		44	35		300	
KERAS	36	23		43	48		229	
QADIR-KARAM	35	11		44	52		360	
KOUFRI	34	42		44	58		210	
KOISINJANQ	36	05		44	48		610	
FATHA	35	03		43	34		150	


IRAQ
SCALE 1:5,000,000
FORECASTING STATIONS
OBSERVING
RAINFALL
ALTITUDES
0-300 m
OVER 300 m
TURKEY
IRAN
KUWAIT
NEUTRAL ZONE
AS-SULMAN
MOSUL
KIRKUK
SULAIMANI
ERBIL
BAIJI
HADITHA
RAMADI
HABBANIYAH
BAGHDAD
KARBALA
HILLA
DIWANIYA
KUT
AMARA
NASIRIYAH
BASRA
ABADAN
KERMANSHAH
HAMADAN
EUPHRATES R.
TIGRIS R.
40° EAST OF GREENWICH
SURVEY PRESS BAGHDAD



SURVEY PRESS. BAGHDAD.

The weather was unsettled during the first three days due to passage of low pressure over Iraq advanced from East Mediterranean caused side spread rainfall in all areas. Then followed by settled weather from 4th up to 9th with shallow fog in the early mornings ,except on 5th the weather was cloudy accompanied by slight rain in all areas.

In the period from 10th to 12th, a cold front passed over Iraq from Mediterranean caused rainfall on most areas of Iraq.

Settled weather generally prevailed from 13th to 17th and some times occured slight local rainfall on Central and Southern areas. On period from 18th to 21st the weather was unsettled due to cold front caused general rainfall with thunderstorms covered most parts of Iraq . In the rest of month, the weather almost continued settled.

Rainfall and humidity were above normal and higher than its values for the same month of last year .

Temperatures were close to normal but lower than its values for the same month in last year .

شهر رطب وممطر

كان الجو في الايام ١ ، ٢ و ٣ منه غير مستقر بسبب مرور منخفض جوي فوق العراق قادما من شرق البحر الابيض المتوسط ادى الى هطول امطار شملت كافة انحاء العراق . عقب ذلك فترة استقرار و تحسن في الجو استمرت من ٤ لغاية ٩ منه مع تولد ضباب في الصباح الباكر عدا يوم (٥) منه حيث كان الجو غائما مع هطول امطار خفيفة على المناطق المختلفة . في الفترة من ١٠ لغاية ١٢ منه مرت فوق العراق جبهة باردة قادمة من جهة البحر الابيض المتوسط ادت الى هطول امطار شملت معظم مناطق العراق .

استقر الجو بصورة عامة في الفترة من ١٣ لغاية ١٧ منه رغم سقوط زخات مطر خفيفة ومحلية في بعض المناطق الوسطى والجنوبية من القطر وفي المدة من ١٨ لغاية ٢١ منه كان الجو غير مستقر بسبب مرور جبهة باردة ادت الى هطول امطار مصحوبة بزوابع رعدية شملت معظم انحاء العراق

اما الفترة الاخيرة من الشهر فقد كان الجو فيها مستقرا

الامطار والرطوبة النسبية فوق معدلاتها وما يقابلها من السنة الماضية

اما درجات الحرارة فقد كانت قريبة من المعدل واقل مما يقابلها من السنة الماضية

JANUARY 1961 .

(1)

كانون الثاني ١٩٦١

TABLE - 1 .

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBA	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	14.5	9.4	13.6	10.9	14.7	15.1	15.3	15.4	13.5
2	12.1	9.7	10.7	8.9	11.3	13.1	14.9	15.8	12.9
3	11.3	9.2	9.6	4.6	11.3	10.7	11.6	14.7	10.9
4	9.6	7.7	10.6	7.6	11.1	10.4	10.9	12.3	8.3
5	8.1	7.1	9.5	8.0	11.5	9.0	12.4	12.6	7.9
6	9.3	6.5	9.1	7.7	10.6	9.4	11.1	13.5	7.4
7	8.6	5.0	9.0	6.4	10.8	9.2	10.4	10.1	7.8
8	7.9	4.6	9.3	5.9	9.3	8.8	9.5	10.7	7.2
9	7.2	4.0	9.3	5.9	10.7	9.7	10.0	13.9	6.6
10	8.9	5.3	9.7	4.7	10.1	9.2	13.3	14.4	7.1
11	7.7	7.7	8.6	8.2	11.3	9.7	12.4	16.8	7.0
12	9.5	7.5	8.3	6.9	10.3	9.8	9.4	11.9	8.8
13	10.2	6.5	8.3	7.0	11.3	10.6	9.7	11.8	8.7
14	8.6	5.3	9.2	6.9	10.3	9.4	10.0	12.1	7.5
15	11.2	7.2	9.1	6.0	10.7	10.2	10.8	12.5	9.8
16	11.1	8.0	9.2	5.6	10.6	10.8	10.3	10.8	10.6
17	11.5	7.4	9.3	7.7	11.9	11.7	10.9	11.7	10.5
18	11.7	9.6	10.6	8.6	12.0	12.7	12.7	12.3	10.9
19	14.0	10.4	12.3	8.9	13.3	13.2	13.8	17.0	13.3
20	15.1	10.7	12.1	9.0	17.2	15.4	17.8	18.9	13.6
21	11.5	8.9	9.2	7.1	14.1	12.5	15.0	17.4	10.2
22	7.3	2.7	3.0	3.6	8.3	7.5	8.9	11.7	5.7
23	6.3	2.5	2.8	4.7	7.2	6.1	6.3	8.7	4.5
24	7.5	3.1	4.2	4.3	8.6	6.6	7.3	8.9	5.8
25	8.0	4.4	7.6	5.0	8.1	7.4	8.2	10.2	6.9
26	10.7	6.1	9.0	8.4	11.4	11.0	13.1	13.0	10.1
27	9.8	5.9	7.7	7.9	11.2	9.9	10.9	12.8	8.7
28	9.6	6.1	7.9	4.0	11.3	9.7	11.4	12.3	9.0
29	10.7	7.7	8.2	7.4	11.5	10.9	12.2	12.2	9.4
30	10.3	6.4	9.5	7.3	11.5	11.0	12.6	13.5	10.0
31	9.2	5.7	8.3	7.6	9.6	9.1	11.0	11.8	7.9
MEANS	10.0	6.7	8.9	7.1	11.2	10.4	11.5	13.0	9.0
NORMAL	10.2	6.8	8.9	7.6	11.5	10.5	11.4	12.4	9.5
YEARS OF NORMAL	1937 to 1956	1923 to 1956	1935 to 1956	1928 to 1956	1940 to 1956	1939 to 1956	1940 to 1956	1937 to 1956	1935 to 1956

NOTE:

T I M E - G.M.T.

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

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

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	1017.2	1019.5	1018.1	1015.4	1018.0	1017.1	1017.8	1018.2	1017.0
2	12.0	15.6	14.0	13.5	13.3	11.5	13.5	14.3	13.5
3	16.0	16.5	15.4	18.4	16.5	17.4	17.5	17.5	15.9
4	22.1	24.1	23.0	21.5	21.3	22.1	22.0	23.6	22.3
5	24.1	22.3	21.6	20.5	20.2	23.7	19.8	21.4	21.4
6	24.8	26.2	25.0	25.5	23.4	25.1	23.5	22.2	25.3
7	24.3	26.5	25.6	25.0	23.0	24.3	23.5	23.9	24.9
8	21.8	24.9	22.6	22.6	24.2	22.1	21.6	21.2	22.4
9	21.4	24.1	22.3	20.5	20.9	21.3	20.9	20.7	21.9
10	18.5	21.4	19.8	17.6	18.7	18.0	18.3	19.2	18.2
11	21.4	21.5	21.0	19.3	19.8	20.9	19.5	19.0	21.3
12	20.2	21.5	20.5	20.6	19.0	19.6	19.5	18.7	20.5
13	20.2	21.6	20.2	19.7	19.7	20.1	20.1	20.9	20.4
14	22.5	23.8	22.7	21.6	22.1	22.5	22.4	22.1	22.4
15	20.9	23.0	22.5	17.8	22.1	20.9	22.1	22.5	19.6
16	21.5	23.8	22.4	22.0	19.6	20.6	19.8	18.6	21.7
17	21.5	21.7	21.5	18.0	22.5	22.3	22.3	23.7	21.9
18	18.4	19.7	19.5	16.1	19.2	18.3	19.0	20.0	17.7
19	15.8	17.8	17.4	14.3	16.2	16.2	15.2	16.5	15.5
20	10.4	10.6	10.1	10.9	09.9	10.2	09.6	10.7	10.6
21	15.8	15.9	15.4	16.4	15.1	15.4	15.1	15.8	16.0
22	25.4	25.9	25.6	25.0	23.7	23.3	23.2	22.0	25.3
23	26.6	28.6	27.6	24.5	23.5	26.9	24.2	23.4	26.5
24	27.8	29.8	28.6	27.0	25.7	27.5	26.1	25.4	28.0
25	24.0	25.5	24.0	21.2	23.5	24.2	23.9	23.9	24.2
26	16.1	18.2	17.0	15.7	16.5	16.9	16.8	16.8	17.7
27	20.8	22.4	21.3	11.3	19.3	20.7	19.5	19.0	21.6
28	20.2	21.8	20.4	19.6	18.2	19.8	19.0	19.0	20.5
29	19.4	20.8	20.0	19.5	18.4	19.8	19.5	17.9	19.5
30	16.8	20.0	17.7	18.3	15.0	16.7	15.9	15.1	17.4
31	15.1	18.9	16.6	16.9	13.9	15.2	14.7	14.2	16.3
MEANS	1020.0	1021.7	1020.6	1019.3	1019.3	1019.9	1019.5	1019.3	1020.1
NORMAL	1019.3	1020.1	1018.9	1019.9	1019.2	1018.6	1018.7	1018.5	1019.8
1961									
HIGHEST	1028.7	1030.4	1029.9	1028.4	1026.9	1029.0	1027.1	1025.5	1028.8
TIME	0600	0600	1800	0045	1500	0600	0600	0600	1512
DAY	11th.	24th.	22nd.	24th	24th.	24th.	24th	24th	24th.
LOWEST	1008.6	1007.0	1007.4	1009.3	1008.9	1009.7	1008.3	1008.1	1009.0
TIME	0000	0000	0000	0000	1200	1800	0300	0000	0000
DAY	20th.	20th.	20th.	20th	20th.	19th.	20th.	20th.	20th.
RECORDS:									
HIGHEST	1036.0	1038.4	1030.2	1039.3	1030.8	1036.1	1035.9	1035.1	NOT
TIME	0600	0600	0600	0000	0600	0600	0600	0600	AVAI-
DAY	7th.	7th.	29th.	7th	29th.	7th.	7th.	7th.	lable
YEAR	1942	1942	1950	1942	1950	1942	1942	1942	
LOWEST	1000.4	994.8	1004.9	1004.2	1004.1	1000.0	1002.9	1003.1	
TIME	0300	0200	1200	1300	1200	2100	1200	0200	
DAY	28th.	28th.	28th.	27th	13th.	10th.	13th.	28th.	
YEAR	1940	1940	1947	1940	1956	1953	1956	1940	

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(3)

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TABLE - 3 .

المعدل الهوي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS :

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديالى	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIYA-LA	NASI-RIYA	BASRAH	HABBA-NIYA
1	68	84	60	74	61	65	65	68	74
2	92	84	90	73	93	87	85	84	87
3	88	92	98	64	81	83	84	84	84
4	93	87	82	52	78	83	80	83	95
5	94	90	88	71	78	87	79	74	97
6	90	88	89	66	70	88	82	91	93
7	84	86	86	65	70	76	75	85	85
8	80	83	50	65	74	77	74	79	83
9	81	85	46	63	66	70	72	78	82
10	84	84	58	88	81	84	78	84	94
11	89	93	93	70	93	91	91	92	92
12	90	95	98	91	82	85	88	90	92
13	84	91	96	79	91	82	81	91	91
14	90	87	82	77	81	88	74	89	92
15	88	88	84	69	74	86	69	76	63
16	77	80	78	89	85	80	80	79	82
17	77	94	84	66	76	78	77	86	84
18	83	94	81	80	86	78	76	90	88
19	80	92	84	86	76	73	79	87	86
20	85	93	91	82	92	92	88	92	88
21	76	92	88	67	91	79	82	89	82
22	58	88	72	76	59	74	74	80	74
23	55	69	70	70	59	68	62	74	74
24	62	76	76	74	67	69	63	76	74
25	66	80	62	68	80	74	66	84	74
26	65	76	69	69	69	66	60	80	70
27	70	76	80	81	68	74	68	84	77
28	76	78	77	61	69	72	65	82	81
29	77	88	79	85	70	78	69	85	86
30	71	71	52	88	70	77	72	74	72
31	56	65	29	69	64	65	58	68	59
MEANS	78	84	75	74	74	77	75	82	82
NORMAL	72	83	74	69	69	70	67	81	71
1961 :									
HIGHEST	100	100	100	100	96	100	98	100	100
TIME	0300	0300	0300	0300	0300	0300	0600	0300	0300
DAY	6th.	9th.	20&21st.	14&16	1st	12th	11th	20th	20th
LOWEST	25	21	15	34	36	41	28	42	22
TIME	1200	1200	0900	1500	0900	1200	1200	1200	1200
DAY	31st	31st	31st	17th	23rd	15&31	31st	31st	31st.

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TABLE 4-a .

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	21.2	6.3	18.6	2.9	20.8	7.8	23.3	6.0	18.4	4.1
2	13.8	10.0	11.8	7.4	11.5	10.0	13.3	9.4	14.5	4.9
3	14.6	8.4	13.3	8.6	11.8	8.3	12.8	10.6	14.6	4.0
4	15.0	5.2	15.4	1.4	17.4	6.4	17.2	8.0	15.6	0.3
5	11.0	3.0	14.5	0.7	14.5	5.1	15.8	5.0	14.8	1.0
6	15.1	5.3	14.0	1.6	12.8	5.8	14.4	4.4	15.2	1.8
7	15.5	2.6	14.3	0.1	16.1	3.7	16.1	2.7	15.3	0.3
8	15.9	2.3	14.4	-1.3	17.3	4.5	17.8	2.0	13.7	-1.6
9	15.4	-1.0	13.0	-2.5	16.9	3.5	19.0	2.2	13.5	-1.6
10	11.5	3.7	13.8	-2.4	15.7	4.4	15.8	2.8	6.3	2.6
11	11.9	4.9	8.9	6.0	11.3	6.7	14.4	7.5	12.2	2.0
12	14.9	6.7	10.3	7.0	10.3	6.0	13.3	7.5	8.0	5.2
13	15.3	7.3	13.1	4.1	11.9	6.4	14.0	5.0	13.0	2.8
14	14.9	4.6	13.2	-0.4	15.0	4.9	14.0	3.8	14.5	0.4
15	16.5	5.2	11.8	1.2	11.5	5.3	15.0	4.0	13.9	3.2
16	16.4	8.8	15.9	2.2	14.2	6.4	15.8	5.6	10.5	1.5
17	16.0	4.0	12.2	1.9	15.1	4.5	16.0	5.0	13.3	1.4
18	13.5	8.8	12.0	6.6	12.8	8.1	17.3	8.7	16.0	3.6
19	18.8	10.0	12.5	8.6	15.8	7.9	18.3	8.0	16.4	2.6
20	18.9	13.4	12.9	10.4	16.1	9.4	15.6	12.2	15.6	4.7
21	17.2	8.1	12.6	5.9	12.9	7.9	16.0	9.8	11.5	3.5
22	11.2	4.4	6.4	0.4	6.0	0.2	8.5	4.0	9.0	-0.8
23	11.0	2.2	5.7	-2.1	6.3	-1.6	10.0	0.5	10.5	-0.6
24	13.5	2.0	7.4	-0.9	8.5	0.6	11.5	0.5	11.0	-1.2
25	15.6	1.2	10.2	-0.7	14.6	0.6	16.5	0.0	11.0	-1.4
26	16.3	4.7	9.8	3.0	13.4	4.1	15.0	3.8	15.5	3.2
27	16.5	3.8	13.7	-0.8	12.6	4.1	14.4	4.4	16.0	4.2
28	16.3	4.4	12.7	-1.4	13.2	2.9	15.6	2.2	16.5	1.5
29	15.2	6.2	14.6	3.3	13.7	4.7	15.0	4.8	9.7	4.3
30	17.0	5.4	14.4	0.2	16.1	4.0	16.9	2.8	9.0	5.2
31	16.5	2.0	15.2	-1.0	15.0	2.3	18.9	6.5	11.6	2.8
MEANS	15.2	5.3	12.5	2.3	13.6	4.9	15.4	5.2	13.1	2.0
NORMAL	15.9	4.2	12.5	1.9	13.2	3.9	15.4	4.6	13.1	1.0
HIGHEST	25.0		21.0		22.0		27.2		25.4	
DAY	21		22		15		3&4		19	
YEAR	1948		1953		1960		1944		1960	
LOWEST		-7.8		-11.1		-6.7		-6.7		-14.4
DAY		5		3		26		7		6
YEAR		1942		1925		1947		1942		1942

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TABLE 4-b . درجات الحرارة العظمى والصغرى (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	الحي		الديوانية		الناصرية		البصرة		الحبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	22.6	5.8	21.6	5.9	21.8	6.0	24.0	8.7	20.9	5.0
2	17.4	11.8	15.3	11.2	16.6	14.5	28.6	13.7	15.0	12.5
3	18.2	7.2	17.6	6.0	16.8	7.6	18.4	10.1	15.4	6.9
4	19.0	4.4	15.2	4.3	17.0	6.0	19.6	6.0	13.9	4.4
5	18.5	4.8	16.4	3.6	17.0	4.6	20.5	7.0	11.0	4.8
6	15.8	7.3	15.4	5.0	14.2	9.8	19.0	11.6	13.6	2.8
7	16.9	4.2	16.5	2.6	16.7	4.6	18.1	6.0	15.3	2.1
8	18.2	3.0	16.3	1.8	16.7	4.5	17.4	4.6	13.9	1.7
9	19.3	3.8	17.2	2.6	17.6	2.1	17.5	6.8	15.4	0.0
10	15.3	4.8	11.0	4.7	17.5	7.7	19.5	10.0	10.0	2.9
11	13.5	11.0	14.3	7.0	15.6	10.4	21.8	13.7	11.3	3.6
12	15.3	5.0	14.5	3.6	14.5	4.5	15.2	9.0	13.2	5.6
13	14.3	8.4	16.3	9.0	16.7	9.4	16.8	6.5	13.1	4.7
14	14.4	5.4	16.4	2.7	15.6	4.0	18.5	6.6	14.2	2.8
15	16.9	2.8	17.1	3.2	19.0	3.4	19.1	6.0	15.9	2.8
16	17.9	7.2	14.6	5.0	14.0	7.5	13.0	9.1	15.4	7.8
17	17.8	5.9	16.8	6.2	16.0	4.3	18.5	5.9	14.2	4.6
18	15.8	9.2	15.6	8.4	16.0	10.2	14.7	9.3	13.2	9.6
19	20.7	11.8	20.4	9.6	20.9	12.0	21.7	11.5	17.3	7.5
20	19.0	14.2	16.6	15.4	21.9	16.0	20.7	16.4	17.8	10.5
21	18.9	12.8	17.0	10.0	18.4	14.1	19.0	16.1	15.0	6.1
22	13.4	5.5	11.6	5.5	13.1	7.4	15.8	10.2	9.5	2.4
23	12.7	2.2	12.6	1.2	12.5	0.7	13.0	3.0	10.4	-1.4
24	14.1	1.4	13.3	-0.8	13.8	1.6	15.9	3.5	11.7	-1.0
25	15.5	0.9	15.0	-0.3	14.6	0.5	15.1	3.0	12.2	-1.0
26	15.9	3.0	16.5	6.0	22.2	7.5	18.6	7.0	14.8	7.8
27	17.0	4.4	16.8	3.7	18.0	5.2	18.3	6.9	15.3	3.5
28	16.8	5.2	17.4	4.8	18.2	6.4	17.8	8.7	14.9	3.8
29	15.5	5.8	15.7	5.0	17.6	7.5	17.6	7.6	14.6	3.9
30	16.3	7.7	16.0	7.5	17.5	8.5	18.9	9.6	15.5	5.0
31	16.8	2.4	16.2	3.6	17.6	5.9	18.3	6.2	14.7	2.0
MEANS	16.8	6.5	15.9	5.2	17.0	6.9	18.4	8.4	14.1	4.3
NORMAL	17.2	5.2	16.7	3.4	17.9	5.5	18.2	7.0	15.7	4.1
HIGHEST	25.0		25.5		29.5		28.6		26.1	
DAY	16		26		16		2		28	
YEAR	1960		1948		1960		1961		1941	
LOWEST		-5.7		-8.5		-7.2		-4.4		-8.9
DAY		5&7		29		8		8		5,6&7
YEAR		1942		1950		1942		1942		1942

TABLE - 5 . المعدل الشهري لدرجات الحرارة (للبصلة الجافة) مئوية .

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

T I M E - G . M . T .

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	7.7	6.6	7.8	12.2	14.5	12.4	10.1	8.5	10.0
MOSUL	4.1	3.7	4.9	9.5	11.5	8.8	6.2	5.0	6.7
KIRKUK	6.8	6.5	8.2	11.9	12.5	9.8	8.0	7.1	8.9
KHANAQIN	...	6.7	8.4	13.6	14.6	11.6	9.4	...	10.7
HAI	...	7.1	9.1	14.1	15.2	11.9	9.7	...	11.2
DIWANIYA	7.4	6.2	8.7	14.1	15.7	12.7	10.1	8.5	10.4
NASIRIYA	8.9	7.9	9.9	14.6	16.3	13.7	11.4	9.8	11.6
BASRAH	10.3	9.4	11.5	16.2	17.2	14.3	12.6	11.4	12.9
HABBANIYA	6.4	5.5	7.0	12.1	13.6	11.1	8.6	7.4	8.9
RUTBAH	4.1	3.1	4.8	10.5	12.3	10.0	7.0	5.2	7.1

TABLE - 6 . المعدل الشهري لدرجات الحرارة (للبصلة المرطبة) مئوية .

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	6.8	6.1	6.7	9.4	10.5	9.8	8.2	7.3	8.1
MOSUL	3.6	3.3	4.1	7.1	8.1	6.7	5.3	4.4	5.3
KIRKUK	5.5	5.1	6.4	8.5	8.8	7.7	6.4	5.6	6.9
KHANAQIN	...	5.8	7.0	10.1	10.5	9.3	7.9	...	8.4
HAI	...	6.1	7.9	10.6	10.8	9.1	8.0	...	8.8
DIWANIYA	6.4	5.6	7.5	10.9	11.6	10.8	8.4	7.2	8.6
NASIRIYA	7.5	6.7	8.4	11.3	12.1	10.9	9.5	8.3	9.3
BASRAH	9.4	8.7	10.2	13.3	13.8	12.5	11.4	10.4	11.2
HABBANIYA	5.8	5.0	6.4	9.5	10.2	9.2	7.6	6.6	7.5
RUTBAH	3.2	2.4	3.7	7.4	7.7	7.1	5.4	4.8	5.2

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	20.1	20.1	21.4	20.7	19.1	19.2	19.8	19.7	1020.0
MOSUL	22.0	22.0	23.0	22.1	20.5	20.8	21.5	21.6	1021.7
KIRKUK	20.7	20.8	21.8	20.6	19.4	20.2	20.7	20.5	1020.6
KHANAQIN	....	20.8	20.9	20.0	18.4	19.1	20.3	....	1019.9
HAI	....	19.3	20.5	19.7	18.4	18.4	19.2	....	1019.3
DIWANIYA	19.7	20.3	21.4	20.5	19.0	19.2	19.6	19.6	1019.9
NASIRIYA	19.3	19.5	20.8	19.9	18.5	18.9	19.5	19.2	1019.5
BASRAH	19.1	19.3	20.7	19.7	18.2	18.6	19.2	19.1	1019.2
RUTBAH	19.5	20.0	20.9	19.9	18.4	19.1	19.9	19.4	1019.8
HABBANIYA	20.0	20.0	21.6	20.6	19.3	19.5	19.9	19.7	1020.1

TABLE - 8 . المعدل الشهري للرطوبة

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	88	90	84	69	59	70	79	84	78
MOSUL	94	94	90	73	64	75	88	91	84
KIRKUK	82	81	77	63	61	73	79	80	75
KHANAQIN	..	86	81	62	58	73	80	..	73
HAI	..	87	81	66	60	71	80	..	74
DIWANIYA	87	90	84	65	59	70	80	83	77
NASIRIYA	82	84	80	65	58	69	77	80	74
BASRAH	86	91	84	71	68	80	86	88	82
RUTBAH	87	82	86	63	53	64	77	82	74
HABBANIYA	93	93	89	70	63	77	88	90	83

TABLE - 9 . المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.4	9.0	9.1	9.6	9.6	10.2	9.8	9.4	9.5
MOSUL	7.9	7.7	7.8	8.7	8.7	8.6	8.5	8.1	8.3
KIRKUK	8.2	7.9	8.3	8.5	8.5	8.9	8.5	8.1	8.4
KHANAQIN	...	8.7	9.1	9.7	9.2	10.0	9.6	...	9.4
HAI	...	9.4	9.6	10.6	10.0	9.9	9.8	...	9.9
DIWANIYA	9.1	8.8	9.6	10.6	10.5	10.8	10.3	9.4	9.9
NASIRIYA	9.5	9.2	9.9	10.8	10.8	11.0	10.6	10.0	10.2
BASRAH	11.4	10.9	11.6	13.0	13.2	13.2	12.7	12.0	12.3
HABBANIYA	9.1	8.5	9.0	9.8	9.8	10.2	9.8	9.3	9.4
RUTBAH	7.2	6.8	7.1	7.9	7.4	7.8	7.4	7.4	7.4

TABLE - 10 . المعدل الشهري لدرجات الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C^{o})

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	5.7	5.0	5.0	5.9	5.8	6.9	6.3	5.6	5.8
MOSUL	3.1	2.7	3.2	4.5	4.3	4.2	4.3	3.6	3.7
KIRKUK	3.6	3.1	3.8	3.9	4.0	4.8	4.1	3.4	3.8
HAI	...	5.7	5.9	7.4	6.9	6.4	6.2	...	6.3
DIWANIYA	5.2	6.4	5.9	7.3	7.3	7.2	6.6	5.7	6.5
NASIRIYA	5.8	5.3	7.2	7.7	7.6	8.0	7.5	6.5	7.0
BASRAH	8.4	7.9	8.8	10.6	10.8	10.8	10.2	9.4	9.6
HABBANIYA	5.2	4.3	5.1	6.4	6.2	6.9	6.3	5.6	5.8
RUTBAH	2.0	1.3	1.9	3.3	2.4	3.1	3.0	2.3	2.4

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	1.5	1.8	2.6	1.9	2.2	1.4	0.8	0.9	1.6
MOSUL	3.5	3.0	3.4	3.3	3.6	2.9	2.5	2.8	3.1
KIRKUK	3.2	2.5	2.5	2.6	3.0	3.1	2.8	2.4	2.8
KHANAQIN	...	2.6	2.7	2.8	3.2	3.3	3.0	...	2.9
HAI	...	2.2	2.4	2.4	2.4	2.1	1.4	...	2.2
DIWANIYA	1.0	1.6	2.0	1.5	2.2	1.5	0.7	0.8	1.4
NASIRIYA	1.4	1.5	1.6	1.6	1.5	1.3	1.6	1.2	1.5
BASRAH	0.9	0.7	1.6	1.6	1.8	0.7	0.6	0.8	1.1
HABBANIYA	1.5	1.0	2.1	2.1	2.3	1.8	1.3	1.4	1.9
RUTBAH	1.5	1.5	2.3	2.7	0.3	0.4	2.0	1.2	1.7

TABLE - 11 . المعدل الشهري لكمية الغيوم (بالاثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	3.3	3.5	4.7	4.9	4.3	3.6	3.0	2.4	3.7
MOSUL	4.5	4.2	5.0	4.8	5.1	4.1	3.3	3.5	4.3
KIRKUK	4.2	4.1	3.7	4.1	4.5	4.1	4.1	3.5	4.0
KHANAQIN	...	3.2	3.3	4.5	4.8	4.3	3.4	...	3.9
HAI	...	3.3	4.3	4.9	4.9	4.6	3.4	...	4.2
DIWANIYA	2.4	3.5	4.1	4.2	4.4	3.8	2.8	2.5	3.5
NASIRIYA	2.8	3.6	4.3	4.3	4.3	3.7	3.0	3.1	3.6
BASRAH	2.8	3.2	4.0	4.2	4.7	4.1	3.9	3.2	3.8
HABBANIYA	3.0	3.1	4.6	4.3	4.7	3.8	3.4	3.3	3.8
RUTBAH	2.5	3.5	3.6	4.0	4.6	4.0	3.7	2.4	3.5

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TABLE 13-a . عدد تكرار رصدات الرياح السطحية

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه								SPEED IN KNOTS السرعة بالعقد				معدل السرعة MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	
بغداد BAGHDAD	0000	2	0	3	3	1	1	3	10	8	21	2	0	0	3
	0300	4	0	3	4	0	0	6	8	6	21	4	0	0	5
	0600	2	0	3	4	0	2	3	11	6	23	2	0	0	4
	0900	1	1	2	7	0	0	8	10	2	23	6	0	0	7
	1200	5	1	2	4	2	2	3	12	0	23	8	0	0	9
	1500	4	0	2	6	1	0	3	11	4	22	5	0	0	5
	1800	2	0	3	7	0	1	0	12	6	22	3	0	0	5
	2100	2	1	1	3	3	1	2	9	9	19	3	0	0	4
	TOTAL	22	3	19	38	7	7	28	83	41	174	33	0	0	5
موصل MOSUL	0000	3	0	3	2	1	1	4	0	17	10	3	1	0	4
	0300	5	1	2	3	3	0	10	2	5	19	5	2	0	6
	0600	4	1	3	2	4	0	11	4	2	24	4	1	0	6
	0900	4	1	5	4	4	2	6	3	2	15	14	0	0	10
	1200	4	1	3	8	2	0	8	4	1	16	14	0	0	10
	1500	1	2	4	3	5	0	9	3	4	19	8	0	0	6
	1800	6	1	2	3	2	1	4	3	9	19	3	0	0	5
	2100	2	0	4	1	1	1	9	2	11	15	5	0	0	4
	TOTAL	29	7	26	26	22	5	61	21	51	137	46	4	0	6
كركوك KIRKUK	0000	1	7	3	2	1	0	1	0	16	12	2	1	0	4
	0300	0	12	1	2	1	0	1	0	14	15	2	0	0	4
	0600	1	7	4	3	2	2	0	0	12	17	2	0	0	3
	0900	0	4	0	4	6	1	4	3	9	20	2	0	0	4
	1200	2	2	0	5	4	3	5	5	5	25	1	0	0	4
	1500	1	3	2	3	3	1	6	0	12	17	2	0	0	4
	1800	1	7	6	3	0	0	1	0	13	16	2	0	0	3
	2100	1	5	2	2	0	0	0	1	20	10	1	0	0	2
	TOTAL	7	47	18	24	17	7	18	9	101	132	14	1	0	4
خانقين KHANAQIN	0300	1	0	10	0	6	1	0	0	13	17	1	0	0	3
	0600	0	0	9	0	7	1	0	1	13	16	1	1	0	4
	0900	2	1	3	1	3	0	10	1	10	20	1	0	0	4
	1200	4	0	2	0	5	0	13	1	6	25	0	0	0	4
	1500	5	0	4	0	6	0	7	0	9	22	0	0	0	3
	1800	3	1	8	0	4	0	0	0	15	16	0	0	0	2
	TOTAL	15	2	36	1	31	2	30	3	66	116	3	1	0	3
حي HAI	0300	1	0	5	1	0	0	7	6	11	12	7	1	0	7
	0600	0	1	6	0	0	0	8	8	8	12	10	1	0	8
	0900	0	1	6	3	0	0	4	12	5	14	6	6	0	11
	1200	2	0	5	4	0	0	6	9	5	16	4	6	0	10
	1500	1	0	5	2	0	0	5	8	10	16	2	3	0	7
	1800	2	0	5	2	1	0	8	5	8	16	6	1	0	7
	TOTAL	6	2	32	12	1	0	38	48	47	86	35	18	0	8

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TABLE 13-b .

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

STATION	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
DIWANIYA	0000	6	1	5	2	0	1	9	4	3	23	5	0	0	6
	0300	5	0	1	4	1	1	11	3	5	22	4	0	0	6
	0600	2	0	6	1	1	0	12	7	2	23	5	1	0	8
	0900	5	0	3	3	3	0	9	7	1	21	8	1	0	9
	1200	9	1	4	4	1	0	5	5	2	18	10	1	0	9
	1500	8	1	6	1	1	1	9	0	4	22	5	0	0	6
	1800	1	1	3	4	2	0	12	2	6	20	5	0	0	5
	2100	3	0	4	2	1	2	11	3	5	21	5	0	0	5
	TOTAL	39	4	32	21	10	5	78	31	28	170	47	3	0	7
NASIRIYA	0000	1	0	1	6	2	1	7	8	5	23	3	0	0	7
	0300	2	0	2	5	1	0	9	7	5	23	3	0	0	6
	0600	0	0	1	7	1	1	6	13	2	26	3	0	0	6
	0900	3	1	3	5	1	0	4	12	2	23	6	0	0	7
	1200	2	1	3	6	1	0	2	13	3	23	5	0	0	7
	1500	2	0	3	5	1	0	5	8	7	22	2	0	0	5
	1800	0	2	3	3	0	1	4	10	8	21	2	0	0	4
	2100	0	1	2	3	3	1	6	9	6	23	2	0	0	5
	TOTAL	10	5	18	40	10	4	43	80	38	184	26	0	0	6
BASRAH	0000	8	0	2	1	1	0	3	5	11	19	0	1	0	4
	0300	3	0	4	1	0	0	4	6	13	18	0	0	0	3
	0600	2	1	1	2	3	0	5	8	9	22	0	0	0	4
	0900	4	0	3	1	4	0	3	13	3	19	7	2	0	9
	1200	3	0	2	1	7	0	4	10	4	20	6	1	0	7
	1500	5	0	2	2	2	0	3	8	9	22	0	0	0	4
	1800	4	0	0	3	4	0	2	10	8	19	3	1	0	5
	2100	5	0	2	3	3	0	0	8	10	19	1	1	0	4
	TOTAL	34	1	16	14	24	0	24	68	67	158	17	6	0	5
HABBANIYA	0000	0	1	2	2	0	2	2	7	15	11	4	1	0	5
	0300	1	0	4	2	1	0	3	4	16	10	5	0	0	4
	0600	1	3	3	2	1	1	8	5	7	20	4	0	0	5
	0900	4	2	2	5	2	0	5	7	4	18	7	2	0	7
	1200	7	0	2	4	4	0	2	8	4	18	8	1	0	7
	1500	4	1	2	4	0	0	0	9	11	16	4	1	0	3
	1800	1	0	4	2	0	1	3	5	15	13	3	0	0	4
	2100	0	1	2	3	0	0	4	3	18	11	2	0	0	3
	TOTAL	18	8	21	24	8	4	27	48	90	117	37	4	0	5
RUTBAH	0000	1	0	1	4	1	4	8	3	9	15	6	1	0	6
	0300	2	1	3	1	1	5	8	2	8	17	6	0	0	7
	0600	2	2	1	1	3	5	7	4	6	16	8	1	0	7
	0900	2	2	2	3	5	4	4	5	4	15	11	1	0	9
	1200	3	5	2	5	3	2	4	4	3	15	9	4	0	10
	1500	4	0	4	5	3	1	2	5	7	18	5	1	0	7
	1800	0	2	2	2	3	4	3	4	11	16	4	0	0	5
	2100	2	1	1	2	3	4	3	4	11	14	5	1	0	5
	TOTAL	16	13	16	23	22	29	39	31	59	126	54	9	0	7

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TABLE 14-a

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05 mm.

DATE	BAGHDAD	MOSUL	KIRKUK	KHANAQIN	RUTBA	HAI	DAWANIYA	NABI RIYA	BASRA	HABBANIYA
1	4.6	4.0	5.1			2.2	2.8			tr.
2	17.1	15.8	48.1	65.8		19.9	2.5	24.9	0.3	2.4
3		0.8	2.0	60.7				1.6	9.9	
4				0.3						
5	tr.		14.4	0.4	tr.	0.3	0.2	0.3		tr.
6								tr.	0.7	
7										
8										
9										
10	4.2	12.4	11.2	7.9	3.0	13.3	17.8	0.9	4.3	tr.
11	0.5	1.9	0.2	10.7	9.2			tr.	2.6	0.7
12	tr.	1.1	2.7	0.9	0.6		tr.		tr.	tr.
13			4.7					tr.		
14										
15	2.2				1.0	7.6	1.8			1.4
16	tr.					1.5		tr.	11.8	
17	0.6	4.9	1.1		tr.	0.7				2.7
18	1.5	1.9	tr.	2.8		tr.	tr.	tr.	14.2	0.5
19	26.5	11.0	21.6		3.4	19.0	22.2	tr.	9.3	17.7
20		1.2	1.7	67.1	1.6	1.1	2.8	11.5	13.0	0.8
21	tr.	tr.	4.7	1.3	tr.			1.9	23.8	
22				0.3					tr.	
23										
24										
25		tr.	0.5							
26			0.1							
27										
28		2.5								
29				0.2	0.5					
30					0.4		tr.	tr.	tr.	
31									tr.	
TOTAL	57.2	57.5	110.3	218.4	19.7	64.5	50.2	41.2	81.1	25.8
NORMAL	24.5	67.1	61.7	60.8	16.0	22.8	15.8	15.4	27.1	19.0
MAX. FALL IN 24 HOURS	35.3	37.5	48.1	67.1	19.7	41.8	40.0	26.0	32.0	25.8
DAY	27	13	2	20	12	14	1	7	17	27
YEAR	1940	1933	1961	1961	1933	1947	1960	1951	1949	1940

NOTE: PERIOD OF NORMALS SEE PAGE 1.

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TABLE 14-b .

كانون الثاني ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	راوندوز	تلعوينات	سنجار	تلعفر	حويجة	جمجمال	بكرجو	حلبجة	اختيار
DATE	RAWANDUZ	TEL AWAINAT	SINJAR	TELAFAR	HAWIJA	CHAMCHAMAL	BAKRAJO	HALABJA	IFTIKHAR
1				2.0	1.0	20.8	10.0	11.0	4.8
2	40.0	1.5	4.0	1.5	21.0	40.4	46.0	46.0	71.9
3	3.0	1.3				35.0	5.0	10.5	3.3
4						0.6			
5							2.0	1.5	1.5
6									
7									
8									
9									
10			14.5	12.0	10.5	17.7	14.0	30.0	17.3
11		5.1	0.5	1.0				2.0	
12			1.0		1.5		6.0	1.0	2.5
13						9.0	13.0	6.0	
14						7.0			
15									
16									
17			2.5	2.0			6.0	4.0	
18	10.0	5.1	12.0	0.8		2.4	3.0	1.0	
19	44.0		15.5	12.0	9.0		47.0	38.0	30.5
20	8.0	7.6				58.0	3.0	6.0	
21	14.0				4.8		4.5	5.0	5.1
22									
23									
24			0.7			3.0			
25									
26							2.0	2.0	
27	24.0								
28			3.0	2.0					
29									
30									
31									
TOTAL	143.0	20.6	53.7	33.3	47.8	193.9	161.5	164.0	136.9

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كانون الثاني ١٩٦١

TABLE 14-c .

الهطول اليومي (ملليمترات)

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

التاريخ	جوارتاه	صلاح الدين	سنا ط	دهوك	دوكان	سرسنك	بيجي	طوز	سامراء
DATE	CHUARTA	SALAH-ALDIN	SANAT	DUHOK	DUKAN	SERSANK	BAIJI	TUZ	SAMERAA
1	14.1	30.5			17.5	13.0			
2	39.1	50.4		14.3	49.2	4.0	2.0	10.7	3.1
3		70.3	10.8		1.0		19.2	91.4	15.4
4								7.6	1.0
5									
6									
7									
8									
9									
10	28.0				8.8	1.0			11.0
11							17.5	21.6	1.0
12					5.0		3.5		tr.
13	10.0				1.3		0.9		
14									
15									13.5
16									tr.
17			12.7	6.0	9.2	29.0			
18	7.5	30.3	3.1		1.1	8.0			
19		50.6	53.0	14.0	48.0	86.0			19.0
20	50.0		19.0	14.0	2.2		8.0	32.5	
21	18.0	40.5	2.0		10.0	3.0			
22	3.1	60.8					2.5	12.7	
23		20.3							
24									
25			7.3		1.0	4.0			
26	6.5	30.4	5.5			13.0			
27									
28									
29							2.6		
30									
31									
TOTAL	176.3	384.1	123.4	48.3	154.3	161.0	56.2	176.5	64.0

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كانون الثاني ١٩٦١

TABLE 14-d .

الهطول اليومي (ملليمترات)

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

التاريخ	المنصور	سعدية	بعقوبة	بدرة	هيت	مندلي	كربلاء	هندية	كوت
DATE	ALMAN-SOOR	SAIDIYA	BAKOBA	BADRA	HIT	MAN-DILY	KARBALAA	HINDIYA	KUT
1	18.0		6.8	2.0		4.5		3.5	3.2
2	16.0		18.8	4.5	2.8	10.0	11.9	8.5	8.2
3		16.0	2.2						
4									
5					0.3		14.0		
6									
7									
8									
9									
10	12.0		6.3	1.5	5.5	7.0	13.5	4.6	7.9
11		8.0			2.4				
12				1.0	0.5				
13							3.0		
14									
15			4.3	10.0	4.9				1.9
16									
17									
18	2.0		1.7	2.0	1.5	3.0			
19	44.0	4.0	23.4	15.0	8.3			19.8	14.0
20		24.0				52.5			15.0
21									
22									
23									
24									
25							46.5		
26									
27									
28									
29									
30									
31									
TOTAL	92.0	52.0	63.5	36.0	26.2	77.0	88.9	36.4	50.2

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كانون الثاني ١٩٦١

TABLE 14-c .

الهطول اليومي (ملليمترات)

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

التاريخ	علي الغربي	رميثة	شبكة	سلمان	قلعة صالح	رفعي	سماوة	مقل	فاو
DATE	ALIAL-GHARBI	RUMAITHA	SHABICHA	SALMAN	QALAT SALIH	RUFAEI	SAMAWA	MAQIL	FAO
1	4.9						6.4		
2	4.2		3.0		21.3				
3								9.9	1.0
4						3.5			
5					3.5				
6 7 8									
9						5.4			
10	5.0	25.0		6.0	10.0		10.2		6.0
11			6.0					1.5	
12 13									
14						2.4			
15	4.9				6.7				
16					2.0				3.5
17									
18									14.5
19	7.0	10.0			23.5		22.9	14.2	10.5
20	4.2	5.0	21.0	19.3		6.3	5.1	9.1	2.5
21				4.2				18.5	
22 23									
24						2.3			
25 26 27 28 29 30 31									
TOTAL	30.2	40.0	30.0	29.5	67.0	19.9	44.6	53.2	38.0

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كانون الثاني ١٩٦١

TABLE 14-f .

الهطول اليومي (ملليمترات)

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

التاريخ	قلعة دزة	شقلاوة	كاني سبكا	عينسفني	العظيم	كلالا	عمادية	مخمور	كفري
DATE	QALAT DIZA	SHAQ-LAWA	KANI-SPIKA	AIN-SIFNI	AL EITHAIM	QALALA	AMADIA	MAKHMOR	KOUFRI
1		18.0	16.0		1.4	4.5	9.0	23.0	4.5
2	30.0	12.0	57.0		45.3	17.0	3.5		54.0
3	24.0	2.0	16.0		5.0	1.5	tr.		17.5
4									
5									
6									
7									
8									
9									
10					21.8			12.2	26.0
11	6.5	5.5	22.0	2.0	1.2				
12									
13		2.4							
14									
15			4.0						
16									
17			11.0				8.0	2.3	
18	11.0	10.6	5.3	3.0			6.0		
19	6.0	4.4	53.0		31.0	1.0	23.5	4.1	37.0
20	54.0	30.4	4.0			51.5	6.0		
21	2.5	11.0	19.0		3.6	2.5	4.0		3.5
22	6.0	2.4					1.0		
23									
24								3.1	
25						7.5			
26	4.5	2.0					6.5		
27	5.0		6.0						
28							tr.		
29									
30									
31									
TOTAL	149.5	100.7	213.3	5.0	109.3	85.5	67.5	44.7	142.5

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كانون الثاني ١٩٦١

TABLE 14-g .

الهطول اليومي (ملليمترات)

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

التاريخ	كويسنجق	فتحة	ديانا	طقطق	قرة داغ	قادركرم
DATE	KOISINJANQ	FATHA	DIANA	TAQTAQ	KARADAGH	KADIRKARAM
1		tr.	10.2	16.5		6.0
2	15.0	24.0	22.2	52.5	8.6	86.7
3	3.0		3.2		64.0	
4					26.3	
5						
6						2.0
7 8 9						
10		19.0		10.5		14.7
11	11.0	4.5			16.4	2.4
12		3.0		4.5	0.3	5.6
13	5.0			6.0	3.3	3.4
14					10.8	
15					1.0	
16						
17	4.0		11.0	3.5		41.8
18	4.0		2.1		1.0	
19	2.0	11.0	33.5	27.5	1.0	
20	34.0		5.0		65.6	
21	2.0		5.2	9.5	3.3	7.9
22		6.0			13.0	
23 24						
25				tr.		
26	1.0		16.8	2.0	0.5	
27	2.0				0.1	
28		tr.				
29 30 31						
TOTAL	83.0	67.5	109.2	132.5	218.2	194.8

TABLE - 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

No. OF DAYS OF PHENOMENA : عدد الايام التي حدثت فيها الظواهر الجوية

المحطة	مطر	ثلج	برد	عواصف رعدية	ضباب	روابع ترابية	السماء صاحية	السماء غائمة	صقيع
STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
BAGHDAD	8	0	0	3	8	0	6	3	2
MOSUL	11	0	0	0	8	0	3	6	11
KIRKUK	12	0	2	1	3	0	7	8	7
KHANAQIN	12	0	0	3	2	0	5	7	0
RUTBAH	8	0	1	1	0	1	10	6	0
HAI	9	0	0	3	0	0	6	9	0
NASIRIYA	6	0	0	3	2	0	8	6	0
BASRAH	10	0	0	4	4	0	5	4	4
HABBANIYA	7	0	0	1	9	0	6	3	5
DIWANIYA	7	0	0	2	7	1	7	3	2

TABLE - 16 .

DURATION OF SUNSHINE : مدة سطوع الشمس بالساعات

المحطة	المجموع الشهري للسطوع بالساعات	اعلى مدة لسطوع الشمس في اليوم الواحد		عدد الايام التي لم تظهر الشمس
STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	178.4	9.9	25	1
MOSUL	168.9	10.3	30	4
BASRAH	194.0	10.4	24	2
HABBANIYA	167.0	9.9	23&25	2

TABLE - 17 .

MONTHLY MEAN TEMPERATURES OF : المعدلات الشهرية لحرارة

المحطة	حرارة الحشيش	حرارة التربة	
STATION	GRASS MINIMUM TEMPERATURE	EARTH TEMPERATURES 0.3 M	1.2 M
BAGHDAD	3.6	12.6	19.3
MOSUL	....	9.1	14.7
KIRKUK	2.3	11.1	15.5
HAI	3.4	....	....
NASIRIYA	5.6	....	....
BASRAH	4.4	....	....
HABBANIYA	2.9	13.2	18.2

TABLE 12 - a. (18) Month: January 1961 .

Radiosonde observations at standard levels (2300 G.M.T.) at BAGHDAD AIRPORT

DATE	SURFACE								1000-mbs.			850-mbs.			700-mbs.			600-mbs.		
	$N_hC_LhC_MC_H$	ww	epp	PPP	TT	Td	dd	ff	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	60930	01	203	194	09	07	00	00	157	12	08	522	12	57	117	01	62	345	55	78
2	45678	60	210	145	15	09	15	07	114	14	10	480	10	51	061	51	52	276	58	66
3	872XX	02	312	116	11	11	28	05	088	09	09	431	04	03	985	57	70	160	66	80
4	00900	10	206	209	07	07	00	00	121	12	09	518	07	03	081	54	62	279	61	75
5	00900	10	301	213	08	07	00	00	175	11	06	514	03	54	068	53	79	275	59	87
6	9xxxx	45	212	233	06	06	32	03	183	08	05	513	01	01	051	58	61	137	64	69
7	00900	10	102	262	06	05	31	03	212	10	51	547	03	63	107	52	86	315	60	06
8	00900	02	302	230	05	04	30	03	187	06	03	526	07	65	101	51	79	312	59	86
9	00900	10	50	216	03	03	00	00	175	09	05	515	06	03	079	54	70	277	63	74
10	00900	10	704	204	06	04	09	02	168	09	03	514	06	67	082	52	78	296	57	77
11	4557x	02	313	196	08	08	28	12	164	08	06	498	04	52	044	56	68	254	63	78
12	35680	25	203	210	07	06	00	00	172	07	06	507	03	01	053	56	58	316	62	63
13	35530	01	601	199	08	08	31	05	164	08	05	491	01	00	031	58	60	226	65	71
14	20939	01	206	211	08	07	00	00	175	09	08	502	01	52	041	56	68	233	63	81
15	00900	02	500	236	07	06	11	04	193	10	03	524	02	63	076	55	80	269	63	86
16	6668x	62	303	189	11	07	07	12	144	08	06	479	01	53	012	59	63	189	66	68
17	00900	02	704	230	09	07	29	03	189	10	04	526	04	60	094	51	67	308	59	70
18	5557x	60	311	188	12	09	17	08	149	12	07	510	10	52	097	00	61	311	60	68
19	45670	02	109	201	10	09	00	00	162	11	09	508	05	03	072	52	59	294	58	74
20	55500	21	726	086	15	15	13	08	077	15	12	442	10	02	025	00	54	249	56	61
21	00936	03	213	121	11	10	00	00	086	12	09	437	06	52	994	54	58	197	60	76
22	00907	03	110	196	07	04	22	05	143	07	04	470	01	55	997	61	62	167	68	74
23	00900	02	707	275	04	53	02	05	228	04	54	527	54	61	044	59	73	220	67	79
24	00900	02	304	264	04	51	34	02	211	06	52	526	51	59	050	59	71	219	65	82
25	00900	02	707	277	04	01	31	03	226	07	01	552	03	64	104	55	80	300	62	89
26	3557x	02	610	190	09	02	13	03	148	08	03	479	04	02	037	53	55	258	57	61
27	00900	02	307	195	06	05	30	02	155	07	04	495	05	51	050	55	61	242	63	76
28	00901	02	506	206	05	03	31	04	168	11	04	508	04	53	059	56	60	254	62	67
29	00906	03	303	193	07	05	32	02	155	11	06	497	04	00	044	56	60	248	60	79
30	30952	10	709	183	07	05	51	02	156	10	08	496	04	04	044	56	59	238	62	65
31	00900	02	201	162	07	03	33	02	134	07	60	466	04	62	021	54	76	220	61	87

TABLE 18-b .

Month: January 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (2300 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.,			400-mbs.,			300-mbs.,			200-mbs.,			150-mbs.,		
	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	752	65	87	402	78	99	407	82	10	049	06	-	874	08	-
2	668	67	71	304	78	82	325	91	95	867	06	12	800	08	-
3	512	75	92	100	86	03	056	92	07	768	97	15	654	02	20
4	662	69	89	302	74	92	347	93	07	000	03	16	860	05	17
5	665	67	-	290	88	-	280	94	-	937	07	-	767	06	-
6	495	74	81	088	85	93	063	92	98	759	01	07	620	03	08
7	695	70	-	314	81	-	295	96	-	917	06	-	749	07	-
8	702	68	82	336	80	97	319	94	05	960	02	14	794	05	16
9	639	74	85	235	84	96	205	95	06	427	08	21	429	08	18
10	697	66	81	327	81	94	313	93	05	939	10	-	739	08	23
11	601	68	87	236	79	02	225	96	12	738	06	20	580	06	-
12	611	73	73	211	84	90	177	96	02	790	08	42	626	05	10
13	580	74	83	170	86	94	110	98	05	773	01	10	629	05	14
14	605	71	90	-											
15	632	73	90	224	86	06	171	99	19	754	12	36	563	08	-
16	436	76	78	016	84	87	013	90	93	690	06	10	512	08	11
17	696	69	78	315	81	93	287	97	04	864	13	18	637	12	16
18	703	66	74	351	77	84	363	92	00	000	09	18	789	08	18
19	679	68	97	307	81	06	295	95	11	905	13	-	697	07	-
20	654	65	71	304	76	83	325	92	99	946	03	11	683	13	24
21	565	70	87	151	81	05	123	96	15	794	01	19	652	06	27
22	517	73	85	117	85	98	069	97	09	713	02	13	579	08	14
23	564	78	86	144	87	93	074	98	09	703	02	09	668	03	-
24	582	74	91	176	84	02	130	98	14	732	07	-	560	05	21
25	670	71	99	287	90	02	278	94	13	897	10		688	12	-
26	648	69	72	272	80	84	277	93	95	909	06	10	710	14	-
27	610	72	88	714	83	98	183	96	09	822	04	18	659	09	20
28	629	70	79	250	81	90	238	93	01	879	09	17	-	-	-
29	625	70	79	252	76	85	290	98	94	959	08	13	754	14	-
30	613	70	74	240	79	84	243	92	96	890	08	13	690	12	16
31	592	71	97	203	82	07	180	99	18	837	30	-	674	08	-

TABLE - 19

Month: January 1961

AVERAGE HEIGHT AND TEMPERATURES FOR SELECTED STATIONS (0001 G.M.T.)

850 , 700 & 500 - mbs., Surface , 0001 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.,	151	04	10	149	03	14	149	-3	09	151	02	06	150	04	13	153	11	13	151	13	07	153	15	10
700-mbs.,	307	01	16	304	-5	19	301	-9	18	305	-5	09	306	-4	08	312	03	18	314	07	08	316	09	08
500-mbs.,	566	-17	31	560	-23	30	553	-25	27	560	-17	19	562	-20	24	577	-14	40	579	-11	14	586	-7	12

AVERAGE HEIGHT AND TEMPERATURES FOR SELECTED STATIONS (1200 G.M.T.)

850 , 700 & 500 - mbs., Surface , 1200 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.,	151	05	12	149	03	12	148	-2	14	151	02	07	150	06	12	152	08	13	151	13	08	152	15	13
700-mbs.,	309	-2	17	304	-5	23	301	-9	17	304	-7	09	306	-2	15	312	02	23	314	08	09	316	10	11
500-mbs.,	569	-16	37	560	-23	34	552	-26	30	559	-21	21	563	-17	22	575	-13	44	578	-10	14	586	-7	11

NOTE:

THE ABOVE INFORMATIONS ARE EXTRACTED BY INTERPOLATION FROM UPPER AIR MAPS.

TABLE 20-a . BAGHDAD AIRPORT Month: January 1961 .

Frequency of Horizontal Visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M	1	1	2	2	4	5	5	3	1											1	1		1	1	28
>200 -500M				1		1		2	1	1	1										1	1			9
>500 -1000M			1			1	1		2	3					1					1		1	2	1	14
>1000 -1500M	1			1	1	2	3			1				1	1	1		1							13
>1500 -3000M		2	1	1	8	4	4	3	1	2	5	2	1		1	5	1	1	1						43
>3 -5KM	1	1	3	4	2	5	1	1	2		1	2	1	1		5	4	2	3	4	4	3	2	2	54
>5 -10KM	5	6	2	1	6	4	6	4	3	3	5	5	2	3	7	11	8	6	5	2	4	5	4	2	109
>10 -15KM	9	13	14	15	9	8	7	8	4	7	5	8	7	6	13	9	15	15	14	12	11	10	10	10	239
>15KM	14	8	8	6	1	1	4	10	17	14	14	14	20	20	8		3	6	8	11	10	11	12	15	235
TOTAL	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air. the second number shows the total .

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M					1																		1	1	3
>50 -150M	1	1	1	1		2	1	2	2	1	1								1	1	1	1			17
>150 -300M															1	1	1	1							4
>300 -500M				1	1		1			1	1	1	1	1	2	1	1	1	1	1	1	1			17
>500 -900M	4	3			2	3	3	3		1	4	5	5	5	3	2	1	1	2	2	1	1	3	4	58
>900	26	27	30	29	27	26	26	26	29	28	25	25	25	25	25	27	28	28	27	27	28	28	27	26	645

TABLE 20-b .

Month: January 1961

BASRAH AIRPORT

Frequency of Horizontal Visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M					1	1	1																		3
>500 -1000M					1	1																			2
>1000 -1500M						1																			1
>1500 -3000M				2	1	4	2	1																	10
>3 -5KM					2	2	1																		5
>5 -10KM	2	3	5	6	9	6	5	3	1	1	1	2	2	1	3	4	3	3	2	2	2	3	4	3	76
>10 -15KM	2	4	6	6	4	4	8	11	11	7	7	5	3	4	2	3	5	4	4	4	3	3	4	2	116
>15KM	27	24	20	17	13	12	14	16	19	23	23	24	26	26	26	24	23	24	25	25	26	25	23	26	531
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air . the second number shows the total.

Frequency of different heights of cloud-base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									1
>50 -150M																									
>150 -300M					1		2		1	2	1	1													8
>300 -500M	1	1	1	1	1	1	1	2	1		2	2												1	15
>500 -900M	3	1	1	1	1	1		1	2	2	1			1				1	1	2	3	3	3	2	30
900	6	9	11	13	12	15	13	15	15	13	13	15	20	20	20	18	15	14	13	14	12	19	10	9	325

TABLE 21-a .

BAGHDAD AIRPORT

Month: January 1961 .

Simultaneous occurrences of specified visibility ranges and specified lowest cloud base (≯5 Oktas)

HEIGHT METERS	VISIBILITY																												
	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			Total		
0-50																													
																			1		1		1				1	1	1
>50-150									1																		1		
											1								1	1	4			1			1	1	6
>150-300																					1								1
																					1								1
>300-500													1									1						1	1
													1									1		1			1	1	1
>500-900													2								1	1	4			1	1	1	7
										1											2	2			2			4		3
<5/8 OR *																			1		1		3	1		2		1	5	2
	1	2	5		1				1	1	1	2		1	3	1	4	1	4	1	3	7	13	7	12	6	4	26	29	26
> 900				1			3					1	2	1	4		1	5	2	2	9	7	3	8	13	18		28	25	27
AND ≯5/8			8		1	3		1	5	1		6			11	3	3	18	4	4	29	12	8	65	7	10	70	27	27	215
	1	2	5		1				1	1	1	3		1	4	1	4	1	5	1	6	9	15	7	14	6	4	31	31	31
TOTAL				1			3			1		1	2	1	5		1	5	3	2	11	7	7	9	14	20		31	31	31
			8		1	3		1	5	1		8			13	3	3	18	5	5	38	14	10	78	8	11	77	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

G.M.T.

To= Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

TABLE 21-b.

Month: January 1961.

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300															1												1			2
																									2	1		2	1	
															1												4			5
>300-500																								1	1	1		1	1	1
																					1				1			1		1
																			1		2			1			3	1		6
>500-900																									3	2		3	2	
																					2	1			1	7	1	2	7	3
																				2	5	1	1	3	1	1	15	2	4	23
<5/8 OR *														2	3					1	3	3	8	9	24	17	13	27	28	28
>900																					1	2	3	1	24	20	25	26	23	27
AND ≥5/8															5				1	1	7		1	27	27	25	175	28	27	214
TOTAL														2	4					2	3	3	8	10	28	19	14	31	31	31
																					4	3	3	1	28	28	26	31	31	31
															6				2	3	14	1	2	31	28	26	197	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model:

00	03	06	
09	12	15	G.MT
18	21	To	

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

الجمهورية العراقيـــــــــة

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجويـــة

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 لشهـــــــر شباط ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR FEBRUARY 1961.

مجلد ٢٤ ، عدد (٢) شباط ١٩٦١

VOLUME 24 , No. (2) FEBRUARY 1961 .

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شباط ١٩٦١ ، شهر ممطر وغير مستقـــــر

ساد العراق جوغير مستقر بصورةعا مة معظم ايا م الشهر بسبب مرور سلسلة من الانخفاضات الجوية المتعا قبة و المتولدة من شرقي البحر الابيض المتوسط و التي سببت حدوث زوا بع ترابية و هطول ا مطا ر مصحوبة برواعد رعدية في بعض الاحيان ، شملت معظم انحاء العرا ق .

و اما الرياح فقد كا نت جنوبية شرقية شديدة السرعة عند وجود الانخفاضات الجوية و شمالية غربية خفيفة الى معتدلة عدا ذلك و استقر الجوفي ا لايام :

٣ ، ٤ ، ٥ ، ٩ ، ١٠ ، ١٧ ، ٢٠ ، ٢٣ ، ٢٦ ، ٢٧ و ٢٨ منه .

FEBRUARY 1961 - Rainy and Unsettled month

During most days of the month, unsettled weater was the main feature, owing to successive low pressure Centres coming from East Mediterranean Sea, caused dustatorms and rainfall, accompanied by occasional thunderstorms , it covered generally most areas of Iraq .

The winds were strong SE'ly with passage of depressions, otherwise light to moderate NW'ly .

Settled weather prevailed on the days 3rd,4th, 5th,9th,10th,17th,20th,23rd,26th,27th and 28th.

FEBRUARY 1961 .

شباط ١٩٦١ :

TABLE - 1.

المعدل اليومي لدرجات الحرارة (مئوية) .

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	9.8	5.0	10.2	4.9	11.6	9.7	10.5	11.4	8.4
2	7.7	6.9	7.7	5.1	8.7	9.9	11.5	12.6	9.2
3	9.2	5.9	8.2	7.2	10.6	9.9	10.4	10.7	8.8
4	10.9	6.5	9.0	9.2	11.1	11.6	11.3	11.4	11.3
5	12.6	7.5	10.5	10.3	14.5	13.2	13.1	12.6	11.8
6	13.6	8.9	12.0	10.9	14.4	14.7	15.0	14.2	12.6
7	15.9	12.2	13.7	11.2	17.4	16.3	17.7	17.3	14.7
8	15.5	9.0	11.0	6.5	16.7	15.6	17.6	19.9	14.4
9	13.0	7.3	10.7	9.6	14.9	14.3	13.4	15.0	12.4
10	13.1	8.1	11.3	9.9	14.7	13.8	14.9	14.9	12.0
11	15.1	6.8	10.3	8.9	15.4	15.3	17.2	16.9	13.6
12	14.0	9.9	13.8	8.5	13.9	13.9	15.5	15.5	13.7
13	15.3	9.3	11.6	9.9	16.9	15.0	17.1	18.4	13.6
14	13.9	9.5	10.8	8.0	16.1	14.6	16.0	15.4	13.4
15	14.3	9.3	9.4	9.2	15.1	14.8	15.5	14.9	12.6
16	12.9	8.0	10.3	6.8	14.7	13.8	14.1	14.9	12.2
17	10.4	7.4	9.4	8.0	11.6	11.2	13.0	13.5	10.8
18	11.0	7.5	9.3	7.9	13.1	12.2	12.9	12.9	10.1
19	13.1	8.1	9.7	5.0	14.4	13.7	15.0	14.1	12.7
20	12.0	8.6	9.1	5.7	12.9	11.7	14.2	15.3	10.3
21	12.0	8.0	10.9	6.1	13.7	12.1	13.0	14.2	10.8
22	11.0	7.9	11.8	7.1	13.4	11.9	13.1	14.4	9.9
23	12.5	8.2	11.6	8.6	14.4	12.8	13.4	14.2	10.8
24	12.9	6.9	9.4	8.4	16.2	14.9	17.2	15.8	11.2
25	11.9	6.8	9.8	9.7	13.6	13.1	14.5	14.7	12.5
26	14.1	7.7	11.3	10.8	15.7	14.3	14.4	15.7	15.0
27	14.3	7.6	11.0	7.9	17.3	15.0	16.8	18.8	13.0
28	10.3	4.9	6.4	6.4	14.9	12.7	15.6	16.5	8.8
MEANS	12.6	7.8	10.4	8.1	14.2	13.3	14.4	14.9	11.8
NORMAL	11.7	8.8	10.4	9.7	13.9	13.0	14.2	14.6	12.0
YEARS OF NORMAL	1937	1923	1935	1928	1940	1939	1940	1937	1935

to 1956 .

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

FEBRUARY 1961 . شباط ١٩٦١

TABLE - 2 . المعدل الجوي للضغط الجوي على سطح البحر (ميليبارات)

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	خبة	الحبانية	حمرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DEWA-NIYA	HABBA-NIYA	HAMRAH	HABBA-NIYA
1	1012.2	1015.8	1013.5	1012.6	1012.3	1011.9	1012.4	1013.1	1012.2
2	10.1	12.4	11.3	14.2	07.6	09.1	10.6	11.7	10.8
3	20.3	21.4	20.5	19.8	20.4	20.7	20.1	10.7	20.4
4	20.3	22.1	21.2	19.5	19.1	20.4	19.7	19.5	20.3
5	18.3	20.4	18.8	16.1	17.2	18.2	17.9	17.2	18.4
6	15.5	17.7	16.8	11.9	16.4	15.4	16.5	16.2	14.5
7	15.5	17.5	17.0	13.1	16.2	15.0	15.5	16.0	14.6
8	13.4	14.4	13.3	14.1	12.9	13.8	13.6	14.1	13.2
9	20.9	20.4	21.5	20.9	20.3	20.5	20.1	19.9	21.1
10	17.7	19.2	17.9	16.5	17.6	17.7	17.6	18.3	17.7
11	14.5	19.0	17.6	16.1	14.8	14.8	17.4	16.0	14.7
12	16.7	19.5	18.1	15.9	17.2	16.3	17.7	16.2	15.8
13	13.3	14.3	14.0	14.2	12.4	14.0	13.9	14.3	13.1
14	15.5	16.4	16.6	15.2	16.1	15.6	16.9	16.9	15.5
15	16.0	18.2	17.5	16.4	15.0	15.7	16.1	16.7	16.4
16	16.5	18.2	17.0	16.1	16.3	16.3	16.2	16.1	16.5
17	16.5	16.3	16.1	18.3	15.8	16.8	15.4	15.1	16.8
18	19.6	18.7	18.8	19.2	19.0	19.4	19.2	19.0	19.2
19	19.7	22.4	21.1	20.3	19.1	18.9	18.9	18.9	19.7
20	21.9	23.7	22.4	24.7	20.3	21.8	20.3	19.1	22.8
21	24.4	26.4	24.6	27.9	22.9	24.8	23.1	22.0	20.3
22	23.8	25.5	23.7	24.9	22.9	24.0	23.3	22.7	24.0
23	20.2	21.6	20.4	18.7	19.5	19.8	19.9	20.2	20.0
24	13.8	16.5	15.5	15.7	11.8	12.4	12.4	13.3	14.3
25	20.7	19.8	19.2	19.2	19.3	19.9	19.3	18.6	19.2
26	19.2	19.2	18.3	16.3	18.0	17.7	18.1	18.6	17.0
27	15.5	16.6	15.1	16.1	13.3	14.6	13.8	13.5	14.6
28	21.7	22.1	21.6	10.3	18.3	19.4	18.1	17.6	21.1
MEANS	1017.6	1019.1	1018.2	1017.3	1016.9	1017.0	1017.2	1016.8	1017.5
NORMAL	1017.1	1017.2	1016.7	1017.2	1016.9	1016.4	1016.6	1016.6	1016.6
1961 :									
HIGHEST	1025.7	1027.9	1025.7	1029.4	1023.5	1025.9	1025.5	1024.5	1026.7
TIME	0600	0600	0600	0600	0900	0600	0600	0600	0600
DAY	21 st	21 st	21 st	21 st	22nd	22nd	22nd	22nd	21 st
LOWEST	1006.8	1009.6	1008.4	1010.5	1004.1	1002.7	1006.4	1008.8	1007.6
TIME	0600	1200	0900	1200	0900	0600	0000	0300	0300
DAY	2nd.	2nd.	2nd.	6th.	2nd.	2nd.	2nd.	2nd.	2nd.
RECORDS									
HIGHEST	1033.7	1035.8	1034.4	1037.9	1032.4	1034.9	1033.3	1031.7	NOT AVAIL-ABLE
TIME	0600	0600	0600	0900	0600	0600	0600	0600	
DAY	8th.	8th	8th	8th	8th	8th	8th	8th	
YEAR	1950	1950	1950	1950	1950	1950	1950	1950	
LOWEST	998.4	1000.8	1000.3	999.0	1000.3	997.9	998.1	999.8	
TIME	1800	1500	0300	1300	0000	2100	2100	1200	
DAY	2nd.	22nd	26th	9th	29th	28th	28th	5th.	
YEAR	1956	1952	1949	1941	1956	1956	1956	1951	

NOTE: PERIOD OF RECORDS AND OF DAILY MEAN SEE PAGE (1)

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TABLE - 3 . — المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	59	68	31	75	57	60	61	65	63
2	91	75	77	84	86	86	76	79	85
3	76	77	78	83	73	69	71	76	74
4	76	76	67	76	68	68	65	76	73
5	72	76	62	63	63	71	66	73	76
6	74	83	69	66	72	63	65	75	77
7	73	79	72	61	75	72	72	80	81
8	76	92	76	79	76	69	59	76	74
9	73	87	78	71	61	59	49	66	70
10	66	88	72	67	60	61	61	74	71
11	60	92	76	77	62	63	54	71	69
12	65	82	67	72	65	69	61	62	71
13	57	90	82	60	58	57	58	68	64
14	61	89	82	72	51	49	46	59	62
15	58	85	81	78	55	55	48	64	69
16	70	86	75	75	56	62	58	70	72
17	88	76	83	71	78	81	64	78	85
18	74	86	81	65	65	76	58	79	80
19	68	72	69	80	60	59	54	70	73
20	74	70	71	73	70	74	58	66	82
21	60	71	46	71	63	63	59	73	64
22	62	76	42	64	46	54	43	64	65
23	59	68	54	62	50	51	42	63	61
24	61	72	69	68	59	53	49	81	70
25	61	76	70	68	58	56	53	71	62
26	53	87	61	66	48	51	55	58	48
27	53	89	75	65	51	53	48	56	59
28	52	70	67	51	54	58	51	58	54
MEANS	67	80	69	70	62	63	57	70	70
NORMAL	62	79	69	61	62	62	61	73	62
1961 :									
HIGHEST	100	100	96	99	93	95	91	98	99
TIME	0300	0300	2100	0300	0300	0300	0000	0300	0000
DAY	2nd	5&14	24	15	17	2	2	25	5
LOWEST	29	30	18	24	24	23	17	27	26
TIME	1200	1200	0900	1200	1200	1200	1200	0900	1200
DAY	27th	23	1	7	27	27	24	27	23

Note: Period of Normals see page (1)

FEBRUARY 1961 . شباط ١٩٦١

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	17.5	0.0	14.7	-3.4	17.0	5.0	18.5	2.2	10.0	2.0
2	11.6	7.8	11.6	2.6	9.8	6.1	9.4	8.3	10.7	1.8
3	17.2	2.6	14.4	-1.2	15.1	2.0	15.6	3.9	14.2	0.7
4	19.2	4.1	15.6	0.6	14.3	3.8	15.6	3.9	16.6	2.5
5	20.2	5.4	18.5	-1.3	16.9	3.8	18.0	3.3	18.2	2.6
6	18.9	8.0	18.1	0.1	18.4	6.9	20.0	6.1	18.4	6.8
7	20.3	10.7	17.7	8.4	18.1	7.3	21.1	7.8	19.0	3.2
8	20.0	13.7	12.9	7.9	16.9	10.7	21.1	9.6	15.6	5.4
9	20.0	7.9	15.4	1.8	17.7	4.5	17.2	5.5	16.0	4.3
10	21.0	5.2	17.2	1.1	18.6	4.7	19.0	4.8	16.1	3.8
11	20.0	10.3	12.4	1.9	15.1	6.3	17.8	6.6	13.6	6.1
12	21.3	8.1	17.3	2.8	19.9	8.5	21.7	7.2	15.6	1.3
13	21.2	11.8	15.3	8.4	16.2	10.8	18.9	10.6	15.6	3.6
14	19.0	8.3	14.6	4.3	15.7	7.4	17.5	8.3	13.0	8.6
15	19.7	9.7	14.7	8.1	14.4	6.9	18.3	8.9	13.1	5.9
16	20.2	5.6	14.9	2.0	17.2	5.1	17.5	4.4	11.2	2.6
17	14.5	7.8	15.7	6.6	14.0	7.1	13.0	8.0	13.8	3.3
18	15.9	5.0	13.8	1.9	15.1	5.2	15.0	7.0	12.5	2.7
19	17.5	10.2	14.1	2.8	14.3	5.8	16.1	7.2	11.2	1.0
20	17.0	8.8	15.3	3.0	12.5	6.2	14.6	4.5	9.8	2.9
21	19.2	6.2	17.1	1.4	17.9	3.8	18.4	5.0	12.6	0.9
22	19.3	2.7	18.6	-0.2	19.5	5.2	20.0	5.0	15.9	-0.5
23	20.6	3.8	18.0	0.4	18.4	5.7	19.0	4.5	16.6	0.0
24	19.4	10.3	16.1	1.0	14.0	7.5	14.0	8.3	13.3	3.1
25	19.5	4.4	15.4	0.0	16.9	2.1	17.5	2.8	15.6	1.6
26	19.4	9.3	11.2	3.1	16.1	6.6	18.5	7.2	17.4	6.3
27	20.3	10.8	10.0	6.0	17.6	7.0	20.6	9.0	14.0	3.1
28	15.2	4.8	10.5	2.1	12.1	3.4	18.3	6.0	11.8	0.8
MEANS	18.8	7.2	15.0	2.6	16.0	5.9	17.6	6.3	14.3	2.9
NORMAL	18.4	7.4	14.3	3.2	15.1	5.0	17.2	2.7	15.6	2.7
HIGHEST	30.0		26.7		26.6		29.4		31.7	
DAY	26		28		25		9		24	
YEAR	1941		1955		1941		1944		1941	
LOWEST		-5.0		-9.4		-6.7		-4.4		-8.3
DAY		9		10		4		9		11
YEAR		1950		1949		1947		1950		1949

FEBRUARY 1961 .

شباط ١٩٦١

TABLE 4-b .

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	19.0	2.1	16.3	0.2	16.2	2.6	15.1	4.1	16.9	-0.8
2	12.5	7.5	11.8	8.5	12.6	10.4	16.4	11.7	11.8	7.9
3	17.0	3.9	17.6	2.4	16.8	4.5	16.6	5.5	15.9	1.7
4	17.3	5.5	20.3	3.4	18.6	3.6	12.5	4.5	18.8	3.8
5	20.2	5.3	20.6	5.6	20.5	5.6	19.5	5.3	20.5	3.9
6	20.6	6.3	22.6	6.7	22.4	7.5	21.6	6.6	17.7	7.2
7	22.2	11.5	23.0	10.5	24.0	11.8	23.9	11.5	21.6	8.2
8	23.9	13.8	21.5	13.1	23.8	15.1	25.1	16.0	19.5	12.4
9	21.7	8.4	21.7	7.2	21.8	7.6	21.4	8.6	19.3	5.9
10	21.8	8.4	21.2	6.0	22.0	8.0	21.5	7.8	19.4	5.0
11	21.8	8.2	22.7	10.5	23.5	12.2	24.1	11.5	19.9	10.0
12	22.1	5.4	21.0	7.5	22.0	7.5	24.0	8.8	20.6	7.2
13	23.4	11.9	20.6	10.8	24.2	14.0	24.2	14.6	19.8	8.7
14	23.2	7.5	22.1	6.2	24.1	7.6	23.8	7.8	18.6	6.8
15	22.4	10.6	21.3	10.2	22.5	11.0	23.8	10.1	18.0	8.9
16	21.8	8.3	21.0	5.2	21.0	7.1	22.3	7.1	19.4	3.9
17	16.7	7.8	15.9	7.5	17.0	9.0	17.5	10.6	14.3	7.2
18	19.8	5.4	20.7	3.8	20.2	4.5	18.8	6.0	15.1	3.9
19	21.0	5.4	21.5	6.5	21.7	7.8	20.1	6.4	18.0	7.9
20	17.4	7.7	17.0	6.8	20.4	8.0	22.3	6.9	14.8	6.5
21	20.0	6.2	19.6	6.6	20.0	7.4	18.4	9.5	16.7	4.4
22	20.0	4.7	20.0	3.1	21.1	5.7	21.2	7.4	17.8	2.2
23	21.0	6.2	20.0	4.0	21.7	2.7	21.8	4.2	18.3	2.8
24	22.0	9.4	24.6	9.8	27.2	12.4	21.9	10.2	19.8	6.1
25	20.0	6.4	21.0	4.3	20.6	7.0	21.0	8.6	20.2	4.8
26	22.8	5.7	22.4	4.8	22.1	6.5	21.4	7.6	19.8	10.3
27	23.7	10.6	24.0	8.2	25.5	10.6	27.5	11.2	18.9	7.5
28	21.9	7.2	20.2	4.3	22.0	9.2	21.9	10.6	14.3	3.9
MEANS	20.6	7.1	20.4	6.6	21.3	8.1	21.1	8.6	18.1	6.0
NORMAL	19.8	6.7	19.5	5.0	20.6	7.6	20.5	9.0	18.7	5.9
HIGHEST :	29.4		32.0		32.2		31.3		30.6	
DAY	24&27th		22		22		26		24-26	
YEAR	1941		1955		1952		1960		1941	
LOWEST :		-3.9		-7.2		-3.9		-2.2		-5.0
DAY		10		9		9		9		8&9th
YEAR		1949		1950		1950		1950		1950

TABLE - 5 . المعدل الشهري لدرجات الحرارة المبللة الجافة (مئوية)

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.1	8.2	10.8	15.9	18.0	15.9	12.8	10.6	12.6
MOSUL	4.5	3.6	6.0	11.4	13.5	11.1	7.6	5.6	7.9
KIRKUK	7.7	7.0	10.2	13.9	14.8	11.8	9.3	8.2	10.4
KHANAQIN	...	7.5	10.7	10.8	16.8	14.2	11.1	...	11.8
RUTBAH	4.8	3.7	6.3	11.6	13.6	11.6	8.2	6.2	8.3
HAI	...	8.2	12.0	17.5	19.4	16.0	12.7	...	14.3
DIWANIYA	8.6	7.7	12.0	17.9	20.1	16.5	12.7	10.7	13.3
NASIRIYA	10.3	9.0	12.8	18.8	20.7	17.7	14.2	12.3	14.5
BASRAH	11.0	10.1	13.5	19.1	20.5	17.6	14.3	12.8	14.9
HABBANIYA	8.4	7.1	10.0	15.8	17.5	14.6	11.3	9.8	11.8

TABLE - 6 . المعدل الشهري لدرجات الحرارة المبللة الجافة (مئوية)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	7.5	6.9	8.8	11.2	11.8	11.3	9.9	8.5	9.5
MOSUL	3.9	3.1	5.1	8.4	9.0	8.0	6.3	4.9	6.1
KIRKUK	5.9	5.3	7.6	9.8	10.1	8.9	7.3	6.4	7.7
KHANAQIN	...	6.4	8.4	11.2	11.4	10.4	8.8	....	9.4
RUTBAH	3.9	3.0	4.7	7.6	8.4	7.7	6.2	5.0	5.8
HAI	....	6.8	9.3	12.0	12.5	10.7	9.3	....	10.1
DIWANIYA	7.0	6.3	9.3	12.3	12.7	11.3	9.3	8.2	9.6
NASIRIYA	8.0	7.1	9.7	12.5	12.9	11.7	10.2	9.1	10.2
BASRAH	9.5	8.9	11.3	14.0	14.6	13.1	12.1	10.8	11.8
HABBANIYA	6.9	6.1	8.1	11.2	11.5	10.7	9.0	8.1	9.0

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	17.5	17.4	18.6	18.8	16.5	16.8	17.9	18.1	1017.7
MOSUL	19.5	19.8	20.5	19.9	17.9	18.0	19.0	19.3	1019.2
KIRKUK	18.4	18.5	19.0	18.2	16.7	17.2	18.6	18.8	1018.2
KHANAQIN	....	19.0	18.9	17.4	16.0	17.0	18.7	....	1017.8
RUTBAH	17.3	17.9	18.9	18.1	14.8	17.1	18.1	17.8	1017.5
HAI	....	17.0	17.8	17.4	15.8	15.9	17.1	....	1016.8
DIWANIYA	17.0	17.3	18.5	14.3	16.1	16.5	17.7	17.5	1016.9
NASIRIYA	16.9	17.1	18.5	18.0	16.0	16.4	17.6	17.8	1017.3
BASRAH	17.1	17.2	18.5	17.8	16.1	16.3	17.5	17.5	1017.3
HABBANIYA	17.4	17.5	18.5	17.9	16.4	16.8	17.9	17.9	1017.5

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	80	83	75	55	44	54	67	75	67
MOSUL	92	93	89	67	57	67	84	90	80
KIRKUK	77	77	68	57	54	67	75	77	69
KHANAQIN	..	86	74	54	50	60	73	..	66
RUTBAH	86	88	75	54	46	56	69	82	70
HAI	..	82	71	54	45	52	65	..	62
DIWANIYA	79	81	70	49	39	51	62	70	63
NASIRIYA	69	74	64	44	37	46	57	63	57
BASRAH	82	85	75	40	50	58	76	78	68
HABBANIYA	82	85	77	56	46	59	74	79	70

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TABLE - 9 .

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.3	9.1	9.3	9.7	9.0	9.7	9.9	9.6	9.4
MOSUL	7.9	7.5	8.4	9.0	8.6	8.8	8.8	8.3	8.4
KIRKUK	8.0	7.7	8.4	8.9	8.7	9.1	8.8	8.4	8.5
KHANAQIN	...	8.9	9.2	9.4	9.4	9.8	9.4	...	9.3
RUTBAH	7.4	7.0	7.6	7.3	7.0	7.5	7.9	7.8	7.4
HAI	...	9.1	10.0	10.6	10.0	9.5	6.3	...	9.3
DIWANIYA	8.9	8.6	9.8	9.9	8.9	9.3	9.0	9.0	9.2
NASIRIYA	9.1	8.8	9.6	9.5	8.7	9.0	9.2	9.1	9.1
BASRAH	10.9	10.7	11.7	11.9	12.0	11.6	12.4	11.4	11.6
HABBANIYA	9.0	8.7	9.5	9.8	9.0	9.8	9.8	9.5	9.4

TABLE -10 .

المعدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	5.7	5.4	6.4	6.3	5.2	6.3	6.9	6.1	6.0
MOSUL	3.1	2.5	4.1	5.2	4.3	4.6	4.8	4.0	4.1
KIRKUK	3.3	2.7	4.1	4.8	4.5	5.2	4.8	3.9	4.2
RUTBAH	2.4	1.7	2.1	2.1	1.5	2.6	2.8	3.2	2.3
HAI	...	5.3	6.7	7.6	6.6	5.9	6.0	...	6.4
DIWANIYA	4.9	4.4	6.4	6.4	4.9	5.6	5.2	5.1	5.4
NASIRIYA	5.3	4.7	6.0	6.0	4.7	5.3	5.5	5.4	5.4
BASRAH	8.0	7.7	9.1	9.3	9.4	9.4	10.1	8.9	9.0
HABBANIYA	5.3	4.7	5.8	6.5	5.0	6.4	6.3	5.8	5.7

TABLE-11

المعدل الشهري لكمية الغيوم الواطئة (بالاثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.9	1.0	0.9	1.0	2.3	1.1	0.4	0.6	1.0
MOSUL	3.7	3.8	3.5	3.0	3.6	3.1	2.9	2.5	3.3
KIRKUK	1.9	2.1	2.2	2.5	2.9	2.3	2.4	1.7	2.3
KHANAQIN	...	2.3	2.5	3.3	3.0	3.0	2.0	...	2.8
RUTBA	1.3	1.2	2.1	2.4	3.8	3.3	2.0	2.3	2.3
HAI	...	1.1	1.6	1.3	1.8	1.1	0.6	...	1.3
DIWANIYA	0.6	0.6	0.8	0.8	1.0	1.1	0.3	0.4	0.7
NASIRIYA	0.6	0.6	0.6	0.8	1.1	0.8	0.3	0.2	0.6
BASRAH	0.2	1.0	1.0	0.9	1.0	0.7	0.2	0.2	0.7
HABBANIYA	0.7	1.3	1.1	0.7	1.9	1.4	0.8	0.7	1.1

TABLE - 12 .

المعدل الشهري لكمية لمجموع كمية الغيوم (بالاثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	2.1	2.5	2.9	2.9	3.8	2.9	2.3	1.8	2.7
MOSUL	4.2	4.4	4.8	4.6	5.3	4.3	3.6	3.2	4.3
KIRKUK	2.4	2.6	3.6	4.1	4.1	3.5	3.2	2.5	3.3
KHANAQIN	...	3.0	2.6	4.0	5.0	4.0	3.0	...	3.6
RUTBAH	2.4	2.8	3.3	3.3	4.3	3.8	2.8	3.2	3.2
HAI	...	2.1	2.8	2.9	3.3	2.6	1.9	...	2.6
DIWANIYA	1.8	1.7	1.9	2.1	2.3	2.5	1.2	0.8	1.5
NASIRIYA	1.8	2.1	2.0	2.0	2.1	2.0	1.4	1.0	1.8
BASRAH	1.6	2.6	2.6	2.5	2.6	2.4	1.8	1.5	2.2
HABBANIYA	2.2	2.9	3.1	2.9	3.5	3.3	2.5	2.5	3.0

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TABLE 13-a .

شباط ١٩٦١ :
عدد تكرار رصدات الرياح السطحية

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه								SPEED IN KNOTS السرعة بالعقد					معدل السرعة MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	34+	
بغداد BAGHDAD	0000	0	0	7	4	1	1	4	4	7	18	3	0	0	5
	0300	1	1	5	2	4	1	4	1	9	12	7	0	0	5
	0600	2	0	5	3	4	1	7	3	3	18	5	0	0	6
	0900	1	0	2	5	6	2	5	7	2	17	8	0	0	7
	1200	4	0	3	5	1	2	5	7	1	17	10	0	0	7
	1500	2	0	5	4	1	1	5	7	3	17	7	1	0	7
	1800	3	1	6	4	0	1	1	6	5	17	5	0	0	6
	2100	3	1	5	5	0	1	2	3	8	17	3	0	0	4
	TOTAL	16	3	36	32	17	9	31	38	42	133	47	2	0	6
موصل MOSUL	0000	3	0	4	1	2	1	4	2	11	13	3	1	0	4
	0300	2	2	0	3	2	1	7	3	8	18	4	1	0	6
	0600	6	0	3	3	1	1	6	3	5	16	7	0	0	6
	0900	6	0	3	6	2	1	4	3	4	17	9	1	0	9
	1200	4	0	7	3	5	2	4	2	1	16	11	0	0	10
	1500	2	1	3	2	5	3	6	0	6	15	7	0	0	7
	1800	0	1	2	2	2	1	1	1	5	19	4	0	0	6
	2100	2	0	2	3	3	0	4	3	11	12	4	1	0	5
	TOTAL	25	4	26	23	24	11	46	17	48	126	46	4	0	6
كركوك KIRKUK	0000	0	9	5	4	0	0	0	0	10	15	5	0	0	4
	0300	1	9	5	0	0	0	0	0	13	13	2	0	0	3
	0600	1	8	6	3	1	0	1	0	8	20	0	0	0	4
	0900	0	1	1	6	1	1	3	2	7	19	2	0	0	5
	1200	1	1	0	2	12	2	1	3	6	20	2	0	0	5
	1500	5	1	1	2	5	0	3	0	11	17	0	0	0	4
	1800	2	5	4	4	0	0	1	1	11	16	1	0	0	4
	2100	0	5	4	3	0	0	0	0	16	10	2	0	0	3
	TOTAL	10	39	26	24	25	3	9	6	82	130	12	0	0	3
خانقين KHANAQIN	0300	0	0	8	1	3	1	2	0	13	15	0	0	0	3
	0600	0	0	6	1	4	0	2	0	15	13	0	0	0	2
	0900	2	0	2	0	11	0	7	1	5	23	0	0	0	5
	1200	3	0	0	0	9	0	13	1	2	24	3	0	1	8
	1500	2	1	0	0	8	0	9	4	4	24	0	0	0	4
	1800	2	0	4	1	6	0	3	0	12	15	1	0	0	3
	TOTAL	9	1	20	3	41	1	36	6	51	111	4	1	1	4
رطبة RUTBAH	0000	3	0	1	1	0	1	4	4	14	11	3	0	0	4
	0300	2	1	0	0	2	3	4	4	11	14	2	1	0	5
	0600	4	0	1	0	3	6	7	4	3	19	6	0	0	7
	0900	2	1	2	1	6	4	6	6	0	17	11	0	0	10
	1200	5	1	2	2	3	2	6	6	1	11	14	2	0	12
	1500	4	1	2	4	1	2	5	7	2	19	7	0	0	8
	1800	6	2	2	3	1	0	3	4	7	17	4	0	0	5
	2100	5	0	1	3	0	1	1	4	13	14	1	0	0	4
	TOTAL	31	6	11	14	16	19	36	39	51	122	48	3	0	7

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TABLE 13-b . عدد تكرار رصدات الرياح السطحية :

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة : STATION	الوقت ك ر ش 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.
حبي	0300	1	0	4	3	1	0	1	10	6	18			0	7
	0600	0	0	4	6	0	0	0	9	5	11			1	10
	0900	0	1	3	6	0	0	0	8	4	10			1	11
	1200	1	0	3	5	0	0	0	6	3	13			1	11
	1500	0	0	3	2	1	0	0	5	3	14			0	6
	1800	1	0	2	1	1	0	0	7	3	12			0	6
	TOTAL	3	1	20	23	4	0	2	51	24	78	33	1	3	9
دبوانية	0000	3	1	1	1	0	0	0	0	3	19	4		0	5
	0300	2	1	1	1	0	0	0	0	3	20	2		0	5
	0600	1	0	0	1	0	0	0	0	3	17	6		0	6
	0900	1	0	0	1	0	0	0	0	3	16	9		0	6
DIWANIYA	1200	2	0	1	1	0	0	0	0	3	17	10		0	6
	1500	2	0	1	0	0	0	0	0	3	21	6		0	6
	1800	3	1	0	0	0	0	0	0	3	19	6		0	6
	2100	5	0	0	1	0	0	0	0	3	22	4		0	6
	TOTAL	21	4	5	6	0	0	0	0	24	171	47	1	0	7
الصويرة	0000	0	0	0	0	1	2	5	3	1	20	4		0	6
	0300	1	0	3	0	1	1	6	3	1	22	2		0	6
	0600	2	0	0	1	2	3	4	2	1	20	5		0	6
	0900	2	0	1	0	2	3	3	2	1	20	5		0	7
SKRIYA	1200	2	0	1	0	1	2	8	2	1	19	6		0	7
	1500	2	0	1	0	0	1	7	2	1	21	5		0	7
	1800	2	1	0	0	0	0	7	6	1	22	4		0	7
	2100	2	1	0	1	0	2	6	5	1	23	3		0	6
	TOTAL	15	2	7	2	7	14	39	30	9	176	35		0	6
بصرة	0000	1	1	1	1	0	0	1	1	1	2	0		0	4
	0300	0	0	0	0	0	0	1	1	1	2	0		0	4
	0600	0	0	0	0	0	0	1	1	1	2	0		0	4
	0900	1	0	0	0	0	0	1	1	1	2	0		0	4
BASRAH	1200	3	0	0	0	0	0	2	1	1	2	0		0	4
	1500	4	0	0	0	0	0	2	1	1	2	0		0	4
	1800	4	0	0	0	0	0	2	1	1	2	0		0	4
	2100	5	0	0	0	0	0	2	1	1	2	0		0	4
	TOTAL	21	0	1	0	0	0	12	8	8	16	0		0	4
حبانية	0000	1	2	5	3	1	0	1	5	10	11	6		0	6
	0300	1	2	2	2	0	2	3	4	10	12	5		0	6
	0600	4	3	3	2	0	2	3	4	10	12	5		0	6
	0900	2	1	3	2	0	3	4	4	10	14	5		0	6
HABBANIYA	1200	1	1	3	4	6	0	5	7	11	12	9		0	10
	1500	4	2	2	2	2	0	4	4	10	13	7		0	7
	1800	2	0	8	2	1	0	3	3	9	16	3		0	5
	2100	0	3	7	2	1	0	5	1	9	15	3		0	5
	TOTAL	15	14	35	19	12	7	31	32	89	110	52		0	7

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TABLE 14-a .

الهطول اليومي (ملليمترات).

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	دبوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBA	HAI	DIWA-NIYA	NASI-RIYA	BASRA	HABBA-NIYA
1	25.7		1.1		16.4	13.7	1.9	tr.		3.0
2	4.5		1.4	11.4		tr.	tr.	4.0	11.7	0.6
3										
4										
5										
6	0.6	5.1	7.1	0.3		tr.	tr.			2.6
7		3.9		1.3		tr.				
8		10.4	1.3	2.5	tr.					
9										
10	tr.				1.5		tr.			0.2
11		9.1	0.2	0.2					tr.	
12	0.3	2.9	1.2			tr.				
13		9.5	8.9	0.7				0.3	1.2	
14	0.1	1.6	6.1		0.7					
15				7.4	tr.					
16	20.0	0.1	4.0		tr.	7.6	2.5			6.8
17	0.2	0.2	1.5	10.0		tr.				
18					tr.					
19	tr.				9.9					8.1
20			0.4			tr.	0.3	tr.	tr.	
21										
22										
23						0.5				
24	tr.		1.7	3.0	tr.			0.8	0.3	
25		3.2								
26		10.2	1.3		tr.			0.3		tr.
27		0.8			tr.				tr.	
28	tr.		tr.		tr.					
TOTAL	51.4	57.0	36.2	36.8	20.5	21.8	4.7	5.4	13.2	21.3
NORMAL	29.0	74.6	60.6	55.4	17.3	24.5	16.4	12.6	19.8	18.4
MAX. FALL IN 24 HOURS	38.0	56.7	61.4	60.5	32.0	26.9	38.2	21.8	29.9	30.4
DAY	25th	21st	18th	23rd	14th	8th	1st	23rd	28th	15th
YEAR	1957	1942	1953	1943	1930	1941	1953	1956	1938	1954

NOTE: YEARS OF NORMAL SEE PAGE 1 .

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TABLE 14-b .

الهطول اليومي (ملليمترات)

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

التاريخ	راوندوز	تل عويناث	سنجار	تلعفر	حويجة	جمجمال	بكرجو	حلبجة	جوارتا
DATE	RAWA-NDUZ	TEL AWAINAT	SIN-JAR	TELAA-FAR	HAWI-JA	CHAM-CHAMAL	BAK-RAJO	HALA-BJAH	CHUA-RTAH
1									
2						3.7		1.0	
3								8.0	2.0
4									7.5
5									
6	15.0			2.0	8.2	4.6	5.5	1.0	
7	20.0		3.0	16.0					
8		12.7			5.7	19.0	23.5	33.0	
9									
10			4.5						
11	12.0			8.0			3.0	0.5	
12	25.0	1.8			3.0				
13	18.0	0.8		2.0	6.7		6.0	1.0	
14	8.0		8.0	15.5	1.0	18.0	26.0	9.5	
15		14.0	5.0			12.0	14.0	5.0	
16				12.8	7.0	3.0		2.5	
17	10.0						2.0	1.0	
18	6.0						2.0	1.0	67.1
19 20 21 22									
23						3.0			
24							12.0	11.0	6.7
25									
26	36.0		6.5	1.8			1.5		
27		16.5						3.0	
28	5.0							4.0	
TOTAL	155.0	45.8	27.0	58.1	31.6	63.3	95.5	81.5	83.3

FEBRUARY 1961 .

(12)

شباط ١٩٦١

TABLE 14-c.

الهطول اليومي (ملليمترات)

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

التاريخ	صلاح الدين	سماط	دهوك	دوكان	شقلاوة	سرسنك	بنكرد	بيجي	طوز
DATE	SALAH ADDIN	SANAT	DUHOK	DUKAN	SHAQ-LAWA	SER-SANK	BINKIRD	BAIJI	TUZ
1									
2								4.5	
3									18.0
4									
5									
6		14.5	7.4	9.0		4.0	8.3		
7	4.0	48.8	16.2		18.0	9.0			
8	5.4			23.0	2.9		27.3		
9					15.4		10.2		
10		3.7							
11		23.8		2.5				2.0	
12	6.7	18.2	4.0	1.0		3.3			
13	5.4	15.4	6.0	18.0	58.0			1.0	
14	6.6	12.0	12.6	29.5		5.3	8.5		
15	4.8			1.0					50.0
16				2.0					
17				5.5				15.0	
18	6.2			9.5		3.0			
19						5.0			
20					18.0				
21					16.0				
22									
23									
24				8.5			4.7		
25									23.0
26	3.0	42.3	11.5	8.0		6.0	26.0		
27	8.5	3.2	0.8	tr.	39.5	3.7		1.6	
28	7.8	2.0		0.5	4.0				
TOTAL	58.4	183.9	58.5	117.5	181.8	39.3	85.0	24.1	91.0

FEBRUARY 1961 .

شباط ١٩٦١

TABLE 14-d .

الهطول اليومي (ملليمترات)

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

التاريخ	حديثة	سامراء	منصور	سعدية	بعقوبة	بدرة	مندلي	كربلاء	هندية
DATE	HADITHA	SAMIRAA	MANSOOR	SAIDIA	BAKOBA	BADRA	MANDILY	KARBALAA	HINDIA
1					14.0				
2		tr.	11.4		10.0	5.0	54.5	31.2	26.5
3			10.9	7.0					
4									
5									
6		5.0			1.9				
7									
8									
9									
10									
11		2.0							
12									
13									
14		tr.							
15								5.1	
16		24.0			15.1				
17			15.2			8.0	9.0		15.5
18									
19									
20									
21		5.0							
22									
23									
24							6.0		
25		5.2							
26									
27									
28									
TOTAL	0.0	41.2	37.5	7.0	41.0	13.0	69.5	36.3	42.0

FEBRUARY 1961 .

TABLE 14-e .

(14)

شباط ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	كوت	علي الغربي	شبكة	سلمان	قلعة صالح	سماوة	معقل	فاو	قلعة ديزة
DATE	KUT	ALI-ALGHARBI	SHA-BICHA	SALMAN	QALAT SALIH	SAMAWA	MAIQIL	FAO	QALAT DIZA
1	2.5				22.0			11.6	
2		4.7					11.9		
3									
4									
5									
6		9.0							
7									
8									28.0
9									20.0
10									
11		12.0							
12								1.6	
13		12.0					1.3		16.0
14									
15									
16	4.5	4.3							
17		3.3							
18									10.0
19									
20									
21									
22									
23		1.6							
24									
25									
26									6.0
27									10.0
28									3.0
TOTAL	7.0	46.9	0.0	0.0	22.0	0.0	13.2	13.2	93.0

FEBRUARY 1961 .

TABLE 14-b .

الهطول اليومي (ملليمترات) شباط ١٩٦١

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

التاريخ DATE	مخمور MAKH-MOOR	مركةسور MERGA-SOOR	عينسفني AIN-SIFNI	رميل RUMIL	كويسنجاق KOISI-NJANQ	كاني سبكا KANI-SPIKA	قرةداغ KARA-DAGH	قادركرم KADIR-KARAM	فتحة FATHA
1									1.5
2				3.7					
3				6.3			9.1		
4									
5	3.2			2.5					
6									2.5
7		5.0	18.0		16.0	9.3	4.1		
8		2.0						11.3	2.0
9		20.0			4.0	22.0	11.2		
10		4.0	13.0						
11		13.0		1.8					1.5
12	11.1	32.2			4.0		1.3		1.2
13		51.2		tr.	6.0	12.0	1.0		
14					13.0		4.0		tr.
15					5.0	32.0	21.5	12.3	
16		14.1	19.0			7.3	3.5		14.2
17	4.3	15.3			5.0	9.2	tr.		
18		15.0			5.0		7.2		
19					6.0		tr.		
20									
21				1.8					
22				3.3					
23				4.3					
24			13.0			12.0			tr.
25					6.0	4.0	11.8	6.5	1.5
26		30.3	9.0			3.0			
27					7.0	4.0	tr.		
28					3.0	3.0	tr.		
TOTAL	18.6	202.1	72.0	23.7	80.0	117.8	74.7	30.1	24.4

FEBRUARY 1961 ، شباط ١٩٦١

TABLE 14-g ، الجدول (١٤-ز)

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

التاريخ	كفري	عمادية	ديانا	طقطق	كلالا	ك٢	العظيم	طوسان
DATE	KOUFRI	AMADIA	DIANA	TAQTAQ	GALALA	K2	AL UTHAIM	TUSAN
1						8.0	1.5	
2	13.5						2.5	
3								
4								
5								
6	3.0	15.0	15.1	12.5	4.5	0.5	3.0	4.5
7		49.0	2.2		7.0			31.5
8	1.5	21.5	15.0	7.0	10.0	4.0		
9								
10								
11		6.0	7.5	5.0		1.8		
12		5.5	7.6	tr.	27.0	0.5	0.3	0.8
13		8.5	29.8	12.0	28.0			6.0
14	4.0	21.0	9.8	4.5		tr.	2.5	29.5
15								
16	6.0			tr.		21.0	4.6	4.0
17		2.0	9.1	tr.	21.0			
18			9.5					
19		4.0		tr.				
20								
21								
22								
23								
24	7.0	tr.		tr.	1.0		8.4	
25		2.0	1.8		4.5	tr.		
26		25.0	33.2	3.0	15.0			9.2
27		16.0	2.5					0.5
28		2.5	1.1	tr.				
TOTAL	35.0	178.0	144.2	44.0	117.5	35.8	22.8	86.0

TABLE - 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية :

No. OF DAYS OF PHENOMENAS . : عدد الايام التي حدثت فيها الظواهر الجوية

المحطة	مطر	ثلج	برد	عواصف رعدية	ضباب	زوابع ترابية	السماء صاحية	السماء غائمة	صقيع
STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
BAGHDAD	6	0	0	0	1	0	10	1	0
MOSUL	11	0	1	3	4	0	3	3	12
KIRKUK	13	1	2	1	0	0	9	1	2
KHANAQIN	9	0	0	1	0	0	7	3	0
RUTBAH	4	0	0	1	0	0	9	4	0
HAI	3	0	0	2	0	0	11	0	0
DIWANIYA	3	0	0	0	0	1	14	0	0
NASIRIYA	4	0	1	0	0	0	16	1	0
BASRAH	3	0	0	0	0	0	12	2	3
HABBANIYA	6	0	0	1	0	0	9	0	2

TABLE - 16 .

DURATION OF SUNSHINE : مدة سطوع الشمس :

المحطة	مجموع الشهري لسطوع الشمس بالساعات	اكبر يوم لسطوع الشمس		عدد الايام التي لم تظهر فيها الشمس
STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	DAY.	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	206.8	10.8	22	0
MOSUL	166.3	10.5	22	2
BASRAH	233.8	10.8	21	0
HABBANIYA	200.7	11.0	21&22	0

TABLE - 17 .

MONTHLY MEAN TEMPERATURES OF : المعدلات الشهرية لحرارة

المحطة	الحشيش	التربة	
STATION	GRASS MINIMUM TEMPERATURE	EARTH TEMPERATURES 0.3 M	1.3 M
BAGHDAD	5.6	13.9	17.8
MOSUL	...	9.9	13.5
KIRKUK	2.6	11.8	14.4
HAI	4.6	....	....
NASIRIYA	6.5	....	....
BASRAH	3.7	....	....
HABBANIYA	4.8	13.9	17.1

TABLE 18-a .

Month: February 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE								1000 mbs.			850 mbs.			700 mbs.			600 mbs.		
	$N_h C_L h C_M C_H$	ww	a pp	PPP	TT	Td	dd	ff	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	00900	02	702	135	02	00	00	00	114	07	00	456	06	72	017	53	-	222	59	-
2	6668X	50	818	083	10	05	09	15	080	10	06	449	03	00	971	54	54	172	62	62
3	00900	02	213	172	05	04	29	04	145	06	03	469	00	61	998	59	65	178	66	77
4	10931	10	802	212	06	05	00	00	171	07	03	508	03	54	050	59	68	243	65	69
5	00900	02	201	193	08	06	00	00	156	08	05	508	06	05	080	00	56	293	69	62
6	00900	10	706	165	10	07	09	01	133	09	01	483	08	55	057	00	66	390	57	73
7	00900	02	203	158	12	09	12	14	132	12	09	492	09	51	072	51	64	279	60	74
8	00900	02	717	122	15	14	11	18	159	15	11	491	13	55	054	00	63	268	59	81
9	00900	02	214	187	09	08	00	00	152	10	08	490	03	09	037	55	63	235	62	74
10	00900	02	710	198	08	06	00	00	167	12	06	506	01	72	047	55	79	250	59	-
11	20930	03	706	151	11	05	09	06	128	13	08	479	06	02	044	54	57	239	64	67
12	00900	02	208	179	09	07	32	01	149	12	07	504	08	58	077	51	75	292	58	87
13	00900	02	710	128	13	06	11	04	110	13	08	467	09	00	044	52	58	244	62	65
14	10930	01	501	164	10	06	16	02	137	14	02	488	05	57	038	57	68	227	63	79
15	7868X	60	305	138	14	05	24	08	116	14	05	460	04	59	994	57	63	177	66	71
16	00900	02	203	191	08	06	00	00	159	10	05	502	04	55	050	56	68	245	61	77
17	4652X	63	712	145	08	08	07	05	117	09	08	462	02	01	002	58	58	180	66	67
18	00900	02	400	189	07	06	27	02	156	06	05	491	02	01	031	58	59	221	80	85
19	70970	02	802	195	11	07	13	03	164	11	06	504	02	52	038	59	60	213	67	68
20	30930	01	304	200	10	07	32	15	169	11	06	518	05	51	069	57	60	255	65	68
21	00900	02	802	240	07	05	29	08	192	09	02	520	01	52	062	58	63	254	66	69
22	00900	02	704	243	07	02	32	07	199	10	57	535	04	70	088	55	83	283	61	93
23	00900	02	705	222	07	04	00	00	181	10	03	525	06	63	091	52	81	298	59	86
24	25630	03	717	156	11	04	08	08	130	09	04	475	07	58	047	51	61	257	60	68
25	00900	02	107	173	06	04	28	04	144	09	04	483	03	59	025	57	74	212	64	85
26	35670	03	803	213	11	04	14	05	179	15	04	517	04	55	059	59	62	237	66	82
27	35680	02	708	155	13	06	13	10	123	14	02	479	07	55	041	56	62	224	66	69
28	10930	02	207	196	06	04	33	02	150	08	03	485	03	57	023	59	67	200	67	80

TABLE 16-b

Month: February 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	500 - mbs.			400-mbs.			300-mbs.			200-mbs.			150-mbs.		
	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	607	69	-	233	80	-	233	91	-	910	01	-	761	06	-
2	545	70	73	151	85	89	103	94	98	801	98	04	671	04	11
3	531	74	89	138	83	00	099	98	01	723	06	17	655	06	18
4	605	73	79	202	84	92	152	99	08	757	04	13	610	05	14
5	681	68	70	309	80	80	304	93	94	952	04	09	796	06	06
6	780	67	80	418	78	89	436	89	00	152	01	11	986	08	18
7	663	68	88	292	79	00	298	91	08	981	98	15	837	06	-
8	648	71	95	250	85	05	208	95	12	644	03	18	685	07	25
9	606	72	84	214	83	94	182	94	04	881	97	07	673	03	12
10	636	69	87	259	81	00	247	93	07	934	05	17	744	09	-
11	589	73	79	209	82	89	209	92	99	867	02	10	723	10	16
12	682	68	90	312	78	-	362	87	-	092	08	-	924	10	-
13	625	68	77	260	78	89	277	87	97	018	01	10	845	10	19
14	585	74	87	186	82	95	165	93	05	854	00	13	703	08	21
15	522	77	82	097	85	92	035	96	04	720	97	03	600	03	13
16	623	70	87	240	82	97	223	93	09	906	03	17	736	08	-
17	553	76	77	093	89	90	045	91	92	744	97	98	636	03	04
18	597	69	74	227	80	85	215	92	96	910	10	14	642	16	21
19	562	74	77	153	87	89	113	93	96	812	48	02	678	05	19
20	607	75	78	290	83	86	274	92	95	966	97	05	849	04	10
21	612	72	76	220	85	01	190	97	15	840	03	21	687	09	-
22	652	72	03	255	84	12	218	97	-	862	99	-	725	06	-
23	680	68	93	322	77	00	335	92	11	987	01	22	830	05	-
24	637	70	74	252	82	89	232	94	01	-	-	-	-	-	-
25	570	73	95	170	83	06	142	95	19	795	03	21	652	04	-
26	597	74	87	214	81	92	192	93	02	836	05	14	674	06	14
27	574	74	83	162	87	95	129	94	05	790	03	13	653	02	13
28	550	74	88	155	82	96	139	91	04	821	04	16	651	08	-

Month: FEBRUARY 1961 .

AVERAGE HEIGHT AND TEMPERATURES FOR SELECTED STATIONS

850 , 700 & 500 - mbs. , Surface , 0000 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	150	02	13	148	02	12	148	-2	12	149	-1	08	149	05	10	151	11	16	151	13	09	152	17	10
700-mbs.	306	-3	18	302	-7	18	300	-9	20	303	-5	12	304	-5	12	311	03	24	314	06	10	316	10	10
500-mbs.	563	-19	38	556	-24	26	552	-26	27	561	-21	26	561	-21	25	576	-12	56	579	-10	22	585	-6	13

850 , 700 & 500 - mbs. , Surface , 1200 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	150	03	14	148	-1	13	149	-1	13	150	05	09	149	05	13	151	12	17	152	13	09	152	17	09
700-mbs.	305	-3	25	302	-7	17	301	-9	21	305	-1	15	305	-2	15	311	03	28	314	07	13	316	10	10
500-mbs.	563	-20	42	556	-23	28	553	-26	28	559	-22	26	562	-19	30	577	-12	59	582	-9	22	586	-7	14

NOTE: THE ABOVE INFORMATIONS ARE EXTRACTED BY INTERPOLATION FROM UPPER AIR MAPS

BLE 20-a

BAGHDAD AIRPORT

Month: February 1961

Frequency of Horizontal Visibility

T I M E - G.M.T.

si-lity	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
00M																									
00 00M											1	1	2	2											6
00 000M				1	1	1	1																		4
000 500M					1	2									1										4
500 1000M				1	4	2	1					1	1		1	3	1								15
KM				1	4	3	4	1	1	1		1	1			5	1	1			1	1	1	1	28
KM	2	2	2		3	9	6	3	4	4	3	2	2	3	3	14	8	2	3	3	3	3	1		85
0 KM	8	8	11	16	9	4	6	11	3	3	6	5	4	6	11	3	15	15	9	8	6	6	8	7	188
KM	18	18	15	9	6	7	10	13	20	20	18	18	18	17	12	3	3	10	16	17	18	18	18	20	342
TAL	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672

NOTE: In fields containing two number the first one gives the cases with dust in the air. the second number shows the total.

Frequency of different heights of cloud-base (amount 5-8 Oktas)

ight	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
OM																									
0 50M						1	1																		2
50 00M								1	1		1	1													4
00 00M					1		1	2	2	3	1	1		1											12
00 00M	1	1	1				1				1		2	3	4	2	2	3	1	1	1	1	1		26
00M	27	27	27	28	27	27	25	25	25	25	25	26	24	24	24	26	26	25	27	27	27	27	27	28	628

B-b

BASRAH AIRPORT

Month: February 1961 .

Frequency of Horizontal Visibility

T I M E - G.M.T.

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
				1							1	1	1/2	1	1	1	1	1						10
	1	1	1			1/1		1/1						1	1				1	1	1	1		11
1/3	1	3	5	10	10	2	2	1/2	2/3	1/3	1/2	2	1/2	2/3	1/4						1	1	1/2	61
3	6	5	8	9	7	8	6	4	4	5	5	6	4	3	2	4	3	3	4	4	4	3	5	115
22	20	19	14	8	11	17	20	21	21	20	20	19	20	20	20	23	24	24	23	23	22	23	21	475
28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	672

NOTE:

In fields containing two numbers the first one gives the cases with dust inthe air. the second nuber shows the total.

Frequency of different heights of cloud - base (amount 5-8 oktas)

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
						1	1	1	1															4
			1																					1
						2	1		1	3	2	4	5	1										19
5	4	5	7	9	9	8	9	8	7	6	5	5	6	5	8	6	5	6	7	7	6	6	5	154

TABLE 21-a .

Month: February 1961.

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud base (≥5 Oktas)

HEIGHT METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			Total		
0-50																														
>50-150																														
>150-300																														
>300-500																														
																					3						3		
																							3						3
>500-900																	1						1	1		1	1		3
																									2	1		2	1
																	1						1	1	1	7	1	1	9
<5/8 OR *								1	1					1	1		1	3	2		6	8	16	5	17	9	9	27	28	25
900					2									1	3	1	1	5	4	2	14		4	3	20	16	2	25	26	27
AND ≥ 5/8						2			2						6		1	12	3	3	34	9	6	51	15	17	105	27	27	212
TOTAL								1	1					1	1		1	4	2		6	8	16	6	18	9	10	28	28	28
					2									1	3	1	1	5	4	2	14	3	4	3	20	18	3	28	28	28
						2			2						6		1	13	3	3	34	9	6	55	16	18	112	28	28	224

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	G.M.T.
18	21	To	

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

TABLE 21-b

Month: February 1961

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			≥200-500M			≥0.5-1KM			≥1-1.5KM			≥1.5-3KM			≥3-5KM			≥5-10KM			≥10-15KM			≥15KM			TOTAL		
0-50																														
>50-150																														
>150-300																									1			1		
																											1			1
>300-500																														
>500-900																										2			2	
																											2			2
<5/8 OR *															1		1	1	3	7	2	2	7	8	23	13	16	28	28	28
900														1				1	3	2	4	4	6	2	20	17	21	27	26	28
AND ≥5/8													1		3		1	4		1	22	3	4	36	24	22	156	28	28	225
TOTAL															1		1	1	3	7	2	2	7	8	23	13	16	28	28	28
														1				1	3	2	4	4	6	2	21	19	21	28	28	28
													1		3		1	4		1	3	3	4	36	24	22	159	28	28	224

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00 03 06
09 12 15 G.M.T.
18 21 To

To=Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

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مديرية الطيران المدني العامة

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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. : 3
Vol. 24
Month March
Year 1961

العـدد : ٣
مجـلد : ٢٤
الشهر : آذار
السنة : ١٩٦١

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B A G H D A D

معلومات مناخية شهرية لشهـــــــر
آذار ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR
MARCH 1961

مجلد ٢٤ ، عدد (٣) آذار ١٩٦١

VOLUME 24 , No. (3) , MARCH 1961

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لمحة عامة عن شهر آذار ١٩٦١

آذار ١٩٦١ شهر غير مستقر و ممطر

تميز هذا الشهر بجو غير مستقر في معظم الايام و تعددت حالات تصاعد الغبار و هطول الامطار وقد سقط الثلج مرة في الرطبة في يوم ١٢ منه و البرد مرتين في الناصرية في الايام ١٢ و ٢٩ منه و ذلك بسبب مرور انخفاضات جوية متعاقبة و مصحوبة بجبهات باردة قادمة من شرقي البحر الابيض المتوسط .

اما الايام : ٤ ، ٥ ، ٦ ، ٧ ، ١٣ ، ١٤ ، ٢١ ، ٢٢ ، ٢٣ ، ٢٤ ، ٢٧ و ٢٨ منه فساد العراق جو مستقر بصورة عامة .

وكانت الرياح السائدة في الاحوال العادية تتراوح بين الشمالية و الشمالية الغربية الخفيفة الى متوسطة السرعة . واما في الجو غير المستقر فتكون الرياح جنوبية الى جنوبية شرقية شديدة السرعة .

وكانت درجات الحرارة تحت المعدل و مما يقابلها من السنة الماضية اي بمقدار (١ ـ ٣) درجة مئوية .

General Situation for MARCH 1961 .

MARCH 1961 Unsettled and Dusty month

The most outstandin feature of the month was unsettled weather, dust and rainy .

Snow fell once in Rutbah on 12th and Hail fell twice in Nasiriya on 12th & 29th, due to successive centers of low pressure coming from East Mediterranean Sea .

On the days : 4,5,6,7,13,,14,21,22,23,24,27 & 28th settled weather generally prevailed over most parts of the Country.

The winds were light to moderate N-NW on settled weather while it was stron S-SE winds on unsettled weather.

The temperatures were below the normal and the same month of last year by (1 - 3) degrees .

TABLE - 1 . المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	12.1	3.6	7.2	7.1	15.1	14.0	15.5	17.0	10.9
2	13.4	5.8	8.7	7.4	15.1	14.1	15.1	17.9	12.2
3	9.7	5.6	7.8	6.1	11.6	10.3	12.0	14.0	9.0
4	11.0	7.7	10.9	8.1	13.7	11.6	13.1	13.8	9.9
5	13.0	6.6	10.5	8.8	15.9	14.5	15.7	16.7	11.6
6	12.9	8.1	11.4	10.1	16.6	14.5	15.9	17.6	12.0
7	15.9	9.8	13.0	11.4	14.9	16.3	17.8	17.5	15.0
8	12.9	7.4	8.9	7.9	19.2	14.9	17.7	19.4	10.6
9	10.4	5.8	7.5	7.5	12.0	10.9	12.3	14.2	9.6
10	11.5	7.1	8.2	7.4	13.4	12.3	12.7	13.7	10.4
11	12.1	7.5	11.0	7.5	11.8	10.9	10.4	11.7	11.4
12	8.9	8.5	9.4	5.7	9.4	8.9	10.3	12.9	8.8
13	11.1	8.8	8.4	10.9	12.8	11.6	12.9	13.2	10.8
14	12.2	9.7	10.9	12.8	14.1	13.0	14.6	15.2	12.5
15	16.6	11.1	14.0	12.8	16.8	16.0	18.3	18.2	16.4
16	14.3	11.5	12.2	10.5	17.4	15.6	17.7	19.4	14.3
17	12.9	8.3	9.8	10.6	15.0	13.7	15.3	16.3	12.5
18	13.7	8.9	11.1	12.4	15.2	14.5	14.4	14.7	13.1
19	16.5	12.0	14.5	11.2	16.6	16.3	15.5	15.0	15.4
20	12.8	13.5	14.7	12.0	18.4	16.9	17.9	17.2	15.5
21	15.9	12.4	14.1	12.5	17.7	17.1	17.5	16.8	15.5
22	16.6	11.9	15.2	14.1	18.6	17.3	18.1	18.1	15.4
23	19.0	14.2	17.0	16.9	20.6	19.9	19.8	19.4	19.3
24	21.1	17.2	19.1	19.8	22.3	20.9	21.6	20.8	21.6
25	18.6	16.0	15.8	14.5	22.9	20.3	24.1	21.7	17.9
26	16.5	13.2	14.0	11.1	19.3	17.1	18.6	20.2	16.2
27	15.8	13.6	15.1	12.3	18.3	16.5	17.3	18.0	15.6
28	17.9	13.9	17.6	16.9	18.9	18.1	18.7	18.9	17.2
29	16.8	13.1	15.6	15.6	16.8	17.8	18.7	18.2	15.5
30	17.8	15.3	16.0	14.0	20.0	18.1	20.1	20.2	16.9
31	16.7	13.3	14.7	12.3	19.4	17.5	19.2	20.9	16.2
MEANS	14.4	10.3	12.4	11.2	16.1	15.5	16.4	17.1	13.9
NORMAL	15.5	11.9	13.3	12.4	17.0	16.5	18.3	18.1	15.6
YEARS OF NORMAL	1937	1923	1935	1928	1940 to 1956	1939	1940	1937	1935

NOTE: T I M E G . M . T .

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

MARCH 1961 . آذار ١٩٦١

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

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	1023.1	1026.0	1023.9	1021.4	1019.6	1020.8	1019.3	1017.9	1022.4
2	24.8	24.6	24.0	24.8	21.2	22.5	21.0	20.2	24.1
3	29.7	30.8	29.0	29.9	26.5	27.9	26.6	25.0	29.2
4	24.4	24.9	22.9	23.8	21.5	23.1	22.1	21.6	23.6
5	22.3	22.7	21.6	11.8	19.0	20.4	19.1	18.8	21.5
6	21.0	21.4	20.4	19.6	17.5	19.1	18.2	17.6	19.9
7	15.9	15.6	14.8	14.2	14.0	14.4	14.4	14.8	14.4
8	15.9	15.5	15.3	16.4	12.0	13.8	12.5	12.0	15.6
9	20.5	19.9	19.3	20.7	18.3	18.8	18.9	19.4	19.0
10	22.7	23.2	22.4	21.6	20.5	21.3	20.9	20.3	21.7
11	19.6	21.0	18.8	18.7	18.1	18.9	18.4	17.9	18.6
12	10.2	10.2	07.9	12.4	07.0	09.1	08.7	07.7	09.6
13	10.1	11.4	11.2	11.0	10.4	09.9	11.1	12.0	08.9
14	14.5	15.2	15.2	12.4	13.9	14.2	13.9	14.8	14.0
15	14.6	15.1	15.1	11.0	15.0	13.4	14.3	15.8	12.9
16	12.0	09.7	10.8	10.9	11.8	12.5	12.6	13.2	11.4
17	19.1	17.9	17.7	18.8	18.0	18.9	18.2	18.0	18.8
18	20.5	22.4	20.8	17.8	18.8	19.5	19.1	19.1	20.2
19	14.9	16.8	15.3	15.5	13.5	13.5	13.5	14.7	14.5
20	14.4	15.2	14.4	15.0	12.3	13.2	12.4	12.8	14.0
21	16.7	16.7	16.1	18.7	15.4	16.5	16.0	15.7	16.6
22	21.3	21.2	20.5	21.6	19.8	20.7	20.4	19.8	21.1
23	20.8	21.5	20.7	18.9	19.6	20.3	20.0	19.7	20.0
24	13.7	14.0	13.5	10.4	13.8	13.3	14.7	15.2	12.2
25	09.6	08.6	08.8	09.6	08.2	08.9	08.9	10.4	09.1
26	13.6	13.3	13.1	14.7	11.5	13.2	12.0	10.7	13.4
27	16.6	17.4	16.2	16.8	15.4	15.9	15.9	15.4	16.2
28	12.8	14.2	12.8	09.3	12.5	12.1	12.7	13.1	12.0
29	08.1	10.7	09.5	06.2	07.8	05.3	06.7	08.2	07.7
30	08.5	08.9	08.2	09.4	06.6	07.8	07.2	07.4	08.5
31	13.1	12.1	11.5	12.4	11.9	12.7	12.2	12.5	12.5
MEANS	1016.9	1017.4	1016.5	1016.0	1015.2	1015.6	1015.5	1015.5	1016.3
NORMAL	1014.7	1015.1	1014.3	1015.3	1014.5	1013.9	1014.2	1014.1	1014.6
1961 :									
HIGHEST	1031.4	1032.6	1030.6	1032.2	1028.0	1030.1	1028.4	1026.2	1031.5
TIME	0600	0600	0600	0600	0600	0900	0600	0900	0600
DAY	3rd.	3rd.	3rd.	3rd.	3rd.	3rd.	3rd.	3rd.	3rd.
LOWEST	1007.0	1005.3	1003.2	1004.3	1004.8	1004.3	1004.2	1004.0	1006.5
TIME	1200	1500	1200	0000	0300	1200	0000	1200	0300
DAY	12th	12th	12th	29th	30th	29th	30th	12th	13th
RECORDS:									
HIGHEST	1031.4	1032.6	1030.6	1032.2	1028.0	1030.1	1029.1	1028.4	Not
TIME	0600	0600	0600	0600	0600	0900	0600	0600	available
DAY	3rd.	3rd.	3rd.	3rd.	3rd.	3rd.	9th.	9th.	
YEAR	1961	1961	1961	1961	1961	1961	1959	1959	
LOWEST	996.1	996.2	999.7	998.2	1001.1	995.8	999.4	995.9	
TIME	1200	0200	0200	1300	0300	1300	1200	1300	
DAY	22nd	28th	28th	19th	5th	22nd	11th	22nd	
YEAR	1941	1944	1944	1940	1948	1941	1960	1941	

TABLE-3. المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE التاريخ	BAGH-DAD بغداد	MOSUL موصل	KIRKUK كركوك	RUTBAH رطبة	HAI حي	DIWA-NIYA ديوانية	NASI-RIYA ناصرية	BASRAH بصرة	HABBA-NIYA حبانية
1	43	78	47	61	42	43	35	48	45
2	45	78	48	59	46	46	43	47	46
3	46	70	56	59	48	47	38	56	44
4	41	65	41	52	43	45	35	64	43
5	42	74	41	47	37	53	33	61	45
6	48	73	41	49	35	44	34	62	48
7	37	63	41	43	37	36	34	57	36
8	47	57	52	54	42	43	42	62	49
9	49	61	52	50	43	48	39	63	45
10	46	57	42	48	38	33	41	59	40
11	42	57	32	52	60	59	81	85	47
12	90	67	66	82	91	92	86	89	88
13	76	78	79	66	66	77	57	74	78
14	75	81	71	66	64	73	62	68	78
15	52	72	59	49	55	54	50	63	58
16	50	68	63	49	51	54	47	61	53
17	47	82	64	48	45	48	39	66	47
18	48	78	59	41	41	50	43	66	55
19	43	61	51	51	51	52	59	85	60
20	72	66	54	51	71	68	72	91	69
21	53	62	57	52	60	55	52	77	53
22	51	75	54	50	54	62	41	67	54
23	50	66	54	34	54	65	44	71	48
24	40	54	44	22	52	69	41	59	39
25	41	53	48	44	46	70	30	54	42
26	48	73	53	53	51	56	39	72	45
27	47	64	46	43	49	50	38	54	49
28	41	56	40	37	52	44	41	53	50
29	49	70	57	50	63	54	52	70	66
30	62	74	70	55	64	64	52	66	71
31	56	71	70	55	60	53	43	54	75
MEANS	51	68	53	49	52	55	47	65	53
NORMAL	55	72	63	52	57	55	54	66	55
1961 :									
HIGHEST	95	100	93	100	94	97	96	98	100
TIME	0300	0300	1800	0300	0300	0300	1800	0300	0300
DAY	14th	5	12	12	12	12	11	15	14
LOWEST	18	22	14	11	20	15	14	24	10
TIME	1200	1200	0900	1200	1200	1200	1200	0900	1200
DAY	5th	6	11	24	7	19	25	31	24

NOTE: PERIOD OF NORMAL SEE PAGE (1)

آذار ١٩٦١

MARCH 1961 .

TABLE 4-a .

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	18.2	5.3	11.3	-2.6	13.0	1.3	17.5	4.4	12.2	1.6
2	18.9	9.2	14.2	-1.7	16.2	2.9	17.8	7.2	13.7	1.3
3	16.6	4.1	14.0	-0.2	17.5	0.4	16.5	2.0	13.7	-1.7
4	19.8	2.3	17.9	-0.1	20.9	2.6	22.2	2.5	16.0	-1.5
5	20.8	5.2	15.7	-0.8	17.2	3.2	19.5	3.3	16.1	1.6
6	21.2	3.7	17.0	-0.4	18.0	3.6	19.4	2.8	19.1	0.3
7	22.9	6.9	19.2	0.8	20.9	4.9	23.0	5.0	18.4	5.7
8	19.0	6.0	14.5	0.5	14.0	7.4	19.4	8.9	15.0	1.7
9	18.0	1.8	13.0	-1.6	12.4	0.8	15.0	3.0	15.0	0.2
10	18.3	3.7	14.1	-2.3	14.4	1.6	17.2	3.3	15.5	-1.4
11	18.2	3.5	16.6	-1.0	18.8	2.4	20.9	2.0	13.6	1.4
12	10.7	7.4	14.2	1.8	12.7	8.8	11.1	7.5	10.4	1.4
13	16.1	6.0	14.9	6.4	10.6	6.1	16.1	6.6	16.8	3.4
14	19.0	5.0	17.5	1.9	17.4	5.9	17.8	8.0	19.1	6.1
15	22.5	8.3	19.6	8.2	19.7	8.1	21.1	7.8	21.6	5.9
16	19.2	12.2	16.6	9.3	16.5	12.1	20.0	11.1	15.3	6.4
17	18.3	6.4	14.4	5.4	14.3	4.3	16.7	8.9	17.4	3.7
18	19.6	5.3	16.9	0.7	17.0	4.6	18.3	3.9	19.2	3.6
19	22.2	10.5	20.5	2.0	22.6	6.2	22.8	3.9	15.7	6.6
20	20.2	12.0	20.9	8.1	19.7	11.4	21.1	11.1	18.0	4.8
21	22.4	8.4	20.7	5.4	20.0	8.4	21.1	9.4	19.2	5.6
22	24.2	8.4	21.6	3.7	21.7	9.0	21.7	7.2	22.4	5.4
23	26.7	10.2	23.9	5.8	24.4	9.4	23.3	8.3	26.7	7.1
24	29.1	12.0	26.8	8.2	26.3	12.0	27.2	9.4	29.0	13.6
25	22.3	16.7	22.0	13.2	19.0	14.1	27.0	15.2	20.2	11.7
26	22.0	10.2	19.8	9.2	19.1	8.9	21.1	10.6	16.1	6.0
27	22.7	7.8	22.0	7.2	21.9	7.0	21.7	7.8	18.7	4.2
28	23.8	9.2	22.7	4.6	24.2	9.5	23.9	8.9	23.5	8.2
29	22.4	13.6	17.7	10.0	22.6	12.2	21.2	9.0	22.0	9.7
30	23.9	10.6	22.3	8.6	22.4	10.9	23.0	12.6	20.3	8.3
31	22.0	11.1	19.4	10.0	20.2	10.9	20.0	13.0	18.5	6.5
MEANS	20.7	7.8	18 .1	3.9	18.5	6.8	20.1	7.2	18.0	4.4
NORMAL	21.9	8.9	19.0	5.4	18,5	7.3	20.6	8.2	16.2	5.3
HIGHEST	32.7		30.5		30.0		34.3		35.0	
DAY	16th		27th		31st		16th		18th	
YEAR	1959		1937		1952		1959		1931	
LOWEST		-2.8		-3.9		-5.6		-2.2		-6.1
DAY		5th		3rd		14th		14th		14th
YEAR		1952		1948		1945		1945		1939

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.8	7.8	20.2	8.2	21.4	9.4	22.2	10.8	16.9	2.2
2	21.4	6.8	21.5	6.9	22.4	8.6	24.4	9.8	18.2	6.6
3	16.6	5.2	16.6	4.0	17.5	7.0	20.2	9.6	15.6	2.1
4	21.3	2.1	19.8	1.8	22.0	3.5	19.8	6.0	18.9	3.3
5	22.8	6.6	22.8	5.6	24.0	7.8	21.9	10.9	16.9	2.7
6	22.8	8.4	22.8	5.6	23.8	8.8	21.1	11.2	21.5	3.2
7	25.0	6.7	24.8	8.1	26.3	9.5	25.5	10.0	24.1	6.6
8	25.7	7.8	23.0	9.0	24.5	13.4	28.8	11.9	17.4	5.5
9	17.7	5.4	18.0	3.5	19.0	6.1	18.2	8.9	18.0	1.6
10	18.3	4.7	19.4	3.0	18.2	5.7	18.1	7.1	17.6	1.9
11	16.7	7.9	15.2	9.9	11.0	9.1	12.5	10.0	18.9	2.0
12	11.7	7.3	11.2	7.0	15.0	8.6	19.8	9.7	12.9	6.5
13	18.9	6.7	19.1	4.2	20.5	4.8	18.6	7.8	16.4	4.9
14	20.5	5.3	20.0	5.4	22.0	6.8	21.8	9.0	19.2	4.9
15	22.5	7.7	23.6	8.2	24.0	12.0	26.6	10.1	24.4	8.8
16	22.8	11.7	22.0	9.8	24.4	12.8	26.6	14.8	19.2	10.5
17	20.2	8.2	19.7	8.2	21.6	10.7	22.7	11.5	18.6	5.6
18	21.4	7.7	22.0	7.1	20.8	7.4	18.8	7.2	21.0	4.9
19	24.0	9.0	24.3	9.0	21.4	11.0	20.4	11.0	22.8	8.2
20	24.8	13.3	22.5	13.1	23.8	12.5	21.8	13.2	22.2	9.7
21	23.2	10.5	23.7	10,5	23.7	11.1	24.2	11.1	23.9	8.2
22	24.4	9.2	25.0	9.1	25.7	9.9	24.7	10.5	24.2	8.4
23	26.5	11.0	27.6	10.5	28.1	10.0	25.8	11.0	28.0	10.1
24	29.3	11.6	30.6	9.6	31.0	10.9	29.0	11.8	31.4	11.7
25	31.0	12.2	27.2	13.6	36.6	16.2	34.0	17.3	22.2	14.4
26	24.8	12.2	23.3	13.2	26.0	14.0	26.9	14.2	21.7	10.7
27	23.4	10.4	23.6	8.7	24.5	10.5	23.9	10.7	23.3	8.9
28	25.2	9.3	25.3	10.1	26.6	8.7	25.8	9.8	25.1	8.2
29	21.4	11.4	21.0	14.5	22.5	15.6	23.1	10.5	19.9	12.7
30	25.2	11.8	25.2	11.9	27.1	14.1	25.6	11.0	23.5	10.4
31	24.3	10.8	25.0	10.2	26.4	11.5	27.2	14.0	22.4	10.5
MEANS	22.4	8.6	22.1	8.3	23.3	9.9	23.2	10.7	20.8	6.9
NORMAL	23.3	9.9	23.5	8.6	24.1	10.8	24.2	12.7	22.6	9.1
HIGHEST	33.3		36.1		39.3		37.0		36.1	
DAY	14th		14th		16th		17th		21st	
YEAR	1944		1944		1959		1959		1958	
LOWEST		0.0		-3.2		0.0		1.9		-2.8
DAY		4th		1st		4th		9th		1st
YEAR		1959		1959		1959		1959		1938

NOTE: PERIODS OF NORMAL SEE PAGE (1) .

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

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	T I M E - G . M . T .								
	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	10.2	9.1	12.9	18.2	20.1	18.6	14.7	12.2	14.5
MOSUL	5.6	4.6	9.1	15.3	17.0	14.3	9.7	7.4	10.4
KIRKUK	8.8	8.0	13.1	16.3	17.2	14.6	11.3	9.7	12.4
KHANAQIN	...	8.8	14.1	18.3	19.1	16.7	12.8	....	14.9
RUTBAH	6.8	5.3	9.6	15.1	17.2	15.9	11.3	8.7	11.2
HAI	...	9.5	14.9	20.3	21.4	18.4	14.3	....	16.5
DIWANIYA	10.6	8.7	14.2	20.2	21.7	18.6	14.5	12.2	15.1
NASIRIYA	11.9	10.4	15.6	21.2	22.4	20.1	15.8	13.7	16.4
BASRAH	13.6	12.4	17.0	21=2	22.0	19.4	16.4	14.8	17.1
HABBANIYA	9.3	8.1	12.5	18.4	19.9	17.8	13.6	11.6	13.9

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	7.4	6.6	9.1	11.3	11.8	11.1	9.8	8.4	9.4
MOSUL	4.6	3.9	7.0	9.8	10.1	8.9	7.2	5.9	7.2
KIRKUK	5.9	5.4	8.6	10.0	10.0	9.1	7.6	6.7	7.9
KHANAQIN	...	6.6	9.6	11.2	11.7	10.8	8.9	...	9.8
RUTBAH	4.1	3.3	6.1	8.9	9.6	9.0	6.9	5.4	6.7
HAI	...	7.0	10.5	12.4	12.9	11.7	9.9	...	10.7
DIWANIYA	7.9	6.9	10.8	12.8	13.9	12.8	10.3	8.9	10.5
NASIRIYA	8.3	7.4	10.3	12.6	13.1	12.3	10.7	9.6	10.5
BASRAH	11.5	10.5	13.2	15.5	16.2	14.6	13.1	12.2	13.4
HABBANIYA	6.8	5.9	8.8	11.2	11.6	11.1	9.3	8.2	9.1

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	16.8	17.1	18.2	17.7	15.9	15.9	17.0	17.0	1017.0
MOSUL	17.9	18.3	18.8	17.7	15.8	15.7	17.0	17.5	1017.3
KIRKUK	16.9	17.2	17.3	16.7	14.8	15.2	16.8	17.0	1016.5
KHANAQIN	....	18.0	17.2	16.0	15.0	15.0	17.0	....	1016.4
RUTBAH	16.2	16.6	17.7	16.8	15.2	15.4	13.2	13.3	1015.6
HAI	....	15.3	16.5	15.9	14.1	14.2	15.4	....	1015.2
DIWANIYA	15.7	16.1	17.3	16.5	15.2	14.9	15.9	15.9	1015.9
NASIRIYA	15.3	15.6	16.9	16.1	14.4	14.6	15.8	15.7	1015.6
BASRAH	15.2	15.5	16.7	16.2	14.3	14.5	15.6	15.6	1015.5
HABBANIYA	16.1	16.5	17.7	17.0	15.2	15.2	16.1	16.2	1016.3

TABLE - 8 . المعدل الشهري للرطوبة النسبية (%)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	65	69	58	39	32	36	48	62	51
MOSUL	87	91	76	51	42	46	71	81	68
KIRKUK	65	67	52	41	35	45	58	63	53
KHANAQIN	..	74	53	38	37	44	57	..	51
RUTBAH	63	71	58	40	32	34	49	54	50
HAI	..	72	59	42	38	44	57	..	52
DIWANIYA	67	71	56	41	35	46	57	63	55
NASIRIYA	58	61	48	33	31	36	50	57	47
BASRAH	76	79	64	54	54	58	67	73	66
HABBANIYA	67	72	59	38	32	40	55	61	53

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TABLE - 9 .

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

T I M E - G . M . T .

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	8.2	8.0	8.7	8.1	7.3	7.5	8.3	8.2	8.0
MOSUL	8.1	8.0	8.9	8.7	8.0	7.6	8.7	8.5	8.3
KIRKUK	7.3	7.1	7.8	7.4	6.8	7.4	7.7	7.5	7.4
KHANAQIN	...	8.3	8.5	7.8	8.1	8.4	8.5	...	8.3
RUTBAH	6.2	6.3	6.9	6.7	6.1	6.0	6.5	6.5	6.4
HAI	...	8.7	10.1	9.8	9.5	9.5	9.5	...	9.5
DIWANIYA	8.8	8.4	10.1	9.9	9.2	9.9	9.5	9.2	9.4
NASIRIYA	8.2	7.9	8.4	7.9	7.8	8.2	9.0	8.9	8.3
BASRAH	12.0	11.4	12.4	13.3	14.0	12.9	12.5	12.3	12.6
HABBANIYA	8.0	7.8	8.7	7.9	7.2	8.1	8.6	8.4	8.1

TABLE - 10 .

المعدل الشهري لدرجة الندى (مئوي) (C°)

MONTHLY MEAN DEW POINT (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	3.6	3.2	4.6	3.3	1.8	2.2	3.7	3.7	3.3
MOSUL	3.4	3.2	4.8	4.5	3.2	2.3	4.4	4.1	3.7
KIRKUK	2.0	1.6	2.9	1.8	0.7	2.0	2.7	2.5	2.1
RUTBAH	0.1	0.3	1.2	1.7	-0.3	0.3	0.5	0.4	0.6
HAI	...	4.4	6.4	5.8	5.6	5.6	5.6	...	5.6
DIWANIYA	4.4	4.0	6.4	5.5	4.6	5.7	5.6	5.8	5.3
NASIRIYA	3.7	3.1	3.9	3.0	2.8	3.8	4.2	4.8	3.7
BASRAH	9.3	8.7	9.7	10.6	11.6	10.5	10.0	9.8	10.0
HABBANIYA	3.2	3.0	4.4	2.7	1.3	3.3	3.9	3.8	3.2

TABLE - 11 .

المعدل الشهري لكمية الغيوم الواطئة (بالاثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.5	0.6	0.6	1.0	1.5	1.0	0.4	0.5	0.8
MOSUL	2.9	3.6	2.9	3.1	3.3	2.9	2.9	2.8	3.1
KIRKUK	2.3	2.3	1.9	2.1	2.9	2.4	1.6	1.6	2.1
KHANAQIN	...	2.1	1.7	2.0	2.6	2.0	2.1	...	2.1
RUTBAH	0.9	0.7	1.2	1.7	3.0	2.1	1.5	1.1	1.5
HAI	...	0.6	0.8	1.2	1.0	1.4	0.5	...	0.9
DIWANIYA	0.6	0.6	0.8	0.8	1.1	0.9	0.5	0.5	0.7
NASIRIYA	0.3	0.4	0.7	0.7	1.0	0.5	0.4	0.3	0.6
BASRAH	0.6	0.6	0.9	1.0	1.2	1.0	0.5	0.7	0.8
HABBANIYA	0.3	0.6	0.3	0.6	1.4	1.2	0.4	0.5	0.7

TABLE - 12 .

المعدل الشهري لمجموع كمية الغيوم (بالاثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	1.7	2.3	2.5	2.8	3.9	3.7	2.0	1.7	2.6
MOSUL	3.7	4.4	4.5	4.6	5.2	4.6	3.9	3.5	4.3
KIRKUK	3.0	3.4	3.1	3.3	4.0	3.3	2.2	2.4	3.1
KHANAQIN	...	4.0	3.0	3.0	2.4	3.4	3.0	...	3.1
RUTBAH	1.8	2.4	2.9	3.1	4.0	3.8	2.6	2.3	2.9
HAI	...	3.6	3.6	3.7	3.6	4.4	3.3	...	3.7
DIWANIYA	2.3	2.6	2.5	3.3	3.0	3.3	2.5	2.4	2.7
NASIRIYA	1.8	2.2	2.6	3.2	3.4	3.6	1.9	2.0	2.6
BASRAH	3.4	3.0	3.5	3.4	4.0	4.3	2.7	2.7	3.4
HABBANIYA	2.2	2.3	2.7	2.7	3.5	3.3	2.0	2.0	2.6

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TABLE 13-a .

عدد تكرار رصدات الرياح السطحية :

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	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	
بغداد BAGHDAD	0000	5	3	2	4	1	1	3	6	8	18	6	1	0	7
	0300	6	3	1	4	1	1	4	5	6	18	6	1	0	7
	0600	5	3	1	5	1	1	2	11	2	17	12	1	0	9
	0900	6	3	3	4	0	1	5	9	1	13	15	2	0	11
	1200	8	2	1	3	3	1	3	10	0	14	15	2	0	11
	1500	8	0	1	4	3	0	6	9	0	23	8	0	0	8
	1800	7	1	3	4	0	2	2	5	7	17	7	0	0	6
	2100	6	1	2	6	1	0	3	5	7	18	5	1	0	6
	TOTAL	51	16	14	34	10	6	28	60	29	138	74	7	0	8
موصل MOSUL	0000	5	0	2	2	4	1	6	4	7	19	5	0	0	5
	0300	4	1	3	2	2	1	9	4	5	24	2	0	0	4
	0600	4	2	4	1	2	2	13	1	2	24	5	0	0	7
	0900	2	1	2	5	1	1	9	5	1	19	11	0	0	9
	1200	6	1	1	5	1	2	12	3	0	14	17	0	0	11
	1500	3	0	4	4	2	2	8	5	3	16	11	1	0	9
	1800	2	0	5	2	2	2	8	3	7	17	6	1	0	8
	2100	1	0	3	3	5	1	7	6	5	20	5	1	0	7
	TOTAL	27	5	24	24	23	12	72	31	30	153	62	3	0	8
كركوك KIRKUK	0000	3	7	4	3	1	0	0	0	13	16	2	0	0	4
	0300	0	3	4	2	3	0	0	0	19	10	2	0	0	3
	0600	0	5	2	8	2	2	0	0	12	16	2	1	0	5
	0900	1	1	1	1	12	4	4	0	7	21	3	0	0	5
	1200	1	0	3	0	9	4	10	2	2	23	6	0	0	6
	1500	1	2	2	3	4	3	9	1	6	22	3	0	0	5
	1800	4	2	4	5	2	0	3	0	11	20	0	0	0	3
	2100	3	8	6	3	1	1	0	1	8	22	1	0	0	4
	TOTAL	13	28	26	25	34	14	26	4	78	150	19	1	0	4
خانقين KHANAQIN	0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0300	0	0	14	1	5	0	0	0	11	19	0	1	0	3
	0600	0	0	7	0	6	0	0	0	18	12	0	1	0	3
	0900	0	0	2	0	7	1	10	3	8	20	1	2	0	6
	1200	2	0	2	0	6	0	12	6	3	26	2	0	0	5
	1500	4	0	1	0	7	0	11	2	6	25	0	0	0	4
	1800	1	0	6	2	2	0	2	1	17	14	0	0	0	2
	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	7	0	32	3	33	1	35	12	63	116	3	4	0	4
رطبة RUTBAH	0000	1	1	2	1	0	5	7	3	11	15	4	1	0	6
	0300	1	1	2	0	4	2	10	2	9	16	5	1	0	6
	0600	2	0	2	1	1	8	6	9	2	18	9	2	0	9
	0900	6	2	2	2	5	3	7	4	0	18	10	3	0	11
	1200	3	3	2	2	5	2	5	8	1	10	17	3	0	13
	1500	5	1	2	4	2	3	6	7	1	18	10	2	0	10
	1800	4	2	4	4	2	2	3	5	7	20	3	1	0	6
	2100	1	2	2	2	3	1	6	4	10	17	3	1	0	6
	TOTAL	23	12	16	16	22	26	50	42	41	132	61	14	0	7

MARCH 1961 ٥ — آذار ١٩٦١

TABLE 13-b ٥ — عدد تكرار رصدات الرياح السطحية

SURFACE-WIND ، NUMBER OF OSSERVATION OF

المحطة STATION	وقت كرينتش TIME GMT.	الاتجاه DIRECTION								السرعة بالعقد SPEED IN KNOTS					معدل السرعة بالعقد MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	
حي HAI	0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0300	0	0	5	1	1	7	5	9	8	10	4	1	0	6
	0600	1	0	7	3	0	1	7	8	5	13	11	3	0	9
	0900	3	0	1	5	2	1	4	12	3	7	13	7	1	14
	1200	0	0	2	3	1	0	7	14	4	7	15	6	1	14
	1500	0	0	5	0	1	1	6	14	5	13	11	1	1	9
	1800	0	0	5	0	1	0	11	11	3	16	10	2	0	9
	2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	4	0	25	12	5	9	40	68	28	74	62	19	3	10
ديوانية DIWANIYA	0000	13	1	3	2	0	1	5	1	5	22	4	0	0	6
	0300	8	3	1	3	3	0	8	3	2	24	5	0	0	6
	0600	8	1	2	1	1	2	10	4	2	18	11	0	0	9
	0900	7	2	1	2	1	2	9	7	0	20	10	1	0	11
	1200	7	2	3	1	2	2	7	3	0	13	15	2	0	7
	1500	7	1	5	1	0	2	7	8	0	23	7	1	0	6
	1800	9	1	7	0	0	0	7	2	0	25	4	0	0	5
	2100	8	1	6	2	0	0	6	2	6	21	4	0	0	5
	TOTAL	67	12	28	12	7	9	63	30	20	163	61	4	0	7
ناصرية NASIRIYA	0000	10	1	3	4	1	0	7	4	3	26	2	0	0	6
	0300	5	1	1	3	3	3	6	7	2	27	2	0	0	5
	0600	3	0	0	6	1	1	11	4	3	23	5	0	0	7
	0900	6	0	0	4	2	2	8	6	1	21	9	0	0	8
	1200	6	0	3	2	0	2	7	10	1	16	13	1	0	10
	1500	4	1	1	5	1	0	5	13	1	27	3	0	0	7
	1800	7	0	3	5	0	0	2	9	1	23	3	0	0	6
	2100	6	0	2	4	4	0	2	7	6	23	2	0	0	5
	TOTAL	49	3	13	33	12	8	48	60	22	186	39	1	0	7
بصرة BASRAH	0000	8	1	0	1	3	0	3	3	12	16	3	0	0	3
	0300	6	1	3	2	4	1	5	5	7	23	1	0	0	5
	0600	5	1	2	3	3	0	2	7	6	18	6	0	0	8
	0900	5	1	1	4	3	0	4	11	4	17	10	0	0	8
	1200	3	0	1	3	2	0	1	18	3	10	18	0	0	10
	1500	5	1	3	2	1	0	5	9	5	21	3	0	0	6
	1800	5	0	1	1	3	0	2	7	2	19	0	0	0	4
	2100	6	1	2	1	3	1	2	6	9	21	1	0	0	3
	TOTAL	43	6	13	14	23	2	22	65	60	145	43	0	0	5
حبانية HABBANIYA	0000	1	3	0	5	1	1	4	5	11	17	3	0	0	4
	0300	3	2	1	1	2	1	4	6	9	19	3	0	0	4
	0600	4	3	1	2	3	0	4	11	3	20	7	1	0	7
	0900	6	3	1	2	4	0	3	12	0	21	8	2	0	9
	1200	3	1	3	0	2	1	6	10	5	16	9	1	0	7
	1500	6	1	2	3	2	0	2	10	5	20	6	0	0	5
	1800	4	1	3	2	2	1	3	4	2	14	5	0	0	4
	2100	3	1	3	3	0	1	2	4	4	14	2	1	0	4
	TOTAL	30	15	14	17	16	5	28	32	39	141	43	5	0	6

MARCH 1961 .

آذار ١٩٦١

TABLE 14-a .

الهطول اليومي (بالملليمترات)

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBA	HAI	DIWA-NIYA	NASI-RIYA	BASRA	HABBA-NIYA
1	tr.				tr.					tr.
2										
3										
4										
5										
6										
7										
8			tr.		tr.			tr.	tr.	
9										
10							tr.			
11	8.8				17.8	3.3	tr.	7.8	3.5	12.7
12	9.3	tr.	9.7	31.3	tr.		5.9	1.4	0.2	4.4
13		tr.	tr.	2.1				tr.		
14		tr.	tr.	2.1						
15	tr.	1.9	tr.		tr.			tr.		tr.
16		2.5	8.6		tr.					
17										
18										
19	tr.				tr.	9.3			4.6	
20		tr.	tr.						0.4	tr.
21								tr.		
22										
23										
24		tr.								
25		0.4	tr.							
26									tr.	
27										
28	0.1		tr.		tr.	tr.				
29	tr.	0.2	2.4	0.3	tr.	1.7	0.1	4.8	1.0	0.4
30		5.5	0.8	1.2						tr.
31		1.7	tr.							
TOTAL	18.2	12.2	21.5	37.0	17.8	14.5	6.0	14.0	9.7	17.5
NORMAL	28.3	57.6	85.6	65.1	18.7	26.6	23.6	21.1	26.4	23.8
MAX. FALL IN 24 HOURS	55.6	53.2	97.6	93.4	17.8	49.1	66.2	35.6	50.9	35.4
DAY	16th	6th	1st	21st	11th	13th	27th	14th	5th	23rd.
YEAR	1938	1954	1953	1943	1961	1946	1955	1946	1946	1954

MARCH 1961 .

TABLE 14-b .

آذار ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	راوندوز	تل عويناات	سنجار	تللعفر	حويجة	جمجمال	بكرجو	حلبجة	جوارتا
DATE	RAWAN-DUZ	TEL AWAINAT	SINJAR	TELAAFAR	HAWIJA	CHAM-CHAMAL	BAKRAJO	HALAB-JA	CHU-ARTA
1									
2									
3									
4									
5									
6									
7									
8								1.5	7.6
9									
10									
11						2.0			
12					9.0	8.0	15.0	13.0	21.4
13								7.0	
14			1.6			10.8	2.0	4.5	
15	24.0		8.5	3.0					2.7
16	18.0	10.2	4.5	3.5			6.0		
17		7.6							
18									
19								5.0	
20								4.0	6.2
21							6.0	1.5	
22									
23						5.0			
24									
25			0.5	1.2					
26	15.0	3.8							
27									
28			3.5						
29			1.0		3.5	5.5	8.0	1.0	9.5
30	20.0	1.3	1.0	4.8		2.1	4.0		
31	10.0	2.5		3.0				4.0	
TOTAL	87.0	25.4	20.6	15.5	12.5	33.4	41.0	41.5	47.4

MARCH 1961 .

TABLE 14-e .

(12)

آذار ١٩٦١

الهطول اليومي (ملليمتر) .

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

التاريخ	صلاح الدين	سناط	دهوك	شقلاوة	سرسنك	بكرد	بيجي	طوز	حديثة
DATE	SALAH ADDIN	SANAT	DOHUK	SHAQ-LAWA	NERSANK	BINKIRD	BAIJI	TUZ	HADITHA
1	10.0			4.0					
2					1.0				
3									
4									
5									
6									
7					0.2				
8						1.5			
9									
10									
11									
12	0.2					2.5			
13	10.5			0.5			4.5	27.2	
14	50.2	12.8		1.5	2.0				
15	80.8	23.2	14.3	2.0	7.0				
16	60.4		16.4	17.4	6.2				
17	30.0								
18									
19									
20									
21									
22									
23									
24					0.4				
25			7.0		0.7				
26		7.8		14.0	0.4				
27		12.2		0.8					
28	10.0					4.0			
29	20.3	5.4					16.0		
30	40.8	27.1	8.7	4.5	6.1	16.0		5.6	10.0
31	50.4	3.7	8.0	4.0	1.5	2.5			
TOTAL	363.6	92.2	54.4	48.7	25.5	26.5	20.5	32.8	10.0

MARCH 1961 .

TABLE 14-a .

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

التاريخ	سامراء	المنصور	سعدية	بحطرية	بدرة	هيت	مندلي	كربلاء	هندية
DATE	SAMIRAA	MANSOUR	SAADIYA	BAK-OBA	BADRA	HIT	MAN-DILY	KAR-BALAA	HIN-DIYA
1	tr.								
2									
3									
4									
5									
6									
7									
8									
9									
10									
11	3.3			8.9	5.0	13.3	4.0		20.0
12	6.7	6.4		13.1	3.5	1.6	25.8		
13		27.9	14.0					37.3	
14									
15									
16									
17									
18									
19					1.0		7.0		
20	tr.								
21									
22									
23									
24									
25									
26									
27									
28	tr.					2.7			
29	3.8			1.6		6.8	8.2		
30			3.0						
31									
TOTAL	13.8	34.3	17.0	22.7	9.5	24.4	45.0	37.3	20.0

MARCH 1961 .

TABLE 14-B .

(14)

الهطول اليومي (بالملليمترات)

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

التاريخ	كوت	علي الغربي	شبكة	سلمان	قلعة صالح	سماوة	مقل	فاو	قلعة ديزة
DATE	KUT	ALI ALGHARBI	SHA-BICHA	SALMAN	QALAT SALIH	SAMAWA	MAQIL	FAO	QALAT DIZA
1									3.0
2									
3									
4									
5									
6									4.0
7									
8									
9									
10									
11	8.2	3.2		5.5	4.9	7.6		1.5	
12	1.2	0.5		4.6	2.5		2.3	2.8	
13			0.5				1.3		
14									
15									
16									6.0
17									3.0
18									
19									
20							4.1		
21							0.8	32.0	5.0
22									
23									
24									
25									
26									4.5
27									
28									3.0
29		0.8			5.2				
30							1.5		2.0
31									
TOTAL	9.4	4.5	0.5	10.1	12.6	7.6	10.0	36.3	30.5

MARCH 1961 (32) آذار ١٩٦١

DAILY PRECIPITATION (MILLIMETERS) ، tr. (0.05 mm

التاريخ	نقدة	كفر سكة	افراز	مرلة مور	كفرى	كوبيتجدو	عمادية	العظيم	طومان
DATE	KAFRA	KANI-SKYA	FIRAZ	MERGA-SUR	KOKPRI	KOLBI-NJANK	AMADIA	ALEI-THAIM	TUSAN
1									
2							6.0		
3									
4									
5									
6									
7							1.5		
8							tr.		
9						1.0	1.0		
10						1.0			
11	tr.							10.0	
12	5.5				37.0			19.0	
13		12.2				6.0	tr.		
14		11.3					7.0		0.5
15		5.0		5.0			33.0		10.0
16		4.0	6.4	20.3		17.0	24.0		10.5
17			7.9			2.0			
18									
19	tr.	3.0							
20		7.0						0.1	
21		4.0							
22						1.0			
23									
24									
25				24.2			6.5		4.2
26				30.5		1.0	1.5		
27									
28									tr.
29	9.0				8.0			1.6	tr.
30		3.0					19.5		7.3
31	tr.		6.0	42.1			7.0		3.5
TOTAL	14.5	47.5	20.3	122.1	45.0	29.0	107.0	30.7	36.0

MARCH 1961 .

TABLE 14-g .

الهطول اليومي (ملليمترات)

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

التاريخ	عين سفني	ديانا	طقطق	كلالا	قرة داغ	دوكان
DATE	AINSIFNI	DIANA	TAGTAT	GALALA	KARADAGH	DUKAN
1					tr.	
2		2.5		4.0		
3						
4						
5						
6						
7						
8			tr.			1.5
9				1.0		
10						
11						0.5
12			9.0			5.5
13					29.0	
14		1.0	tr.		5.1	
15		25.6	3.0	4.0		11.0
16		9.5	10.0	1.0		5.0
17				23.0	6.9	
18						
19	8.0					
20	6.0		tr.			
21					9.1	2.5
22					1.3	
23						
24						
25	4.0	2.5				
26		4.4				2.0
27						
28						
29			tr.			1.0
30		12.2	4.5		7.7	10.0
31	14.0	12.8	3.5	22.0	2.5	1.0
TOTAL	32.0	70.5	30.0	55.0	61.6	40.0

TABLE 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة

No. OF DAYS OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

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

TABLE 16 .

DURATION OF SUNSHINE : مدة سطوع الشمـــــس

STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DAY	No. OF DAYS WITHOUT SUNSHINE
	المجموع الشهري لسطوع الشمس بالساعات	اعلى مدة لسطوع الشمس في الايام		عدد الايام التي لم تظهر فيها الشمس
BAGHDAD	263.5	11.3	3	1
MOSUL	218.5	11.0	4	1
BASRAH	224.6	11.1	27	1
HABBANIYA	267.8	10.9	3,6&14	0

TABLE 17 .

MONTHLY MEAN TEMPERATURES OF : المعدل الشهري لحرارة

STATION	GRASS MINIMUM TEMPERATURE	EARTH TEMPERATURES 0.3 M	EARTH TEMPERATURES 1.3 M
	العشب	الترب	
BAGHDAD	5.7	15.8	18.6
MOSUL	...	11.7	13.7
KIRKUK	3.0	13.2	14.6
HAI	5.9	...	...
NASIRIYA	8.5	.....	....
BASRAH	6.7	....	....
HABBANIYA	5.8	15.8	17.4

TABLE 18-a. (18) Month: March 1961 .

RADIOSNDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE $N_h C_L h C_M C_H$	ww	sqp	PPP	TT	Td	dd	ff	1000-mbs., HHH	TT	Td	850-mbs., HHH	TT	Td	700-mbs., HHH	TT	Td	600-mbs., HHH	TT	Td
1	00901	03	705	237	07	51	02	14	180	08	00	510	01	60	042	57	73	280	63	23
2	45670	03	708	220	11	00	03	12	180	11	00	523	05	53	076	56	60	263	65	68
3	00900	02	400	296	06	51	30	06	233	08	00	552	02	67	096	55	83	301	60	94
4	00900	02	807	276	06	52	31	12	210	06	54	549	05	65	120	00	84	338	57	90
5	00907	02	802	221	06	51	33	06	171	12	56	515	05	63	077	51	65	288	59	82
6	00901	01	705	222	06	01	32	03	170	10	53	517	05	62	079	53	74	281	60	84
7	00900	02	711	186	09	02	02	05	134	11	50	486	06	66	046	54	69	251	59	75
8	00900	02	001	144	13	51	01	10	112	14	01	471	08	59	042	53	66	245	61	-
9	00900	02	102	188	05	00	30	02	149	09	51	475	00	86	012	56	87	201	63	08
10	00900	02	000	220	06	51	00	00	174	10	50	504	01	71	036	55	-	229	62	-
11	20982	03	708	219	09	53	36	06	153	10	56	489	03	70	042	55	88	244	60	83
12	856xx	61	714	154	08	07	29	12	No Radio Sonde											
13	15670	01	703	085	08	06	19	08	062	08	07	400	03	52	950	54	58	150	60	65
14	10940	03	203	122	08	06	09	02	095	09	06	436	04	58	982	57	64	170	65	75
15	00900	02	704	154	11	07	13	10	133	12	-	485	06	-	038	56	-	235	60	-
16	00900	01	818	095	14	05	12	20	087	15	03	451	09	55	024	52	65	226	62	78
17	00900	02	313	165	09	04	24	04	132	11	01	475	03	61	011	58	71	197	64	78
18	00900	06	807	209	08	05	00	00	167	11	01	506	03	59	061	54	68	261	61	75
19	40930	03	714	174	12	03	01	10	143	13	05	500	07	57	074	52	65	274	62	63
20	00903	03	704	138	13	08	06	02	113	14	08	469	07	55	035	54	61	232	65	72
21	00900	01	701	144	11	08	00	00	121	12	07	471	06	55	025	57	61	212	64	72
22	00900	01	102	196	11	04	27	02	159	14	07	518	07	01	081	63	59	289	69	68
23	10920	02	807	213	12	08	00	00	177	18	06	547	08	52	130	51	64	344	58	70
24	00900	02	717	174	15	07	09	02	149	18	07	533	12	54	128	02	66	353	56	66
25	00900	02	713	080	19	04	15	24	068	18	11	468	17	57	088	05	69	322	54	75
26	00900	02	291	108	13	07	00	00	092	14	07	453	07	54	015	53	70	221	60	81
27	00900	02	603	150	10	03	28	03	123	12	02	480	06	54	038	51	65	247	59	77
28	00906	03	815	156	11	05	00	00	135	15	04	488	04	58	057	51	67	266	59	74
29	00902	03	703	082	15	04	12	10	072	17	00	460	15	56	066	03	63	291	57	68
30	11630	01	518	071	14	10	06	08	070	14	11	439	09	04	017	52	55	224	60	68
31	10930	06	205	102	14	09	31	12	062	14	11	433	09	01	011	53	59	218	59	69

TABLE 16-b .

Month: March 1961

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.			400-mbs.			300-mbs.			200-mbs.			150-mbs.		
	HHH	TT	TD	HHH	TT	TD	HHH	TT	TD	HHH	TT	TD	HHH	TT	TD
1	590	72	92	204	86	01	223	07	08	913	04	19	733	11	-
2	586	70	77	214	81	90	253	88	96	937	01	10	779	07	15
3	584	70	04	301	84	-	297	92	-	966	04	-	855	07	-
4	735	66	94	384	76	01	408	89	11	112	08	-	940	09	-
5	669	69	93	294	80	04	284	92	12	916	06	-	708	12	-
6	669	69	92	310	77	99	321	90	08	977	05	-	907	08	-
7	639	69	04	363	80	96	269	92	06	895	07	19	713	08	21
8	635	66	87	289	97	96	289	98	07	916	07	22	286	09	-
9	570	70	-	194	79	-	198	93	-	338	03	-	650	05	-
10	599	72	-	209	83	-	191	93	-	819	10	-	619	08	-
11	624	70	80	243	79	94	243	94	07	995	08	-	387	10	-
12	No Observation														
13	525	71	78	135	83	89	095	96	05	766	98	10	652	02	15
14	626	74	97	199	87	93	046	90	11	859	02	13	524	03	15
15	626	67	-	257	81	-	231	97	-	906	05	-	745	06	-
16	590	73	89	192	84	00	152	97	12	800	01	16	662	04	19
17	560	73	89	151	86	01	105	96	05	805	98	07	678	04	20
18	641	70	85	258	82	98	256	98	06	910	05	17	745	05	19
19	660	70	78	264	82	94	247	96	03	906	04	10	772	02	11
20	595	73	87	193	85	99	155	95	10	832	98	13	720	02	17
21	563	76	85	138	89	96	072	95	05	771	96	06	651	02	11
22	672	69	77	289	92	98	257	97	02	047	03	08	697	03	08
23	738	67	78	366	78	90	364	95	05	957	11	22	758	07	18
24	752	66	77	394	78	91	384	95	09	978	13	6	768	09	-
25	727	65	80	367	79	92	366	96	06	981	10	20	771	10	20
26	598	70	94	210	83	98	170	98	10	769	10	22	578	06	18
27	636	70	87	244	87	99	204	96	10	832	05	16	666	09	18
28	650	68	81	276	80	90	252	97	06	816	14	23	608	06	15
29	676	70	76	292	81	87	253	99	04	845	04	10	689	06	13
30	610	69	77	237	79	90	226	96	06	900	99	09	769	01	-
31	604	68	81	226	81	94	211	93	06	895	98	10	775	02	13

TABLE - 19 .

Month: March 1961 .

AVERAGE HEIGHT AND TEMPERATURES FOR SELECTED STATIONS

850 , 700 & 500 - mbs. , Surface , 0001 G . M . T .

STATION	62366			17506			17130			40754			40650			40427			40477			40596	
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	150	06	16	147	04	15	149	-1	12	148	05	10	149	06	12	147	14	18	152	14	13	152	19	11
700-mbs.	308	-1	19	303	-5	19	317	-9	21	304	-4	17	305	-3	20	313	05	32	315	06	14	316	11	11
500-mbs.	567	-18	41	560	-22	32	553	-25	33	561	-21	36	564	-19	34	579	-13	45	581	-11	27	588	-6	19

850 , 700 & 500 - mbs. , Surface , 1200 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596	
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	150	06	16	149	04	13	149	02	15	143	07	13	149	07	12	151	15	19	152	15	12	152	20	13
700-mbs.	308	00	21	304	-5	18	302	-7	22	304	-4	17	306	-3	20	313	05	32	316	06	13	316	10	12
500-mbs.	570	-17	39	560	-22	35	554	-24	32	580	-21	37	581	-20	41	579	-14	48	582	-10	26	587	-6	15

NOTE: THE ABOVE INFORMATIONS ARE EXTRACTED BY INTERPOLATION FROM UPPER AIR MAPS .

FORMS 20-c.

BAGHDAD AIRPORT

Month: March 1961 .

Frequency of horizontal visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M											1	1	1												3
>500 -1000M					1	1				1				1		1									5
>1000 -1500M					2												1				1				4
>1500 -3000M				1	1	4	3	3	2	3	1	1	1	2	2	1	2	1	1	1	1				31
>3 -5KM		1	1	1	4	3	3	2	1		2			1	2	5	1	1	1	1		1	1	1	33
>5 -10KM	3	2	2	7	8	5	6	2	4	2		2	4	2	4	9	14	4	1	1	1	1	1	1	86
>10 -15KM	5	5	9	9	6	6	6	9	7	6	10	11	5	6	7	12	11	19	14	12	7	7	7	7	203
>15KM	23	23	19	13	9	12	13	15	17	19	17	16	20	19	16	3	2	6	14	16	21	22	22	22	379
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE:

In fields containing two number the first one gives the cases with dust in the air. the second number shows the total.

Frequency of different heights of cloud - base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -60M																									
>60 -150M																									
>150 -300M																									
>300 -500M								1	1	1	1	1	1	1						1	1				9
>500 -900M						1	1	1		1	1	3	3	4	2	1	1		1	1	1	1			23
>900	31	31	31	31	31	30	30	29	30	29	29	27	27	26	29	30	30	31	30	29	29	30	31	31	712

TABLE 20-b

BASRAH AIRPORT

Month: March 1961 .

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M																									
>1000 -1500M													1/1												1
>1500 -3000M	1/1	1/1	1/1	1/1	2/2	1/1	1/2	1/2	1/2	1/2	3/3	4/4	3/3	1/2	2/2	2/2	1/1			1/1	1/1	1/1	1/1		36
>3 -5KM				1/1							2/2	2/2	2/2	3/3	2/2	1/1	2/2	2/2	1/1	1/1	1/1	1/1	1/1	1/1	23
>5 -10KM			1/1	3/3	4/4	2/6	2/3	3/5	4/5	1/3	1/3	2/4	3/3	5/5	3/4	4/5	2/3	1/3	1/4	3/3	1/1	1/1		1/1	71
>10 -15KM	6/6	7/7	6/6	9/9	9/9	6/6	5/5	5/5	4/4	4/4	8/8	2/2	6/6	5/5	7/7	8/8	6/6	5/5	4/4	5/5	6/6	6/6	7/7	7/7	163
>15	24	23	23	17	16	18	20	21	20	20	15	19	16	16	16	15	19	21	22	21	22	22	22	22	470
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air. the second number anows the total.

Frequency of different heights of cloud-base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																1									1
>300 -500M							1							1											2
>500 -900M								1	3	2	1	1	1	2	1		1	1	1	2	2	2	2		23
900M	13	13	14	12	15	16	16	13	12	11	14	15	16	15	15	19	18	14	11	9	9	10	11	10	321

TABLE 21-a .

Month: March 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
													1										1					1	1	
															1									1						2
>500-900																											1			1
																		1		1			1		1	1		1	3	1
																		1			1	1		2		1	4	1	1	8
<5/8 OR *														1	3		1	3	3	7	6	5	9	6	23	13	12	31	31	30
>900					1		1		1				2	1	1			4	2	3	9	6	3	12	18	19	3	29	27	30
AND ≥5/8						1			2				1		9	1	1	10	1	1	32	13	7	61	14	21	123	30	30	238
TOTAL														1	3		1	3	3	7	6	5	9	6	23	13	13	31	31	31
					1		1		1				3	1	1			5	2	4	9	6	5	12	19	20	3	31	31	31
						1			2				1		10	1	1	11	1	1	33	14	7	64	14	22	127	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	GMT.
18	21	To	

To=Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 21-b. (24) Month: March 1961 .

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																								1						1
																								1						1
																								1						1
>300-500																														
																								1						1
>500-900																			1			1	2					2	2	
																					1			3	1		1	1		5
<5/8 OR *															2	1	2			3	3	6	9	5	24	17	20	31	31	30
>900											1		2		2		2		5	3	5	2	4	8	20	19	15	29	29	30
AND ≥5/8												1	1	1	8	1	1	7	5	1	25	3	6	43	20	22	157	30	30	241
															2	1	2			3	3	6	9	6	24	17	20	31	31	31
TOTAL											1		2		2		2		8	3	5	3	6	9	20	19	15	31	31	31
												1	1	1	8	1	1	7	8	1	31	3	6	48	21	22	158	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00 03 06

09 12 15 GMT.

18 21 To

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

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. 4
Vol. 24
Month April
Year 1961

العـــدد ٤
مجـــلد ٢٤
الشهر نيسان
السنة ١٩٦١

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الأنواء الجوية

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 شهرية لشهر نيسان ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR APRIL 1961.

مجلد ٢٤ ، عدد (٤) نيسان ١٩٦١

VOLUME 24 , No. (4) April 1961.

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لمحة عامة عن التقرير الشهـــ

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" " " " الرطوبـــ

" " " للضغط الجوي على سطح البحـــ

" " " الرطوبة النسبيـــ

" " " لضغط البخـــ

" " " لدرجة النـــ

" " " لكمية الغيوم الواطئـــ

" " " لمجموع كمية الغيـــ

عدد تكرار رصدات الرياح السطحيـــ

الهطـــ

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نيسان ١٩٦١ - شهر ممطر وغير مستقر

كانت الميزة البارزة لهذا الشهر هو تأثر جو العراق بالانظمة الجوية المنخفضة الجبهات الباردة والحارة والمتولدة فوق البحر الابيض المتوسط مارة فوق العراق فسببت حدوث جو غير مستقر في معظم ايام الشهر حيث حدثت عدة عواصف ترابية وعدة وهطلت الامطار بغزارة في معظم المناطق في صبيح ١١ يوم من الشهر، وفي الايام ٢، ٣، ٤، ١٤، ١٥، ١٦، ١٧، ١٨، ١٩، ٢٠، ٢٥ و ٢٦ منه ساد العراق جو مستقر بصورة عامة.

وكانت الرياح في الايام المستقرة تتراوح بين الشمالية والشمالية الغربية الخفيفة الى معتدلة السرعة واما في الجو الغير المستقر كانت الرياح جنوبية الى جنوبية غربية شديدة السرعة، هذا وقد سجل مقياس الرياح في بغداد ٧١ عقدة في الساعة في يوم ٢٩ منه.

وكانت درجات الحرارة قريبة من معدلاتها وما يقابلها من السنة الماضية وكان اشهر الايام هو يومي ٢٦ و ٢٧ منه في جميع المناطق حيث سجلت درجات الحرارة في الموصل ٣٤ درجة مئوية في يوم ٢٦ منه وفي بغداد ٣٧,٣ درجة مئوية في يوم ٢٧ منه وفي البصرة ٣٩,٣ درجة مئوية في يوم ٢٧ منه وهي فوق المعدل.

ومجموع الامطار بلغت في بغداد ٥٠,٥ ملليمترا وفي الموصل ٤٥,٠ ملليمترا وفي البصرة ١٩,١ ملليمترا وهي اكثر من المعدل وما يقابلها من السنة الماضية في معظم الجهات.

APRIL 1961 RAINY AND UNSETTLED WEATHER

The most outstanding feature of the month was successive centres of low pressure coming from East Mediterranean Sea accompanied with cold and warm fronts which caused unsettled weather with occurrences of dust storms and thunderstorms and heavy rainfall in most districts. On the days 2, 3, 4, 11, 14 to 20, 25 and 26th settled weather generally prevailed over most parts of the Country.

The winds were light to moderate N-NW on settled weather days while it was strong S-SE winds during unsettled weather. The Anemometer of Baghdad recorded 71 Knots per hour on 29th of the month.

The temperatures were above normal and above its value in same month of last year. The hotest days of the month were on 26th and 27th in all districts. The thermometer reading in Mosul 34.0 C on 26th, in Baghdad 37.3 C on 27th and in Basrah 39.3 C on 27th.

The total rainfall in Mosul 45.0 mms, in Baghdad 50.5 mms. and in Basrah 19.1 mms. above the normal and its value on the same month of last year.

APRIL 1961 .

(1)

نيسان ١٩٦١

TABLE - 1 .

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	15.5	10.3	11.1	11.4	18.6	17.6	19.5	20.3	15.4
2	14.6	10.9	13.8	14.5	16.9	15.8	16.3	18.0	15.0
3	16.7	14.3	16.5	15.9	18.6	17.9	18.5	17.9	17.1
4	19.3	16.8	19.0	18.0	21.4	19.6	20.4	20.0	16.2
5	16.6	14.7	14.9	15.6	15.0	15.2	16.5	17.2	16.0
6	17.8	13.6	14.6	13.0	19.6	18.6	19.2	19.7	16.9
7	15.9	14.2	14.9	12.7	18.4	18.3	18.9	19.2	15.9
8	13.9	15.4	14.2	12.7	19.2	18.9	19.0	19.5	17.6
9	16.2	16.1	14.2	13.3	17.4	19.4	19.7	17.1	16.6
10	17.4	16.6	16.5	16.1	18.9	19.1	19.7	20.2	18.8
11	19.4	16.6	17.6	17.9	20.8	20.8	21.1	20.1	20.1
12	22.4	16.1	18.6	23.3	23.7	22.7	23.5	22.4	24.7
13	18.1	17.2	16.9	19.3	22.1	22.1	25.1	26.4	22.1
14	20.4	14.7	17.7	16.5	24.8	24.0	24.1	23.1	21.6
15	21.0	14.5	16.2	16.3	23.3	22.2	24.0	26.0	20.1
16	20.4	14.8	16.6	16.4	22.8	21.4	22.9	23.2	20.1
17	19.5	15.3	17.4	16.0	21.5	19.1	20.5	21.8	19.2
18	20.2	17.0	19.6	18.1	22.6	19.7	20.7	21.7	20.6
19	22.9	18.5	22.1	20.3	24.6	22.8	23.2	23.1	23.7
20	25.2	20.5	23.7	11.4	26.0	24.8	25.0	24.5	26.0
21	26.6	22.0	24.6	23.1	28.0	25.8	26.9	26.6	26.5
22	26.4	20.7	22.0	21.9	27.1	27.6	28.3	27.5	27.4
23	26.9	23.0	24.5	21.5	27.6	25.2	28.7	26.8	26.9
24	27.4	22.5	25.3	21.0	27.6	26.1	27.0	27.1	27.7
25	28.1	22.0	24.2	22.5	28.3	27.5	27.8	28.9	27.0
26	30.4	24.6	26.9	24.3	29.8	29.2	29.8	29.1	29.2
27	29.8	23.5	27.9	26.8	30.3	29.4	20.1	31.0	27.6
28	28.6	24.0	25.8	20.7	26.9	27.6	26.8	28.2	27.2
29	24.5	20.6	22.0	21.1	29.0	28.1	27.8	27.8	25.3
30	23.2	21.1	21.7	19.4	26.8	24.9	27.1	30.3	23.1
MEANS	21.5	17.7	19.4	18.0	23.3	22.4	22.9	23.5	21.7
NORMAL	21.5	17.1	19.1	18.1	23.1	22.6	22.6	24.1	22.7
YEARS OF NORMAL	1937	1923	1935	1928 TO 1956	1940	1939	1940	1937	1935

NOTE:

T I M E - G.M.T.

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

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

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	1013.6	1015.0	1014.1	1015.3	1012.5	1013.3	1012.8	1013.6	1013.4
2	17.0	17.6	16.3	18.0	15.5	16.6	15.8	15.5	16.6
3	15.3	16.9	15.4	14.4	13.8	14.9	14.5	14.4	15.0
4	13.2	13.8	13.0	10.3	12.5	12.5	12.8	13.2	12.4
5	11.1	13.2	12.2	07.2	09.9	09.1	09.3	10.0	10.3
6	10.3	12.5	11.6	09.3	08.9	08.8	08.3	09.1	10.1
7	10.7	11.3	09.6	09.6	08.5	07.6	08.4	07.2	09.0
8	07.0	08.2	06.7	09.0	05.7	06.6	06.5	06.6	07.0
9	09.5	10.4	10.8	11.0	08.8	08.7	08.6	10.7	08.8
10	14.3	13.9	13.4	14.7	12.7	13.3	12.6	12.2	13.1
11	16.5	16.6	14.5	15.3	15.1	15.9	15.3	15.0	13.8
12	12.4	12.7	11.0	07.9	12.4	11.9	12.7	13.2	12.8
13	09.3	07.2	06.5	07.2	09.0	08.9	07.9	08.9	08.1
14	08.8	09.9	06.7	09.2	07.7	08.0	08.1	08.3	08.2
15	10.5	11.3	08.7	11.6	08.6	09.6	08.9	09.1	10.1
16	12.6	14.9	11.2	14.2	10.6	11.7	10.8	10.4	12.2
17	14.9	20.2	15.3	17.9	11.8	13.5	11.9	11.8	15.6
18	15.7	17.3	14.6	17.8	13.7	15.0	14.0	13.1	15.8
19	15.2	15.0	12.5	15.9	13.9	14.9	14.4	14.3	14.8
20	15.0	16.1	13.5	14.1	14.6	15.0	15.0	14.9	14.1
21	13.8	14.5	12.0	10.7	13.0	13.0	13.3	13.6	12.7
22	10.1	11.8	09.4	07.5	10.6	09.4	10.4	11.7	08.7
23	08.1	10.8	06.9	08.2	07.7	07.1	07.9	10.0	07.4
24	08.8	09.6	08.7	08.7	08.2	07.8	08.0	09.2	08.1
25	11.4	14.4	14.4	12.3	12.0	11.1	11.5	13.5	12.0
26	13.4	15.2	14.7	12.4	12.6	11.7	12.4	13.3	12.6
27	09.7	09.2	10.4	07.2	08.7	08.9	09.2	09.8	08.9
28	05.5	06.5	06.7	06.6	06.3	05.3	07.3	08.4	05.4
29	05.5	07.4	06.9	07.0	05.2	05.2	05.8	07.8	05.4
30	12.8	12.7	12.8	14.7	11.0	11.9	10.4	12.1	12.8
MEANS	1011.7	1012.9	1011.4	1011.5	1010.7	1010.9	1010.8	1011.4	1011.2
NORMAL	1011.8	1012.4	1011.7	1012.7	1011.5	1010.6	1010.9	1011.2	1011.4
1961 :									
HIGHEST	1018.3	1020.2	1018.0	1019.1	1016.5	1018.5	1016.8	1016.4	1018.2
TIME	0600	0300	2100	0600	0600	0600	0600	0600	0600
DAY	2nd	17	2	2	2	2	2	2	2
LOWEST	1003.3	1002.3	1001.8	1004.8	1002.3	1002.5	1002.9	1005.3	1001.9
TIME	1500	1500	1500	1200	1500	1500	1500	1200	1500
DAY	28th	28	28	12	29	29	29	8	28
RECORDS :									
HIGHEST	1026.6	1027.9	1026.5	1028.7	1024.8	1025.8	1025.9	1024.7	NOT AVAI-LABLE
TIME	0900	0300	2100	0600	0900	2100	2100	1800	
DAY	26th	2	1	1	1	1	1	1	
YEAR	1956	1956	1956	1956	1956	1956	1956	1956	
LOWEST	996.3	997.3	997.2	998.4	997.1	997.6	998.5	999.3	
TIME	1500	1800	1500	1200	1500	1200	1500	1200	
DAY	29th	19	29	19	29	29	29	13	
YEAR	1956	1958	1956	1958	1956	1956	1958	1952	

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TABLE - 3 .

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المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 6 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	هي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	61	88	76	60	54	48	39	51	61
2	56	79	66	44	57	53	48	64	50
3	52	57	45	39	52	47	37	64	53
4	43	53	40	37	48	45	44	51	46
5	65	71	68	66	80	76	68	72	73
6	71	82	78	83	73	75	72	79	75
7	77	86	75	86	79	72	72	85	79
8	66	72	77	87	68	67	63	74	71
9	85	66	83	70	82	66	65	80	80
10	77	63	71	70	74	68	67	74	78
11	67	78	67	61	64	56	60	70	58
12	52	77	62	43	57	47	46	62	39
13	76	74	80	48	62	56	39	45	60
14	61	81	65	55	53	47	53	66	54
15	52	82	70	50	57	49	40	55	59
16	43	62	48	38	48	46	43	48	40
17	27	54	26	30	46	39	35	55	31
18	34	61	32	33	39	43	35	59	38
19	33	68	39	35	37	36	30	53	34
20	32	57	38	33	40	32	29	57	36
21	28	52	35	32	35	32	28	56	30
22	38	63	44	54	43	34	25	41	38
23	42	68	45	31	47	49	40	50	39
24	42	60	46	43	48	54	48	50	41
25	44	64	51	42	51	49	52	62	48
26	33	54	50	37	47	43	43	50	45
27	37	67	37	35	47	42	38	40	48
28	42	62	47	54	52	49	58	57	54
29	66	75	65	53	55	51	56	67	72
30	56	61	58	47	56	51	46	67	49
MEANS	52	68	56	50	55	51	47	60	53
NORMAL	46	67	53	43	48	47	46	58	45
1961 :									
HIGHEST	99	98	96	100	94	94	90	96	100
TIME	2100	0300	1800	0300	0300	0300	0300	0300	0300
DAY	9th	30	5	9	7	6	10	9	10
LOWEST	10	18	11	11	21	15	10	20	9
TIME	1200	1200	0900	1200	1200	1200	1200	0900	1200
DAY	17th	21	17	21	18	26	19	27	21

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TABLE 4-B — درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	بغداد		موصل		كركوك		رطبة		خانقين	
	BAGHDAD		MOSUL		KIRKUK		RUTBAH		KHANAQIN	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	23.6	11.2	15.9	7.8	19.0	9.8	16.6	6.4	22.2	8.0
2	21.8	7.8	19.8	3.6	20.8	6.0	20.4	5.8	19.4	5.5
3	24.0	7.2	23.3	4.7	23.7	8.5	24.2	8.6	25.6	9.0
4	26.0	9.1	25.7	8.4	25.9	11.9	24.6	11.5	26.5	9.4
5	21.2	16.2	19.5	12.9	18.9	13.2	22.4	14.4	23.9	12.2
6	22.4	12.8	17.9	11.1	18.8	11.2	19.5	9.1	22.2	14.2
7	19.8	13.8	19.5	9.4	21.4	11.7	17.0	10.0	22.2	11.7
8	23.8	11.5	20.7	11.2	22.9	10.2	16.9	9.8	24.0	9.4
9	23.0	13.8	23.4	9.8	19.5	10.8	18.8	8.2	21.1	11.2
10	23.6	11.6	24.5	8.8	22.3	9.7	22.5	9.6	22.2	11.7
11	26.4	12.8	24.6	9.4	25.7	11.8	25.8	9.7	24.7	10.6
12	29.3	14.5	19.8	12.8	23.4	13.2	32.0	14.4	26.7	12.2
13	22.0	17.5	24.5	12.9	20.2	14.0	24.4	15.4	21.1	15.6
14	28.4	12.3	22.0	11.3	25.0	12.9	2[illegible].3	10.0	26.4	13.3
15	27.3	15.3	22.9	9.0	23.4	10.6	22.5	10.1	24.4	11.4
16	27.7	12.6	23.7	6.7	23.4	10.0	23.0	8.0	24.0	10.6
17	26.0	12.8	24.7	4.6	23.2	10.6	22.3	7.8	24.4	10.6
18	28.3	10.8	28.0	5.9	27.2	9.9	26.1	8.3	26.3	9.4
19	32.3	12.5	29.9	7.9	30.7	12.7	28.7	10.8	29.0	10.0
20	33.9	16.0	32.2	9.0	31.3	14.6	30.5	11.0	32.0	12.8
21	34.1	17.6	33.1	9.8	32.1	15.9	33.0	10.4	31.7	14.0
22	32.4	20.8	30.4	13.3	26.5	17.4	30.5	15.0	28.9	11.0
23	33.6	19.8	30.1	13.9	31.3	15.2	29.6	12.3	33.3	18.4
24	34.5	19.0	32.4	11.8	32.5	19.5	29.8	11.4	33.5	19.4
25	34.0	18.8	30.6	13.8	32.7	17.7	30.5	14.8	33.4	20.0
26	36.7	24.3	34.0	14.1	34.8	18.0	33.0	13.7	35.0	19.0
27	37.3	22.2	31.6	15.8	34.7	21.8	33.2	20.1	36.0	18.2
28	34.1	24.2	33.9	17.8	34.0	20.8	26.8	15.6	33.4	17.4
29	34.2	20.6	30.7	14.0	28.1	15.5	27.7	14.0	32.2	17.8
30	34.3	17.2	28.8	13.3	28.2	14.3	26.1	12.0	28.0	15.2
MEANS	28.5	15.2	25.9	10.5	25.9	13.3	25.4	11.3	27.2	13.1
NORMAL	28.8	14.3	25.3	9.6	25.4	12.3	25.8	10.2	27.3	13.4
HIGHEST	41.7		40.0		39.6		39.0		39.0	
DAY	28th		?		28th		23rd		27th	
YEAR	1958		1928		19 8		1959		1958	
LOWEST		1.2		-1.6		1.1		-2.0		0.5
DAY		1st		1st		18th		1st		1st
YEAR		1956		1956		1947		1956		1956

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TABLE 4-b .

درجات الحرارة العظمى و الصغرى اليومية (سنتيغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	الحي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	25.0	8.3	24.6	9.3	27.6	10.5	19.3	10.4	21.8	11.0
2	22.3	8.7	22.2	9.2	23.0	10.0	23.0	11.6	22.2	8.4
3	24.8	8.8	25.6	9.7	26.4	9.6	24.4	10.1	25.0	7.6
4	27.7	9.6	28.4	9.0	28.5	10.6	27.2	10.7	27.1	8.9
5	16.6	14.5	18.0	13.6	17.2	16.3	21.5	16.4	18.9	15.8
6	24.0	13.3	24.0	12.0	26.0	11.5	27.2	13.6	21.6	12.2
7	22.4	13.5	25.4	14.2	23.4	15.1	23.2	14.3	21.1	12.7
8	25.0	11.8	24.0	13.4	25.0	11.4	25.4	14.0	23.4	12.4
9	24.1	12.2	26.2	12.5	28.0	13.1	26.7	12.9	24.0	13.1
10	23.0	13.2	25.0	13.9	26.0	13.6	26.1	14.3	25.0	13.1
11	27.2	13.0	28.2	13.5	27.6	14.0	25.7	14.8	27.8	13.5
12	30.8	14.3	30.5	12.5	30.7	13.7	29.1	14.2	32.2	17.4
13	25.4	19.0	27.6	19.6	31.0	22.4	32.6	19.1	26.0	18.7
14	31.8	16.5	32.0	16.3	30.0	19.0	28.5	17.4	30.0	15.0
15	27.8	15.8	28.5	15.2	32.5	16.0	32.0	16.8	27.0	12.1
16	27.4	14.4	28.6	15.6	29.5	17.6	28.4	16.5	28.3	12.5
17	27.3	11.2	27.5	11.0	28.5	12.5	27.5	16.6	26.7	12.2
18	29.0	12.2	29.0	9.6	29.2	10.5	28.5	13.2	29.6	10.4
19	31.5	11.6	32.3	11.8	31.7	13.4	30.7	13.0	32.8	15.0
20	33.8	14.0	34.5	12.6	33.8	14.0	32.7	15.1	34.5	16.8
21	34.8	15.8	34.6	15.7	35.4	16.1	34.2	12.2	35.6	16.8
22	32.4	20.2	33.8	21.6	35.5	22.8	34.5	21.1	33.9	20.6
23	33.4	18.2	35.4	19.2	36.5	22.7	33.0	20.7	34.6	19.0
24	32.7	20.2	35.0	18.6	34.0	22.0	33.8	18.8	35.4	19.0
25	33.7	20.0	35.5	19.0	34.6	20.5	35.2	19.5	33.4	19.5
26	36.4	19.3	37.0	21.0	37.0	22.0	37.2	19.1	36.2	21.0
27	38.2	20.7	39.4	19.5	41.0	22.0	39.3	21.5	38.1	19.1
28	31.6	21.0	32.9	21.7	34.0	23.5	32.5	18.1	35.2	22.1
29	35.4	21.2	35.5	21.4	37.8	21.0	38.5	24.0	32.8	20.1
30	32.0	19.6	31.0	19.4	35.4	22.0	34.0	21.8	29.5	16.1
MEANS	28.9	15.1	29.7	15.6	31.2	16.3	29.7	16.1	29.0	15.0
NORMAL	29.8	14.3	30.1	14.0	30.8	16.4	30.2	17.7	29.7	14.8
HIGHEST	40.3		42.0		42.8		43.8		41.1	
DAY	23rd		10th		28th		25th		30th	
YEAR	1959		1958		1942		1954		1944	
LOWEST		1.9		1.6		3.6		2.8		2.2
DAY		1st		2nd		2nd		4th		1&2nd
YEAR		1956		1946		1956		1944		1956

TABLE - 5 المعدل الشهري لدرجات الحرارة الجافة (بالدرجات المئوية)

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	17.3	16.0	21.2	25.6	27.1	25.6	21.3	19.1	21.7
MOSUL	12.1	11.3	17.9	23.7	24.9	21.6	16.4	14.0	17.7
KIRKUK	15.3	14.6	20.3	23.7	24.4	21.7	18.2	16.6	19.4
KHANAQIN	.....	14.7	21.5	25.3	25.4	22.6	19.1	.....	20.1
RUTBAH	13.2	12.2	17.7	22.4	24.4	23.0	18.2	15.4	18.3
HAI	.....	15.7	22.6	27.3	28.0	25.2	20.6	.....	23.2
DIWANIYA	16.9	15.7	24.3	28.1	29.4	26.2	21.3	18.9	22.6
NASIRIYA	18.2	17.0	25.3	28.2	29.8	26.6	22.4	20.2	23.2
BASRAH	18.5	17.8	24.0	28.3	28.8	25.9	22.5	20.8	23.3
HABBANIYA	16.9	15.9	24.3	26.2	27.9	25.6	20.9	19.2	21.7

TABLE - 6 المعدل الشهري لدرجات الحرارة للبصلة الرطبة (بالدرجات المئوية)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	13.4	12.9	15.6	16.7	16.7	16.4	15.5	14.1	15.2
MOSUL	11.1	10.5	14.2	15.7	15.6	14.6	13.2	12.4	13.4
KIRKUK	11.8	11.4	14.6	15.9	15.9	15.0	13.6	12.7	13.9
KHANAQIN	.....	11.7	12.4	16.3	16.6	16.0	14.3	.....	14.6
RUTBAH	9.1	9.1	12.2	14.6	15.2	14.6	12.5	11.0	12.4
HAI	.....	13.3	17.1	16.6	18.4	17.6	15.5	.....	16.8
DIWANIYA	13.3	12.6	15.7	18.6	19.9	18.4	15.5	14.4	15.9
NASIRIYA	13.5	12.9	16.5	17.8	17.9	17.4	16.6	15.3	16.0
BASRAH	16.3	15.1	18.5	19.9	19.8	19.0	17.8	17.2	18.0
HABBANIYA	13.4	13.2	15.7	16.9	17.0	16.8	15.5	14.5	15.4

TABLE - 7 المعدل الشهري للضغط الجوي على سطح البحر (بالملبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	means
BAGHDAD	11.5	11.9	12.9	12.7	11.0	10.6	11.6	11.8	1011.8
MOSUL	13.3	13.7	14.9	13.1	11.4	11.0	12.9	13.5	1012.9
KIRKUK	11.6	12.0	12.1	11.8	10.0	09.9	11.7	11.9	1011.4
KHANAQIN	.....	13.2	12.3	11.5	10.3	11.0	12.4	.....	1011.8
RUTBAH	11.5	11.4	12.4	11.9	10.8	10.6	10.5	11.7	1011.4
HAI	.....	10.8	11.8	11.5	09.9	09.6	10.6	.....	1010.7
DIWANIYA	10.4	11.2	12.3	11.7	10.4	09.6	10.8	10.9	1010.9
NASIRIYA	10.5	10.9	12.1	11.6	09.9	09.8	10.8	10.9	1010.8
BASRAH	10.7	11.2	12.4	12.1	10.5	10.3	11.2	11.3	1011.2
HABBANIYA	11.1	11.5	12.4	11.8	10.4	09.9	11.1	11.4	1011.2

TABLE - 8 المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	65	71	55	40	32	39	54	60	52
MOSUL	89	92	69	45	40	49	74	84	68
KIRKUK	66	68	54	45	42	47	61	64	56
KHANAQIN	..	71	53	37	38	52	60	..	52
RUTBAH	64	66	53	41	35	38	58	57	52
HAI	..	75	56	45	42	49	61	..	55
DIWANIYA	67	69	52	37	38	41	53	59	52
NASIRIYA	60	62	48	33	28	38	51	58	47
BASRAH	75	75	57	45	42	51	64	69	60
HABBANIYA	67	72	54	38	32	40	57	61	53

TABLE - 9 . المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.3	13.0	13.5	12.2	12.1	11.6	13.2	12.8	12.6
MOSUL	12.7	12.4	14.2	12.9	11.9	12.2	13.5	13.5	12.9
KIRKUK	11.3	11.2	12.3	12.3	11.9	11.8	12.2	11.9	11.9
KHANAQIN	....	11.7	12.9	11.5	11.9	13.1	12.8	....	12.3
RUTBAH	9.5	9.3	10.2	10.3	10.1	9.9	9.8	9.8	9.9
HAI	....	13.7	15.7	15.6	14.9	15.4	14.6	....	15.0
DIWANIYA	12.9	12.6	13.9	13.4	12.2	12.4	13.2	13.9	13.1
NASIRIYA	12.6	12.1	13.6	12.2	11.2	12.7	14.2	13.7	12.8
BASRAH	16.5	15.4	17.0	16.6	16.4	16.8	16.9	16.8	16.5
HABBANIYA	12.9	13.3	13.5	12.1	10.9	12.0	13.6	12.8	12.6

TABLE - 10 . المعدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.8	10.3	10.9	9.0	6.8	8.1	10.6	10.0	[illegible]
MOSUL	10.2	9.8	11.8	10.2	8.9	9.3	11.1	11.1	[illegible]
KIRKUK	8.2	8.2	9.3	9.1	8.9	8.8	9.4	9.0	[illegible]
RUTBAH	5.7	5.7	6.8	7.3	6.5	6.1	6.0	6.0	6.3
HAI	....	11.2	13.5	13.4	12.7	13.0	12.2	....	13.0
DIWANIYA	10.2	9.8	11.5	11.2	9.2	9.5	10.5	10.4	10.3
NASIRIYA	9.8	9.4	10.8	9.0	7.7	9.6	11.6	11.1	9.9
BASRAH	14.3	13.1	14.7	14.3	13.0	14.1	14.6	14.7	14.2
HABBANIYA	10.2	10.7	10.9	8.8	7.1	9.4	11.0	10.5	9.8

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.6	1.1	1.3	1.4	2.2	1.7	0.6	0.9	1.2
MOSUL	3.8	3.1	3.3	2.9	3.4	2.8	2.9	3.1	3.2
KIRKUK	1.8	1.9	1.8	2.4	2.9	2.4	2.1	1.9	2.2
KHANAQIN	...	2.4	2.0	2.2	3.0	3.1	2.5	...	2.5
RUTBAH	1.0	1.3	1.2	1.8	2.3	2.1	1.2	1.2	1.[illegible]
HAI	...	0.6	1.5	2.1	1.4	1.3	1.3	...	1.[illegible]
DIWANIYA	0.6	0.3	1.2	1.6	1.7	1.2	0.8	0.1	0.[illegible]
NASIRIYA	0.5	0.6	1.1	1.3	1.7	1.6	0.9	0.7	1.[illegible]
BASRAH	0.4	0.8	0.3	0.8	1.3	2.0	1.0	0.7	0.[illegible]
HABBANIYA	0.7	0.9	0.9	0.9	1.9	1.6	1.3	0.7	1.[illegible]

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

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	2.7	3.7	3.7	4.0	4.4	3.9	2.5	2.9	3.5
MOSUL	4.7	4.6	4.8	5.0	5.3	4.7	4.2	4.3	4.7
KIRKUK	3.3	4.0	3.5	4.0	4.7	4.2	3.3	3.3	3.8
KHANAQIN	...	4.0	4.0	4.1	3.3	5.1	3.4	...	4.0
RUTBAH	2.3	3.7	3.4	4.0	4.1	4.0	2.7	2.7	3.4
HAI	...	3.3	3.7	4.0	4.3	4.6	3.6	...	3.9
DIWANIYA	2.1	2.8	2.8	3.2	3.7	4.0	2.6	2.2	2.9
NASIRIYA	1.8	3.0	3.0	3.2	3.8	4.0	2.3	2.1	2.9
BASRAH	2.6	2.9	3.0	3.5	3.8	4.0	3.2	3.0	3.3
HABBANIYA	2.4	3.4	3.3	3.5	4.6	3.7	2.8	2.6	3.3

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TABLE 13-a .

نيسان ١٩٦١

عدد قراءات رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

STATION المحطة	TIME GMT. وقت غرينتش	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+	
بغداد BAGHDAD	0000	3	3	5	4	2	0	2	3	9	15	6	0	0	5
	0300	5	4	5	6	2	0	2	1	8	16	6	0	0	6
	0600	1	4	5	7	3	1	1	2	3	20	6	1	0	9
	0900	2	1	4	9	6	1	2	3	0	18	12	0	0	10
	1200	2	2	2	6	6	1	5	6	0	16	14	0	0	11
	1500	4	0	2	12	3	0	2	7	0	14	16	0	0	10
	1800	2	3	3	8	0	0	0	2	10	14	5	1	0	6
	2100	2	1	2	12	1	0	2	0	10	12	7	1	0	6
	TOTAL	21	12	26	64	10	3	18	32	40	125	72	3	0	[illegible]
موصل MOSUL	0000	4	2	5	2	3	0	2	2	10	20	0	0	0	[illegible]
	0300	6	2	6	4	2	0	3	1	6	24	0	0	0	[illegible]
	0600	6	3	6	4	1	1	2	1	3	22	5	0	0	8
	0900	3	0	4	11	7	0	3	2	0	17	13	0	0	10
	1200	1	1	7	5	8	1	4	3	0	12	16	2	0	12
	1500	4	3	9	5	3	1	2	0	3	16	11	0	0	8
	1800	0	3	9	4	5	0	3	1	5	17	6	2	0	8
	2100	1	2	12	2	0	1	3	1	8	17	4	1	0	6
	TOTAL	25	16	58	37	29	4	25	11	25	145	55	5	0	[illegible]
كركوك KIRKUK	0000	1	12	8	3	0	0	0	0	6	19	5	0	0	6
	0300	1	12	5	2	0	0	0	0	10	18	2	0	0	4
	0600	0	5	10	6	2	1	0	0	8	18	4	0	0	5
	0900	4	4	4	7	13	1	0	1	7	23	4	0	0	7
	1200	0	3	3	5	8	4	3	0	4	22	4	1	0	6
	1500	5	2	2	3	3	3	2	1	8	19	3	0	0	4
	1800	3	7	5	1	4	0	2	0	11	15	4	0	0	5
	2100	2	12	3	4	1	0	1	1	3	22	4	1	0	6
	TOTAL	13	52	47	28	28	9	8	3	52	156	30	2	0	[illegible]
خانقين KHANAQIN	0300	0	0	14	1	3	0	3	0	9	19	1	0	1	[illegible]
	0600	1	0	13	1	5	0	1	0	9	20	0	1	0	[illegible]
	0900	4	2	1	1	12	0	2	2	6	22	2	0	0	[illegible]
	1200	6	0	1	0	11	0	9	1	2	21	7	0	0	[illegible]
	1500	4	1	2	1	7	1	7	2	5	23	0	2	0	[illegible]
	1800	0	1	11	0	4	0	0	1	13	17	0	0	0	3
	TOTAL	15	4	42	4	42	1	22	6	44	122	10	3	1	5
رطبة RUTBAH	0000	1	0	0	2	2	3	5	5	12	16	1	1	0	5
	0300	2	1	0	0	4	5	8	4	6	21	3	0	0	5
	0600	3	0	1	3	3	2	7	8	3	18	9	0	0	8
	0900	3	2	1	1	5	2	8	8	0	21	9	0	0	9
	1200	3	1	0	0	4	4	10	7	1	12	14	3	0	12
	1500	6	2	2	1	2	0	8	7	2	21	5	2	0	10
	1800	6	1	3	1	1	0	5	8	5	21	4	0	0	6
	2100	5	0	2	2	2	2	4	3	10	17	3	0	0	4
	TOTAL	29	7	9	10	23	18	55	50	39	147	48	6	0	7

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TABLE 13-b ،

نيسان ١٩٦١ (ب)

عدد تكرار رصدات الرياح السطحية ،

SURFACE-WIND , NUMBER OF OBSERVATIONS OF :

STATION المحطة	TIME GMT. وقت كرينتش	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	≥34	MEAN V.K. المعدل بالعقد
HAI حي	0300	1	0	10	5	0	0	7	2	5	21	4	0	0	5
	0600	1	0	6	7	3	0	7	2	4	12	13	1	0	9
	0900	2	0	5	7	2	1	4	5	4	13	9	4	0	12
	1200	1	3	7	3	0	2	3	5	6	9	14	1	0	10
	1500	3	1	10	1	1	1	4	6	6	18	4	2	0	7
	1800	0	1	10	3	1	0	2	8	5	17	6	2	0	8
	TOTAL	8	5	48	26	6	4	24	28	30	90	50	10	0	8
DIWANIYA ديوانية	0000	3	1	6	3	2	1	7	0	7	21	2	0	0	5
	0300	4	1	5	2	0	2	4	2	8	20	2	0	0	5
	0600	4	3	3	2	1	1	7	1	1	22	7	0	0	8
	0900	4	1	3	6	2	2	8	0	0	18	12	0	0	10
	1200	7	1	5	1	3	1	5	0	0	17	13	0	0	10
	1500	4	2	6	2	3	2	2	2	2	22	4	2	0	8
	1800	9	2	10	1	0	1	3	0	4	16	9	1	0	7
	2100	3	1	8	5	0	0	5	1	7	20	3	0	0	6
	TOTAL	38	12	48	22	15	13	41	22	29	156	52	3	0	7
NASIRIYA ناصرية	0000	4	1	2	6	7	0	6	2	2	26	2	0	0	6
	0300	0	1	4	5	6	2	5	2	3	25	0	0	0	6
	0600	0	1	3	2	9	6	5	3	1	22	5	0	0	6
	0900	1	0	3	3	4	5	8	5	1	26	3	0	0	7
	1200	3	1	2	7	0	4	5	6	2	20	8	0	0	9
	1500	8	3	3	6	0	0	3	3	2	20	8	0	0	8
	1800	7	2	5	9	1	0	0	3	1	21	6	0	0	7
	2100	2	2	2	9	5	0	0	5	5	21	4	0	0	6
	TOTAL	25	11	23	53	20	22	28	35	23	181	36	0	0	7
BASRAH بصرة	0000	2	1	4	3	4	0	2	0	14	15	1	0	0	2
	0300	1	1	8	0	3	0	1	1	9	19	2	0	0	3
	0600	2	1	1	4	3	2	5	1	6	20	4	0	0	4
	0900	1	1	2	6	2	3	3	1	2	23	5	0	0	6
	1200	5	1	0	7	3	2	0	1	2	20	8	0	0	7
	1500	1	2	3	6	5	0	0	1	4	24	1	1	0	5
	1800	1	0	2	6	2	1	1	5	10	14	6	0	0	8
	2100	1	0	3	1	9	0	1	4	11	17	1	1	0	9
	TOTAL	14	7	22	33	33	8	19	16	58	152	28	2	0	6
HABBANIYA حبانية	0000	2	1	3	2	0	0	2	1	19	11	0	0	0	1
	0300	1	1	2	0	3	1	0	1	17	13	0	0	0	2
	0600	1	2	2	1	2	1	2	1	9	16	2	0	0	3
	0900	1	1	2	3	3	2	2	2	6	19	4	0	0	5
	1200	3	0	2	2	2	1	4	2	8	17	7	0	0	7
	1500	3	1	4	4	1	0	3	3	3	16	4	0	0	4
	1800	1	0	4	4	1	0	0	1	19	8	3	0	0	3
	2100	2	2	2	4	1	0	1	0	18	9	3	0	0	1
	TOTAL	14	8	22	19	21	6	15	28	107	109	23	0	0	3

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TABLE 14-a .

نيسان ١٩٦١

المطر اليومي (بالملليمترات)

DAILY PRECIPITATION (MILLIMETERS) . tr. = 0.5 mm.

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	الناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRA	HABBA-NIYA
1	5.2	3.9	1.7	4.0	tr.			tr.	tr.	
2										
3										
4					tr.	tr.	3.3			
5	5.4	9.2	12.5	4.0	6.6	15.2	7.0	4.6	11.7	2.9
6		9.3		2.5	2.9	0.1			0.2	7.4
7	6.0	0.7	3.3	38.2	2.1		0.5	1.4	0.1	2.1
8			7.9	6.6	6.6		tr.		tr.	
9	12.3		1.2	11.1	tr.	7.0		3.8	2.4	11.6
10	tr.			4.3						tr.
11		0.4	tr.							
12	2.8	3.7	tr.				tr.			0.7
13	2.0	2.7	3.3	10.2		1.0	tr.	tr.		
14		6.6	5.3					tr.		
15							tr.			
16										
17										
18										
19										
20										
21	1.1				tr.		tr.			0.2
22	2.4	3.4	5.5		2.2	tr.	tr.	tr.		tr.
23				1.0			9.3	0.5	tr.	
24	1.2		tr.							tr.
25			0.4							
26										
27		1.2	tr.			1.3	tr.	tr.		1.6
28	6.8	0.2	18.9		1.9	tr.		3.6	tr.	2.0
29	5.3	3.7	tr.	14.2		tr.		tr.	4.7	3.0
30										
TOTAL	50.5	45.0	60.0	96.1	21.4	24.6	20.1	13.9	19.1	31.5
NORMAL	15.5	51.6	48.8	35.4	20.1	9.6	17.5	15.7	23.3	13.0
MAX. FALL IN 24 HOURS	25.0	74.8	40.9	52.0	43.7	25.0	48.0	25.5	87.5	30.0
DAY	16th	11	6	9	10	22	16	7	9	7
YEAR	1956	1931	1939	1953	1946	1946	1956	1946	1941	1955

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TABLE 14-b .

نيسان ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	تل عوينات	سنجار	تلعفر	خريجة	حمجمال	بكرجو	حلبجة	جوارتا	دهوك
DATE	TEL AWAINAT	SINJAR	TELAA-FAR	HAFIJA	CHAM-CHAMAL	BAKRAJO	HALABJA	CHUARTA	DUHOK
1			9.0	4.2	5.2	20.0	13.0	4.5	
2					0.7			17.5	
3									
4					3.9				
5		6.0	4.0	8.8	10.0		16.0	9.5	2.8
6	3.6	3.5		3.0	5.0	13.0	4.0		
7	1.5		2.3			7.0	12.0	7.3	
8				4.0					
9				2.1		7.0	5.0	9.5	
10							1.0		
11									
12			1.0		8.1	8.0	13.0	14.2	2.0
13	3.8	1.0			10.0	6.0	25.0		
14	6.4	8.5	1.5	11.7	10.0	32.0	6.0	83.0	17.0
15						1.0			
16									
17									
18									
19									
20									
21									
22	3.3	28.0	3.0	5.8	5.0	9.0	7.0		1.3
23					3.7		1.0	16.5	
24						5.0		17.2	
25							3.5		
26							1.5		
27					7.0				4.0
28				9.2		51.0	49.5	45.5	
29				2.6	25.2	22.0	25.0	12.2	
30									
TOTAL	18.6	47.0	20.8	50.6	97.9	181.0	186.5	236.4	39.0

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(12)

نيسان ١٩٦١

TABLE 14-c .

الهطول اليومي (ملليمترات)

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

التاريخ	شقلاوة	سرسنك	بنكرد	بيجي	طور	سامراء	المنصور	سعدية	بعقوبة
DATE	SHAQ-LAWA	SERSANK	BINKIRD	BAIJI	TUZ	SAMIRAA	ALMAN-SOOR	SAIDIYA	BAKO-BA
1	20.0	18.0	7.0		7.1	3.5			
2	10.0			1.5					3.0
3	8.5								
4									
5			7.2		15.2	10.0			3.1
6				6.5					
7	2.0	7.0	1.1				31.8	21.0	13.[illegible]
8					5.1				[illegible]
9				11.9	7.9				[illegible]
10									
11		2.0							
12		14.0	9.1						3.3
13	20.0	30.0	27.5		23.6				
14	21.0	14.0	53.1		6.6				
15				12.5					
16									
17									
18									
19									
20									
21			7.3			tr.			
22		26.0				tr.			10.0
23	16.5		8.5	4.5			8.9		
24			18.4			tr.			
25									
26									
27	6.5	12.0				tr.			
28		12.0	52.0		31.2	12.5		15.0	1.8
29	46.0		20.5	4.5	9.4				7.8
30	12.5								
TOTAL	163.0	135.0	211.7	41.4	106.1	26.0	40.7	36.0	54.6

APRIL 1961

TABLE 14-A

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

DATE	BADRA	NIT	MANDILY	HINDIYA	ALLAL-GHARBI	SALMAN	SAMAWA	MAQIL	FAO
1									
2									
3									
4									
5	5.0	14.8	2.5	9.4	10.6		5.1		4.3
6	10.0	6.5	24.5		8.5	3.0		12.2	4.0
7	5.0			6.5		5.0			
8					8.7				
9	1.5		8.0		7.5				
10					1.7			6.5	2.6
11									
12									
13			27.0		1.8				
14									
15									
16									
17									
18									
19									
20									
21									
22									
23					3.7				
24									
25									
26									
27									
28		0.5							
29	19.0		10.5						2.2
30								4.1	
TOTAL	40.5	21.8	72.5	15.9	41.8	8.0	5.1	22.9	14.9

APRIL 1961 .

TABLE 14-e .

نيسان ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	قلعة دزة	طقطق	ك ٢	مخمور	طوسان	العظيم	عمادية	دوكان	ديانا
DATE	QALAT DIZA	TAGTAG	K2	MAKH-MOOR	TUSAN	ALEI-THAIM	AMADIA	DUKAN	DIANA
1		5.0		12.0	tr.		3.0	13.5	10.5
2						18.5			
3	9.0								
4				8.2					
5	3.0	13.0	10.0	6.4	1.0	8.0	tr.		1.0
6		4.5			tr.	4.3	tr.	5.0	
7		3.0			5.0	7.5		2.5	
8		tr.	13.0			7.8		0.5	
9						2.4	2.0	1.0	
10						1.0	1.0		
11					1.0		1.5	tr.	
12	10.0	tr.			1.9	3.0	10.0	2.5	15.6
13	35.0	24.0			4.3	10.3	22.5	37.0	20.8
14	30.0	21.0	9.0		2.5		9.0	19.0	20.0
15				38.3				2.5	2.3
16									
17									
18				20.1					
19									
20									
21									
22		8.0	3.0		3.0	3.0	13.0	8.0	11.2
23	2.5			22.3				5.5	
24		36.0						17.0	6.0
25	10.0			32.4				1.0	
26									
27					2.2	tr.	7.0		3.6
28		59.0	3.0			11.5	8.0	82.5	31.9
29	11.0	14.5				8.3		21.0	15.8
30	15.0						2.0	4.0	3.5
TOTAL	125.5	188.0	38.0	139.7	20.9	86.6	79.0	222.5	142.2

APRIL 1961 .

TABLE 14-f .

نيسان ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	كاني سبكا	كلالا	كوسنجق	قرة داغ	كفري	افراز	راوندوز	مركة سور	فتحة
DATE	KANI-SPIKA	GALALA	KOI-SINJANK	KARA-DAGH	KOFRI	IFRAZ	RAWAN-DUZ	MERG-ASCOR	FATHA
1			1.0	tr.	15.0		11.0	14.0	1.2
2	17.3		13.0	23.0		13.6			
3									
4	9.0								tr.
5		12.0			14.0				7.5
6	5.0		6.0	19.0	13.0	3.5			tr.
7	14.0		7.0	10.5	2.0	3.9			2.0
8			2.0	3.3	5.0	5.2			1.2
9	5.3		3.0						2.2
10		6.0	tr.	5.7					
11									tr.
12	56.2	12.0	tr.				25.0	2.0	
13	32.0		4.0	36.0	10.0	2.8	18.0	20.0	
14	22.0	44.0	23.0	26.7		3.6	24.0	25.0	3.0
15	6.0		26.0	4.3		21.7	0.8	10.0	
16									
17									
18									
19									
20									
21									
22	7.0				4.0		18.0		3.5
23			7.0	11.4		8.3			
24	6.3	41.0		7.9			0.8		
25			20.0	2.0		4.5			
26			3.0						
27	3.0						0.9	13.0	tr.
28	30.0			2.4	18.0		30.0	17.0	10.5
29	17.0	49.0	45.0	40.0	15.0	7.8	22.0	22.0	tr.
30	4.0			15.2		9.3	0.8	24.0	
TOTAL	234.1	164.0	160.0	207.4	97.0	84.2	151.3	147.0	34.7

TABLE-15.

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة :

No. OF DAYS OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية :

المحطة	مطر	ثلج	برد	عواصف رعدية	ضباب	زوابع ترابية	السماء غائمة	السماء صاحية	صقيع
STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLOUDY	STATE OF SKY CLEAR	GROUND FROST
BAGHDAD	11	0	1	9	0	1	7	2	0
MOSUL	12	0	0	5	1	0	6	8	0
KIRKUK	10	0	0	11	0	0	5	6	0
KHANAQIN	10	0	0	6	0	1	7	6	0
RUTBAH	6	0	0	4	0	3	9	2	0
HAI	4	0	0	4	0	0	8	5	0
DIWANIYA	4	0	0	1	0	1	7	2	0
NASIRIYA	5	0	0	6	0	0	10	3	0
BASRAH	4	0	0	3	0	3	7	2	0
HABBANIYA	10	0	0	8	0	0	8	3	0

TABLE - 16 .

DURATION OF SUNSHINE : مدة سطوع الشمس :

المحطة	المجموع الشهري لسطوع الشمس بالساعات	اكبر يوم لسطوع الشمس		عدد الايام التي لم يحدث السطوع
STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	261.4	12.8	18	1
MOSUL	242.1	13.2	30	1
BASRAH	253.9	12.5	20	1
HABBANIYA	245.1	12.4	14,15&16	1

TABLE - 17 .

MONTHLY MEAN TEMPERATURES OF : المعدلات الشهرية

المحطة	حرارة الحشيش الصغرى	حرارة التربة	
STATION	GRASS MINIMUM C° TEMPERATURES	EARTH TEMPERATURES C° 0.3 M	1.2 M
BAGHDAD	12.9	21.0	20.6
MOSUL	....	19.3	16.8
KIRKUK	10.2	18.7	17.1
HAI	11.9	....	....
DIWANIYA	....	....	....
NASIRIYA	15.4	....	....
BASRAH	12.1	....	....
HABBANIYA	14.3	23.5	20.4

TABLE 18-a .

Months April 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE								1000-mbs.			850-mbs.			700-mbs.			600-mbs.		
	$N_h C_L h C_M C_H$	ww	appp	PPP	TT	Td	dd	ff	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	10941	02	708	138	13	06	10	02	119	15	07	480	07	55	034	58	60	286	62	78
2	00900	02	703	155	09	07	26	04	125	11	08	470	05	65	022	53	66	225	61	74
3	00908	03	805	165	10	05	00	00	No RADIOSONDE											
4	00900	02	604	144	12	06	00	00	116	16	10	432	12	59	084	00	52	238	59	63
5	3552x	03	704	106	19	02	13	06	086	15	04	476	14	54	074	01	61	291	58	72
6	25670	01	702	107	14	12	10	05	084	14	11	456	10	03	004	52	57	208	61	64
7	45550	03	501	097	16	12	29	15	079	15	12	441	08	61	019	51	70	231	59	75
8	20941	01	617	071	14	11	31	04	068	14	11	434	09	02	011	52	55	216	61	63
9	48570	03	703	080	15	13	12	02	066	15	13	431	09	03	009	53	56	211	60	66
10	00901	10	701	115	13	12	00	00	097	14	11	460	08	52	030	53	60	237	60	68
11	00900	02	704	161	14	12	00	00	122	16	12	491	10	53	076	51	68	289	58	80
12	10936	03	720	147	16	13	00	00	119	18	10	509	14	53	113	03	56	337	57	64
13	00907	02	701	091	20	11	19	12	070	19	15	470	15	03	030	03	53	297	56	57
14	00900	02	603	090	15	13	00	00	083	19	16	458	12	07	036	09	57	248	57	69
15	00900	02	804	089	17	11	36	10	072	18	11	454	12	01	047	00	57	259	59	67
16	00900	02	707	114	15	10	00	00	NO RADIOSONDE											
17	00900	02	704	138	15	03	34	18	NO RADIOSONDE											
18	00900	02	703	164	15	02	33	06	NO RADIOSONDE											
19	00900	02	203	158	15	06	00	00	130	19	06	526	14	59	120	01	72	340	57	78
20	00900	02	703	149	17	06	00	00	118	60	04	517	15	59	068	02	59	294	56	68
21	00900	02	702	146	02	06	16	08	125	26	07	535	18	53	150	04	62	388	52	72
22	50933	02	803	119	23	03	13	12	104	25	08	512	16	53	118	03	64	344	56	66
23	6952x	15	222	087	21	12	06	15	083	19	07	482	17	04	107	05	01	343	55	56
24	00900	02	104	085	23	14	13	15	072	23	46	488	18	03	129	04	60	339	56	68
25 to 30	NO RADIOSONDE.																			

TABLE 18-b .

Month: April 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.			400-mbs.			300-mbs.			200-mbs.			150-mbs.		
	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	594	72	-	198	84	97	142	99	08	772	01	12	632	06	16
2	595	72	-	210	78	91	190	90	03	859	00	11	729	03	14
3	No radiosonde														
4	682	69	-	306	79	92	304	94	04	934	06	15	760	07	16
5	689	67	-	327	79	79	322	93	96	959	05	08	797	06	-
6	584	70	-	205	81	88	185	96	04	834	01	07	694	04	10
7	618	68	-	246	80	09	229	94	21	903	00	26	782	01	-
8	591	71	-	204	82	86	173	97	03	795	01	07	677	01	26
9	591	70	-	203	84	97	156	99	11	781	00	14	659	11	26
10	620	70	-	204	82	04	202	98	12	943	98	17	721	04	-
11	664	69	92	287	81	05	263	96	16	867	05	-	711	07	-
12	733	66	72	338	77	83	383	94	00	051	02	10	690	08	16
13	702	65	65	359	76	79	383	90	92	035	06	08	843	19	16
14	633	67	79	265	79	89	274	91	01	957	03	12	799	06	16
15	646	68	79	267	81	90	270	89	99	988	98	08	879	00	11
16 to 18	No radiosonde														
19	743	68	92	359	81	98	328	97	12	927	08	22	744	06	-
20	701	66	80	342	78	94	329	98	08	-	-	-	-	-	-
21	803	64	83	459	77	94	467	93	07	093	11	24	866	12	26
22	744	66	72	390	77	81	290	93	00	025	11	15	813	11	14
23	750	69	65	406	74	75	437	91	91	058	11	12	813	14	15
24	739	66	77	370	78	89	370	95	05	955	13	-	729	11	19
25 to 30	no radiosonde.														

TABLE 19-a .

BAGHDAD AIRPORT

Month: April 1961.

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M				1/1		1																			2
>1000 -1500M							1	1	1	1	1						1								6
>1500 -3000M				1	2	1	1			1	1	3													10
>3 -5KM				2	4	3		1					1	1	1	2	3								18
>5 -10KM	2	1	1	9	6	7	4	1	2	2			2	3	5	7	13	5	1	1		1	1	1	75
>10 -15KM	7	6	10	10	10	8	10	9	5	5	10	7	5	8	7	7	12	20	16	15	11	10	10	10	228
>15KM	21	23	19	7	8	10	14	18	22	21	18	20	22	18	17	14	1	5	13	14	19	19	19	19	381
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

Note: In the contain- ing two numbers the first one gives the cases with dust in the air, the second number shows the total.

Frequency of different heights of cloud-base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
>0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M														1	1	1	2		1	1	1		1	1	10
>500 -900M	2	1	2	2		1	1	1	5	3	3	2	3	3	4	2	1	1				1			38
>900	28	29	28	28	30	29	29	29	25	27	27	28	27	26	25	27	27	29	29	29	29	29	29	29	672

TABLE 19-b .

BASRAH AIRPORT

[illegible] April 1951 .

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M							1									1/2									3
>1000 -1500M								1/1																	1
>1500 -3000M									1/1																1
>3 -5KM																	1/1								1
>5 -10KM				2	3	1/2	1	2	2	3	2	1	3	2	1/2	1/2	1	2	2	1					35
>10 -15KM	1	1	1	5	3	4	3	3	3	5	5	6	4	3	8	6	6	3	4	3	3	1	1		82
>15KM	29	29	29	23	24	24	25	24	24	22	23	23	23	25	20	20	22	25	24	26	27	29	29	30	599
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

NOTE: In fields containing two numbers the first one gives the cases with dust in the air. The second number shows the total.

Frequency fo different heights of cloud-base (amount 5-8 oktas)

T I M E - G . M . T .

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																1									1
>50 -150M																									
>150 -300M																									
>300 -500M																									
500 -900M		1	1	1								1	1	4	2	4	2	1	1	1	1	1	1	1	23
900M	9	9	10	10	11	10	10	12	12	14	16	15	15	14	14	11	14	12	10	10	10	11	10	11	280

TABLE 20-a

Month: April 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (⩾5 Oktas)

METERS	VISIBILITY																								
	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																						1						1		
>50-150																			1			2			1			2		
>150-300																							2	2	1	2	2	1		
>300-500																			2				3	3		3	3	2		
>500-900																			2					1	12		1	14		
<5/8 OR *							1			1		1	1		2		2	9	4	7	10	10	19	5	13	28	28	29		
900								1			1				1	2	2	2	5	5	5	6	18	19	14	27	27	27		
AND >5/8							1			2			3			5	1	1	26	15	10	68	13	18	119	29	29	224		
							1			1		1	1		2		2	9	4	7	10	10	21	7	14	30	30	30		
TOTAL								1			1				1	2	2	2	7	5	5	7	21	22	14	30	30	30		
							1			2			3			5	1	1	28	16	10	70	13	19	131	30	30	240		

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

GMT.

To= Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

TABLE 20-b .

(22)

Month: April 1961 .

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specired lowest cloud-base (≥5 Oktas)

METERS	VISIBILITY																													
	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
									1																					1
									1																					1
50-150																														
>150-300																														
>300-500																														
>500-900																										1			1	
									1																	1	3		1	4
									1																1	1	7	1	1	8
<5/8 OR * >900 AND ≥5/8									1											2	1	1	5	3	29	22	25	30	29	30
																			3	3	2	5	4	6	22	22	17	30	29	25
									1										2		13	4	1	29	23	28	188	29	29	231
TOTAL									1											2	1	1	5	3	29	23	25	30	30	30
									2										3	3	2	5	4	6	22	23	20	30	30	30
									3										2		13	4	1	29	24	29	195	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model

00	03	06
09	12	15 GMT
18	21	To

To= Total for all hours

*ALL CASES WITH CLOUD AMOUNT LESS THAN 5/8 ARE ENTERED HERE .

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. 5
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Year 1961

العـــدد ٥
مجـــلد ٢٤
الشهر أيـــار
السنة ١٩٦١

الجمهورية العراقية
وزارة المواصلات
مديرية الطيران المدني العامة
مديرية الانواء الجوية
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 مايس ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR MAY 1961

مجلد ٢٤ ، رقم (٥) مايس ١٩٦١

VOLUME 24 , No. (5) , MAY 1961

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احصائيات مزدوجة لمدى الرؤيا و لقاعدة الغيوم في بصرة و بغداد .

لمحة عامة عن شهر مايس ١٩٦١
شهر غير مستقر و مغبر

كان الجو مستقرا في الايام الاربعة الاولى وفي الايام ١٨ ، ١٩ ، ٢٠ من هذا الشهر اما بقية ايام الشهر فقد كان الجو فيها مغبرا بسبب تعاقب الجبهات الباردة و المارة على العراق و القادمة من شرقي البحر الابيض المتوسط و التي اثرت على جو العراق و سببت عواصف رعدية و حدية و هطول الامطار في معظم الجهات خاصة المنطقة الوسطى من العراق

اما الرياح فقد كانت في معظم الايام متراوح بين الشمالية و الشمالية الغربية معتدلة السرعة

و كانت درجات الحرارة قريبة من معدلاتها

GENERAL SIUATION FOR MAY 1961 .

UNSETTLED AND DUSTY

The weather was settled during first four days and on 18,19 & 20th of this month. During the rest days of the month the weather was unsettled with frequent dursterms due to successive cold front advanced from Eastern Mediterranean Sea , which also caused Thunderaterms and rainy weather in most districts especially in Central area of the country.

The Winds were mainly N - NW 'ly with moderate speed .

The temperatures were nearly close to normal .

MAY 1961 .

TABLE - 1 .

(1)

مايس ١٩٦١

المعدل اليومي لدرجات الحرارة (مئوية)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	25.0	22.0	23.6	22.5	27.2	25.9	26.0	25.9	25.3
2	28.0	24.1	27.3	24.5	27.7	27.2	28.0	26.8	27.3
3	27.8	25.6	28.3	23.0	29.2	28.2	29.3	28.1	28.1
4	29.3	28.0	28.0	25.3	30.5	30.4	30.4	30.9	30.0
5	31.7	25.4	28.4	24.9	31.9	30.9	31.5	30.9	32.1
6	28.5	20.6	25.0	20.2	29.9	29.8	31.8	31.1	26.9
7	23.9	20.1	19.9	18.7	28.0	25.9	28.2	29.0	24.1
8	27.0	22.1	22.0	19.8	28.0	27.6	28.1	29.5	25.9
9	28.2	22.8	24.6	20.2	31.0	30.2	29.8	30.3	27.8
10	28.4	23.3	25.8	24.1	30.9	29.7	30.2	30.4	29.2
11	30.1	24.9	27.2	25.4	32.0	30.5	31.6	30.8	30.4
12	32.6	25.5	28.4	27.2	33.3	33.4	34.9	34.6	31.3
13	32.1	26.4	29.3	27.6	34.6	32.7	33.0	32.4	31.6
14	31.2	28.2	31.2	27.9	32.7	32.4	32.9	31.9	31.6
15	31.6	30.6	32.5	29.4	33.3	33.0	33.8	31.8	32.2
16	28.1	28.1	27.9	22.9	32.2	28.9	31.5	33.1	28.9
17	27.4	25.4	28.0	23.6	30.4	28.3	30.5	29.6	28.3
18	28.6	27.8	30.4	25.2	30.8	29.2	30.2	29.5	29.5
19	30.1	27.2	29.8	27.9	30.8	30.8	30.6	29.9	29.7
20	31.8	28.7	30.8	27.7	33.2	33.9	32.3	31.5	31.2
21	31.2	27.5	31.0	27.2	34.1	32.8	33.9	32.0	31.2
22	31.7	30.4	31.5	28.2	32.9	31.4	32.6	31.8	32.5
23	33.9	29.3	32.5	29.1	34.7	34.2	33.2	32.2	33.3
24	31.0	30.0	32.8	24.7	33.9	31.3	35.3	36.8	30.1
25	29.1	26.0	26.7	24.4	29.9	29.2	30.5	30.4	29.0
26	29.2	28.5	29.0	28.0	31.9	30.4	30.5	29.3	30.8
27	27.5	27.2	26.3	22.8	28.7	27.6	30.2	29.1	27.8
28	26.5	24.9	24.6	21.9	27.7	26.9	27.0	25.8	26.6
29	26.6	24.7	23.8	23.5	27.8	26.6	27.1	27.3	25.7
30	25.2	23.0	22.5	24.6	26.9	26.5	26.5	26.4	25.9
31	28.2	25.9	27.3	28.9	28.3	29.1	27.9	26.8	30.0
MEANS	29.1	25.9	27.6	24.9	30.8	29.8	30.6	30.2	29.2
NORMAL	27.4	23.6	24.9	23.7	29.6	28.8	29.2	29.7	26.4
YEARS OF NORMAL	1937	1923	1935	1928	1940	1939	1940	1937	1935

TO

1 9 5 6

NOTE: T I M E - G . M . T .

0000+0300+0600+0900+1200+1500+1800+2100 / 8 = DAILY MEAN

MAY 1961 . (2) مايس ١٩٦١

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

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

التاريخ DATE	بغداد BAGH-DAD	موصل MOSUL	كركوك KIRKUK	رطبة RUTBAH	حي HAI	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BASRAH	حبانية HABBA-NIYA
1	1015.4	1018.1	1016.6	1016.0	1013.0	1014.6	1013.4	1012.6	1015.3
2	10.3	12.1	10.9	11.2	09.1	09.8	09.8	09.6	10.3
3	07.4	08.1	08.0	06.5	06.9	07.1	07.4	07.6	06.9
4	06.4	07.2	07.1	06.1	05.9	05.4	06.0	06.5	06.0
5	03.8	06.4	05.1	02.8	03.9	03.1	04.1	05.2	03.0
6	03.0	04.9	03.8	03.7	03.6	02.9	03.7	04.7	02.8
7	07.3	09.0	09.0	08.2	05.6	07.3	06.3	06.5	07.9
8	11.0	12.7	12.5	10.9	09.5	09.6	09.0	08.5	10.6
9	10.6	13.7	12.4	12.1	07.7	09.3	07.9	07.5	10.6
10	13.3	15.8	14.8	14.3	11.4	11.9	11.1	10.5	13.3
11	09.9	13.0	11.6	10.3	07.9	08.9	08.4	07.7	10.1
12	06.1	09.8	08.0	07.7	04.3	05.1	05.0	05.4	06.4
13	07.4	08.5	07.7	08.9	05.3	06.7	05.8	05.4	07.6
14	09.3	12.4	10.8	11.2	07.9	08.8	08.3	08.0	09.0
15	08.1	09.9	08.5	09.5	06.6	07.4	06.7	06.4	08.2
16	08.2	07.6	07.5	11.3	06.1	07.9	06.5	05.5	09.2
17	08.4	08.7	08.2	11.1	06.7	08.4	07.7	07.3	09.1
18	07.6	08.3	07.1	09.1	06.3	07.5	07.3	07.3	07.8
19	07.1	07.9	06.2	06.6	05.7	06.5	06.3	06.5	07.3
20	07.1	08.6	07.8	05.3	04.9	05.9	05.3	05.1	07.4
21	07.9	08.4	07.6	09.5	05.6	07.1	05.8	04.4	08.1
22	04.8	06.3	05.1	07.2	02.5	04.3	03.9	03.2	05.2
23	04.2	05.7	04.7	04.9	02.8	03.8	03.5	03.5	04.4
24	05.3	05.0	04.2	08.1	04.1	05.2	04.1	06.5	05.9
25	10.2	10.2	09.8	11.9	08.1	09.8	08.7	07.4	10.4
26	07.7	06.7	07.3	06.6	06.3	07.6	07.9	06.7	07.5
27	06.3	04.7	05.5	07.3	05.3	06.2	05.9	05.8	06.9
28	07.8	05.7	06.5	09.4	06.4	07.6	07.1	05.2	08.1
29	06.0	04.0	04.9	07.4	05.0	06.1	06.3	05.9	06.2
30	05.5	05.3	05.7	06.8	04.2	05.5	05.3	05.1	06.0
31	04.9	05.0	04.7	04.0	05.5	04.8	06.4	06.4	04.3
MEANS	1007.6	1008.7	1008.1	1008.6	1006.3	1007.2	1006.8	1006.9	1007.8
NORMAL	1008.5	1009.1	1007.9	1010.1	1007.8	1007.5	1007.4	1007.1	1008.5
1961 :									
HIGHEST	1017.2	1018.5	1017.6	1017.8	1014.6	1016.8	1015.3	1014.8	1017.3
TIME	0600	0600	0600	0600	0600	0600	0600	0600	0600
DAY	1st	1st	1st	1st	1st	1st	1st	1st	1st
LOWEST	1000.1	1001.5	997.5	1000.3	1001.2	1000.3	1002.0	1001.9	1000.3
TIME	0900	12&15	1200	1500	1500	1500	1500	1500	1500
DAY	6th	29th	6th	5th	22nd	5th	5th	22nd	5th
RECORD:									
HIGHEST	1019.4	1021.8	1019.1	1023.3	1019.2	1019.6	1018.3	1019.0	NOT AVAIL-ABLE
TIME	0600	0600	0600	0600	0600	0600	0600	0600	
DAY	5th	2nd	2nd	6th	1st	5th	1st	5th	
YEAR	1940	1948	1948	1944	1948	1940	1948	1940	
LOWEST	998.3	995.7	996.2	997.4	997.5	996.2	997.2	997.7	
TIME	1500	1200	0600	1200	1500	0000	0000	0000	
DAY	29th	3rd	3rd	1st	31st	3rd	3rd	3rd	
YEAR	1958	1946	1946	1946	1958	1946	1948	1959	

MAY 1961 .

TABLE - 3 .

(3)

مايس (١٩٦١)

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	41	65	46	34	43	41	34	53	37
2	37	60	40	27	48	41	34	53	42
3	42	53	33	38	44	38	32	49	41
4	35	50	38	46	43	30	34	41	37
5	27	50	31	37	39	31	32	47	29
6	36	79	44	48	40	28	30	56	40
7	50	69	63	52	47	41	39	51	46
8	32	51	45	51	39	27	37	33	35
9	30	58	35	52	28	23	31	41	31
10	33	55	33	43	31	28	28	35	28
11	28	46	30	38	33	26	26	55	25
12	23	45	26	35	40	25	23	54	28
13	27	54	27	28	30	28	28	48	24
14	32	45	25	30	35	30	19	42	29
15	35	45	25	24	42	30	23	49	31
16	30	29	24	27	33	30	21	45	20
17	29	53	23	34	29	29	17	43	23
18	27	41	21	29	32	27	18	43	20
19	27	38	17	25	38	29	27	45	27
20	23	39	15	26	29	22	25	42	24
21	21	48	18	27	25	20	14	46	22
22	19	36	16	21	30	28	16	47	15
23	17	34	18	26	25	21	19	48	21
24	22	26	16	36	27	22	21	35	22
25	25	38	24	43	30	27	27	48	24
26	27	36	21	32	23	28	23	54	19
27	29	42	28	44	36	39	24	65	29
28	30	37	25	47	36	54	26	50	28
29	32	34	24	49	35	41	27	41	31
30	42	55	42	35	38	35	29	50	33
31	32	52	28	25	40	32	31	51	25
MEANS	30	47	29	36	35	31	26	47	28
NORMAL	**31**	**50**	**35**	**35**	**33**	**35**	40	57	33
1961 :									
HIGHEST	70	98	88	92	77	71	56	89	75
TIME	0300	0300	1800	0000	0300	0000	0300	0300	0300
DAY	2nd	7th	6th	4th	3rd	29th	8th	28th	2nd.
LOWEST	7	13	6	9	15	10	5	13	5
TIME	1200	1200	1200	1200	1200	1200	1200	0900	1200
DAY	23rd	23rd	20th	2nd	21st	22nd	18th	24th	22nd

MAY 1961 .

TABLE -4a .

مايس ١٩٦١

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	32.0	16.4	31.2	12.1	29.9	16.5	30.4	14.4	31.2	12.2
2	36.4	18.0	35.9	13.0	36.4	17.1	37.0	17.2	34.3	13.4
3	35.4	20.0	37.5	13.2	34.6	21.1	36.0	18.3	34.9	18.6
4	38.3	19.7	38.0	18.3	36.0	18.7	36.0	18.0	35.0	14.2
5	39.0	23.4	38.1	11.2	37.0	21.5	37.2	19.0	32.3	18.2
6	36.5	24.8	24.6	20.2	30.4	22.6	36.7	23.9	35.7	15.6
7	30.0	20.5	27.6	14.8	27.0	16.4	29.4	21.1	24.2	10.2
8	33.4	18.2	30.2	14.1	29.5	15.1	32.0	14.4	28.0	11.3
9	35.7	20.2	30.9	15.6	31.1	17.3	33.3	18.5	28.5	13.0
10	35.8	17.9	32.6	14.4	32.2	17.8	33.9	18.3	31.0	13.2
11	38.0	22.5	34.5	13.0	34.9	18.6	37.2	21.1	33.6	16.5
12	39.9	24.8	34.6	15.3	36.3	20.4	38.3	20.0	33.5	16.5
13	39.3	25.7	36.8	15.4	36.4	20.5	37.2	18.3	33.5	16.0
14	39.8	20.8	37.9	17.7	37.2	24.3	38.9	21.1	35.5	17.5
15	40.6	21.2	40.5	16.5	40.0	24.3	40.0	24.0	38.8	18.5
16	33.3	23.5	35.5	21.7	35.0	22.5	38.3	22.8	38,0	16.1
17	36.2	18.0	37.8	13.3	35.4	17.8	36.7	18.3	32.5	15.0
18	38.4	16.3	38.9	14.8	38.1	22.2	38.3	18.0	34.5	13.5
19	39.0	17.5	38.0	12.2	37.7	21.4	38.3	18.0	37.5	14.4
20	40.2	20.4	39.6	15.3	38.5	21.7	38.9	18.9	35.2	20.4
21	39.7	21.5	40.2	13.9	39.6	20.7	39.4	18.9	36.4	17.7
22	40.6	21.0	39.9	17.2	38.9	23.5	40.0	20.0	37.0	19.0
23	41.2	26.0	40.0	13.0	40.2	23.5	41.1	19.8	38.5	19.1
24	37.2	23.9	36.0	26.5	40.9	26.5	41.7	21.7	32.0	17.0
25	36.8	23.2	34.2	17.6	33.7	19.9	35.0	24.4	31.3	16.4
26	38.2	18.3	38.1	13.4	37.1	19.0	37.2	16.1	37.0	17.5
27	32.6	25.0	32.5	16.2	32.3	22.0	33.3	23.3	29.2	15.1
28	31.8	19.3	31.0	16.7	30.6	19.8	31.7	20.0	28.0	15.0
29	32.4	18.8	31.3	15.6	30.5	15.1	31.7	20.0	30.4	15.6
30	31.0	18.3	30.7	14.9	29.5	15.3	28.0	16.1	32.0	17.5
31	34.8	19.9	35.0	14.1	34.4	18.0	33.0	17.2	38.0	18.6
MEANS	36.3	20.6	35.2	15.5	34.9	20.0	36.1	19.0	33.5	15.9
NORMAL	35.8	19.6	33.1	14.3	33.5	18.4	35.0	18.9	31.6	15.8
HIGHEST	44.6		44.1		43.3		44.0		42.4	
DAY	28th		31st		7th.		29th		7th.	
YEAR	1960		1955		1942		1960		1942	
LOWEST		10.5		6.1		8.3		8.3		5.6
DAY		1st		1st		1st		1st		1st
YEAR		1948		1948		1948		1948		1948

MAY 1961 .

TABLE -4b..

(ب)

مايس ١٩٦١

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

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

	الهاي		الديوانية		الناصرية		البصرة		الحبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	32.4	17.6	33.5	17.6	35.4	17.6	32.0	19.0	33.1	16.5
2	36.0	15.6	36.0	18.1	37.7	17.5	34.8	20.0	37.2	16.9
3	35.6	17.2	35.8	19.2	38.8	19.0	37.0	18.1	36.6	19.5
4	37.8	20.0	38.7	20.4	39.6	21.8	38.2	22.2	39.5	19.5
5	38.4	20.7	38.5	21.0	40.4	21.8	39.6	21.3	40.6	21.9
6	37.5	23.6	36.9	25.9	39.0	27.0	38.4	26.0	36.9	22.8
7	32.6	20.4	31.4	22.1	34.5	24.7	37.0	23.8	30.4	19.1
8	33.6	16.7	34.5	17.6	36.0	19.9	38.2	19.7	33.4	16.1
9	36.6	20.8	37.6	21.5	38.3	21.4	39.6	22.2	36.1	17.9
10	36.3	20.6	37.6	21.0	38.0	22.5	37.0	23.5	36.9	20.6
11	38.4	20.2	39.7	20.6	40.8	20.2	38.5	21.4	38.4	20.6
12	40.6	22.9	41.5	20.2	43.1	23.3	41.5	27.2	40.6	22.1
13	39.8	24.9	40.2	26.2	40.9	25.3	39.7	22.5	38.9	21.9
14	38.4	23.7	40.1	23.6	41.4	24.9	39.8	24.5	40.4	22.0
15	40.0	22.8	42.0	22.7	42.2	25.5	40.7	23.6	41.2	21.2
16	36.8	24.9	34.0	22.7	40.4	25.8	41.2	23.6	35.0	24.0
17	35.8	21.9	36.7	21.0	37.4	24.9	35.1	25.7	36.7	18.8
18	37.6	19.7	38.0	20.4	38.6	20.2	36.6	21.1	38.5	18.5
19	38.4	19.4	39.8	20.4	40.4	19.5	38.2	19.2	40.0	18.4
20	39.8	22.0	41.6	22.8	40.8	23.1	39.7	24.2	41.7	20.0
21	40.3	22.8	41.0	25.4	41.8	22.9	38.8	24.2	40.0	21.2
22	40.6	22.4	40.6	20.2	42.0	22.1	39.1	25.2	41.4	21.9
23	41.2	23.0	43.0	25.0	43.3	23.4	41.5	20.8	42.4	22.7
24	40.5	20.5	38.0	22.6	44.3	23.7	43.2	21.9	38.1	22.8
25	34.5	23.8	35.1	24.9	36.5	25.5	35.6	25.0	35.6	22.8
26	37.5	11.0	38.0	22.0	38.6	19.5	36.6	21.8	38.9	19.6
27	32.6	19.3	33.0	20.0	36.0	20.5	37.0	20.7	33.0	23.9
28	32.7	18.4	33.4	18.0	35.8	16.5	33.5	19.3	32.1	21.6
29	32.2	20.9	33.5	18.5	34.9	19.0	33.1	21.0	32.8	19.1
30	30.4	20.5	32.4	21.5	32.8	19.4	33.2	19.8	32.0	19.7
31	34.2	16.7	36.3	18.6	36.5	16.0	34.3	20.9	37.2	21.8
MEANS	36.7	20.5	37.4	21.3	38.9	21.7	38.5	22.2	37.4	20.5
NORMAL	37.3	21.0	36.7	19.2	36.9	22.4	35.7	24.3	35.4	19.9
HIGHEST	46.1		45.6		45.7		45.6		46.7	
DAY	26th		12th		31st		23rd		7th	
YEAR	1941		1941		1955		1951		1942	
LOWEST		11.0		7.8		11.6		8.9		8.2
DAY		25th		16th		1st		1st		16th
YEAR		1961		1943		1944		1952		1940

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TABLE - 5 . معدل الشهري لدرجات الحرارة الجافة (مئوية)

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	TIME - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	23.4	22.4	28.7	34.1	35.9	34.1	28.4	25.6	29.1
MOSUL	18.5	17.7	26.0	32.4	34.6	32.3	25.3	21.0	26.0
KIRKUK	21.8	21.7	28.8	32.4	34.0	32.0	26.5	23.7	27.6
KHANAQIN	....	20.6	30.8	34.0	35.3	33.7	28.0	....	30.4
RUTBAH	18.6	16.9	24.0	29.9	32.9	30.9	25.5	20.4	24.9
HAI	....	22.0	30.6	35.0	36.2	33.2	27.5	....	30.8
DIWANIYA	23.1	22.4	30.9	32.7	37.0	34.8	28.2	25.7	29.4
NASIRIYA	23.6	22.5	31.9	37.0	38.1	35.7	29.6	26.7	30.6
BASRAH	25.0	23.3	30.8	35.4	36.4	33.9	29.0	27.1	30.1
HABBANIYA	23.3	21.6	28.7	34.6	36.2	34.5	28.6	26.2	29.2

TABLE - 6 . المعدل الشهري لدرجات الحرارة الرطبة (مئوية)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	15.6	15.1	18.5	19.4	19.5	19.2	17.6	16.4	17.7
MOSUL	14.5	14.4	17.6	19.7	19.8	19.0	16.0	15.8	17.2
KIRKUK	14.2	14.3	17.2	17.7	18.1	17.1	16.0	15.1	16.2
KHANAQIN	....	13.7	18.1	19.2	19.3	18.4	16.6	....	17.6
RUTBAH	12.6	11.8	15.8	17.8	18.6	17.5	15.8	10.8	15.1
HAI	....	15.7	20.0	21.1	20.9	20.1	17.8	....	19.2
DIWANIYA	15.5	15.4	18.5	20.2	20.5	20.0	17.9	16.7	18.4
NASIRIYA	15.2	14.9	18.7	20.0	20.6	20.3	18.1	16.7	18.1
BASRAH	19.6	18.4	22.0	22.9	23.1	23.1	20.7	20.9	21.3
HABBANIYA	15.4	14.8	17.6	18.8	18.9	18.6	17.4	16.4	17.2

TABLE - 7. المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	07.6	08.1	08.9	08.4	07.0	06.4	07.4	07.7	1007.7
MOSUL	09.5	10.0	10.2	08.9	07.0	06.4	08.2	08.7	1008.6
KIRKUK	08.9	09.2	09.0	08.0	06.3	06.2	08.2	08.6	1008.1
KHANAQIN	....	09.0	07.2	07.5	05.5	05.2	07.5	....	1007.0
RUTBAH	08.8	09.5	10.1	09.1	08.0	07.5	08.1	08.4	1008.7
HAI	....	06.4	07.3	07.0	05.5	05.1	06.1	....	1006.2
DIWANIYA	06.8	07.5	08.4	07.9	06.5	06.1	07.1	06.9	1007.2
NASIRIYA	06.5	07.0	08.1	07.4	06.0	06.1	06.7	07.5	1006.9
BASRAH	06.1	06.6	07.7	07.4	06.0	05.5	06.3	06.6	1006.5
HABBANIYA	07.9	08.4	09.1	08.5	07.0	06.4	07.5	07.7	1007.8

TABLE - 8. المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	41	44	34	21	17	20	31	35	30
MOSUL	68	72	46	31	25	29	45	62	47
KIRKUK	40	42	29	19	16	18	31	37	29
KHANAQIN	..	44	25	19	17	18	27	..	25
RUTBAH	48	52	39	27	24	25	33	39	36
HAI	..	51	37	29	25	30	37	..	35
DIWANIYA	43	45	29	20	18	25	33	34	31
NASIRIYA	37	40	24	16	15	20	28	32	27
BASRAH	59	61	44	32	30	37	53	56	47
HABBANIYA	41	46	30	18	14	16	30	33	29

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TABLE - 9 .

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
	T I M E - G . M . T .								
BAGHDAD	11.9	11.6	12.9	10.8	9.5	10.4	11.9	11.4	11.3
MOSUL	14.3	14.3	14.8	14.6	13.6	13.4	13.7	14.7	14.2
KIRKUK	10.1	10.4	10.6	8.7	8.2	7.8	10.9	10.2	9.5
KHANAQIN	.....	10.4	10.7	10.0	9.7	9.2	9.8	.....	10.0
RUTBAH	10.0	9.7	11.3	10.9	10.8	11.3	10.3	10.9	10.8
HAI	.....	13.8	16.3	15.9	14.6	14.8	13.7	.....	14.9
DIWANIYA	11.7	11.9	12.8	11.2	11.0	11.7	12.4	11.9	11.8
NASIRIYA	10.5	10.9	11.0	9.8	9.6	11.4	11.6	11.1	10.7
BASRAH	18.5	17.3	19.6	18.2	18.1	19.9	20.9	19.9	19.1
HABBANIYA	11.3	11.5	11.5	9.4	8.1	8.8	11.1	10.9	10.3

TABLE -10 .

المعدل الشهري للندى (ملليبارات)

MONTHLY MEAN DEW POINT (C)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	8.8	8.7	10.7	7.8	5.8	7.1	9.2	8.5	8.3
MOSUL	11.8	12.1	12.6	12.3	11.0	10.8	11.1	12.4	11.8
KIRKUK	6.7	7.2	7.4	4.4	3.3	2.4	6.0	7.1	5.6
KHANAQIN	.....	7.6	7.4	6.3	6.1	5.3	5.9	.....	6.4
RUTBAH	6.4	5.6	8.5	7.8	7.9	7.6	6.8	6.5	7.1
HAI	.....	11.6	14.1	13.6	12.4	12.6	11.4	.....	12.6
DIWANIYA	8.9	9.3	10.3	8.3	7.7	8.8	10.0	9.2	9.1
NASIRIYA	7.4	8.2	8.9	6.0	5.6	8.5	8.5	8.4	7.5
BASRAH	16.1	15.0	16.7	15.4	15.3	17.0	18.6	17.1	16.3
HABBANIYA	8.4	8.7	8.5	5.5	3.3	4.5	8.0	7.8	6.8

TABLE -11.

المعدل الشهري لكمية الغيوم الواطئة (اثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.3	0.8	0.7	0.5	0.7	1.1	0.9	0.2	0.7
MOSUL	1.9	1.4	1.1	0.9	1.3	1.3	1.8	2.0	1.5
KIRKUK	1.0	0.9	1.0	0.8	1.2	1.6	1.0	1.2	1.1
KHANAQIN	.....	0.2	0.7	0.3	0.2	0.5	0.1	.....	0.3
RUTBAH	0.2	0.3	0.5	0.8	1.8	1.7	0.6	0.4	0.8
HAI	.....	0.5	0.4	1.3	1.3	0.5	0.7	.....	0.8
DIWANIYA	0.3	0.7	1.2	0.6	0.5	0.3	0.0	0.0	0.5
NASIRIYA	0.1	0.2	0.1	0.4	0.3	0.5	0.3	0.0	0.2
BASRAH	0.5	0.3	0.1	0.0	0.1	0.5	0.4	0.3	0.3
HABBANIYA	1.0	0.7	0.6	0.6	1.2	0.6	0.3	0.5	0.7

TABLE -12.

المعدل الشهري لمجموع كمية الغيوم (اثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	1.3	2.1	2.2	1.9	2.0	2.2	1.7	1.0	1.8
MOSUL	2.5	2.4	2.6	2.5	2.6	2.2	2.3	2.6	2.5
KIRKUK	1.5	1.8	1.9	1.6	2.0	2.2	1.6	1.8	1.8
KHANAQIN	...	1.0	2.0	2.3	2.0	1.1	0.3	.....	1.5
RUTBAH	1.5	1.7	1.5	1.5	2.7	2.5	1.3	1.2	1.7
HAI	.....	1.8	1.5	2.6	2.9	2.5	1.9	.....	2.2
DIWANIYA	1.0	1.5	2.3	1.9	1.9	1.3	0.5	0.6	1.4
NASIRIYA	0.4	1.1	0.8	0.9	1.3	1.5	0.6	0.7	0.9
BASRAH	1.0	1.2	0.9	1.3	1.2	1.5	1.1	0.8	1.1
HABBANIYA	1.9	2.2	1.7	1.8	2.3	1.9	0.9	1.3	1.8

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TABLE 13a .

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	C a l m	SPEED IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 &	معدل السرعة بالعقد MEAN V. K
بغداد BAGHDAD	0000	5	4	2	1	2	0	3	10	4	20	7	0	0	7
	0300	2	3	1	1	1	1	3	14	1	25	5	0	0	7
	0600	11	0	1	3	1	0	1	14	0	28	3	0	0	9
	0900	7	1	0	4	2	0	4	13	0	11	9	1	0	12
	1200	9	1	1	1	3	0	6	10	0	14	7	0	0	12
	1500	9	1	0	2	0	0	3	13	1	21	6	0	0	9
	1800	2	3	1	4	1	2	3	12	2	22	6	0	0	7
	2100	5	2	2	5	0	3	2	10	2	18	11	0	0	8
	TOTAL	52	15	10	23	10	6	25	96	11	155	61	1	0	9
موصل MOSUL	0000	12	0	0	0	2	2	6	3	5	15	8	1	1	8
	0300	12	1	2	0	1	2	6	5	1	21	7	2	0	9
	0600	12	0	3	2	1	0	7	5	0	17	13	1	0	10
	0900	9	4	4	2	2	0	8	2	0	11	20	0	0	12
	1200	6	1	1	5	2	0	11	3	0	5	22	1	0	13
	1500	10	2	1	2	2	0	7	7	0	16	14	0	1	11
	1800	6	2	2	2	1	2	12	3	1	18	9	3	0	11
	2100	7	0	1	0	3	1	10	4	5	18	5	2	1	9
	TOTAL	74	10	14	13	14	7	67	34	13	122	98	10	3	10
كركوك KIRKUK	0000	1	15	1	2	0	0	1	1	10	20	1	0	0	4
	0300	2	9	1	1	0	2	2	9	14	17	0	0	0	2
	0600	4	3	1	3	0	3	4	0	11	19	3	0	0	3
	0900	4	3	3	0	6	1	6	2	5	21	2	2	0	6
	1200	4	1	1	4	3	2	15	1	1	25	3	2	0	8
	1500	7	1	0	2	3	1	13	1	3	23	3	2	0	7
	1800	1	2	1	1	2	2	9	1	1	24	2	0	0	5
	2100	2	7	3	4	0	1	3	0	11	14	5	1	0	5
	TOTAL	25	41	11	19	14	12	49	6	71	153	17	7	0	5
خانقين KHANAQIN	0300	2	0	16	0	2	0	0	0	11	20	0	0	0	3
	0600	2	1	5	1	5	0	5	1	11	19	1	0	0	5
	0900	6	0	1	0	4	0	15	2	3	28	0	0	0	5
	1200	10	0	0	0	10	0	6	3	2	27	0	2	0	8
	1500	2	0	0	0	7	1	16	4	4	26	1	0	0	6
	1800	1	0	3	0	4	0	5	1	17	13	1	0	0	3
	TOTAL	23	1	25	1	28	1	47	8	48	133	3	2	0	4
رطبة RUTBAH	0000	2	1	1	1	1	3	2	9	11	17	2	1	0	4
	0300	1	0	0	0	1	2	3	10	12	16	3	1	0	5
	0600	4	2	2	0	5	1	3	9	3	16	8	0	0	7
	0900	6	4	3	2	5	1	7	3	0	18	12	1	0	11
	1200	5	2	1	3	5	5	2	8	0	14	13	4	0	12
	1500	7	1	3	2	1	3	7	5	1	16	11	2	1	12
	1800	8	1	4	2	2	1	2	7	4	20	6	1	0	7
	2100	1	2	2	0	2	2	1	11	10	17	4	0	0	5
	TOTAL	34	13	16	11	22	20	27	62	53	136	58	10	1	8

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TABLE 13-b.

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	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.
حي HAI	0300	1	1	0	0	0	0	6	15	8	20	3	0	0	5
	0600	2	1	1	0	0	2	6	11	3	10	12	1	0	9
	0900	2	1	1	0	2	1	7	12	5	9	15	2	0	11
	1200	5	0	1	0	2	1	5	11	1	13	15	2	0	12
	1500	2	0	2	0	0	2	5	16	5	12	10	1	0	9
	1800	2	0	1	1	0	0	5	12	9	12	5	1	0	7
	TOTAL	14	3	6	1	4	6	35	89	37	76	64	7	0	9
الديوانية DIWANIYA	0000	8	1	2	0	0	1	11	5	5	24	2	0	0	5
	0300	7	2	2	0	0	1	13	2	2	27	2	0	0	5
	0600	10	1	2	0	2	0	8	2	3	18	10	0	0	8
	0900	9	1	1	1	0	0	12	4	3	13	15	1	0	11
	1200	9	0	1	1	0	1	13	6	3	16	9	1	0	9
	1500	11	0	2	2	0	1	10	5	1	8	25	0	0	10
	1800	17	1	1	0	1	0	1	9	7	22	2	0	0	6
	2100	8	2	1	2	1	1	7	8	5	23	3	0	0	6
	TOTAL	79	8	13	6	4	4	75	34	28	150	68	2	0	7
الناصرية NASIRIYA 1500&2100 Uncompleted	0000	2	2	0	2	1	2	7	11	4	26	1	0	0	5
	0300	0	1	3	1	1	2	4	8	6	22	1	0	0	5
	0600	4	0	1	0	2	1	8	8	3	18	10	0	0	8
	0900	6	1	0	1	1	0	9	11	2	12	15	0	0	10
	1200	6	0	1	2	1	0	7	4	1	13	17	0	0	11
	1500	6	1	1	3	0	0	3	3	1	16	3	0	0	9
	1800	6	1	0	4	2	0	3	1	2	25	2	0	0	6
	2100	3	0	1	2	4	1	3	3	4	19	2	0	0	7
	TOTAL	33	6	7	17	9	5	58	66	25	148	53	0	0	7
البصرة BASRAH	0000	7	1	0	0	2	0	2	9	10	19	2	0	0	5
	0300	2	0	1	2	0	0	7	8	11	19	1	0	0	5
	0600	3	1	1	0	3	0	3	13	6	20	3	0	0	8
	0900	3	1	0	2	0	0	3	20	4	16	9	0	0	8
	1200	6	0	1	3	1	0	2	18	1	21	5	0	0	8
	1500	4	0	0	3	1	0	3	13	7	22	2	0	0	6
	1800	3	0	0	0	2	0	5	7	14	17	6	0	0	9
	2100	7	0	1	1	2	0	4	8	8	22	1	0	0	7
	TOTAL	35	3	4	10	11	0	26	96	63	158	27	0	0	6
عرعر RARBANIYA	0000	3	2	1	1	0	1	4	7	14	14	0	0	0	4
	0300	1	2	0	1	1	0	2	12	12	16	1	0	0	6
	0600	4	3	1	1	0	2	2	13	5	13	7	0	0	6
	0900	8	2	1	1	2	1	1	10	5	19	1	0	0	7
	1200	6	0	0	1	3	2	3	11	5	19	1	0	0	7
	1500	6	1	0	1	2	0	1	10	10	17	4	0	0	8
	1800	3	1	0	2	0	0	3	6	16	13	2	0	0	6
	2100	5	1	2	0	2	0	1	5	15	14	2	0	0	7
	TOTAL	35	12	5	7	10	6	15	75	83	130	35	0	0	6

[illegible] 1961 .

[illegible] 14-a.

الهطول اليومي (ملليمترات)

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1										
2					1.7					
3					tr.					
4										
5	tr.	1.9	tr.		tr.		tr.			tr.
6	tr.	9.8	2.9		tr.	tr.		tr.		tr.
7		1.8	0.9	0.2						
8			1.9		tr.					
9					tr.					
10										
11	tr.					tr.	tr.			
12						tr.		tr.		
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29	tr.	tr.	1.5		tr.		tr.			tr.
30	tr.			3.5		tr.				
31		0.4								
TOTAL	tr.	12.9	7.2	3.7	1.7	tr.	tr.	tr.	0.0	tr.
NORMAL	3.3	16.6	9.4	17.2	7.4	5.9	5.8	5.5	6.6	2.8
MAX. FALL IN 24 HOURS	65.0	38.6	41.4	32.6	46.6	28.7	25.6	40.2	35.6	10.8
DAY	9th	2nd	8th	6th	12th	5th	25th	15th	8th	12th
YEAR	1959	1927	1957	1950	1957	1949	1957	1945	1950	1950

MAY 1961 .

TABLE 14-b.

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

التاريخ	فتحة	دوكان	طوسان	ك ٢	العظيم	راوندوز	كاني سيكا	افراز	
DATE	FATHA	DUKAN	TUSAN	K2	ALEI-THAIR	RAWA-NDUZ	KANI SPIKA	IFRAZ	
1									
2									
3									
4									
5			1.3	3.3					
6	6.0	1.0	12.0		3.6	10.0			
7					4.0	15.0		9.5	
8		4.5	1.5			9.0		1.3	
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29		3.5							
30	tr.						24.0		
31			5.4						
TOTAL	6.0	9.0	20.2	3.3	7.6	34.0	24.0	10.8	

MAY 1961 .

TABLE 14-c.

الهطول اليومي (ملليمترات)

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

التاريخ	تل عوينات	سنجار	تلعفر	حويجة	بكرجو	حلبجة	القطار	جوارنا	سرسنك
DATE	TEL AWAINAT	SINJAR	TELAA-FAR	HAWIJA	BAKRAJO	HALABJA	IPTI-KHAR	CHU-ARTA	SER-SANK
1									
2									
3									
4									
5		6.0	3.0						3.0
6		20.0	13.0	11.2	3.0	4.0	3.3	18.9	29.0
7	15.2				tr.				15.0
8									
9									
10									
11									
12									
13									
14									tr.
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28						1.5			
29				1.5	8.0	15.0		18.8	
30		2.0							
31									
TOTAL	15.2	28.0	16.0	12.7	12.0	20.5	3.3	29.7	71.0

MAY 1964 .

TABLE 14-d.

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

DATE التاريخ	BINKIRD بنكرد	SAMTRAA سامترا	MANSOOR المنصور	SAADIYA سعدية	HIT هيت	SAMARIA سامرية	MAQIL معقل	MAQUBA معقوبة
1								
2								
3								
4								
5					tr.			
6	1.5							
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29		tr.						
30		tr.						
31								
TOTAL	1.5	tr.	0.0	0.0	tr.	0.0	0.0	0.0

TABLE-15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة

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

المحطة	مطر	ثلج	برد	زوابع رعدية	ضباب	تراب	السماء صاحية	السماء غائمة	صقيع
STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
BAGHDAD	0	0	0	0	0	7	20	0	0
MOSUL	4	0	0	4	0	2	12	2	0
KIRKUK	4	0	0	3	0	1	17	0	0
KHANAQIN	2	0	0	1	0	5	18	0	0
RUTBAH	1	0	0	1	0	5	20	0	0
HAI	0	0	0	1	0	5	14	1	0
DIWANIYA	0	0	0	0	0	4	16	0	0
NASIRIYA	0	0	0	0	0	5	23	0	0
BASRAH	0	0	0	0	0	7	22	0	0
HABBANIYA	0	0	0	2	0	3	18	1	0

TABLE -16 .

DURATION OF SUNSHINE : مدة سطوع الشمس

المحطة	المجموع الشهري للسطوع بالساعات	اكبر مدة لسطوع الشمس في اليوم		عدد الايام التي لم تظهر فيها الشمس
STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	281.3	12.8	18	2
MOSUL	360.4	14.2	18	0
BASRAH	326.6	12.7	2	0
HABBANIYA	297.7	12.8	18	1

TABLE-17 .

MONTHLY MEAN TEMPERATURES OF : المعدلات الشهرية لـ :

المحطـــــة	حرارة الحشيش	حرارة التربـــــة	
STATION	GRASS MINIMUM TEMPERATURE	EARTH TEMPERATURES 0.3 M	1.2 M
BAGHDAD	17.0	28.8	24.4
MOSUL	....	29.6	23.1
KIRKUK	15.3	25.6	22.6
HAI	15.0	....	....
NASIRIYA	20.5	....	....
BASRAH	17.6	....	....
HABBANIYA	18.9	31.6	26.1

TABLE 18-a. (19) Month: May 1961 .

BAGHDAD AIRPORT

Frequency of horizontal visibility

T I M E = G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M			2/3	2/2	2/2	2/2	2/2	1/1	2/2	1/1	2/2	2/2	2/2	2/2	1/1	1/1									24
>200 -500										1/1					1/1	1/1	1/1								4
>500 -1000M	1/1	1/1	2/2	2/2	3/3	1/1		1/1											3/3				1/1	1/1	16
>1000 -1500M		1		1	1	1	1		1			1	1	1/2	1/1	1/1	2/3	1/2							18
>1500 -3000M		1	1	3	1	2	2	2	1	4	1	1	2	2	4	4	4	7	2	2	1	1			48
>3 -5KM	2		2	3	1	2	3	3	2		3	3	2	1		1	6	5	2	3	2	1	1	2	50
>5 -10KM	2	3	9	10	15	11	8	6	6	4	5	3	5	4	5	6	14	9	7	4	5	4	5	3	152
>10 -15KM	8	7	5	7	3	7	10	11	12	12	7	8	8	7	7	13	2	7	13	15	11	8	6	5	199
>15KM	18	18	10	3	5	5	5	7	7	9	13	13	11	13	12	4	1	1	4	6	12	17	18	20	233
TOTAL	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air , the second number shows the total .

Frequency of different heights of cloud - base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M													1												1
>900	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	743

TABLE 18-b. (16) Month: May 1961 .

BASRAH AIRPORT

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																1/1	1/1				1/1	1/1	1/1		5
>500 -1000M	2/2		1/1	2/2	1/1	2/2	2/2	1/1	1/1	1/1				1/1	1/1			1/1	2/2	2/2				2/2	22
>1000 -1500M		2/2	1/1		1/1	1/1			1/1	1/1	2/2	1/1	1/1										1/1		12
>1500 -3000M				1/1	1/1		1/1	2/2	1/1	2/2	2/2	3/3	4/4	3/3	3/3	3/3	3/3	4/4	2/2			1/1			36
>3 -5KM	1/1					1/1	2/2	2/2			1/1	1/1	1/1	2/2	2/2	3/3	2/2	2/3	3/3	5/5	4/4	1/1	1/1	1/1	36
>5 -10KM	2/2	2/3	1/4	2/7	1/4	1/1	1	1/1	4/4	4/4	2/3	2/2	1/2	3/3	3/3	2/2	4/5	2/2	1/2	1/1	3/3	4/5	2/3	2/2	69
>10 -15KM	4	3	6	3	8	12	8	6	7	6	6	7	7	5	4	5	4	1	5	6	5	4	4	5	136
>15	22	23	19	13	16	14	17	19	17	17	17	17	16	17	18	17	16	20	17	17	18	19	21	21	428
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air. The second number shows the total .

Frequency of different heights of cloud-base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M															1	1	2	1	1	2	1	1	2	2	14
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
900	3	3	4	5	5	4	3	3	5	6	5	5	6	5	3	5	5	4	2	2	2	3	2	2	92

TABLE 19-a.

Month: May 1961.

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud base (5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
>500-900																														
																										1			1	
																											1			1
<5/8 OR *		2	2				1	2			1	1		3	2		3	3	2	10	8	8	7	10	18	3	5	31	31	31
>900	1	2	1	1		1					1	1	4	2	4		2	1	4	5	6	12	8	13	9	10	4	31	30	31
AND >5/8			8			2	3		6			4	2	1	18	2	1	12	7	4	46	13	8	79	4	17	70	31	31	247
		2	2				1	2			1	1		3	2		3	3	2	10	8	8	7	10	18	3	5	31	31	31
TOTAL	1	2	1	1		1					1	1	4	2	4		2	1	4	5	6	12	8	13	9	11	4	31	31	31
			8			2	3		6			4	2	1	18	2	1	12	7	4	46	13	8	79	4	17	71	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model

00	03	06
09	12	15
18	21	To

G.M.T.

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 19 - b. (18) Month: May 1961.

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			≥200-500M			≥0.5-1KM			≥1-1.5KM			≥1.5-3KM			≥3-5KM			≥5-10KM			≥10-15KM			≥15KM			TOTAL		
0-50							2	1																				2	1	
					1	1	1		4																			1	1	5
≥50-150																														
≥150-300																														
≥300-500																														
≥500-900																														
≤5/8 OR *								1	2					1	1	1		2	2	7	1	4	8	8	22	13	17	29	30	31
900						1	1			1	1		2	4	3		1	3	4	2	2	6	7	5	17	16	17	31	31	31
AND ≥5/8						1	1		5			2	1	1	13	3	1	11	2	5	25	5	4	47	18	19	139	30	30	243
							2	2	2					1	1	1		2	2	7	1	4	8	8	22	13	17	31	31	31
TOTAL						1	1			1	1		2	4	3		1	3	4	2	2	6	7	5	17	16	17	31	31	31
					1	2	2		9			2	1	1	13	3	1	11	2	5	25	5	4	47	18	19	139	31	31	248

NOTE:
The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15 G.M.T.
18	21	To

To=Total for all hours.

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدنى 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. 6
Vol. 24
Month June
Year 1961

العدد ٦
مجلد ٢٤
الشهر حزيران
السنة ١٩٦١

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

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 ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR J U N E 1 9 6 1

مجلد ٢٤ ، عدد (٦) حزيران ١٩٦١

VOLUME 24 , No. (6) , JUNE 1961

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(a)

حزيران ١٩٦١

ساد العراق جو غير مستقر خلال الشهر و سبب تصاعد غبار و حدوث زوابع ترابية في اكثر المناطق في معظم ايام الشهر و خاصة يومي ٢٤ و ٢٥ منه حيث كان الغبار كثيفا في كافة انحاء القطر وكان سبب ذلك هو وقوع العراق تحت تأثير سلسلة من الانخفاضات الجوية المتعاقبة و التي استمرت معظم ايام الشهر

اما الايام ١١ ، ١٢ ، ١٤ - ١٨ ، ٢٠ ، ٢٦ ، ٢٧ ، ٢٨ و ٢٩ فكان جوها

اما الرياح فكانت شمالية غربية خفيفة السرعة او معتدلة و جنوبية شرقية شديدة السرعة في ايام الزوابع الترابية الشديدة .

اما درجات الحرارة فقد كانت اكثر من معدلاتها بمقدار بين الدرجة او الدرجتين في جميع المناطق - وقد تغيرت الارقام القياسية لاعلى درجة حرارة في كل من الموصل و كركوك و خانقين بشهادة تتراوح بين الدرجة و الدرجتين اما الارقام القياسية لاعلى درجة حرارة في بقية المناطق فلم تتغير .

JUNE - 1961

The weather was unsettled during the month and caused rising dust and duststorm over most of areas and during most of the month. This was due to series of successive depressions over the Country which continued during most days of the month .

On the days : 11,12,14-18,20 , 26,27,28 & 29th settled weather generally prevailed over most parts of Iraq .

The Winds were generally light NW'ly while it was strong SE'ly in thick storms .

The temperatures were above the normal by (1-2) degrees in all areas . The highest record of Maximum temperatures were broken in Mosul , Kirkuk & Khanaqin by about one degree, while it remained without change in other stations .

JUNE 1961 .

TABLE - 1 .

(1)

حزيران ١٩٦١

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حيّ	دبوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	30.6	26.8	29.0	29.1	30.8	31.7	32.8	31.7	32.1
2	33.0	27.1	31.0	27.2	33.8	34.5	34.7	34.5	32.5
3	33.3	28.3	30.6	28.2	34.2	34.0	34.6	35.0	32.5
4	34.8	30.7	32.8	30.0	35.8	34.5	35.2	33.7	33.3
5	31.5	29.5	31.3	27.0	34.6	31.7	34.8	33.5	31.7
6	31.4	27.7	26.8	26.5	31.2	32.4	32.0	30.6	31.1
7	29.5	29.9	29.3	32.8	32.4	31.1	32.5	30.1	31.8
8	32.7	30.2	30.8	30.1	34.1	33.1	33.7	31.1	32.8
9	32.7	32.0	33.5	31.9	36.0	35.2	34.1	32.0	33.1
10	34.0	30.4	33.1	36.7	36.5	35.6	35.7	34.0	34.1
11	34.4	31.5	34.4	30.7	37.0	36.0	36.2	35.0	34.5
12	36.8	32.1	35.3	29.9	36.4	36.6	37.6	35.2	36.5
13	33.1	30.7	32.1	25.8	36.7	33.5	36.9	35.0	31.6
14	28.7	28.0	28.8	27.1	33.5	30.6	32.8	32.4	29.1
15	29.3	28.4	30.1	28.0	31.5	30.5	32.1	31.0	30.1
16	30.5	22.3	31.1	27.1	32.6	31.6	32.2	31.0	31.6
17	31.5	30.8	33.3	28.3	33.9	32.0	32.9	32.5	32.2
18	32.5	31.8	34.2	29.4	34.1	33.1	34.2	32.4	33.2
19	32.7	32.9	33.8	27.3	35.6	33.8	34.8	28.4	33.1
20	34.0	31.2	33.5	28.2	36.5	35.5	35.1	34.9	33.4
21	35.3	34.5	33.8	28.9	36.0	33.9	35.1	34.4	34.0
22	34.4	34.6	35.1	29.5	36.2	34.3	35.0	32.8	33.8
23	35.4	35.8	38.6	30.1	36.7	35.4	35.4	33.8	35.8
24	34.9	35.5	36.5	28.7	36.6	35.2	37.3	34.9	33.7
25	33.4	32.7	33.2	28.5	36.3	34.0	36.3	35.1	32.4
26	32.8	32.6	33.7	30.6	36.4	33.7	35.3	33.9	33.4
27	35.7	33.2	35.4	30.8	38.8	35.9	37.2	34.9	35.3
28	37.6	35.4	36.1	31.2	39.7	37.5	37.9	35.2	35.6
29	36.2	34.2	33.8	31.0	39.3	36.9	38.1	35.1	35.4
30	33.7	31.5	33.4	30.4	37.3	34.2	35.6	32.3	33.7
MEANS	33.2	31.1	32.8	29.3	35.4	33.9	34.9	33.2	33.1
NORMAL	32.0	29.7	31.9	27.8	34.4	32.1	32.6	32.7	32.7
YEARS OF NORMAL	1937	1923	1935	1928	1940 to 1956	1939	1940	1937	1935

NOTE: TIME G.M.T.

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

JUNE 1961 .

TABLE - 2 .

حزيران ١٩٦١

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

DATE	بغداد BAGH-DAD	موصل MOSUL	كركوك KIRKUK	رطبة RUTBAH	حي HAI	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BASRAH	هبانية HABBA-NIYA
1	1003.3	1003.8	1003.3	1002.9	1003.2	1003.3	1003.5	1006.6	1003.0
2	03.3	06.0	04.2	05.1	02.5	02.1	03.3	04.3	03.4
3	05.8	06.9	06.8	06.8	03.5	04.5	03.8	04.3	06.2
4	06.0	06.2	06.4	06.6	04.1	05.6	04.8	04.1	06.0
5	06.1	05.7	05.2	07.4	03.5	05.5	04.3	03.0	06.6
6	06.9	06.5	06.5	09.6	04.2	06.4	05.1	02.9	07.8
7	04.9	04.7	04.4	06.8	02.6	04.6	03.5	01.3	05.5
8	02.2	03.1	02.7	04.6	999.7	01.8	00.6	999.8	02.9
9	05.2	05.2	05.1	06.2	02.3	01.5	02.7	03.9	05.6
10	08.9	10.2	09.7	08.9	06.5	07.9	06.2	05.6	09.0
11	07.7	09.4	08.4	08.2	06.1	07.2	06.5	05.0	07.8
12	03.1	04.5	03.5	05.1	01.8	02.6	02.7	02.0	03.3
13	00.7	02.7	00.9	04.2	998.6	00.3	999.7	999.2	02.1
14	03.7	03.6	03.4	05.5	01.7	03.5	02.9	02.8	04.4
15	04.6	03.6	03.8	05.8	03.4	04.4	04.1	04.2	04.7
16	03.0	03.6	02.9	04.3	02.0	02.9	02.7	03.0	03.4
17	02.3	04.3	01.9	03.9	00.9	02.2	01.8	03.8	02.6
18	01.9	04.1	01.7	03.6	00.9	02.0	02.0	02.0	02.1
19	03.9	03.9	03.9	05.6	02.7	03.8	03.4	02.9	04.1
20	08.0	09.3	08.5	09.4	05.3	07.2	06.2	05.3	08.0
21	07.2	08.2	07.1	10.7	04.5	06.7	05.7	04.7	07.9
22	04.2	05.4	04.1	09.1	00.9	03.7	02.6	01.8	05.2
23	00.2	01.5	999.6	05.7	998.0	999.4	998.5	998.6	01.4
24	02.3	02.3	01.5	05.7	00.1	01.4	00.3	02.5	03.1
25	00.4	00.8	00.1	03.0	997.0	02.1	998.1	996.2	01.0
26	00.4	00.5	00.4	01.5	997.8	999.7	998.8	997.5	00.8
27	01.7	03.4	02.4	03.3	998.2	00.4	999.1	998.1	02.2
28	01.4	04.0	02.5	05.2	997.6	00.1	998.4	997.2	02.4
29	01.1	01.9	01.8	04.3	997.2	999.7	998.1	996.0	02.1
30	999.4	999.4	999.0	02.4	996.5	999.1	998.0	995.1	00.4
MEANS	1003.7	1004.5	1003.7	1005.7	1001.4	1003.1	1002.2	1001.8	1004.2
NORMAL	1002.9	1003.3	1002.5	1006.1	1001.7	1002.0	1001.7	1000.9	1003.2
1961 :									
HIGHEST	1010.1	1011.9	1010.4	1012.3	1007.5	1009.1	1007.8	1006.8	1008.8
TIME	0900	0600	0600	0600	0600	0600	0600	0600	1200
DAY	10th	10th	10th	21st	10th	10th	21st	11th	10th
LOWEST	998.0	996.7	996.3	1000.7	995.7	997.4	996.4	994.7	998.8
TIME	18&21	1500	1500	1200	1200	1800	12&15	1500	15&21
DAY	30th	30th	30th	26th	30th	30th	25th	25th	30th
RECORDS									
HIGHEST	1013.1	1017.1	1014.4	1018.3	1012.6	1012.7	1012.4	1011.7	NOT
TIME	0600	0300	0300	0300	0300	0600	1800	0600	AVAI-
DAY	4th	1st	1st	1st	1st	1st	8th	9th	LABLE
YEAR	1937	1952	1952	1952	1952	1952	1942	1942	
LOWEST	992.5	992.8	991.2	997.3	992.3	992.9	993.2	992.4	
TIME	1500	1800	1500	1200	1500	1500	1500	1500	
DAY	29th	29th	1st	30th	29th	29th	29th	29th	
YEAR	1960	1960	1951	1944	1960	1960	1960	1960	

JUNE 1961 .

TABLE - 3 .

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE	BAGHDAD	MOSUL	KIRKUK	KUT AL HAI	HILLA	DIWANIA	NASIRIYA	AMARA	BASRA
1	31	58	26	27	40	28	27	37	28
2	24	56	24	21	33	23	26	33	23
3	20	43	22	22	33	20	23	33	23
4	20	36	17	25	33	20	22	36	23
5	24	32	18	25	37	23	17	41	18
6	23	35	26	21	24	21	16	35	19
7	26	33	25	27	27	27	16	36	20
8	28	42	22	28	27	25	16	44	21
9	28	34	19	18	24	22	15	46	22
10	36	38	18	22	26	21	17	50	23
11	28	34	18	23	30	25	19	38	28
12	19	32	14	25	35	24	18	40	18
13	18	29	18	40	31	25	16	44	20
14	32	48	29	48	30	32	15	42	31
15	34	47	29	43	38	36	25	41	33
16	29	52	23	39	38	30	22	48	27
17	27	46	24	34	34	32	18	46	30
18	26	45	21	34	33	30	26	38	25
19	28	37	23	38	30	28	22	38	25
20	23	47	23	35	24	23	20	50	27
21	20	32	17	35	25	24	17	47	21
22	18	36	14	32	23	21	15	35	17
23	21	30	15	30	31	27	28	37	21
24	24	38	15	30	36	27	25	36	25
25	27	45	20	35	27	27	20	43	35
26	30	43	22	35	27	31	21	43	29
27	24	35	17	44	24	25	17	47	24
28	19	29	10	37	21	17	13	38	20
29	17	29	14	34	18	18	16	35	19
30	22	45	17	40	21	22	19	33	24
MEANS	25	39	20	31	29	25	19	40	24
NORMAL	23	32	22	26	23	29	38	50	25
1961 :									
HIGHEST	58	93	44	65	66	62	50	86	56
TIME	0300	0300	0300	0300	0300	0300	1800	0000	0300
DAY	26th	1st	6th	15&20	16	15th	23rd	19th	17th
LOWEST	11	16	3	8	13	6	5	10	7
TIME	1200	1200	12&15	1200	1200	1200	1200	1200	1800
DAY	12th	11th	28th	6th	29th	2nd	17th	2nd	6th.

JUNE 1961 .

TABLE 4-e .

حزيران ١٩٦١ (٤)

درجات الحرارة العظمى والصغرى اليومية (سنتغراد)

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

	بغداد		الموصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	37.5	21.1	32.0	18.3	35.6	22.4	36.1	23.7	37.5	19.4
2	40.3	26.4	36.3	15.9	39.5	21.8	40.0	23.3	33.0	20.4
3	34.8	25.5	28.5	15.7	32.1	21.1	30.0	23.2	36.5	18.0
4	43.0	45.7	41.4	12.5	40.5	23.9	40.6	24.5	38.5	19.5
5	37.0	21.6	28.2	20.7	37.5	21.6	40.0	22.5	35.0	18.5
6	35.3	24.5	33.9	20.5	33.1	20.6	35.9	23.3	33.8	18.0
7	38.6	20.0	38.1	20.6	36.2	19.5	37.2	17.2	39.3	19.1
8	39.8	23.4	39.2	18.3	37.6	22.3	38.9	25.6	38.3	19.4
9	41.5	22.3	41.7	18.2	41.0	22.1	41.1	23.5	40.8	20.2
10	41.8	25.3	39.1	21.6	40.9	25.7	41.7	25.0	40.6	20.2
11	43.0	22.9	41.6	20.2	42.1	25.7	43.3	23.3	39.2	20.2
12	44.2	26.3	41.9	21.0	43.7	25.9	43.9	24.5	37.0	23.2
13	39.8	27.0	38.4	23.0	41.0	25.4	43.9	26.1	33.0	18.3
14	35.3	30.2	34.8	20.9	35.8	24.4	26.7	21.1	31.3	17.7
15	36.5	24.9	36.7	16.3	36.7	22.0	46.7	21.1	32.8	16.3
16	38.0	20.7	39.0	19.4	37.6	23.6	37.2	22.2	39.0	17.8
17	39.4	21.6	40.0	19.7	39.5	26.6	40.0	21.7	36.2	16.8
18	41.9	21.6	41.6	20.0	41.9	25.9	42.2	22.8	37.4	19.7
19	41.0	25.8	42.7	19.2	42.8	25.1	42.2	24.4	34.8	19.6
20	41.8	25.0	40.0	19.8	40.7	25.6	42.2	24.4	36.0	19.5
21	42.0	26.4	43.0	20.5	42.6	26.6	44.0	22.2	36.0	20.3
22	41.7	27.3	41.2	21.2	41.0	25.9	43.0	22.2	37.2	20.6
23	43.2	26.8	42.5	20.7	43.8	26.6	42.2	24.4	38.2	20.2
24	41.7	28.9	43.6	26.1	44.9	25.9	44.4	24.8	37.0	20.5
25	41.6	27.7	40.5	24.1	39.9	25.3	41.7	26.7	35.5	19.8
26	41.0	27.6	42.0	19.6	40.8	25.4	42.2	23.3	38.6	21.6
27	42.2	25.5	43.1	20.9	43.4	24.3	43.0	23.3	39.2	21.5
28	44.3	29.8	43.3	24.5	42.7	27.3	43.0	23.0	39.0	23.5
29	43.5	29.5	43.3	26.1	44.7	25.0	43.2	24.4	39.0	22.0
30	41.3	25.0	42.2	19.2	41.9	25.0	42.2	22.8	36.5	21.8
MEANS	40.7	24.6	40.2	20.8	40.4	24.4	40.6	23.0	36.8	20.0
NORMAL	40.6	22.9	39.5	18.5	39.5	23.3	40.6	22.6	36.0	18.6
HIGHEST	48.3		47.6		47.8		47.2		44.2	
DAY	18th		23rd		23rd		23rd		17th	
YEAR	1949		1961		1961		1961		1949	
LOWEST		14.4		11.1		13.9		10.0		7.8
DAY		4th.		19th.		2nd.		6th.		22nd.
YEAR		1943		1952		1943		1959		1936

JUNE 1961 .

TABLE 4-b .

(5) حزيران ١٩٦١

درجات الحرارة العظمى والصغرى اليومية (مئوية)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	هيت		الديوانية		الناصرية		البصرة		حبانية	
	HIT		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	37.7	21.0	38.7	22.5	41.0	24.8	39.8	23.8	39.4	22.0
2	40.5	22.5	44.5	24.4	44.5	24.7	43.9	24.4	39.9	25.6
3	41.5	22.5	43.0	24.6	44.8	24.6	43.5	27.2	40.0	23.8
4	41.0	28.0	43.0	26.7	43.7	25.0	40.9	26.8	42.8	22.9
5	41.2	24.4	39.4	23.8	44.1	25.1	40.5	26.2	37.9	23.1
6	35.5	28.0	36.5	25.7	35.8	25.9	34.8	27.0	36.6	24.3
7	37.4	24.0	38.8	23.0	38.2	26.0	35.2	24.9	39.5	21.5
8	39.4	25.0	40.6	26.2	41.0	26.4	38.5	24.0	40.4	25.4
9	42.2	24.8	42.8	22.6	42.9	23.8	40.5	23.8	42.7	23.4
10	43.0	26.2	44.8	26.5	45.8	24.6	44.2	23.5	43.1	25.5
11	43.7	25.6	45.0	24.4	46.7	24.3	43.5	26.5	44.5	24.5
12	43.7	28.2	45.8	25.2	47.1	26.8	44.0	28.7	45.4	26.6
13	44.0	24.7	41.2	27.7	46.6	26.2	45.0	24.8	38.8	26.6
14	38.2	25.0	38.3	19.6	41.1	23.6	38.5	27.0	35.6	23.2
15	36.3	21.5	38.2	21.2	39.2	22.9	36.5	24.2	37.8	22.8
16	37.7	21.8	39.5	20.6	41.2	22.6	37.2	22.7	39.0	24.5
17	39.6	22.2	40.8	21.3	42.0	21.9	39.8	23.0	40.6	23.5
18	40.7	23.2	42.0	23.0	43.0	22.7	40.2	24.4	42.2	23.6
19	41.5	24.1	42.8	22.6	44.2	22.6	42.0	22.6	42.2	24.4
20	42.0	26.0	43.6	25.6	44.5	25.4	43.0	25.0	42.2	22.8
21	44.5	27.2	41.6	24.6	42.2	24.8	38.8	28.4	41.2	24.2
22	42.0	29.0	41.0	26.4	41.7	28.4	38.2	26.8	41.4	26.1
23	45.5	25.0	44.6	27.0	46.5	27.3	44.6	26.5	44.9	26.6
24	44.2	26.2	41.8	27.8	46.2	26.5	45.1	25.2	40.8	27.2
25	42.0	29.8	41.8	28.2	43.3	30.0	40.4	27.0	40.0	25.0
26	41.7	26.1	42.2	23.5	44.1	24.4	39.6	28.5	42.0	23.9
27	45.2	27.2	45.4	24.0	46.6	26.6	42.1	28.9	44.4	23.8
28	45.5	30.7	45.6	29.0	47.5	27.2	44.1	26.5	45.0	26.8
29	44.8	31.0	44.8	26.4	46.0	29.6	42.7	27.1	43.8	27.5
30	42.2	28.7	41.8	20.5	42.9	26.2	38.8	30.5	42.2	23.7
MEANS	41.4	25.7	42.0	24.5	43.5	25.4	40.9	25.9	41.2	24.5
NORMAL	41.9	24.8	40.8	22.3	39.8	24.9	38.1	27.3	41.3	23.1
HIGHEST	49.5		46.6		48.3		48.2		48.9	
DAY	26th		28th		27th		26th		24th	
YEAR	1942		1947		1955		1957		1942	
LOWEST		18.3		14.4		18.3		20.5		15.6
DAY		1st.		1st.		26th		1st.		3rd.
YEAR		1943		1942		1943		1952		1943

JUNE 1961 . حزيران ١٩٦١

TABLE - 5 . المعدل الشهري لدرجات الحرارة الجافة (أ مئوية)

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	27.9	25.8	32.8	38.5	43.0	38.7	32.5	30.1	33.3
MOSUL	22.7	22.1	31.3	37.6	39.6	38.3	31.9	27.1	31.3
KIRKUK	26.6	25.9	33.6	37.5	39.6	38.0	32.1	29.0	32.8
KHANAQIN	.....	24.9	35.6	39.5	40.6	39.2	33.1	.....	35.5
KUTBAH	22.5	21.2	27.8	33.2	35.9	35.0	30.2	25.8	29.0
HAI	.....	26.8	34.4	39.6	40.9	38.0	32.6	.....	35.4
DIWANIYA	26.9	25.9	34.6	40.3	41.6	39.2	32.9	29.7	33.9
NASIRIYA	27.9	26.4	36.4	41.7	42.7	41.0	34.0	30.7	35.1
BASRAH	28.3	27.2	33.4	38.3	40.1	37.2	32.4	30.4	33.4
HABBANIYA	26.7	25.6	32.6	38.7	40.3	38.9	32.7	29.5	33.1

TABLE - 6 . المعدل الشهري لدرجات الحرارة الرطبة (أ مئوية)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	17.2	15.6	20.2	21.4	21.7	20.4	19.2	18.2	19.5
MOSUL	17.0	17.3	20.2	22.8	23.0	22.3	20.7	18.3	20.2
KIRKUK	15.9	15.8	18.4	19.6	23.3	17.0	17.5	16.9	18.0
KHANAQIN	.....	14.8	19.5	20.5	20.6	19.7	18.1	.....	18.9
KUTBAH	14.7	14.2	18.3	20.2	20.9	20.6	18.1	16.8	17.9
HAI	.....	17.4	21.6	22.5	23.6	23.2	21.0	.....	21.6
DIWANIYA	17.1	17.1	20.6	22.4	22.5	21.5	19.7	18.4	19.9
NASIRIYA	16.8	16.1	19.9	21.1	21.3	21.4	19.4	18.2	19.3
BASRAH	20.6	20.3	23.4	24.6	24.4	24.7	23.8	22.9	23.7
HABBANIYA	17.2	16.6	19.6	20.8	21.1	20.8	19.3	17.9	19.2

TABLE - 7 . المعدل الشهري للضغط الجوي مختزل الى مستوى سطح البحر (ملي بار) AT M.S.L.

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	03.4	04.3	04.9	04.5	03.1	02.4	03.2	03.5	1003.7
MOSUL	05.4	06.0	05.8	04.6	03.0	02.2	03.7	04.7	1004.3
KIRKUK	04.5	05.2	04.7	03.7	02.2	01.8	03.6	04.3	1003.8
KHANAQIN	.....	04.8	03.1	02.1	01.1	01.0	02.4	.....	1002.4
KUTBAH	05.7	06.5	06.8	06.4	05.3	04.8	05.1	05.4	1005.7
HAI	.....	01.5	02.4	02.2	97.6	00.3	01.3	.....	1003.9
DIWANIYA	02.7	03.4	04.2	04.0	02.5	02.2	02.8	02.7	1003.3
NASIRIYA	01.8	02.5	03.3	02.8	01.6	00.0	02.1	01.0	1001.3
BASRAH	01.1	01.7	02.6	02.4	01.3	00.6	01.2	01.3	1001.5
HABBANIYA	04.1	04.8	05.4	04.9	03.6	02.9	03.7	03.9	1004.2

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (٪)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	31	38	28	16	15	17	25	28	25
MOSUL	59	63	40	28	24	25	35	43	39
KIRKUK	29	31	20	13	11	11	19	25	20
KHANAQIN	..	49	17	13	11	11	17	..	16
KUTBAH	39	46	36	27	22	21	26	31	31
HAI	..	41	32	22	20	25	31	..	29
DIWANIYA	34	38	24	15	13	18	26	30	25
NASIRIYA	28	30	17	11	10	13	21	25	19
BASRAH	49	52	40	31	26	33	48	46	41
HABBANIYA	35	37	26	15	13	14	24	28	24

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TABLE - 9 .

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (Mbs..)

	T I M E - G . M . T .								
STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	11.1	11.8	13.6	11.9	11.3	11.9	11.8	11.4	11.9
MOSUL	15.7	16.7	18.7	18.1	17.3	16.5	14.8	14.7	16.6
KIRKUK	9.6	10.0	10.3	8.3	7.9	6.8	8.6	9.6	8.9
KHANAQIN	....	8.9	9.9	8.8	8.4	7.7	8.8	....	8.8
RUTBAH	10.6	11.5	13.5	13.5	13.1	11.9	11.3	10.6	12.0
HAI	....	13.8	17.1	16.0	15.3	16.5	14.8	....	15.6
DIWANIYA	11.7	12.5	15.3	12.7	11.9	11.7	12.8	12.3	12.6
NASIRIYA	10.4	10.1	10.1	8.8	8.4	9.8	11.0	11.0	10.0
BASRAH	18.7	18.6	20.9	20.3	18.8	21.1	23.0	19.8	20.2
HABBANIYA	12.1	11.9	12.5	10.3	9.5	10.1	11.7	11.5	11.2

TABLE - 10 .

المعدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	8.4	9.3	11.4	9.3	8.5	9.1	9.1	8.6	9.2
MOSUL	13.6	14.3	15.6	15.6	14.9	14.1	14.8	12.4	14.4
KIRKUK	6.1	6.7	7.0	4.1	2.9	1.1	4.4	6.2	4.8
RUTBAH	7.4	8.4	10.9	10.7	10.3	8.9	8.1	7.2	9.0
HAI	....	11.7	14.9	13.9	13.2	14.2	12.8	....	13.5
DIWANIYA	9.1	10.1	10.9	7.6	9.2	9.8	10.2	9.7	9.6
NASIRIYA	7.2	6.6	6.9	4.7	3.7	6.0	7.7	8.1	6.4
BASRAH	16.1	16.0	17.8	17.3	15.9	18.1	19.4	17.1	17.2
HABBANIYA	9.4	9.2	9.8	7.1	5.9	6.6	8.8	8.6	8.2

TABLE - 11 .

المعدل الشهري لكمية الغيم الواطئة (بالاعشار)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.0	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3
MOSUL	0.3	0.4	0.5	0.9	0.6	0.9	0.4	0.4	0.6
KIRKUK	0.1	0.3	0.3	0.4	0.7	0.7	0.3	0.2	0.4
KHANAQIN	...	0.7	0.5	0.3	0.3	0.5	0.5	...	0.5
RUTBAH	0.0	0.1	0.2	0.1	0.7	0.6	0.2	0.1	0.2
HAI	...	0.3	0.0	0.0	0.0	0.5	0.3	...	0.2
DIWANIYA	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.0	0.2
NASIRIYA	0.3	0.0	0.3	0.8	0.8	1.4	0.0	0.0	0.5
BASRAH	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.1
HABBANIYA	0.0	0.5	0.5	0.3	0.5	0.8	0.4	0.0	0.4

TABLE - 12 .

المعدل الشهري لمجموع كمية الغيم (بالاعشار)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.2	0.8	0.7	0.8	0.6	0.9	0.6	0.4	0.6
MOSUL	0.4	0.7	0.9	1.3	1.2	1.4	0.5	0.5	0.9
KIRKUK	0.3	0.5	0.3	0.7	0.8	0.7	0.3	0.2	0.5
KHANAQIN	....	0.8	1.0	1.0	0.7	0.9	0.7	...	0.9
RUTBAH	0.2	0.3	0.3	0.5	1.1	1.0	0.4	0.2	0.5
HAI	....	1.0	0.3	0.4	0.4	1.1	0.5	....	0.6
DIWANIYA	0.5	0.8	0.3	0.7	0.3	0.6	0.6	0.1	0.5
NASIRIYA	0.3	0.2	0.3	0.9	1.0	1.4	0.2	0.0	0.5
BASRAH	0.0	0.0	0.0	0.1	0.4	0.3	0.1	0.0	0.1
HABBANIYA	0.3	1.0	0.7	0.6	0.7	1.0	0.5	0.3	0.6

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TABLE 13-a .

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عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	CALM	SPEE IN KNOTS السرعة بالعقد 1-10	11-21	22-33	34 ⩾	معدل السرعة بالعقد MEAN V.K.
بغداد BAGHDAD	0000	11	2	1	2	0	0	1	8	5	14	11	0	0	8
	0300	8	0	1	0	0	1	2	15	3	20	7	0	0	7
	0600	6	1	0	1	0	0	2	17	3	12	15	0	0	11
	0900	3	0	0	1	0	0	5	19	2	10	16	2	0	13
	1200	4	0	0	1	1	2	4	18	0	10	18	2	0	13
	1500	4	0	0	1	1	1	9	14	0	15	14	1	0	10
	1800	1	0	0	1	1	0	3	20	5	17	8	0	0	7
	2100	8	1	0	1	0	1	1	14	4	19	7	0	0	7
	TOTAL	45	4	2	7	3	5	27	125	21	117	96	5	0	9
موصل MOSUL	0000	2	0	1	0	0	2	16	7	2	15	8	5	0	12
	0300	4	0	0	1	0	0	20	5	0	19	10	1	0	10
	0600	5	0	1	0	0	1	11	12	0	15	15	0	0	11
	0900	7	2	0	3	0	1	9	8	0	13	17	0	0	11
	1200	5	1	0	2	0	2	12	6	0	13	17	0	0	12
	1500	2	0	0	0	0	1	20	5	2	14	13	1	0	11
	1800	3	1	0	0	0	1	18	5	2	9	19	0	0	12
	2100	5	0	0	0	0	0	17	5	3	13	12	2	0	11
	TOTAL	33	4	4	6	0	8	123	53	9	111	111	9	0	11
كركوك KIRKUK	0000	3	4	2	0	1	0	1	2	17	11	2	0	0	3
	0300	1	6	2	0	0	0	3	1	17	13	0	0	0	2
	0600	6	1	0	3	2	1	5	1	11	19	0	0	0	3
	0900	2	1	0	0	3	5	13	3	3	26	1	0	0	5
	1200	2	0	0	1	2	8	14	3	0	24	5	1	0	9
	1500	2	0	0	1	0	8	18	1	1	21	8	0	0	8
	1800	1	1	1	0	0	2	9	4	12	17	1	0	0	3
	2100	1	4	1	0	0	0	3	1	20	10	0	0	0	2
	TOTAL	18	17	6	4	8	24	66	16	81	141	17	1	0	4
خانقين KHANAQIN	0300	1	0	4	0	2	0	0	0	23	7	0	0	0	1
	0600	0	1	2	0	5	0	5	2	15	15	0	0	0	2
	0900	5	1	1	0	10	0	8	4	1	27	2	0	0	6
	1200	7	0	1	0	8	0	12	1	1	28	0	1	0	6
	1500	3	0	0	0	2	1	16	6	2	27	0	1	0	6
	1800	2	0	0	0	6	0	4	3	15	15	0	0	0	2
	TOTAL	18	2	8	0	33	1	45	16	57	119	2	2	0	4
رطبة RUTBAH	0000	13	0	0	0	2	2	6	0	7	18	5	0	0	7
	0300	3	0	0	0	1	1	7	10	8	17	5	0	0	6
	0600	12	4	1	0	0	1	2	7	3	20	5	2	0	7
	0900	9	1	0	1	3	2	6	7	1	19	7	3	0	10
	1200	12	1	0	0	1	3	5	8	0	16	11	3	0	12
	1500	10	2	0	0	2	0	7	9	0	14	15	1	0	13
	1800	16	0	0	0	2	1	1	7	3	22	5	0	0	6
	2100	11	0	0	0	1	1	4	9	4	21	4	1	0	7
	TOTAL	86	8	1	1	12	11	38	57	26	147	57	10	0	8

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ABLE 13-b .

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت GMT. الوقت كرينتش TIME	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	
حي IAI	0300	1	0	1	1	0	0	10	17	0	20	10	0	0	10
	0600	1	0	0	1	1	0	10	12	5	6	15	4	0	13
	0900	3	0	1	1	2	0	8	14	1	8	14	7	0	14
	1200	0	0	1	1	1	2	11	14	0	7	18	5	0	15
	1500	0	0	1	0	0	0	12	12	5	8	16	1	0	10
	1800	0	0	1	0	0	0	18	8	3	13	14	0	0	10
	TOTAL	5	0	5	4	4	2	67	77	14	62	87	17	0	12
ديوانية DIWANIYA	0000	9	1	1	0	0	12	0	4	3	24	3	0	0	7
	0300	10	0	0	1	0	0	11	3	5	20	5	0	0	6
	0600	14	0	0	0	1	0	9	6	0	16	14	0	0	10
	0900	18	0	0	0	1	1	4	6	0	10	20	0	0	12
	1200	13	0	0	0	0	1	9	7	0	12	18	0	0	11
	1500	16	0	0	0	0	0	6	7	1	19	10	0	0	9
	1800	13	1	2	0	0	0	5	5	4	25	1	0	0	5
	2100	11	1	1	0	0	0	11	2	4	23	3	0	0	6
	TOTAL	104	3	4	1	2	14	55	40	17	149	74	0	0	8
ناصرية NASIRIYA NOTE: Obs. 1500&2100 UNCOMPLETE.	0000	5	0	0	2	2	1	5	11	4	22	4	0	0	7
	0300	4	0	0	1	2	2	8	11	2	23	5	0	0	7
	0600	7	1	0	1	1	1	7	12	0	17	13	0	0	11
	0900	8	1	0	1	1	2	3	14	0	14	12	4	0	13
	1200	9	0	2	2	0	0	5	12	0	14	15	1	0	13
	1500	3	1	1	0	0	0	3	10	0	13	5	0	0	9
	1800	5	2	2	1	0	0	3	16	1	25	4	0	0	7
	2100	3	0	0	0	1	0	4	8	2	14	2	0	0	6
	TOTAL	44	5	5	8	7	6	38	94	9	142	60	5	0	8
بصرة BASRAH	0000	7	0	2	0	0	1	2	12	6	19	4	1	0	5
	0300	9	0	0	0	1	2	5	9	4	23	3	0	0	4
	0600	7	0	0	0	2	0	3	15	3	19	7	1	0	7
	0900	2	0	0	2	0	0	1	21	4	17	8	1	0	8
	1200	3	0	0	1	1	0	0	23	2	17	11	0	0	9
	1500	5	0	0	1	1	0	0	21	3	26	1	0	0	5
	1800	3	1	0	1	0	0	1	13	11	15	4	0	0	4
	2100	7	0	0	0	0	0	2	14	7	16	7	0	0	6
	TOTAL	43	1	2	5	4	3	14	128	40	152	45	3	0	6
حبانية HABBANIYA	0000	2	0	0	0	0	0	1	10	17	12	1	0	0	3
	0300	4	0	0	0	0	0	3	14	9	17	4	0	0	5
	0600	6	0	1	0	0	0	2	18	3	14	11	2	0	9
	0900	7	0	1	0	0	1	0	20	1	16	13	0	0	11
	1200	4	0	0	0	0	0	6	16	4	18	8	0	0	7
	1500	9	0	0	0	1	2	2	15	1	15	13	1	0	10
	1800	4	0	0	1	0	1	0	13	11	16	3	1	0	4
	2100	4	0	0	1	0	0	0	10	15	12	3	0	0	3
	TOTAL	40	0	2	2	1	4	14	116	61	120	56	4	0	7

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TABLE 14 ٥

DAILY PRECIPITATION (MILLIMETERS) ; tr٥ (0.05 mm٥

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBA	HAI	DIWA-NIYA	NASI-RIYA	BASRA	HABB-ANIYA
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.1	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
MAX. FALL IN 24 HOURS	2.5	5.4	2.7	6.0	1.7	0.3	tr.	tr.	tr.	tr.
DAY	2nd	5th	12th	12th	2nd	4th	11th	4th	2nd	5th
YEAR	1955	1959	1957	1957	1954	1957	1944	1957	1958	1957

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TABLE 15 ٠

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

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

المحطة	مطر	ثلج	برد	عواصف رعدية	ضباب	غبار	السماء صافية	السماء غائمة	تجمد
STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	GROUND FROST
BAGHDAD	0	0	0	0	0	8	26	0	0
MOSUL	0	0	0	0	0	0	23	0	0
KIRKUK	0	0	0	0	0	0	26	0	0
KHANAQIN	0	0	0	0	0	0	25	0	0
RUTBAH	0	0	0	0	0	0	27	0	0
HAI	0	0	0	0	0	0	25	0	0
DIWANIYA	0	0	0	0	0	4	26	0	0
NASIRIYA	0	0	0	0	0	7	28	0	0
BASRAH	0	0	0	0	0	2	30	0	0
HABBANIYA	0	0	0	0	0	4	28	0	0

TABLE - 16 ٠

DURATION OF SUNSHINE : مدة سطوع الشمس

المحطة	المجموع الشهري للسطوع بالساعات	اعلى مدة سطوع الشمس في اليوم		عدد الأيام التي لم تشرق فيها الشمس
STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	283.0	13.2	20	2
MOSUL	348.2	13.7	3	0
BASRAH	328.2	13.1	9	0
HABBANIYA	292.8	12.9	17	0

TABLE - 17 ٠

MONTHLY MEAN TEMPERATURES OF: المعدل الشهري لـ

المحطة	حرارة العشب	حرارة التربة	
STATION	TEMPERATURE GRASS MINIMUM	EARTH TEMPERATURES 0.3 M	1.3 M
BAGHDAD	18.9	32.5	26.9
MOSUL	....	34.1	28.6
KIRKUK	18.3	29.4	26.6
HAI	20.6	....	....
NASIRIYA	23.6	....	....
BASRAH	21.0	....	....
HABBANIYA	23.1	34.9	29.5

TABLE 18-a. (12) Month: June 1961

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE								1000-mbs.			850-mbs.			700-mbs.			600-mbs.		
	$N_h C_h h_c C_c$	**	sPP	PPP	TT	Td	dd	ff	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	00900	02	803	023	34	09	15	01	23			449	21	07	084	06	54	328	53	66
2	30032	06	400	023	30	08	13	10	32	28	04	464	27	02	106	08	55	435	53	58
3	00900	07	703	050	29	04	35	15	34	29	07	459	22	03	093	06	58	430	55	66
4	00900	02	205	065	30	05	36	04	56	30	08	497	23	56	145	11	65	467	01	69
5	00900	02	705	048	27	08	01	02	39	39	04	480	24	58	131	10	61	385	00	67
6	00900	07	703	066	31	08	33	15	54	31	14	480	19	51	111	08	60	326	05	74
7	00900	06	708	061	26	04	32	14	54	26	01	474	19	52	111	11	62	432	02	70
8	00900	06	506	022	26	13	10	00	07			443	23	03	090	10	68	346	00	77
9	00900	02	307	034	24	09	33	09	27			449	22	02	099	10	62	369	04	71
10	00900	02	205	073	29	11	35	02	59	28	06	505	27	00	165	11	58	422	51	65
11	00900	02	705	083	28	13	00	00	72	32	09	533	27	04	199	12	58	464	02	65
12	10930	02	706	056	31	07	01	04	52	33	07	509	27	53	182	14	62	454	03	65
13	00900	02	705	999	31	05	36	02	503			445	26	11	105	09	00	350	53	59
14	00900	02	703	016	26	06	03	03	32			460	22	51	310	09	62	436	02	74
15	00900	02	702	040	23	11	00	00	34	23	11	450	18	04	078	07	56	324	51	69
16	00900	02	705	040	22	11	00	00	29	28	08	461	21	50	086	04	72	330	52	77
17	00900	02	704	016	26	09	34	05	16			454	23	03	310	07	58	434	51	68
18	00900	02	703	022	24	10	00	00	16			464	24	80	311	09	60	437	02	72
19	00900	02	801	012	27	10	10	02	9			464	26	06	126	11	56	383	00	68
20	00900	02	210	068	28	08	05	08	52	29	14	501	24	05	153	09	58	415	02	67
21	00900	02	708	079	31	07	33	15												
22	00900	02	400	067	29	06	31	15	56	31	09	502	26	05	169	12	56	443	05	63
23	00900	02	703	003	28	02	31	15	506			452	30	01	134	15	57	409	03	67
24	00900	02	204	010	32	08	33	14	3			470	30	14	168	18	05	461	05	
25	00900	02	603	015	30	10	32	15	16			441	30	08	131	17	02	413	05	58
26	00900	02	602	995	24	12	27	02	514			426	24	05	094	64	57	366	02	65
27	00900	02	804	002	29	09	36	10	1			454	26	02	117	12	61	382	01	17
28	00900	02	704	016	31	12	34	15	18			467	26	57	136	14	60	410	03	66
29	00900	02	801	017	32	06	34	18	12			471	27	01	145	14	61	416	06	
30	00900	02	705	000	31	04	34	14	5			459	26	52	126	13	65	397	04	69

TABLE 18-b. Month: June 1961.

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.			400-mbs.			300-mbs.			200-mbs.			150-mbs.		
	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	575	63	73	740	77	86	942	92	01	207	00	08	394	05	12
2	576	64	67	742	75	88	944	92	04						
3	584	65	29												
4	584	61	83	759	74	96	952	82	05	233	98	19	419	07	
5	582	57	79	751	72	92	957	85	94	233	97	16	420	07	
6	583	56	90	753	71	01	958	85	11	234	99		419	10	
7	581	59	79	751	68	85	960	82	00	236	00	16	420	10	29
8	578	59		747	70		954	85		228	00		411	61	
9	582	59	79	750	71	90	956	87	04	229	98	67	417	02	
10	585	60	79	753	73	90	958	86	02	231	01	17	413	14	
11	590	60	75	754	71		955	84		240	00		424	11	
12	589	61	69	757	71	87	962	84	04	240	98	21	425	09	
13	577	62	69	744	73	80	949	84	93	227	98	08	411	12	20
14	580	60	85	747	75	96	952	81	02	229	98	18	414	08	
15	575	61	79	743	72	90	952	79	98						
16	575	62	84	742	73	96	948	79	03	226	99	20	409	12	
17	578	61	78	744	72	89	953	77	95	236	46	13	419	08	29
18	581	59	81	749	72	93	957	78	08	237	99	15	421	09	
19	582	58	77	752	67	88	962	80	99	241	97	14	426	09	
20	586	58	79	756	66	89	968	78	99	247	48	17	431	12	33
21															
22	591	53	76	765	61	83	983	71	91	263	01	17	446	10	24
23	587	53	74	759	66	85	968	83	00	244	98	14			
24	592	54	58	766	63	73	979	78	84	256	01	10	439	11	20
25	586	57	69	759	64	79	971	79	92	249	98	09	434	10	20
26	581	54	72	753	66	83	963	81	98	239	00	14	422	11	
27	584	54	86	755	67		965	83	63	238	02	26	421	11	
28	586	54	76	758	65	89	969	80	07	247	00	19	433	08	
29	587	55	79	758	67	91	968	80	03	246	98	20	432	09	
30	585	58	77	755	65	92	967	79	05	246	98	20	429	14	

TABLE 18-c .

Month. June 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE								1000-mbs.			850-mbs.			700-mbs.			600-mbs.		
	$N_h C_L h C_M C_H$	ww	app	PPP	TT	Td	dd	ff	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	00900	06	710	035	38	10	30	04	34	31	11	462	20	01	093	07	60	331	55	56
2	00900	06	715	017	40	11	20	08				474	26	11	142	17	54	405	12	54
3	00900	02	711	056	39	08	36	10	52	38	13	496	24	07	149	11	60	409	01	65
4	00900	02	717	052	41	10	30	10	50	41	11	509	25	54	156	07	60	420	02	79
5	9X0XX	35	717	055	37	08	31	18	49	38	02	492	27	56	145	13	66	420	05	74
6	00900	07	716	062	35	09	29	25	59	35	05	484	19	03	112	10	64	376	02	70
7	00900	07	723	042	36	12	33	20	41	38	07	491	24	03	144	11	53	411	07	62
8	00900	07	713	013	40	09	33	15				461	24	58	102	09	66	365	03	87
9	00900	02	710	046	40	12	33	05	47	40	17	506	24	05	167	12	56	427	02	64
10	00900	06	710	091	41	09	36	12	87	42	15	551	27	52	227	14	62	492	01	64
11	00900	02	714	075	43	09	24	10	66	43	10	536	30	62	215	14	60	486	03	68
12	20913	03	718	023	44	06	13	04				508	27	10	172	11	52	429	52	69
13	00908	07	712	939	40	04	28	18				461	26	05	134	13	77	400	01	63
14	00900	02	709	033	35	11	27	15	33	34	12	459	19	02	098	11	64	358	02	73
15	11700	01	709	046	36	09	28	10	41	36	11	478	21	51	104	04	00	358	01	66
16	00900	02	714	022	38	06	30	12				451	22	50	093	09	59	346	51	69
17	00900	02	720	015	39	05	33	12				473	24	54	127	09	58	378	01	77
18	00900	02	713	014	41	07	31	04				480	27	52	144	11	63	407	01	74
19	00900	06	703	038	41	10	23	12	35	41	10	494	24	00	144	09	64	399	01	73
20	00900	02	704	078	41	08	36	10	71	41	12	527	26	02	182	10	56	452	04	80
21	00900	02	718	060	42	10	31	16	55	40	10	507	24	54	158	12	71	427	03	-
22	00900	31	722	035	41	05	32	22	34	41	07	504	27	11	189	19	01	474	07	58
23	00900	06	712	997	44	09	32	12				478	33	03	175	16	57	455	07	63
24	00900	06	720	018	41	12	32	12				493	30	10	182	15	51	461	03	59
25	00900	07	721	999	40	11	32	15				453	26	05	131	15	54	409	03	61
26	00900	02	714	002	41	11	31	15				472	28	54	163	16	65	448	06	66
27	00900	02	701	021	44	08	35	12				486	28	01	090	13	60	360	02	66
28	00900	02	710	008	44	07	32	16				482	27	60	145	11	67	405	00	72
29																				
30	00900	02	716	987	41	06	31	25				469	26	14	139	13	02	416	04	56

TABLE 16-d. Month: June 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.			400-mbs.			300-mbs.			200-mbs.			150-mbs.		
	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td	HHH	TT	Td
1	574	64	76	741	74	58	944	90	04	211	07	19	397	05	19
2	584	61	74	751	73	87	955	88	99	221	02	12	411	05	
3	584	62	78	751	73	93	956	83	99	243	96	15	413	07	
4	586	60		754	74	04	959	85	11	231	06		409	08	
5	588	56	85	758	71	93	965	82	06	243	95				
6	582	57	81	752	69	90	960	83	00	236	00	15	420	08	
7	589	60	69	755	60	82	964	82	97	240	99	14			
8	581	58		751	70		958	89		220	02		402	13	
9	587	59	76	754	72	89	959	86	01	221	01	15	404	12	
10	593	80	78	761	76	92	977	85	02	242	00	14	425	09	16
11	593	59	76	762	69	93	973	77	98	254	96	17	439	10	
12	584	65	66	749	77	82	953	85	94	228	00	09	411	12	21
13	583	62	72	749	76	83	955	82	91	233	97	05	419	09	19
14	579	60	83	748	69	95	958	77	06	241	95	20	428	08	
15	579	61	89	747	73	99	955	79	09	240	92	19	428	10	
16	578	61	84	745	74	95	951	81	02	230	97	17	415	10	
17	581	59	94	750	70	02	958	78	11	239	95		427	07	
18	585	58	86	755	68	00	966	77		248	95		434	08	
19	583	59	86	753	67	97	946	68	05	243	98	22	426	12	
20	590	58	92	761	65		974	79		252	92		434	11	
21	588	56		759	65		969	80		244	01		426	13	
22	595	52	67	768	63	77	981	79	91						
23	590	59	75	763	64	85	974	79	01	253	97	13	439	09	27
24	590	57	64	762	66	79	973	81	94	248	00	11	430	14	
25	586	52	70	759	64	84	970	81	99	247	96	11	433	09	22
26	591	53	74	765	62		978	78		258	95		445	07	
27	582	54	75	753	66	92	963	81	04	239	01		421	11	
28	585	57	86	755	68	96	963	87	10	238	01		421	13	
29															
30	587	56	64	759	63	74	972	77	90	252	97	06	437	10	17

Average height and temperatures for selected stations at (0001 G.M.T.)

850 , 700 & 500 - Millibars , Surface , 0001 G.M.T.

S T A T I O N S

	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	151	21	15	150	18	13	149	13	09	147	24	13	147	23	16	146	27	20	150	27	11	148	26	08
700-mbs.	316	11	19	313	07	19	309	03	16	311	09	14	313	10	16	314	14	19	317	14	11	315	13	11
500-mbs.	586	-8	25	581	-10	31	573	-13	23	582	-9	23	582	-8	22	587	-6	14	590	-4	11	586	-7	15

850 , 700 & 500 - Millibars , Surface , 1200 G.M.T.

	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.	152	20	12	151	18	10	150	17	09	148	29	11	149	25	15	147	28	16	155	28	08	148	25	12
700-mbs.	317	10	21	313	07	21	311	04	12	316	12	12	314	11	16	315	14	16	319	15	11	315	13	13
500-mbs.	587	-8	24	581	11	33	576	-12	24	585	-9	21	585	-8	21	588	-6	17	591	-4	10	587	-6	15

NOTE: The above informations are Extracted by Interpolation from upper Air Maps .

TABLE - 20-a

BAGHDAD AIRPORT

Month: June 1961 .

Frequency of Horizontal Visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M						1/1	1/1	1/1																	3
>200 -500M												1/1	1/1	2/2	1/1	2/2		1/1	1/1						9
>500 -1000M			1/1	3/3	5/5	4/4	4/5	4/4	3/3	2/2	3/3	2/2	1/1	1/1	1/1	1/1	1/1	1/1		1/1					39
>1000 -1500M			1	1					1	2			1	1	2		2	3						1	15
>1500 -3000M		1	5	4	4	5	2	2	2	2	2		3	1	1	3	3	1	1	1	1	1	1		46
>3 -5KM	2		2	4	6	5	5	7	4	4	4	5	1	2			5	5	3	1	2	3	1	1	72
>5 -10KM	3	3	7	9	8	8	4	3	4	7	5	6	7	5	5	8	9	7	7	5	4	1	4	3	132
>10 -15KM	10	14	8	7	5	5	8	8	12	6	9	10	9	11	13	12	8	10	10	11	12	11	9	10	228
>15KM	15	12	6	2	2	2	5	5	4	7	7	6	7	7	7	4	1	2	8	11	11	14	15	15	175
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

NOTE: In fields containing two numbers the first one gives the cases with dust in the air , the second number shows the total.

Frequency of different heights of cloud - base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
900M																									

TABLE - 20 -b

BASRAH AIRPORT

Month: June 1961 .

Frequency of Horizontal Visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M					1/1	2/2	2/2	2/2	3/3	2/2	2/2	1/1	1/1			1/1	3/3	2/2	1/1	1/1	1/1	1/1		1/1	27
>1000 -1500M	1/1	1/1	1/1	2/2	1/1		1/1	1/1	1/1	2/2	1/1	2/2	2/2	1/1		2/2			1/1						20
>1500 -3000M	3/3	3/3	3/3	1/2	2/3	3/3	2/2	3/3	3/3	3/3	4/4	3/3	2/2	2/3	4/4	2/2	2/2	4/4	4/4	4/4	4/4	3/3	5/5	4/4	76
>3 -5KM		1/1	1/1	1/1	1/2	1/2	1/2	1/1		1/1	1/1	1/1	2/2	2/2	2/2		1/1								20
>5 -10KM	4/4	3/4	3/7	3/6	4/6	2/6	2/5	2/8	5/8	2/5	2/5	1/4	2	1/4	1/4	2/6	5/7	1/3	1/2	2/3	1/2	3/5	2/3	2/4	113
>10 -15KM	9	6	7	6	8	7	8	7	8	5	8	7	8	7	7	7	8	5	7	5	7	4	5	7	163
>15KM	13	15	11	13	9	10	10	8	7	12	9	12	13	13	13	12	9	16	15	17	16	17	17	14	301
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

NOTE: In fields containing two numbers the first one gives the cases with dust in the air. the second number shows the total.

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M											1	1	1			1	1								5
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
900M																									

TABLE 21-a

Month : June 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (⩾5 Oktas)

HEIGHT METERS	VISIBILITY																												
	0-200M			200-500M			0.5-1KM			1-1.5KM			1.5-3KM			3-5KM			5-10KM			10-15KM			15KM			TOTAL		
0-50																													
⩾50-150																													
⩾150-300																													
⩾300-500																													
⩾500-900																													
⩽5/8 OR *			1					3	5		1			4	2	2	4	5	3	9	4	10	7	8	15	2	5	30	30	30
⩾900					1	2	2	1	1	2	1		2	3	3	4	1		7	7	8	6	9	12	7	7	4	30	30	30
AND ⩾5/8			1	1		4			12			4	1	1	16	3	3	22	7	1	46	10	11	73	8	14	62	30	30	240
			1					3	5		1			4	2	2	4	5	3	9	4	10	7	8	15	2	5	30	30	30
TOTAL					1	2	2	1	1	2	1	*	2	3	3	4	1		7	7	8	6	9	12	7	7	4	30	30	30
			1	1		4			12			4	1	1	16	3	3	22	7	1	46	10	11	73	8	14	62	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

G.M.T.

To= Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 21-b (20) Month: June 1961 .

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			≥200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50								1				1																	1	1
									1			1																		2
>50-150																														
>150-300																														
>300-500																														
>500-900																														
<5/8 OR *									2	1	3	1	3	2	2		1	2	3	7	5	9	6	8	14	11	10	30	30	30
900							2		1	2	2	1	3	2	2	1	2		6	2	6	6	8	7	10	13	12	30	29	29
AND ≥5/8							2		7		1	11	4	3	21			6	2	5	36	7	4	55	15	17	102	30	30	238
TOTAL									2	1	3	1	3	2	2		1	2	3	7	5	9	6	8	14	11	10	30	30	30
							2	1	1	2	2	2	3	2	2	1	2		6	2	6	6	8	7	10	13	12	30	30	30
							2		8		1	12	4	3	21			6	2	5	36	7	4	55	15	17	102	30	30	240

NOTE: The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

GMT.

To= Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

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. 7
Vol. 24
Month July
Year 1961

العـــدد ٧
مجـــلد ٢٤
الشهر تموز
السنة ١٩٦١

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

شعبة المناخ

بغداد

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

MINISTRY O F COMMUNICATIONS
DIRECTORATE GENERAL OF CIVIL AVIATION
METEOROLOGICAL DEPARTMENT
CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية شهرية

لشهر تموز ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR
JULY 1961

مجلد ٢٤ ، عدد (٧) تموز ١٩٦١

VOLUME 24 , No. (7) JULY 1961.

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تموز ١٩٦١ — شهر مغبر

كان الجو مغبرا في الايام الخمسة الاولى من هذا الشهر و شمل الغبار المتصاعد معظم المناطق . ايضا ساد القطر جوا حسنا في الفترة من ٦ لغاية ١٠ منه .

و من ١١ لغاية ٢٠ منه تصاعد غبار خفيف في معظم المناطق عدا يومي ١٨ و ١٩ منه حيث كان الجو فيهما مستقرا . اما . ما تبقى من ايام الشهر فقد كان الجو فيها حسنا بصورة عامة عدا اليومين الاخيرين من الشهر حيث تصاعد غبار خفيف شمل معظم المناطق .

كانت درجات الحرارة قريبة من معدلاتها و ما يقابلها من السنة الماضيـــــــــة .

JULY 1961 - DUSTY MONTH

During five days of this month widespread rising dust covered most areas. While fine weather prevailed during the period from 6 to 10th of the month.

From 11th to 20th the weather was generally unsettled due to light rising dust in most districts of IRAQ except on the 18th and 19th was fine . The weather remained settled from 21st to 29th. On 30th and 31st the weather was mainly hazy in most areas.

The temperatures were nearly close to normal and the record of last year .

JULY 1961 .

(1)

تموز ١٩٦١

TABLE - 1 .

المعدل اليومي لدرجات الحرارة (سنتغـــــراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	34.2	33.6	35.0	30.4	36.1	34.9	35.5	33.3	35.5
2	35.9	36.4	36.1	30.5	38.0	36.3	37.4	33.6	36.8
3	34.9	34.1	35.2	30.3	36.1	35.4	36.4	31.1	35.0
4	34.9	33.1	35.0	29.4	36.0	35.6	36.9	33.4	34.7
5	33.7	32.2	33.7	29.1	36.0	34.9	35.7	32.9	33.8
6	32.6	32.3	35.1	29.7	35.1	33.4	34.6	32.7	34.2
7	34.5	33.6	35.9	29.9	35.5	34.8	36.2	33.4	34.9
8	34.5	33.5	35.1	30.2	36.9	34.9	36.9	34.4	35.3
9	33.6	33.9	34.4	29.9	35.0	33.6	35.5	33.8	34.3
10	33.4	34.6	34.9	30.1	34.6	33.6	35.2	32.6	34.6
11	34.4	33.0	32.7	28.5	34.6	34.6	34.9	31.6	33.8
12	32.9	32.7	33.9	28.5	35.0	33.9	35.9	32.6	33.5
13	33.5	32.2	33.7	29.1	35.2	32.9	34.4	32.5	32.1
14	33.1	31.1	32.5	29.0	35.4	33.3	35.3	32.7	33.2
15	34.3	33.3	36.0	30.0	35.9	34.4	35.9	33.2	35.1
16	35.2	35.1	36.4	30.9	35.9	35.8	37.8	33.9	35.7
17	34.7	34.7	36.6	31.3	36.8	35.2	37.7	34.4	35.0
18	33.7	34.5	36.2	31.8	36.6	34.4	36.8	34.4	34.6
19	34.9	34.9	34.9	32.1	36.7	35.2	36.5	34.4	34.2
20	34.0	35.0	34.0	29.8	38.2	33.8	35.8	33.9	33.1
21	33.7	35.7	36.3	31.4	35.5	34.0	34.8	32.7	35.4
22	34.1	33.5	35.0	31.1	36.7	35.4	37.3	33.4	34.8
23	35.1	34.4	36.4	31.4	37.3	35.4	36.4	30.9	35.1
24	35.4	34.1	36.7	32.6	36.7	36.7	36.8	36.4	35.9
25	37.0	34.7	37.2	34.1	37.4	36.8	37.2	36.8	35.3
26	36.2	34.8	37.8	34.5	39.1	36.7	37.8	37.9	35.7
27	37.4	34.8	37.0	39.4	39.2	38.0	38.7	39.4	36.0
28	37.7	34.5	38.8	31.5	38.2	38.3	37.3	37.4	36.1
29	34.9	32.2	34.1	30.7	38.2	36.1	38.1	36.6	34.5
30	34.6	33.5	34.7	31.2	37.9	35.2	37.1	34.4	34.2
31	37.1	33.2	34.9	31.2	36.9	34.7	35.8	34.2	34.6
MEANS	34.7	33.8	35.4	30.7	36.5	35.1	36.4	34.0	34.7
NORMAL	34.1	33.3	35.2	30.7	36.2	34.2	34.2	33.9	35.0
YEARS OF NORMAL	1937	1923	1935	1928 TO 1956	1940	1939	1940	1937	1935

NOTE: TIME G . M . T .

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

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

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
	999.0	997.2	996.2	1001.6	994.1	996.2	995.6	994.2	997.8
	97.5	97.5	96.9	02.2	94.6	97.1	95.8	94.0	98.6
	99.3	98.1	97.9	02.7	96.6	98.7	97.4	96.1	99.8
	98.2	94.0	97.4	02.6	96.0	97.9	97.0	95.7	99.3
	97.9	97.4	97.2	01.6	95.7	97.4	96.1	94.3	98.7
	98.3	96.4	95.2	00.2	94.5	96.1	95.6	96.5	96.8
	96.1	93.6	95.5	00.8	94.3	95.9	95.6	94.7	97.1
	97.9	97.6	97.2	02.0	95.6	97.7	96.8	96.0	98.8
	96.9	95.6	95.4	01.0	95.6	97.1	97.0	96.3	97.7
	99.8	94.4	94.1	999.4	94.4	95.6	95.6	95.6	96.1
	97.6	96.1	96.8	01.2	96.5	97.9	97.3	96.9	98.4
	99.0	99.0	98.3	02.2	97.7	99.4	98.8	98.6	99.8
	99.4	98.7	98.3	01.3	97.9	99.3	99.0	98.5	99.8
	99.1	99.1	98.6	02.4	97.0	98.6	97.9	96.8	99.6
	95.5	98.0	96.3	02.4	94.3	95.9	95.9	95.9	97.5
	94.4	97.5	97.9	002.6	92.6	93.8	93.8	93.2	95.8
	93.7	96.2	94.1	999.0	91.6	93.2	92.7	92.5	95.2
	97.4	99.6	95.5	999.0	94.6	95.9	95.2	94.4	96.7
	99.3	98.8	99.3	01.3	97.3	98.8	98.0	96.9	99,8
	99.6	99.8	99.1	03.1	96.6	99.9	97.9	96.2	1000.5
	98.6	95.1	94.6	00.6	95.1	96.3	96.5	96.3	96.9
	97.5	96.5	96.7	00.1	96.1	97.3	96.7	98.2	98.0
	97.8	99.0	97.7	02.0	95.7	97.5	96.9	96.6	98.9
	1000.0	1000.4	99.8	02.8	98.4	99.7	98.7	98.9	1000.6
	99.2	99.4	98.7	01.5	97.8	98.5	97.9	98.3	99.9
	98.7	96.3	98.1	998.2	94.4	95.6	95.3	94.9	96.7
	96.1	98.9	95.2	997.3	94.0	95.0	94.1	94.0	96.7
	95.2	97.6	96.6	999.5	94.7	95.3	94.9	95.4	97.4
	1000.2	1000.8	1000.2	1002.5	97.5	99.0	97.4	97.0	1000.8
	97.9	98.7	997.8	01.7	94.8	97.2	96.1	94.5	99.1
	96.8	96.7	95.7	00.5	94.9	96.5	95.9	94.6	97.5
ANS	997.9	997.6	997.0	1001.1	995.5	997.0	996.4	995.9	998.1
RMAL	998.5	998.6	997.4	1002.2	997.5	997.7	997.7	997.2	998.7
61:									
GHEST	1001.7	1002.2	1001.6	1004.4	999.2	1000.6	1000.0	1000.7	1002.4
ME	0900	0600	0600	0600	0900	0900	0600	0600	0600
Y	29th	20	20	20	24	24	13	25	20th
WEST	992.7	992.1	991.9	995.9	990.4	991.9	992.0	992.0	994.3
ME	1500	1500	1200	1800	1500	1500	1500	12&15	1500
Y	17th	10	10	27	17	18	17	17	10th
CORDS:									
GHEST	1008.5	1015.0	1007.4	1010.8	1006.8	1007.9	1006.7	1006.0	NOT AVAI-LABLE
ME	18&21	0600	0300	0600	0900	0600	0600	0900	
Y	4th	23	12	2	4	12	4	4	
AR	1957	1941	1958	1944	1957	1958	1957	1957	
WEST	990.0	990.2	990.3	993.8	990.2	991.1	991.3	990.3	
ME	0600	1300	1800	1200	0000	1500	1500	1500	
Y	19th	22	26	26	3	26	22	3	
AR	1948	1939	1950	1950	1959	1954	1956	1959	

JULY 1961 .

TABLE - 3 .

تموز ١٩٦١

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	26	37	14	42	30	24	22	41	24
2	24	31	14	36	27	29	19	46	22
3	26	38	15	35	31	23	19	41	24
4	30	35	14	39	32	27	22	44	26
5	29	37	16	39	27	25	16	41	25
6	30	39	14	34	29	27	19	46	21
7	25	35	13	32	29	25	19	39	21
8	25	35	16	36	25	21	17	32	18
9	32	35	21	33	29	26	20	38	21
10	35	38	19	29	30	27	19	39	22
11	29	42	26	38	32	22	20	44	22
12	27	38	17	39	30	22	18	35	21
13	24	37	18	32	25	26	17	43	26
14	28	43	21	32	24	26	18	43	24
15	27	40	18	30	26	22	16	35	17
16	28	32	17	25	32	21	17	32	15
17	23	31	15	23	27	19	21	33	13
18	26	36	15	23	23	20	13	38	15
19	24	33	17	24	22	24	13	39	21
20	22	29	16	31	17	19	14	39	19
21	27	32	19	30	28	27	17	39	24
22	31	37	22	30	30	23	19	53	25
23	24	33	14	26	26	22	21	43	19
24	21	32	11	18	35	17	23	45	16
25	21	33	11	15	34	20	31	66	21
26	27	35	12	14	25	24	20	46	24
27	22	34	13	14	23	21	17	48	25
28	21	33	12	34	34	21	31	52	23
29	26	41	22	33	24	21	29	57	28
30	26	40	19	22	21	23	14	43	25
31	31	39	17	25	22	13	15	38	24
MEANS	26	36	16	29	27	23	19	43	22
NORMAL	23	29	20	25	24	30	34	49	25
1961 :									
HIGHEST	48	76	34	68	47	44	68	86	46
TIME	0300	0300	0300	0300	1800	2100	0300	0300	0300
DAY	9th	18	29	1	25	13	29	25	4
LOWEST	9	18	3	7	12	8	5	12	5
TIME	1200	1200	1200	1200	1200	1500	1200	1200	1200
DAY	17th	28	25	27	20	24	19	24	18

JULY 1961 .

TABLE 4a .

تموز ١٩٦١

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		MOSUL		KIRKUK		KHANAQIN		RUTB/AH	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	42.3	24.7	44.7	18.3	43.4	25.8	45.0	22.2	38.0	21.6
2	42.8	28.2	45.3	25.2	45.5	26.4	46.7	23.9	38.4	22.2
3	41.2	27.8	44.5	23.3	44.4	25.1	44.5	26.7	37.0	22.4
4	41.8	27.6	44.0	20.5	44.0	25.1	44.5	25.6	37.4	20.4
5	40.8	26.4	43.3	18.1	42.9	23.4	43.0	24.8	37.0	22.0
6	41.4	23.8	44.8	19.4	44.8	24.9	45.0	23.3	37.0	21.3
7	43.7	24.6	44.7	19.7	45.0	26.6	46.0	22.8	38.3	21.5
8	42.2	25.2	43.8	19.1	43.3	25.6	44.5	21.7	38.0	21.8
9	41.8	24.5	44.9	19.7	43.5	24.8	42.5	24.4	38.2	22.0
10	39.8	25.7	45.2	21.6	42.3	26.5	41.1	25.5	37.3	22.3
11	38.4	28.2	40.4	26.9	39.5	27.3	38.3	30.6	36.8	19.6
12	39.8	26.0	43.4	21.2	41.8	24.4	41.1	22.8	37.0	20.5
13	40.5	25.9	41.9	20.6	41.2	27.1	41.1	25.6	37.2	20.5
14	39.5	24.4	40.6	21.4	39.4	25.4	40.0	26.1	35.8	21.0
15	43.2	24.8	44.1	20.3	42.0	26.5	44.0	22.2	37.8	20.8
16	44.2	24.7	43.6	27.6	41.9	32.3	43.9	28.3	39.2	22.2
17	45.0	22.8	44.7	26.3	42.9	30.6	45.0	26.1	39.4	23.2
18	43.3	24.1	44.5	19.5	44.5	28.5	44.5	22.8	39.9	22.6
19	44.0	23.7	43.8	20.7	43.3	25.3	44.0	22.8	40.3	24.6
20	41.9	26.8	43.2	25.8	42.5	26.1	43.0	22.8	37.5	21.2
21	42.2	21.2	47.8	20.1	45.9	25.6	45.6	21.1	39.5	22.5
22	42.5	28.2	44.8	21.4	43.4	27.1	42.8	30.6	39.4	23.0
23	44.2	27.6	46.0	21.2	45.8	27.2	46.0	27.2	40.0	21.6
24	46.0	25.7	47.0	20.9	46.8	26.8	47.2	24.4	42.0	22.6
25	46.0	27.0	47.6	20.1	47.0	26.8	47.2	26.1	44.3	22.8
26	46.7	25.2	47.6	20.7	46.6	28.4	46.7	26.7	44.4	23.5
27	46.6	24.8	46.2	19.7	45.4	27.1	46.1	25.6	44.3	22.5
28	45.8	26.2	47.3	21.6	48.0	30.5	47.8	25.6	39.9	22.2
29	42.0	29.3	42.6	20.4	41.7	27.0	43.3	20.6	38.6	21.3
30	43.8	25.6	44.4	21.9	43.9	25.0	45.6	20.6	40.4	21.0
31	43.0	24.4	45.3	21.3	44.5	25.8	44.4	21.1	39.5	22.0
MEANS	42.8	25.6	44.6	21.4	43.8	26.6	44.2	24.5	39.0	21.9
NORMAL	43.4	25.0	43.3	22.0	42.7	26.4	43.8	25.6	38.6	21.4
HIGHEST	50.0		51.1		48.0		50.0		46.1	
DAY	31st		21st		28th		19th		21 & 22	
YEAR	1957		1937		1961		1940		1940	
LOWEST		16.6		13.8		20.0		15.5		14.4
DAY		8th		12th		13th		12th		6th
YEAR		1946		1958		1950		1958		1933

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TABLE 4-b .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	41.5	25.2	42.6	24.0	42.9	25.8	39.2	26.0	44.0	26.1
2	44.0	29.2	44.0	26.0	44.0	30.0	40.1	28.7	44.6	28.9
3	41.2	30.0	42.0	26.9	43.0	31.0	38.9	27.7	42.4	27.8
4	41.2	28.8	41.8	27.0	43.7	30.2	39.2	28.2	41.4	27.4
5	41.0	29.6	41.6	28.0	43.5	30.0	38.7	27.4	41.8	26.2
6	40.8	26.2	41.0	25.1	42.5	27.0	38.7	26.8	43.0	25.5
7	42.6	24.8	43.5	24.5	44.5	27.0	40.7	24.8	43.8	26.1
8	42.6	27.4	43.0	26.8	44.5	30.0	41.5	26.7	42.9	27.6
9	41.0	27.7	42.6	24.1	43.5	26.6	39.8	28.0	43.4	24.7
10	39.9	26.2	41.0	23.0	42.6	26.9	40.2	27.0	42.0	25.8
11	38.9	30.0	40.2	31.0	42.0	26.4	36.2	27.2	39.2	26.4
12	40.3	28.3	40.5	27.7	41.6	29.5	39.1	25.1	41.0	27.2
13	40.0	26.0	41.3	21.8	42.8	24.3	38.5	25.6	41.1	23.2
14	41.2	25.1	41.8	24.1	43.0	25.9	40.0	24.6	41.0	25.6
15	42.2	25.8	42.2	25.5	44.0	27.0	40.8	25.2	43.4	25.2
16	43.0	26.2	45.0	27.7	45.7	29.1	40.3	28.2	41.5	25.7
17	43.3	27.3	45.5	24.5	46.2	27.7	41.4	27.4	44.8	25.0
18	43.4	26.3	44.1	26.0	46.5	27.6	41.7	28.0	44.6	23.7
19	44.4	23.7	45.3	21.7	46.2	24.3	41.8	25.7	43.9	23.9
20	43.6	29.2	42.6	23.6	44.8	27.1	38.7	28.3	42.0	25.9
21	42.8	23.8	43.8	20.5	44.0	23.0	39.1	25.1	43.9	24.4
22	41.2	32.2	42.5	27.6	44.8	31.6	39.5	27.0	43.2	27.6
23	43.7	27.2	44.5	26.8	45.7	27.1	42.5	26.1	45.0	25.9
24	46.0	27.2	47.0	24.0	48.0	27.0	47.6	27.3	46.4	25.5
25	44.8	26.8	46.5	25.0	45.8	26.6	44.4	30.4	46.7	24.6
26	46.4	28.3	47.2	26.0	48.6	27.4	44.8	30.5	47.9	25.0
27	46.8	26.5	49.2	24.5	48.6	27.0	46.0	31.6	47.2	25.8
28	45.4	29.2	48.3	27.8	47.6	28.1	45.1	33.2	45.5	25.5
29	44.4	31.0	44.0	29.2	45.8	31.1	44.6	30.8	43.2	26.9
30	44.4	29.0	43.5	25.2	45.0	28.5	40.5	29.3	44.2	23.9
31	43.4	26.3	43.3	25.0	44.8	26.5	41.5	28.2	43.9	25.0
MEANS	42.8	27.4	43.3	22.3	44.7	27.5	4[illegible].0	27.6	43.6	25.1
NORMAL	44.0	26.3	42.7	23.7	42.7	25.4	40.3	27.6	44.2	25.7
HIGHEST	50.0		49.5		48.9		50.5		50.6	
DAY	22nd		4		29&30		26		3rd.	
YEAR	1943		1945		1951		1951		1948	
LOWEST		21.6		16.5		20.0		22.2		21.1
DAY		25th		12		15		15		21st.
YEAR		1950		1958		1952		1952		1948

TABLE - 5 . المعدل الشهري لدرجات الحرارة (بصلة الجاف)

MONTHLY MEAN DRY BULB TEMPERATURES (C°) بالدرجات المئوية

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	28.4	27.0	32.8	39.6	42.4	40.4	34.3	31.4	34.5
MOSUL	24.0	23.0	33.6	41.5	44.0	42.1	34.6	28.0	33.9
KIRKUK	29.1	27.7	35.7	40.7	42.8	41.4	34.4	31.4	35.4
KHANAQIN	....	26.6	35.8	41.8	43.5	42.4	35.6	....	37.6
RUTBAH	23.5	22.7	29.4	35.3	38.2	37.5	31.7	27.1	30.7
HAI	....	28.4	34.1	40.9	42.5	39.3	34.0	....	36.5
DIWANIYA	28.9	27.3	37.8	41.0	43.4	41.2	33.7	31.2	35.6
NASIRIYA	29.9	28.4	36.4	42.6	44.1	42.0	35.6	32.1	36.4
BASRAH	29.9	28.3	33.4	37.7	40.1	38.2	34.0	31.7	34.2
HABBANIYA	28.3	26.4	32.9	40.4	43.0	41.0	34.7	31.1	31.6

TABLE - 6 . المعدل الشهري لدرجات الحرارة (البصلة الرطبة) بالدرجات المئوية

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	17.9	17.7	21.4	23.1	23.3	22.9	20.2	18.4	20.6
MOSUL	17.4	17.1	21.5	24.6	24.9	24.2	20.9	18.7	21.2
KIRKUK	16.5	16.4	19.2	20.5	20.9	20.1	18.3	17.5	18.7
KHANAQIN	....	15.4	19.7	21.3	21.5	21.0	19.6	....	19.7
RUTBAH	15.9	16.0	19.1	21.0	21.7	21.1	18.7	16.4	18.7
HAI	....	17.7	21.7	23.8	23.6	23.1	20.5	....	21.7
DIWANIYA	17.6	17.3	20.7	22.5	22.7	22.2	20.6	18.9	20.3
NASIRIYA	17.9	17.3	20.2	22.3	22.4	22.2	20.5	18.8	20.2
BASRAH	22.4	21.3	24.9	25.8	25.9	26.0	25.2	23.8	24.4
HABBANIYA	16.9	16.7	20.1	22.0	22.0	21.8	19.9	18.2	19.7

TABLE - 7 . المعدل الشهري للضغط الجوي (بالملبارات) على سطح البحر

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	97.1	97.9	98.3	98.2	96.9	96.1	97.1	97.2	997.3
MOSUL	98.4	99.1	99.0	98.0	96.1	97.8	97.0	98.0	997.9
KIRKUK	97.5	98.2	97.7	96.6	95.3	95.1	97.2	97.7	996.9
KHANAQIN	....	97.8	96.5	95.4	94.2	91.0	92.7	....	994.6
RUTBAH	01.1	01.6	01.9	01.5	00.3	00.3	00.7	00.9	1001.0
HAI	....	95.6	95.9	96.3	95.0	94.5	95.4	....	995.5
DIWANIYA	96.6	97.5	98.3	98.0	96.6	96.1	96.7	96.7	997.1
NASIRIYA	96.2	96.7	97.4	97.0	95.6	95.5	96.4	96.4	996.4
BASRAH	95.2	95.7	96.4	96.2	95.4	94.8	95.6	95.7	995.6
HABBANIYA	98.1	98.7	99.5	98.9	97.7	97.1	97.9	98.1	998.3

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (٪)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	31	37	33	22	17	18	24	27	26
MOSUL	54	58	35	25	21	23	29	42	35
KIRKUK	23	26	16	11	9	9	15	21	16
KHANAQIN	..	25	18	12	10	10	18	..	16
RUTBAH	39	47	34	24	20	19	24	29	30
HAI	..	34	33	23	20	25	28	..	27
DIWANIYA	25	32	25	16	13	15	25	26	22
NASIRIYA	26	28	17	12	11	14	21	23	19
BASRAH	50	51	43	36	30	36	47	49	43
HABBANIYA	26	34	27	16	11	14	21	24	22

TABLE - 9 . المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.1	13.0	16.4	15.2	13.5	13.9	13.3	12.3	13.7
MOSUL	15.7	16.0	18.0	19.6	19.0	18.8	15.8	15.5	17.3
KIRKUK	8.8	9.6	9.1	8.1	7.1	6.6	8.2	9.2	8.3
KHANAQIN	....	8.7	10.3	8.9	8.5	7.7	10.1	....	9.0
RUTBAH	11.7	13.0	13.8	13.4	12.7	12.0	11.0	10.2	12.2
HAI	....	13.2	17.6	17.9	16.7	17.5	14.9	....	16.3
DIWANIYA	11.2	11.8	13.8	12.7	11.1	11.4	13.2	11.9	12.1
NASIRIYA	11.1	11.0	10.8	10.7	9.9	11.2	12.3	11.2	11.0
BASRAH	21.5	20.1	22.5	23.9	22.4	24.2	25.3	23.5	22.9
HABBANIYA	10.2	11.5	13.3	11.7	9.7	10.9	11.4	10.7	11.1

TABLE - 10. المعدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.5	10.6	14.2	13.0	11.3	11.6	13.3	11.3	11.9
MOSUL	13.5	13.9	15.7	17.1	16.6	18.1	13.6	13.3	15.2
KIRKUK	4.9	6.3	5.2	3.1	1.4	0.4	3.7	5.7	3.8
RUTBAH	8.4	11.0	11.3	10.8	9.8	9.1	7.6	7.2	9.4
HAI	....	11.0	15.4	15.4	14.4	15.0	12.5	....	14.0
DIWANIYA	8.5	9.0	11.3	10.2	8.3	8.7	10.8	9.3	9.5
NASIRIYA	7.9	7.7	7.9	7.5	6.4	7.6	9.0	8.0	7.8
BASRAH	17.9	16.8	19.0	20.1	18.8	20.1	21.0	19.6	19.2
HABBANIYA	6.8	8.5	10.8	9.0	6.3	7.8	8.5	7.5	8.1

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.3	0.3	0.0	0.0	0.0	0.5	0.3	0.3	0.2
MOSUL	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1
KIRKUK	0.3	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.2
KHANAQIN	...	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
RUTBAH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
HAI	...	0.0	0.8	0.8	0.0	0.0	0.0	...	0.3
DIWANIYA	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1
NASIRIYA	0.0	0.3	0.4	0.0	0.3	0.0	0.0	0.0	0.1
BASRAH	0.0	0.3	0.3	0.5	0.5	0.6	0.0	0.0	0.3
HABBANIYA	0.3	0.0	0.0	0.0	0.3	1.0	0.5	0.0	0.3

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

MONTHLY MEAN TOTAL cloud AMOUNT (OKTAS)

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

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TABLE 13-a ، عدد تكرار رصدات الرياح السطحيـــــة :

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	وقت كرينتس TIME GMT.	DIRECTION الاتجاه								SPEED IN KNOTS السرعة بالعقد					معدل السرعة بالعقد
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	MEAN V.K.
بغداد BAGHDAD	0000	5	0	0	0	0	0	4	22	0	12	19	0	0	12
	0300	2	0	0	0	0	0	4	25	0	9	22	0	0	12
	0600	1	0	0	0	0	0	5	25	0	6	24	1	0	15
	0900	4	0	0	0	0	0	13	14	0	4	27	0	0	15
	1200	5	0	0	0	0	0	4	22	0	4	26	1	0	14
	1500	4	0	0	0	0	0	8	19	0	14	16	1	0	12
	1800	1	0	0	0	0	0	8	22	0	16	15	0	0	10
	2100	1	0	0	0	0	0	7	23	0	17	14	0	0	11
	TOTAL	23	0	0	0	0	0	53	172	0	82	163	3	0	13
موصل MOSUL	0000	4	1	0	0	0	1	8	4	13	13	3	2	0	5
	0300	9	0	0	0	0	0	10	8	4	25	2	0	0	5
	0600	8	0	1	0	0	0	10	12	0	29	2	0	0	5
	0900	9	2	1	0	1	1	11	3	2	20	9	0	0	7
	1200	7	2	1	1	1	5	11	3	0	21	10	0	0	9
	1500	5	1	1	0	1	3	15	2	3	18	10	0	0	8
	1800	2	0	1	0	2	3	18	1	4	13	14	0	0	9
	2100	6	0	2	0	0	1	10	4	8	19	2	2	0	5
	TOTAL	50	6	8	1	5	14	93	37	34	158	52	4	0	7
كركوك KIRKUK	0000	0	7	0	0	0	1	0	0	29	8	0	0	0	2
	0300	0	5	1	0	0	1	0	0	24	6	1	0	0	1
	0600	3	3	1	0	1	0	9	2	12	17	2	0	0	3
	0900	2	4	1	1	2	1	4	5	1	27	3	0	0	5
	1200	2	2	0	0	2	6	15	4	0	29	2	0	0	7
	1500	3	0	0	0	0	7	20	1	0	27	4	0	0	7
	1800	0	2	0	0	0	3	8	4	14	15	2	0	0	4
	2100	1	3	0	0	0	0	1	1	25	5	1	0	0	1
	TOTAL	11	26	3	1	4	20	67	17	99	134	15	0	0	4
خانقين KHANAQIN	0300	0	0	5	1	5	0	1	0	19	12	0	0	0	1
	0600	3	0	0	0	5	1	6	3	13	18	0	0	0	3
	0900	4	0	0	0	8	0	10	5	4	27	0	0	0	5
	1200	3	0	1	0	3	0	16	5	3	28	0	0	0	5
	1500	0	0	0	0	3	0	17	7	4	27	0	0	0	4
	1800	1	0	0	0	2	1	6	0	21	10	0	0	0	1
	TOTAL	11	0	6	1	26	2	56	20	64	122	0	0	0	3
رطبة RUTBAH	0000	6	0	0	0	0	2	1	20	2	11	17	1	0	12
	0300	6	0	0	0	0	1	5	18	1	13	14	3	0	12
	0600	19	0	0	0	0	0	0	10	2	9	18	2	0	12
	0900	9	1	0	0	0	0	4	16	1	12	17	1	0	11
	1200	14	0	0	0	1	0	4	12	0	8	19	4	0	14
	1500	11	2	0	0	0	0	2	16	0	11	19	1	0	13
	1800	13	0	0	0	0	0	2	11	5	24	2	0	0	6
	2100	12	0	0	0	1	0	2	12	4	16	11	0	0	9
	TOTAL	90	3	0	0	2	3	20	115	15	104	117	12	0	11

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TABLE 13-b . عدد تكرار رصدات الرياح السطحية :

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

STATION / 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	CALM	1-10	11-21	22-33	34	
HAI / حي	0300	0	0	0	0	0	1	13	15	2	11	18	0	0	11
	0600	2	0	1	0	0	0	15	11	2	9	19	1	0	12
	0900	2	0	0	3	0	0	8	18	0	7	20	4	0	15
	1200	2	0	0	1	0	0	7	19	2	7	19	3	0	14
	1500	2	0	0	0	1	0	10	14	4	12	15	0	0	9
	1800	0	0	0	0	0	0	9	18	4	17	10	0	0	7
	TOTAL	8	0	1	4	1	1	62	95	14	63	101	8	0	11
DIWANIYA / ديوانية	0000	9	0	0	0	0	0	20	2	0	25	6	0	0	8
	0300	5	0	0	0	0	0	19	7	0	24	7	0	0	7
	0600	9	0	0	0	0	0	14	8	0	15	16	0	0	10
	0900	11	0	0	0	0	0	11	9	0	11	19	1	0	12
	1200	11	0	0	0	0	0	6	14	0	9	22	0	0	12
	1500	7	0	0	0	0	0	7	17	0	26	5	0	0	8
	1800	8	0	0	0	0	0	16	4	3	27	1	0	0	5
	2100	4	0	0	0	0	0	25	2	0	28	3	0	0	7
	TOTAL	64	0	0	0	0	0	118	63	3	165	79	1	0	9
NASIRIYA / ناصرية	0000	0	0	0	0	0	0	16	11	4	24	3	0	0	7
	0300	0	0	1	0	0	0	13	16	1	26	4	0	0	8
	0600	2	0	0	0	0	0	6	23	0	13	16	2	0	13
	0900	5	0	2	0	0	0	5	19	0	9	21	1	0	14
	1200	3	1	1	0	2	0	7	17	0	13	18	0	0	13
	1500	5	0	2	1	0	0	7	16	0	14	17	0	0	11
	1800	1	0	1	1	0	0	16	10	2	29	0	0	0	6
	2100	2	0	2	0	0	0	18	7	2	28	1	0	0	6
	TOTAL	18	1	9	2	2	0	88	119	9	156	80	3	0	10
BASRAH / بصرة	0000	1	0	0	1	2	2	4	17	4	23	4	0	0	5
	0300	0	0	0	0	2	1	15	7	6	23	2	0	0	4
	0600	3	0	1	0	2	0	2	20	3	18	10	0	0	8
	0900	2	0	0	1	1	1	0	24	3	17	11	0	0	9
	1200	1	0	0	1	0	1	0	25	3	15	13	0	0	9
	1500	3	0	0	0	2	0	2	19	5	23	3	0	0	5
	1800	0	0	0	0	4	1	2	18	6	22	3	0	0	5
	2100	1	0	0	0	5	0	2	14	9	18	4	0	0	4
	TOTAL	11	0	1	3	18	5	27	144	39	159	50	0	0	6
HABBANIYA / حبانية	0000	1	0	0	0	0	0	1	24	5	16	10	0	0	8
	0300	0	0	0	0	0	0	1	26	5	20	7	0	0	8
	0600	2	0	0	0	0	0	2	27	0	6	24	1	0	11
	0900	2	0	0	0	0	0	7	22	0	6	24	1	0	11
	1200	2	0	0	0	0	0	11	18	0	11	19	1	0	12
	1500	3	0	0	0	0	0	6	21	1	19	11	0	0	9
	1800	0	1	0	0	0	0	6	18	6	17	8	0	0	7
	2100	0	0	0	0	0	0	4	19	8	20	3	0	0	5
	TOTAL	10	1	0	0	0	0	38	165	24	115	106	3	0	9

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تموز ١٩٦١

TABLE 14 .

الهطول اليومي (ملمترات)

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRA	HA'BBA-NIYA
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.0	0.1	0.0	0.5	0.0	0.0	0.2	0.0	0.2	0.0
MAX. RAINFALL IN 24 HOURS	tr.	2.3	0.3	9.1	tr.	0.0	3.7	tr.	3.2	tr.
DAY	9th	8	11	10	9	-	30	30	30	3
YEAR	1950	1943	1947	1938	1950	-	1945	1954	1945	1954

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TABLE 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

No. OF DAYS OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY
BAGHDAD	0	0	0	0	0	6	31	0
MOSUL	0	0	0	0	0	0	31	0
KIRKUK	0	0	0	0	0	0	30	0
KHANAQIN	0	0	0	0	0	1	30	0
RUTBAH	0	0	0	0	0	0	31	0
HAI	0	0	0	0	0	0	27	0
DIWANIYA	0	0	0	0	0	1	30	0
NASIRIYA	0	0	0	0	0	9	30	0
BASRAH	0	0	0	0	0	1	28	0
HABBANIYA	0	0	0	0	0	4	31	0

TABLE - 16 .

DURATION OF SUNSHINE : مدة سطوع الشمس

STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	302.9	13.0	26&31	1
MOSUL	365.7	13.2	16	0
BASRAH	275.4	11.9	16	2
HABBANIYA	334.6	13.0	30	0

TABLE - 17 . المعدلات الحرارية لدرجة حرارة العشب و التربة بالفهرنهايت

MONTHLY MEAN TEMPERATURES OF :

STATION	GRASS MINIMUM TEMPERATURES C°	EARTH TEMPERATURES C° 0.3 M	EARTH TEMPERATURES C° 1.2 M
BAGHDAD	21.0	34.1	28.8
MOSUL	....	36.4	31.7
KIRKUK	19.0	31.7	29.2
HAI	23.1	....	....
NASIRIYA	25.0	....	....
BASRAH	23.6	....	....
HABBANIYA	23.6	36.1	31.7

TABLE 18-a. Month: July 1961

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE							1000-mbs.					850-mbs.					700-mbs.					600-mbs.				
	$N_hC_LhC_MC_H$	ww	app	PPP	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	00900	02	711	969	25	08	31	08	524					420	25	03			096	16	07			380	07	78		
2	00900	02	201	963	30	10	31	18	536					423	29	07	23	26	113	16	54	25	11	394	04	59	34	16
3	00900	02	307	990	31	11	32	13	513					488	27	52	02	14	113	14	61	02	10	384	02	62		
4	00900	07	400	987	32	04	32	20	520					438	27	08			118	15	02			393	02	54		
5	00900	06	201	983	30	12	32	12	513					427	26		26	24	101	14		27	27	373	02		28	28
6	00900	02	705	965	25	12	29	06	522					424	28	09	31	05	110	16	52	00	00	401	11	59	00	00
7	00900	02	302	937	25	07	28	12	542					508	28	51	34	14	080	14	58	31	22	358	09	72	18	04
8	00900	02	809	973	29	10	32	12	528					428	28	06	33	06	108	15		24	03	382	89		34	13
9	00900	02	811	973	28	10	30	10	526					420	26	56	35	04	098	14	61	36	14	381	09		35	46
10	00900	02	705	956	27	10	29	10	535					415	25	05	35	26	080	12	55	00	00	362	09	69	33	16
11	9X0XX	32	203	955	39	17	31	16																				
12	00900	02	701	982	30	10	28	12	516					430	25	00	27	08	086	14	69	32	06	371	03	79	19	10
13	00900	02	701	992	27	08	31	10	510					488	26	02	31	11	111	14	53	31	02	392	06	75	18	11
14	00900	02	302	999	27	09	21	14	512					454	28	11			133	13	02			415	07	56		
15	00900	02	705	978	28	10	31	12	520					431	34	07	31	22	099	14	61	20	24	384	07	83	32	16
16	00900	02	203	954	26	10	30	05	544					413	28	14			080	14	94			367	09	59		
17	00900	02	705	925	25	10	31	10	558					395	28	59	29	07	078	13	69	27	06	367	07	80	27	08
18	00900	02	400	941	27	06	31	13	554					407	28	55	24	04	289	16	66	25	10	473	05	78	22	02
19	00900	02	702	972	26	08	31	04	528					433	28	57	31	04	103	13		31	06	383	07		18	11
20	00900	02	803	997	31	08	34	12	002					461	27	66	31	20	133	13	69	31	21	413	07	70	30	27
21	00900	02	716	964	24	07	30	08	534					424	28	07	36	07	001	15	54	01	08	297	10	66	04	06
22	00900	02	802	963	32	01	32	12	532					428	28	03	28	10	108	17	58	18	08	405	10	68	14	20
23	00900	02	701	973	29	10	31	13	522					444	28	52	36	13	129	17	66	15	04	420	07	70	10	11
24	00900	02	205	965	30	10	30	14	515					450	30	50			152	19	57			451	08	57		
25	00900	02	702	997	33	00	34	16	508					466	31	54	33	12	169	19	57	20	04	467	08	61	16	10
26	00900	02	710	964	27	11	32	10	584					440	30	03			128	17	55			413	05	62		
27	00900	02	702	954	33	08	36	07	545					435	33	00			133	18	60			420	07	59		
28	00900	02	710	947	33	08	03	10	546					486	33	07	00	00	144	18	04	00	00	488	07	62	00	00
29	00900	02	203	993	32	09	34	18	505					451	30	07			156	19	53			444	04	61		
30	00900	02	806	990	28	13	32	13	506					446	28	04	32	19	141	18	64	27	10	433	08	73	25	08
31	00900	02	400	969	26	11	30	13	525					425	26	51	32	15	108	16	62	34	11	389	05	72	26	06

TABLE 18-b .

Month: July 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	584	54	84			758	61	93			973	75	07			254	97				488	11			
2	585	54	72	31	14	758	61	89	25	38	973	76	01	23	48	254	95	16	21	44	489	11			
3	583	52	74			758	62	90			972	76	01			251	00				483	14			
4	589	02	71			763	60	84			978	76	95			259	97	13			484	11			
5	585	56		25	36	760	61		23	20	975	76		23	22	256	98				481	10			
6	590	04	69	10	15	768	58	82	27	22	975	73	04	28	19	261	92				450	04			
7	584	01	85	17	02	760	61	93			965	76	05			245	98	23			430	10			
8	586	51		28	13	760	63		15	09	973	98													
9	586	51		34	28	760	62				976	74				261	94				448	08			
10	585	51	77	12	22	759	60	87			975	74	01			259	97	18			442	12			
11																									
12	582	51	86			767	60	93			971	76	05			251	96				437	08			
13	586	51	86	22	17	761	60	94	23	18	976	75	04	21	18	259	95	25			445	08			
14	590	01	71			768	58	79			980	74	93			269	94	10			456	08			
15	587	01		26	20	768	58		23	28	980	73		23	28	265	94		23	32	452	08		28	26
16	585	52	72			758	64	83			972	77	48			251	97	13			475	12			
17	584	51	87	28	04	757	64	96	28	12	971	75	04	25	10	253	95	20			440	08			
18	594	52	84	28	10	768	62	93	27	11	981	77	03			260	98	21							
19	585	53		20	26	759	61		25	40	972	77				252	98				436	11			
20	588	51	82	27	13	963	60	96	28	13	979	74	11	22	22	263	98	27	22	19	451	05	34		
21	578	51	75			752	62	84			965	77	96			247	95	12			434	06	22		
22	588	53	75	20	15	762	63	87	24	14	975	77	01	21	06	255	96	16			440	09			
23	588	54	75	12	14	761	64	89	19	18	973	79	03	17	14	253	97	16			442	11			
24	592	55	65			766	61	78			980	75	90			262	96	10			447	11			
25	594	56	65	12	06	768	61	76	00	00	982	76	93	20	06	264	95	16	18	18	450	10	30	15	14
26	586	05	62			759	64	83			970	81	95												
27	589	51	75			763	63	84			975	79	98			255	97	13			440	09			
28	591	54	70	00	00	763	64	79	04	12	975	80	93	32	13	254	97	11			439	10	24		
29	589	57	68			761	65	80			973	79	94			250	98	10			434	10			
30	559	52	81	31	12	765	61	88	30	10	980	76	03	28	15	261	96	14			448	07	24		
31	586	52	77	28	04	760	64	87	24	04	971	79	99			251	97	15			435	13			

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE $N_h C_L h C_M C_H$	ww	app	PPP	TT	Td	dd	ff	1000-mbs. HHH	TT	Td	dd	ff	850-mbs. HHH	TT	Td	dd	ff	700-mbs. HHH	TT	Td	dd	ff	600-mbs. HHH	TT	Td	dd	ff
1	00900	06	716	936	42	10	33	11	535					436	28	05			114	17	65			392	06	60		
2	00900	31	706	968	43	11	32	20	524					456	29	08			145	16	55			429	06	57		
3	00900	07	708	994	41	10	30	18	501					464	28	06	31	12	150	14	54	28	04	421	02	56	28	04
4	00900	06	721	969	41	13	35	08	524					442	27	06			116	15	56			388	02	12		
5	00900	09	718	974	40	12	30	12	527					436	28	56	25	10	113	13	64	19	23	388	10	75	17	12
6	00900	07	714	951	41	11	29	16	544					422	27	03			093	12	59			372	12	77		
7	00900	07	714	951	43	10	32	16	545					425	27		31	18	100	16		36	04	386	16		16	03
8	00900	07	712	969	42	12	30	25	524					451	27	10	32	22	128	15	55	29	08	408	05	65	28	04
9	00900	02	711	962	41	15	31	13	534					432	27	56	30	11	101	14	77	28	05	387	10	83	30	06
10	00900	06	710	944	40	17	29	14	546					413	26	00	28	15	088	13	61	31	03	371	08	79	29	03
11	00900	07	714	978	38	14	29	16	520					424	23		27	08	081	15		29	05	359	06		26	09
12	00900	06	709	987	40	12	28	14	511					446	25	03	31	15	119	16	67	36	14	407	18		09	03
13	00900	07	712	990	40	09	30	18	519					448	26	03	30	20	114	14	62	22	04	394	05	75	19	13
14	00900	02	711	990	39	10	30	18	510					442	25	56	31	19	104	07		32	15	378	07		32	15
15	00900	02	715	948	43	14	32	14	548					430	29	04	34	11	109	13	94	26	15	389	07	67	23	05
16	00900	02	709	937	44	14	32	13	961					420	29	00	34	09	097	13	60	02	14	381	08		36	14
17	00900	02	709	930	45	04	32	16	969					427	30	04	34	19	109	16	65	36	11	396	07	74	35	16
18	00900	02	503	963	43	10	30	06	538					431	27	54	26	10	109	16	71	20	10	394	00	78	22	14
19	00900	02	709	923	44	10	33	13	507					463	27	51	33	20	130	12	60	31	18	404	05	72	21	11
20	00900	07	718	995	42	10	32	18	516					444	25	61	32	17	098	12	68	35	16	377	08	78	28	10
21	00900	06	712	954	42	12	31	13	540					431	27	51	18	03	111	17	63	02	26	402	07	75	12	04
22	00900	02	713	973	41	16	32	10	535					433	27	08	24	18	124	18	59	28	27	415	08	62	23	18
23	00900	06	718	972	48	07	36	12	519					465	31	73	33	13	162	19	81	29	10	462	09	86	22	25
24	00900	02	711	000	46	07	36	15	000					487	31	62	31	13	185	19	67	19	07	478	07	63	17	11
25	00900	02	717	998	46	12	34	10	507					480	30	00	31	12	180	19	56	32	02	462	06	58	23	04
26	00900	02	717	951	47	11	30	16	540					458	32	51	31	18	155	18	67	22	08	423	06	61	23	09
27	00900	02	711	960	46	07	36	10	536					457	32	02	31	13	156	16	58	33	17	442	05	65	28	14
28	00900	02	707	960	46	11	32	13	549					447	37		29	06	145	27		27	04	423	04		29	04
29	00900	02	716	001	42	13	32	15	002					470	27	01	31	18	157	17	55	23	17	443	06	58	25	12
30	00900	02	714	971	44	15	32	20	525					453	28	13	32	20	148	18	00	30	09	439	07	60	20	05
31	00900	02	713	962	43	09	30	15	530					443	27	54	29	13	121	16	64	28	04	404	05	73	28	06

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	585	55	73			757	63	90			972	76	00			252	97	16			437	10			
2	589	54	73			764	61	84			978	77	97			259	96	05			445	10			
3	588	51		32	11	763	62		28	11	976	78		27	10	255	99				437	14			
4	587	00	75			762	62	91			979	77	01			296	97	21			441	11			
5	588	02	86	28	10	764	60	93	27	12	979	76	04	24	20	259	98	24	26	20	444	11			
6	586	01	87			761	62	01			975	77	12			256	96				443	08			
7	588	01		21	04	764	60		20	14	979	76		21	10	264	90		22	15	454	09		25	18
8	589	01	73	25	12	763	62	81	25	12	977	73	90	28	21	262	94	08	28	17	450	06	18	27	12
9	588	01	89	26	09	763	60		31	08	979	75		31	10	263	96				449	10			
10	586	51	85	23	08	762	59	92	23	09	977	77	05	28	08	258	97	21			440	12			
11	583	01		25	16	759	59		28	10	974	77		24	24	255	97		28	18	440	10			
12	588	00		00	00	764	60		22	21	978	77		24	24	259	95		22	17	447	05		21	15
13	586	53	81	21	20	760	61	89	22	22	974	76	01	22	33	256	96	16	21	35	442	10		21	25
14	586	01		24	15	762	60		23	28	977	76		24	31	260	94		24	42	447	08		19	41
15	587	02	82	26	04	762	61	93	25	27	977	74	03	26	34	260	95	19	25	20	447	08		26	30
16	586	53		39	13	759	63		26	26	973	76		27	33	255	95		29	26	443	07		27	32
17	586	54	88	33	10	759	62		30	12	974	76		34	12	255	97		35	10	440	09		30	08
18	586	52	88	21	10	763	60	97	19	07	978	75	10	22	06	264	96		07	06	450			08	06
19	586	55	75	20	22	759	63	86	19	17	973	74	95	20	14	254	97	15	20	09	439	11		16	08
20	585	51	86	29	22	760	61	94	28	24	973	75	04			256	95	19			443	07			
21	587	56	85	27	04	759	64	96	01	01	972	78	08	22	11	252	97	22	12	10	439	10		19	05
22	589	53	67	19	20	763	64	80	21	26	976	77	91			257	96	58			443	10			
23	594	53	89	17	11	768	60	00	20	11	983	76	12	22	13	264	97		21	12	454	11		22	12
24	594	56	67	22	07	766	62	83	00	00	980	78	98	18	05	259	97	12	12	09	443	11			
25	592	56	65	31	06	675	64	82	27	06	977	79	93	21	06	256	98	10	22	15	439	11		34	12
26	590	52	71	27	08	764	62	80	30	08	978	77	94	25	10	257	97	11	26	14	442	10		24	14
27	590	56	77	24	07	764	64	84	21	17	977	80	97	24	19	254	99	14	30	14					
28	588	56		19	09	758	64		22	14	967	80		24	13	247	98		19	15	431	12		15	16
29	590	56	67	28	08	763	63	82	24	18	976	77	95	24	15	258	95	10	22	15	445	08	21	20	23
30	591	52	70	28	10	766	63	77	26	12	978	79	92	25	09	258	96	09	27	18	442	13		25	24
31	588	51	79	28	17	762	64	89	28	18	974	78	00	28	31	254	97	15	26	27	438	13		26	16

AVERAGE HEIGHT AND TEMPERATURES FOR SELECTED STATIONS

850 , 700 & 500 - mbs., Surface , 0000 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.,	148	20	11	148	22	13	149	16	11	144	27	10	143	27	14	142	29	22	147	29	12	145	26	11
700-mbs.,	314	13	14	314	11	09	311	05	12	311	14	12	312	15	13	312	16	13	314	16	11	313	13	11
500-mbs.,	588	-3	14	585	-5	21	578	-10	22	586	-5	18	587	-3	17	587	-3	16	588	-3	10	585	-7	15

850 , 700 & 500 - mbs., Surface , 1200 G.M.T.

STATION	62366			17606			17130			40754			40650			40427			40477			40596		
	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF	HHH	TT	FF
850-mbs.,	149	19	10	149	23	09	151	20	09	145	28	12	144	27	14	143	29	19	148	28	12	146	26	12
700-mns.,	315	13	12	314	11	11	314	06	10	314	15	11	314	16	12	312	17	15	315	16	09	313	14	12
500-mbs.,	589	-3	11	586	-5	20	581	-9	27	587	-4	17	588	-2	11	587	-3	12	590	-2	11	586	-6	14

NOTE: THE ABOVE INFORMATIONS ARE EXTRACTED BY INTERPOLATION FROM UPPER AIR MAPS.

TABLE 20-a

Months July 1961

BAGHDAD AIRPORT

FREQUENCY OF HORIZONTAL VISIBILITY

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M			1/1																1/1						2
>200 -500M	1/1	1/1		1/1			1/1		1/1		1/1	1/1		1/1	1/1		1/1								10
>500 -1000M					2/2	1/1	1/1	2/2	1/1	3/3	3/3	2/2	3/3	1/1	3/3	4/4	2/2	1/1	1/1	1/1	1/1			1/1	33
>1000 -1500M				1			1	2	2	1		1	2	4	1		2	2				1			20
>1500 -3000M			1	2	2	6	3	3	2	1	1	1	1	1	1	2	3	6		1	1				38
>3 -5KM		1	2	2	1	3	3	2	3	4	4	2	3	1	2	5	12	8	4	3	2	1	2		70
>5 -10KM	2	3	8	8	11	9	9	6	8	10	7	12	5	7	11	13	9	8	8	4	2	3	2	4	169
>10 -15KM	11	9	9	9	9	8	9	12	7	7	12	9	12	9	3	4	2	6	16	14	13	12	12	10	227
>15KM	17	17	10	8	6	4	4	4	7	5	3	3	5	8	5	3			1	8	12	14	15	16	175
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air, the second number shows the total.

Frequency of different heights of cloud - base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
>900	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

TABLE 20-b. (18) Month: July 1961 .

BASRAH AIRPORT

Frequency of horizontal visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M											1	1	1												3
>500 -1000M			1	1		1	2	2	2	2	2	1		1											15
>1000 -1500M								1	2	4	2		2	2	2	2	2								19
>1500 -3000M	2	2	2/3	3	5	3	2	2	10	8	9	12	10	6	9	6	6	6	2	1	1		1	1	110
>3 -5KM	1	1		2/3	2	4	3	5	2	2	3	3	2	5	2	5	6	4	7	6	4	4	1	1	76
>5 -10KM	4/5	4/5	3/5	1/6	1/6	2/6	5/11	6/11	4/5	3/5	2/2	2/2	3/4	4/4	6/6	7/8	4/9	5/7	3/7	4/9	6/8	5/7	6/7	4/5	149
>10 -15KM	5	6	7	6	6	8	8	5	4	4	5	6	7	7	7	7	6	10	8	7	6	8	7	5	155
>15KM	18	18	15	12	12	9	5	6	6	6	7	6	5	5	5	3	2	4	7	8	12	12	15	19	217
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fields containing two numbers the first one gives the cases with dust in the air , the second number shows the total .

Frequency fo different heights of cloud - base (amount 5-8 oktas)

T I M E - G.M.T.

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M				1	1	1	1	1	1	2	2	1	2	2	2	2	1								20
>50 -150M																									
>150 -300M																									—
>300 -500M																									
>500 -900M																									
900M	1	1	1	1	1	1			1				1												8

TABLE 21-a . BAGHDAD Month: July 1961 .

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥5 Oktas)

HEIGHT METERS	VISIBILITY 0-200M	≥200-500M	≥0.5-1KM	≥1-1.5KM	≥1.5-3KM	≥3-5KM	≥5-10KM	≥10-15KM	≥15KM	TOTAL
0-50										
≥50-150										
≥150-300										
≥300-500										
≥500-900										
< 5/8 OF *		1 1 1	1	1 1	2 3	2	3 2 8	9 11 9	9 17 8	4 31 31	31
> 900		3 3	4 1	2 1	1 2	4 3	5 10 5	13 7 12	4 5 5	3 31 31	31
AND ≥ 5/8	1	1 3 1	12	1 6	9	4 1	22 8 3	58 16 12	80 1 14	57 31 31	248
		1 1 1	1	1 1	2 3	2	3 2 8	9 11 9	9 17 8	4 31 31	31
TOTAL		3 3	4 1	2 1	1 2	4 3	5 10 5	13 7 12	4 5 5	3 31 31	31
	1	1 3 1	12	1 6	9	4	22 8 3	58 16 12	80 1 14	57 31 31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15 GMT.
18	21	To

To=Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

TABLE 21-b .

Month: July 1961 .

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (⩾5 Oktas)

HEIGHT METERS	VISIBILITY																												
	0-200M			⩾200-500M			⩾0.5-1KM			⩾1-1.5KM			⩾1.5-3KM			⩾3-5KM			⩾5-10KM			⩾10-15KM			⩾15KM			TOTAL		
0-50								1					1															1	1	1
				1			1						1		2				1									2	2	2
					1			2						4					1										8
⩾50-150																													
⩾150-300																													
⩾300-500																													
⩾500-900																													
⟨5/8 OR *							1	1				2	3	2	1	3	3	5	5	11	5	6	8	18	12	5	31	30	30
⩾900						2			3	3	2	7	9	4	2	2	4	5	3	8	4	7	7	6	5	4	29	29	29
AND ⩾5/8								4			8	2		29	7	5	27	7	6	50	8	8	53	7	12	69	31	31	240
						1	2					2	4	2	1	3	3	5	5	11	5	6	8	18	12	5	31	31	31
TOTAL				1		3			3	3	2	8	9	6	2	2	4	5	4	8	4	7	7	6	5	4	31	31	31
					1			6			8	2		23	7	5	27	7	6	51	8	8	53	7	12	69	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

G.M.T.

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

REPUBLIC OF IRAQ

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

METEOROLOGICAL DEPARTMENT

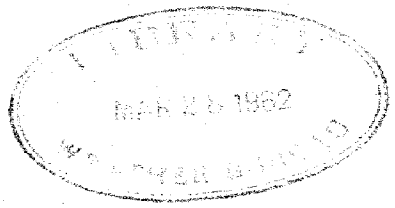
شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 8
Vol. 24
Month August
Year 1961



العدد ٨
مجلد ٢٤
الشهر اب
السنة ١٩٦١

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

قسم 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 شهرية لشهر آب ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR AUGUST 1961 .

مجلد ٢٤، عدد (٨) لشهر آب ١٩٦١ .

VOLUME 24 , No. (8) A U G U S T 1 9 6 1 .

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(٥)

آب ١٩٦١ ـ شهر حار و مغبر

كانت الميزة البارزة لهذا الشهر هو كثرة تصاعد الغبار في معظم الايام بسبب مرور مراكز للضغط الجوي المنخفض في العراق في معظم ايام الشهر

وكانت الرياح السائدة على العموم شمالية غربية خفيفة السرعة او معتدلة و جنوبية شرقية شديدة في حالات الغبار الكثيف

وكان المعدل اليومي لدرجة الحرارة العظمى اكثر من المعدل مما يقابله من السنة الماضية بحوالي درجة مئوية واحد

AUGUST 1961

WARM & HAZY .

The most outstanding feature of the month was rising dust or hazy most of the days , due to successive of low pressure passed over Iraq during most days of the month .

Winds generally were light to moderate NW'ly and moderate SE'ly with thick dust cases .

Daily Maximum temperatures were above normal and higher than its values on the same month of last year .

AUGUST 1961 .

TABLE - 1 .

(1)

آب ١٩٦١

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	34.2	34.9	37.0	32.3	34.2	33.7	35.0	33.7	35.3
2	34.4	35.9	37.0	31.2	35.8	35.2	36.2	35.7	34.8
3	35.6	34.6	36.9	32.1	36.5	35.6	37.2	35.0	34.8
4	35.3	34.9	35.9	31.2	37.7	35.9	36.8	35.2	35.3
5	33.9	35.1	34.7	30.7	37.7	34.3	36.1	37.3	33.9
6	33.9	32.2	34.9	31.4	36.6	33.6	35.9	33.5	34.7
7	32.7	32.7	36.4	30.3	35.6	33.6	35.7	35.1	36.4
8	35.8	35.1	37.1	31.4	35.8	34.8	35.6	33.7	35.1
9	36.2	33.9	37.0	30.5	36.2	36.1	36.1	34.8	36.4
10	34.7	33.7	37.8	30.6	38.2	35.9	37.3	35.5	35.9
11	35.4	34.1	34.4	30.5	38.0	34.8	37.1	35.0	33.5
12	34.9	33.6	34.8	30.8	38.6	35.4	36.7	34.7	34.2
13	35.7	31.8	34.9	32.3	39.6	36.6	37.7	34.9	35.6
14	35.7	34.2	36.3	31.7	38.6	36.3	38.3	36.2	36.2
15	35.7	36.1	38.9	33.7	38.6	36.8	37.7	35.7	36.6
16	36.0	36.7	39.7	33.1	36.9	35.7	37.2	35.0	37.5
17	35.5	34.5	39.3	34.8	36.1	36.4	37.5	34.5	37.5
18	36.7	36.0	39.1	32.9	36.5	36.4	37.1	36.5	37.0
19	36.2	34.7	35.0	30.7	38.9	36.8	39.0	35.9	34.6
20	33.6	34.1	33.5	30.4	38.0	35.4	37.4	35.5	33.0
21	33.9	34.4	35.7	30.1	36.4	33.7	35.1	33.7	35.8
22	34.9	35.5	37.9	31.3	35.3	33.4	34.5	32.6	35.3
23	35.3	35.3	38.1	32.1	37.1	35.4	36.2	35.9	35.4
24	35.4	35.5	37.5	31.8	36.2	36.4	36.4	35.0	35.4
25	38.9	33.7	35.5	30.5	37.1	36.7	36.9	36.6	36.4
26	36.9	31.5	34.5	30.9	38.5	35.5	37.6	35.3	34.8
27	33.7	32.6	34.0	30.7	36.5	34.7	36.4	33.8	34.2
28	33.4	31.8	33.4	30.5	36.4	33.9	35.3	32.5	32.8
29	32.7	30.1	32.6	30.4	36.7	34.1	35.0	33.8	31.4
30	33.9	29.6	33.8	32.6	37.4	35.5	35.8	33.1	33.6
31	33.8	31.4	35.4	29.6	37.7	34.4	37.0	34.3	32.7
MEANS	35.0	33.9	36.1	31.4	37.1	35.3	36.6	34.8	34.9
NORMAL	33.5	32.6	31.8	30.5	36.0	33.6	34.6	33.6	34.4
YEARS OF NORMAL	1937	1923	1935	1928 to 1956	1940	1939	1940	1937	1935

NOTE: T I M E - G . M . T .

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

AUGUST 1961 . آب ١٩٦١

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

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

التاريخ DATE	بغداد BAGH-DAD	موصل MOSUL	كركوك KIRKUK	رطبة RUTBAH	حي HAI	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BASRAH	حبانية HABBA-NIYA
1	994.9	995.7	994.2	998.1	994.5	995.1	995.4	994.9	995.5
2	96.2	96.2	95.8	98.1	95.2	95.9	95.9	96.6	96.4
3	98.8	99.3	98.9	1000.7	98.0	98.9	98.5	98.7	99.2
4	1000.1	1001.1	1000.0	02.7	98.1	99.7	98.9	98.1	1000.7
5	98.7	98.6	98.0	02.0	96.5	98.5	97.5	96.3	99.5
6	96.6	96.5	95.7	00.8	94.6	96.3	95.7	95.1	98.6
7	95.5	96.4	94.8	00.4	94.7	95.7	95.5	97.6	96
8	96.6	99.5	97.8	00.5	95.8	96.4	96.6	96.4	97.3
9	98.6	01.8	99.9	02.8	97.1	98.3	97.8	97.6	99.2
10	99.4	01.0	99.2	03.1	97.3	98.8	97.9	97.6	00.6
11	99.9	00.0	99.8	02.1	97.3	99.2	98.1	96.9	00.3
12	01.9	02.7	02.1	03.0	99.1	00.9	99.6	98.0	02.5
13	02.7	03.6	02.8	03.9	99.5	00.5	99.9	98.4	02.9
14	00.9	01.9	00.5	03.5	98.6	00.2	99.4	98.3	01.3
15	96.8	98.4	96.4	00.9	95.5	96.6	96.4	95.9	97.8
16	95.3	97.8	96.0	99.9	94.4	95.0	95.0	95,0	96.2
17	96.4	97.2	96.5	99.5	95.3	95.7	95.5	96.5	96.8
18	97.8	99.2	97.6	00.8	97.4	97.7	97.4	97.9	98.3
19	01.2	01.7	01.4	03.8	98.4	00.2	98.5	98.8	01.8
20	02.2	02.1	01.7	04.2	99.0	01.1	99.1	97.6	02.7
21	99.1	99.3	98.0	02.8	96.9	98.9	98.0	96.0	99.9
22	96.2	99.2	97.1	00.8	95.2	96.3	96.5	96.2	97.1
23	97.6	99.5	98.0	00.8	96.6	96.9	97.0	99.6	97.8
24	00.2	01.5	00.0	02.2	99.2	99.5	99.2	99.5	00.1
25	01.1	03.4	02.4	04.4	99.6	00.5	99.7	99.7	01.7
26	02.7	03.8	02.9	05.5	99.7	01.5	00.2	99.5	03.1
27	01.1	01.0	00.3	04.2	98.7	00.4	99.6	98.7	01.7
28	00.6	01.1	00.5	02.7	98.0	00.1	98.9	98.0	01.1
29	02.5	02.8	02.5	02.8	99.8	01.7	00.5	99.5	02.5
30	02.0	03.2	02.5	02.3	99.2	01.2	00.1	98.9	02.1
31	00.6	00.1	99.9	02.5	99.2	00.5	99.7	01.2	01.0
MEANS	999.2	1000.2	999.1	1002.0	997.4	998.7	998.0	997.7	999.7
NORMAL	1000.6	1000.8	999.2	1003.7	998.9	999.4	998.4	998.9	1000.8
1961:									
HIGHEST	1003.8	1005.6	1004.7	1006.3	1000.9	1002.7	1001.8	1001.4	1004.7
TIME	0600	0600	0300	0600	0600	0900	0600	0600	0600
DAY	29th	26	26	26	25	29	26	25	26
LOWEST	993.5	993.6	992.5	992.0	993.0	993.5	993.4	993.8	994.2
TIME	1500	1500	1500	0000	1500	1500	1500	1500	1500
DAY	1st.	1	1	2	6	1	16	15	1
RECORDS:									
HIGHEST	1007.3	1009.3	1009.5	1013.7	1008.4	1009.0	1008.1	1007.5	NOT AVAI-LABLE
TIME	0600	0600	0300	0300	0600	0600	0600	0600	
DAY	28th	28	31	3	30	30	31	31	
YEAR	1951	1949	1953	1953	1953	1953	1953	1953	
LOWEST	992.7	992.1	990.1	992.0	992.7	991.8	992.1	992.4	
TIME	1500	1500	1500	0000	1500	1500	2100	1500	
DAY	3rd	7	13	2	4	3	3	3	
YEAR	1954	1958	1952	1961	1953	1954	1954	1954	

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TABLE - 3 . المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE التاريخ	BAGHDAD بغداد	MOSUL موصل	KIRKUK كركوك	RUTBAH رطبة	HAI حي	DIWANIYA ديوانية	NASIRIYA ناصرية	BASRAH بصرة	HABBANIYA حبانية
1	30	41	16	28	35	28	17	33	24
2	29	36	17	29	34	28	19	34	24
3	28	41	16	28	31	29	18	50	27
4	28	39	19	29	24	26	17	48	25
5	26	37	18	28	20	23	16	39	22
6	29	37	15	27	24	24	14	33	22
7	28	40	16	30	26	27	17	36	24
8	27	32	15	25	33	27	22	38	27
9	26	35	10	34	31	25	22	44	23
10	24	40	11	36	27	22	17	37	21
11	25	42	21	31	24	27	17	40	33
12	29	39	20	30	21	27	17	40	31
13	27	47	21	33	21	25	17	39	27
14	30	45	18	29	23	26	17	35	25
15	29	37	16	22	25	25	17	42	21
16	25	35	9	25	32	28	20	47	16
17	27	43	9	27	36	27	27	38	20
18	25	36	12	28	35	27	27	38	19
19	27	38	18	29	24	22	15	46	20
20	30	37	22	25	21	21	14	29	24
21	31	36	19	40	24	24	19	39	21
22	32	34	11	32	31	29	21	45	22
23	31	37	10	24	32	27	21	32	21
24	37	33	15	23	34	24	25	38	22
25	32	35	15	26	33	26	26	30	21
26	33	43	14	21	20	22	15	37	23
27	35	33	15	24	21	21	12	36	17
28	36	35	13	23	20	22	15	48	19
29	40	39	16	24	19	22	18	38	29
30	41	46	15	25	19	24	16	39	31
31	33	42	13	36	22	24	14	37	28
MEANS	30	38	15	28	27	25	18	39	23
NORMAL	24	30	20	25	25	30	29	49	25
1961 :									
HIGHEST	55	78	38	71	60	46	52	77	52
TIME	1800	0300	0300	0300	0300	0300	0300	0000	0000
DAY	29th	31	20	9&10	18	8	25	9	30
LOWEST	8	18	4	8	11	8	5	7	7
TIME	0900	1200	1200	1500	1200	1200	1200	0900	1200
DAY	10th	24	6	24	29	23	12	25	27

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

التاريخ	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	42.9	25.8	44.3	20.4	43.5	29.4	44.4	22.2	40.2	24.0
2	44.0	24.8	44.2	27.9	43.9	31.7	42.8	29.4	38.4	22.8
3	44.2	25.2	44.7	22.1	44.1	30.6	43.3	26.7	39.8	24.4
4	43.2	23.8	44.8	21.4	44.2	26.6	44.4	23.3	39.7	23.4
5	41.6	26.3	44.2	27.3	43.5	25.9	43.3	26.1	38.4	22.1
6	44.0	21.3	44.1	20.2	44.0	26.6	43.9	23.3	38.1	21.7
7	42.4	20.7	44.2	19.6	43.7	27.2	43.9	22.2	37.5	22.1
8	45.5	22.9	44.2	28.5	42.9	30.8	44.4	26.1	39.4	22.5
9	45.3	27.6	44.4	25.6	43.1	31.3	45.0	30.6	39.6	22.3
10	45.1	22.7	44.2	20.4	45.9	31.2	46.7	23.9	38.7	22.1
11	42.5	26.9	44.0	21.9	42.5	25.9	43.3	21.1	39.3	21.8
12	44.2	22.3	43.8	21.2	42.5	26.2	42.8	23.0	39.5	20.6
13	44.3	21.4	42.3	20.7	42.3	26.4	43.3	25.0	40.6	22.6
14	44.8	24.2	45.8	22.7	43.6	26.4	44.4	23.3	40.9	24.5
15	45.8	25.4	47.9	23.2	47.1	28.4	47.8	25.0	41.0	25.0
16	46.8	24.6	48.2	25.2	45.8	32.8	47.8	31.7	41.2	24.6
17	46.6	24.6	47.2	22.3	46.1	34.1	46.7	33.3	42.0	24.5
18	45.7	27.2	47.1	21.2	47.0	32.9	46.7	27.2	41.6	24.8
19	44.2	26.3	43.9	28.8	43.9	29.1	45.0	25.6	39.2	22.7
20	42.1	21.7	42.6	22.9	41.9	25.0	42.2	21.1	39.4	23.8
21	41.9	25.2	45.8	23.3	44.7	25.8	44.4	23.3	37.6	22.4
22	44.6	23.6	46.5	22.8	43.5	31.0	45.6	26.1	39.8	23.1
23	45.0	26.7	46.4	24.3	45.3	32.1	46.1	30.0	40.3	22.6
24	45.5	24.9	45.8	22.3	46.6	28.7	46.1	27.2	40.4	23.0
25	45.7	28.2	43.7	24.4	43.6	26.5	46.1	26.1	39.2	21.6
26	44.4	28.4	43.8	19.9	43.6	26.8	44.4	25.0	40.0	20.6
27	44.5	22.6	43.6	18.7	43.3	24.5	43.3	22.8	39.6	21.6
28	43.2	25.2	42.8	19.4	42.5	25.3	42.8	20.6	39.7	21.8
29	41.8	23.4	41.6	16.5	41.3	24.3	40.6	21.7	39.8	19.6
30	43.2	21.7	42.1	16.6	42.0	25.9	42.8	22.2	42.2	21.0
31	42.0	23.6	44.0	17.2	44.7	27.3	45.0	22.8	36.0	22.9
MEANS	44.1	24.5	44.6	22.2	44.0	28.3	44.5	25.1	39.7	22.6
NORMAL	43.3	24.6	43.2	21.0	42.3	26.0	43.2	25.0	39.0	21.1
HIGHEST	50.2		49.8		47.4		49.5		45.6	
DAY	5th		6th		6th		8th		10th	
YEAR	1957		1957		1956		1938		1930	
LOWEST		17.8		12.8		19.4		11.6		15.0
DAY		22nd		26th		26th		24th		25th
YEAR		1937		1952		1941		1942		1949

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TABLE 4-b .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	42.0	23.0	43.0	23.0	45.0	23.7	41.0	24.9	43.9	28.0
2	43.4	25.1	44.5	26.0	46.0	24.3	43.4	27.5	44.4	26.7
3	44.4	26.3	45.5	26.1	46.6	27.6	44.5	26.7	44.1	26.1
4	44.6	25.7	44.0	25.4	46.0	25.6	43.5	27.1	43.9	26.8
5	42.8	31.0	42.0	25.0	43.0	29.5	39.6	28.7	42.3	26.1
6	43.0	25.3	44.0	21.6	45.1	25.6	40.6	26.0	43.9	25.6
7	42.0	25.8	43.1	23.5	44.3	26.8	41.0	28.7	42.9	26.2
8	43.5	25.0	44.8	24.0	45.0	25.5	41.2	26.9	45.6	24.2
9	45.6	25.0	45.8	26.0	46.4	26.2	42.7	26.5	45.6	26.6
10	46.3	24.9	45.8	26.3	48.2	27.2	43.9	27.5	45.0	26.7
11	43.9	31.1	43.0	25.2	45.7	26.8	42.7	29.8	42.2	25.0
12	44.5	27.4	44.8	25.0	45.7	26.5	44.2	27.1	43.9	24.0
13	45.8	28.2	45.6	27.0	47.4	26.7	43.0	26.2	44.4	25.4
14	44.2	27.2	45.0	26.8	46.8	26.9	43.1	28.8	45.0	26.7
15	45.2	27.7	45.0	29.4	47.0	29.0	43.7	28.8	46.1	27.8
16	46.4	24.4	46.5	24.7	47.7	27.5	44.0	26.7	46.7	29.2
17	45.3	23.8	46.8	25.9	47.6	28.9	44.8	27.3	46.4	28.3
18	45.8	22.7	46.8	25.6	47.3	27.0	47.0	26.7	46.7	28.0
19	46.4	25.3	45.0	27.6	47.5	30.7	45.1	28.2	42.7	24.0
20	43.8	28.3	43.7	27.0	45.8	30.0	43.0	28.8	42.0	23.9
21	41.8	27.2	42.3	25.3	43.1	26.0	40.1	27.7	43.4	26.0
22	42.8	24.9	42.8	24.0	44.3	24.5	41.1	27.0	45.6	26.1
23	45.3	23.4	46.3	24.5	45.6	25.4	47.5	26.0	45.6	26.0
24	44.9	23.4	46.3	25.4	46.2	27.6	47.0	25.2	47.2	26.7
25	45.7	25.4	46.2	27.0	46.3	26.5	45.0	25.7	45.6	27.8
26	46.0	26.9	45.5	26.8	47.4	27.0	45.5	26.5	44.0	27.5
27	43.3	24.0	45.5	24.0	44.2	27.4	42.0	27.3	43.4	24.4
28	43.8	25.4	43.4	24.2	45.2	25.7	41.8	24.6	42.4	25.0
29	43.5	25.3	44.2	24.3	44.8	24.0	43.4	23.3	41.7	22.2
30	44.7	23.0	45.6	23.8	45.9	24.0	42.5	26.0	45.0	22.4
31	44.7	25.6	44.4	25.7	46.4	26.5	44.0	25.0	42.1	23.9
MEANS	44.4	26.1	44.7	25.4	45.9	26.7	43.3	26.9	44.3	25.9
NORMAL	44.3	26.1	42.9	22.8	44.1	24.6	41.1	26.2	43.8	24.8
HIGHEST	48.9		48.3		49.4		48.9		50.0	
DAY	26th		26th		15th		9th		1&8th	
YEAR	1943		1943		1951		1938		1938	
LOWEST		18.9		16.1		16.1		20.0		19.4
DAY		30th		29th		24th		29th		29th
YEAR		1941		1941		1946		1941		1941

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

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATION	TIME - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	29.3	26.4	33.7	41.4	43.6	41.4	33.5	30.9	35.0
MOSUL	25.0	23.5	33.9	42.4	44.7	40.9	33.0	27.9	33.9
KIRKUK	30.4	29.4	37.3	41.e	43.1	40.8	34.4	31.9	36.0
KHANAQIN	....	26.8	37.6	42.8	44.1	42.0	35.6	....	38.2
RUTBAH	24.9	23.2	29.8	36.4	38.9	37.6	32.0	28.1	31.4
HAI	....	26.1	35.0	42.8	43.8	39.5	34.0	....	36.9
DIWANIYA	28.0	26.4	35.2	42.9	43.5	41.9	33.3	30.7	35.2
NASIRIYA	29.4	27.3	36.7	44.0	45.4	42.6	35.5	31.9	36.6
BASRAH	28.9	27.4	34.1	40.3	42.3	38.9	34.2	31.5	34.7
HABBANIYA	27.9	26.3	33.7	41.2	43.8	41.0	33.9	31.1	34.5

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	19.1	18.0	22.0	24.0	24.8	24.4	21.7	20.2	21.8
MOSUL	18.3	17.8	22.6	25.7	25.5	24.1	21.2	19.5	21.8
KIRKUK	16.8	16.6	19.7	20.8	21.4	20.0	18.5	17.6	18.9
KHANAQIN	....	14.9	19.8	21.2	21.6	20.7	18.9	....	19.5
RUTBAH	16.5	16.1	19.3	21.1	21.8	21.2	18.7	16.9	19.0
HAI	....	17.3	21.6	23.5	23.6	23.3	20.5	....	21.6
DIWANIYA	17.7	17.1	21.8	23.9	23.7	23.2	20.5	19.2	20.9
NASIRIYA	17.5	16.5	20.2	22.3	22.2	21.8	20.1	18.8	19.9
BASRAH	21.2	20.2	20.5	25.3	25.7	25.3	24.3	22.4	23.1
HABBANIYA	17.3	16.5	20.5	22.5	22.6	22.5	20.2	18.6	20.1

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	98.6	99.3	00.3	99.9	98.6	98.1	99.0	99.4	999.2
MOSUL	00.9	01.2	01.6	00.2	98.6	98.0	99.9	00.8	1000.2
KIRKUK	99.6	00.3	99.9	99.0	97.6	97.3	99.5	99.9	999.1
KHANAQIN	....	00.2	98.2	97.2	96.2	96.2	98.4	....	997.7
RUTBAH	01.6	02.5	03.0	02.3	01.5	01.4	01.7	01.6	1002.0
HAI	....	97.9	98.2	98.0	96.6	95.3	97.4	....	997.2
DIWANIYA	98.0	98.8	99.7	99.5	98.2	97.8	98.7	98.6	998.7
NASIRIYA	97.7	98.3	99.1	98.5	97.2	96.8	98.1	98.1	998.0
BASRAH	96.9	97.6	98.6	98.2	96.9	96.4	97.3	97.5	997.4
HABBANIYA	99.4	99.6	00.8	00.3	99.1	98.8	99.5	99.6	999.6

TABLE - 8 . المعدل الشهري للرطوبة (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	35	41	32	22	19	22	33	35	30
MOSUL	54	58	38	27	23	25	36	47	39
KIRKUK	20	23	15	11	10	9	16	19	15
KHANAQIN	..	20	14	9	9	9	15	..	13
RUTBAH	38	45	34	22	18	18	23	28	28
HAI	..	37	27	19	17	26	29	..	26
DIWANIYA	32	32	27	17	14	18	27	30	25
NASIRIYA	26	28	17	11	9	12	19	24	18
BASRA	48	50	40	27	24	31	42	45	38
HABBANIYA	32	33	26	16	12	16	25	26	23

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TABLE - 9 .

المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	14.0	14.1	17.1	17.0	16.7	17.0	16.6	15.1	15.9
MOSUL	16.8	16.7	20.0	22.0	20.4	19.0	17.5	17.2	18.7
KIRKUK	8.5	8.7	9.0	8.1	8.1	6.8	8.6	8.7	8.3
KHANAQIN	....	7.3	9.1	7.7	7.7	7.5	8.6	....	8.0
RUTBAH	12.1	12.8	14.0	12.6	12.5	11.9	11.0	10.5	12.2
HAI	....	13.2	16.9	16.3	15.7	18.0	15.1	....	15.9
DIWANIYA	12.1	12.1	15.7	14.7	12.8	14.2	13.9	13.1	13.5
NASIRIYA	10.7	10.3	10.6	9.5	8.3	9.6	11.2	11.4	10.2
BASRAH	19.1	18.1	21.2	20.4	19.7	21.3	22.5	20.8	20.4
HABBANIYA	11.3	11.7	13.8	15.3	10.6	12.4	12.8	11.7	12.5

TABLE -10 .

المعدل الشهري لدرجة الندى (سنتيغراد)

MONTHLY MEAN DEW POINT (°C)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	11.7	11.9	14.8	14.4	16.7	14.8	14.4	12.5	13.9
MOSUL	14.6	14.4	17.3	18.9	17.7	16.6	15.1	15.0	16.2
KIRKUK	4.1	4.4	4.9	3.2	3.4	0.6	4.4	4.6	3.7
RUTBAH	9.3	10.2	11.7	10.4	10.1	9.2	8.2	7.3	9.4
HAI	....	10.8	14.6	14.0	13.5	15.3	12.9	....	13.5
DIWANIYA	9.5	9.6	13.3	12.4	10.3	11.7	11.7	10.7	11.2
NASIRIYA	7.6	7.0	7.6	6.0	4.1	6.0	8.0	8.3	6.8
BASRAH	16.5	15.6	18.0	17.4	16.9	18.3	19.2	17.8	17.5
HABBANIYA	8.5	9.0	11.4	9.9	7.4	9.8	10.3	8.8	9.4

TABLE - 11 .

المعدل الشهري لكمية الغيوم الواطئة (بالاعشار)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOSUL	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
KIRKUK	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1
KHANAQIN	....	0.0	0.0	0.0	0.0	0.0	0.0	....	0.0
RUTBAH	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1
HAI	....	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	0.3	0.0	0.3	0.0	0.0	0.1
BASRAH	0.0	0.0	0.0	0.0	0.0	0.3	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

TABLE - 12 .

المعدل الشهري لمجموع كمية الغيوم (بالاعشار)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

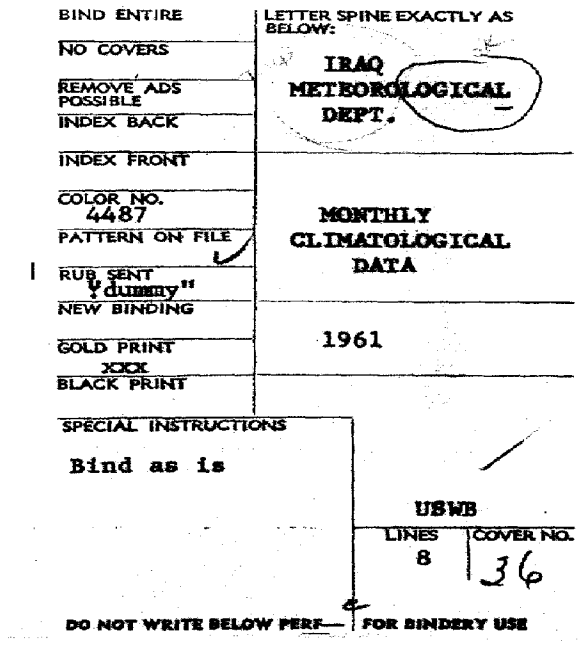
STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2
MOSUL	0.2	0.3	0.3	0.2	0.3	0.2	0.1	0.2	0.2
KIRKUK	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1
KHANAQIN	....	0.1	0.0	0.2	0.2	0.1	0.0	....	0.1
RUTBAH	0.3	0.2	0.0	0.1	0.2	0.1	0.2	0.1	0.2
HAI	....	0.1	0.1	0.2	0.2	0.4	0.3	....	0.2
DIWANIYA	0.0	0.1	0.0	0.0	0.2	0.4	0.0	0.0	0.1
NASIRIYA	0.0	0.3	0.2	0.6	0.1	0.5	0.2	0.1	0.3
BASRAH	0.1	0.3	0.3	0.4	0.6	0.6	0.2	0.0	0.3
HABBANIYA	0.2	0.3	0.1	0.1	0.1	0.2	0.0	0.1	0.1

AUGUST 1961 . آب ١٩٦١

TABLE 13-a . عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF

المحطة STATION	وقت الرصد TIME	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	SPEED IN KNOTS السرعة بالعقد CALM	1-10	11-21	22-33	>34	معدل السرعة بالعقد MEAN V.K.
بغداد BAGHDAD	0000	10	2	0	0	1	0	4	13	1	20	10	0	0	9
	0300	4	0	0	0	0	0	6	20	1	24	6	0	0	8
	0600	2	1	0	0	0	0	3	24	1	15	15	0	0	11
	0900	9	1	0	0	4	0	3	13	1	10	20	0	0	12
	1200	7	0	0	1	1	2	3	16	1	9	19	2	0	13
	1500	3	1	0	1	1	3	4	17	1	19	11	0	0	9
	1800	1	0	0	0	0	1	8	18	3	22	6	0	0	7
	2100	2	0	0	1	1	1	5	19	2	21	8	0	0	8
	TOTAL	38	5	0	3	8	7	36	140	11	140	95	2	0	10
موصل MOSUL	0000	8	5	1	0	1	1	4	4	7	16	7	1	0	6
	0300	19	2	0	2	1	0	5	1	1	27	3	0	0	6
	0600	11	1	4	0	1	11	3		0	19	11	1	0	10
	0900	7	2	4	6	3	0	5	3	1	18	12	0	0	10
	1200	3	4	8	3	3	2	7	1	0	18	12	1	0	11
	1500	4	1	3	3	1	2	13	2	2	23	6	0	0	7
	1800	2	0	1	2	1	8	13	0	4	15	12	0	0	9
	2100	6	0	4	0	3	0	11	3	4	22	5	0	0	6
	TOTAL	60	15	25	16	13	14	69	17	19	158	68	3	0	8
كركوك KIRKUK	0000	3	14	0	0	1	0	0	0	13	14	4	0	0	4
	0300	0	12	2	0	0	0	0	0	17	10	3	1	0	4
	0600	4	6	5	1	0	1	2	1	11	12	7	1	0	6
	0900	2	6	0	1	1	3	11	3	4	23	3	1	0	6
	1200	2	6	1	0	1	9	11	1	1	27	3	0	0	6
	1500	2	4	0	0	1	2	16	3	3	24	4	0	0	6
	1800	1	7	0	0	0	0	6	0	17	14	0	0	0	2
	2100	4	11	0	0	0	0	0	0	16	13	2	0	0	3
	TOTAL	18	66	8	2	3	15	46	8	82	137	26	3	0	5
خانقين KHANAQIN	0300	0	0	6	0	7	0	0	0	18	13	0	0	0	2
	0600	0	0	6	0	2	0	3	0	20	11	0	0	0	2
	0900	1	0	2	2	9	0	13	2	4	27	0	0	0	4
	1200	2	0	1	0	9	0	17	1	1	30	0	0	0	5
	1500	3	1	0	0	4	0	14	4	5	26	0	0	0	4
	1800	2	0	0	0	2	0	4	0	23	8	0	0	0	1
	TOTAL	8	1	15	2	33	0	51	7	71	115	0	0	0	3
رطبة RUTBAH	0000	5	0	1	0	2	3	4	12	4	16	11	0	0	9
	0300	5	0	0	0	0	2	9	9	6	17	8	0	0	6
	0600	16	0	0	0	0	0	0	15	0	20	11	0	0	8
	0900	11	2	0	1	2	0	3	11	1	21	9	0	0	8
	1200	8	0	1	1	2	0	9	9	1	18	12	0	0	10
	1500	12	1	1	0	0	0	8	9	0	20	11	0	0	9
	1800	10	0	1	0	0	1	1	10	8	20	3	0	0	5
	2100	10	1	0	0	1	1	2	8	8	19	4	0	0	5
	TOTAL	77	4	4	2	7	7	36	83	28	151	69	0	0	8


BIND ENTIRE
NO COVERS
REMOVE ADS POSSIBLE
INDEX BACK
INDEX FRONT
COLOR NO. 4487
PATTERN ON FILE
RUB SENT "dummy"
NEW BINDING
GOLD PRINT XXX
BLACK PRINT
LETTER SPINE EXACTLY AS BELOW:
IRAQ METEOROLOGICAL DEPT.
MONTHLY CLIMATOLOGICAL DATA
1961
SPECIAL INSTRUCTIONS
Bind as is
USWB
LINES 8
COVER NO. 36
DO NOT WRITE BELOW PERF
FOR BINDERY USE

AUGUST 1961 . آب ١٩٦١

TABLE 13-b . عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

المحطة STATION	وقت گرينتش 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.
حي HAI	0300	0	0	0	0	0	0	13	10	8	14	9	0	0	6
	0600	3	0	3	0	0	0	13	6	6	12	12	1	0	9
	0900	2	0	3	4	0	0	12	8	2	14	8	7	0	13
	1200	2	1	1	2	0	0	11	10	4	9	11	7	0	13
	1500	0	0	0	1	0	0	11	9	10	10	11	0	0	7
	1800	1	0	0	0	0	0	8	11	11	9	11	0	0	7
	TOTAL	8	1	7	7	0	0	68	54	41	68	62	15	0	9
ديوانية DIWANIYA	0000	6	0	0	0	1	0	15	5	4	22	5	0	0	7
	0300	5	0	0	0	0	0	13	9	4	24	3	0	0	6
	0600	11	0	0	0	0	1	5	10	4	18	11	0	0	8
	0900	8	0	0	0	1	1	10	11	0	12	19	0	0	11
	1200	10	0	1	0	0	1	8	10	1	12	16	2	0	11
	1500	9	0	1	0	0	0	11	9	1	24	6	0	0	6
	1800	5	0	1	1	0	0	17	3	4	25	2	0	0	5
	2100	6	1	0	0	0	1	12	8	4	24	3	0	0	6
	TOTAL	60	1	3	1	2	4	91	65	22	161	65	2	0	8
ناصرية NASIRIYA	0000	3	0	1	1	1	1	9	9	6	23	2	0	0	5
	0300	1	0	0	2	0	5	12	7	4	26	1	0	0	6
	0600	4	0	1	2	2	0	10	12	0	22	8	1	0	9
	0900	6	1	2	2	0	1	5	13	1	14	16	0	0	11
	1200	9	1	0	3	0	0	8	8	2	12	16	1	0	11
	1500	7	2	3	2	0	0	4	13	0	16	15	0	0	10
	1800	2	0	4	0	1	0	6	14	4	25	2	0	0	6
	2100	2	1	0	2	1	0	10	10	5	22	4	0	0	6
	TOTAL	34	5	11	14	5	7	64	86	22	160	64	2	0	8
بصرة BASRAH	0000	2	0	0	2	0	1	3	15	8	20	3	0	0	4
	0300	2	0	0	0	1	0	5	13	10	20	1	0	0	3
	0600	2	0	1	0	0	1	1	19	7	20	4	0	0	5
	0900	6	0	0	2	1	0	1	14	7	15	9	0	0	7
	1200	4	0	0	4	0	0	1	18	4	18	8	1	0	7
	1500	7	0	0	1	1	0	2	14	6	23	2	0	0	3
	1800	3	1	0	0	4	0	1	16	6	21	4	0	0	4
	2100	5	0	0	0	1	1	3	11	10	19	2	0	0	5
	TOTAL	31	1	1	9	8	3	17	120	58	156	33	1	0	5
حبانية HABBANIYA	0000	1	0	0	0	0	0	1	17	12	18	1	0	0	4
	0300	1	0	0	0	0	0	3	21	6	22	3	0	0	6
	0600	4	0	0	0	0	0	1	25	1	18	12	0	0	9
	0900	0	0	1	0	0	7	1	22	0	18	13	0	0	11
	1200	4	0	0	0	2	1	7	16	1	17	13	0	0	10
	1500	7	0	0	0	0	3	5	14	2	24	5	0	0	7
	1800	1	0	1	0	0	0	5	12	12	18	1	0	0	4
	2100	4	0	0	0	1	0	5	11	10	21	0	0	0	4
	TOTAL	22	0	2	0	3	11	28	138	44	156	48	0	0	7

UGUST 1961 .

ABLE - 14 .

آب ١٩٦١

الهطول اليومـــــي (بالملمترات)

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
MAX. FALL IN 24 HOURS	tr.	0.2	0.2	1.9	tr.	0.0	0.5	0.0	tr.	tr.
DAY	7th	5th	10	22	10	-	11	-	23	10th
YEAR	1942	1954	1956	1938	1952	-	1940	-	1952	1956

TABLE -15.

CLIMATOLOGICAL SUMMARY : الملخصات المناخية :

No. OF DAYS OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY
BAGHDAD	0	0	0	0	0	1	31	0
MOSUL	0	0	0	0	0	0	30	0
KIRKUK	0	0	0	0	0	1	31	0
KHANAQIN	0	0	0	0	0	0	30	0
RUTBAH	0	0	0	0	0	0	31	0
HAI	0	0	0	0	0	0	28	0
DIWANIYA	0	0	0	0	0	0	30	0
NASIRIYA	0	0	0	0	0	2	29	0
BASRAH	0	0	0	0	0	1	29	0
HABBANIYA	0	0	0	0	0	0	31	0

TABLE - 16 .

DURATION OF SUNSHINE : مدة سطوع الشمس

STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DAY	NO. OF DAY WITHOUT SUNSHINE
BAGHDAD	335.6	12.2	15&17	0
MOSUL	364.7	12.6	8& 9	0
BASRAH	336.7	11.9	2& 4	0
HABBANIYA	355.9	12.6	11	0

TABLE - 17 . المعدل الشهري لدرجات حرارة الحشيش والتربة (سنتغراد)

MONTHLY MEAN TEMPERATURES OF :

STATION	GRASS MINIMUM TEMPERATURES C°	EARTH TEMPERATURES C° 0.3 M	EARTH TEMPERATURES C° 1.2 M	Meters.
BAGHDAD	20.4	34.4	30.4	
MOSUL	....	36.0	32.7	
KIRKUK	21.6	32.4	30.5	
HAI	21.4	....	....	
NASIRIYA	24.1	....	....	
BASRAH	21.1	....	....	
HABBANIYA	22.7	35.9	32.6	

TABLE 18-a . (12) Month: August 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE $N_hC_Lh_LC_MC_H$	ww	app	PPP	TT	Td	dd	ff	1000-mbs., HHH	TT	Td	dd	ff	850-mbs., HHH	TT	Td	dd	ff	700-mbs. HHH	TT	Td	dd	ff	600-mbs., HHH	TT	Td	dd	ff
1	00900	02	709	949	27	08	29	15	540					419	28	01	00	00	099	17	64	00	00	387	08	75	00	00
2	00900	02	705	940	29	13	18	05	559					403	28	56	30	03	073	14	59	20	03	351	05	72	24	10
3	00900	02	703	975	31	12	05	05	525					440	27	05	21	08	132	20	10	20	05	430	09	00	22	12
4	00900	02	400	998	27	14	33	04	510					446	27	03	34	12	114	11	02	07	12	378	04	59	10	08
5	00900	02	603	991	31	09	33	14	508					445	28	04	31	02	118	14	54	29	05	393	05	68	28	10
6	00900	02	608	965	26	11	34	07	531					422	27	51	00	00	102	16	71	00	00	384	04	80	00	00
7	00900	02	809	955	25	12	26	05	537					412	27	51	29	04	087	15	66	08	05	394	07	73	25	04
8	00900	06	706	539	26	10	27	03	545					417	28	57	10	05	091	14	60	00	00	381	09	71	00	00
9	00900	02	400	980	30	10	32	13	526					442	30	06	30	15	134	17	53	20	08	425	10	56	25	13
10	00900	02	705	988	26	12	30	05	515					445	29	08	36	10	125	16	55	18	10	418	09	64	00	00
11	00900	02	805	992	33	09	34	15																				
12	00900	02	804	996	31	10	33	10																				
13	00900	02	708	018	32	12	03	10	012					491	29	07			147	16	52			455	04	62		
14	00900	02	705	029	32	12	36	10	015					474	26	09	33	10	144	13	57	30	26	409	01	66	23	24
15	00900	02	706	985	21	16	30	10	517					453	29	06	31	20	134	15	51	09	07	407	05	62	15	05
16	00900	02	706	950	28	11	30	05	547					441	34	01	34	06	148	19	56	00	00	439	05	65	00	00
17	00900	02	001	957	29	12	36	02	543					438	33	04	30	05	137	17	55	10	09	419	04	61	11	04
18	00900	02	703	965	32	09	28	10	533					415	29	03	33	06	104	16	55	08	07	383	03	68	00	00
19	00900	02	202	994	34	11	34	18	513					461	31	51	32	16	144	15	18	33	09	419	03	59	32	40
20	00900	02	701	025	30	11	32	10	018					468	29	51	32	20	153	13	61	34	27	428	03	57	28	33
21	00900	02	808	004	29	11	31	18	001					456	28	59	31	28	131	15	67	27	08	408	05	71	14	19
22	00900	02	711	979	26	10	30	10	528					426	28	05	16	09	106	15	56	24	12	383	03	64	04	13
23	00900	02	805	957	30	10	36	03	540					440	30	05			133	16	53			417	04	57		
24	00900	02	201	988	30	12	00	00	517					451	30	55	21	30	126	13	62	22	08	386	53	72	00	00
25	00900	02	502	002	33	12	34	12	001					470	30	04	27	17	148	14	53	30	35	416	01	60	02	14
26	00900	02	400	019	33	16	34	15	012					479	29	51	31	04	162	15	59	24	06	436	02	59	00	00
27	00900	02	707	020	26	12	31	10	010					469	26	54	32	19	139	14	66	31	06	418	06	75	29	03
28	00900	02	706	998	29	14	31	16	000					454	27	51	32	20	124	14	62	15	18	403	07	71	29	05
29	00900	02	707	013	30	13	36	11	011					473	27	01	31	21	143	14	60	31	13	421	05	74	26	07
30	00900	02	608	021	26	16	35	04	008					464	26	02	09	18	135	14	57	30	07	403	03	68	27	07
31	00900	03	705	004	30	17	33	08	000					468	29	00	07	03	144	23	05	00	00	409	00	24	06	15

NOTE : 1- ALL HEIGHTS IN METRES . 2- ALL TT & TdTd ARE GIVEN IN CODE FORM.

TABLE 18-b. (43) Month: August 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 GMT.) AT BAGHDAD AIRPORT

	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
DATE	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	586	51	81	00	00	760	63	90	33	25	974	76	01	33	30	254	98	18			439	11			
2	582	52	79	21	19	755	64	89	25	28															
3	591	52	66	24	30	766	61	84	25	33	981	75	96	25	24	263	95				450	08			
4	584	53	74	09	12	758	62	84	07	13	972	76	96	03	15	253	98	13			438	10			
5	587	02	78	17	02	762	61	89	23	08	977	76	02			259	95	18			445	10			
6	585	00	86	00	00	760	63	97	03	20	973	78	08	32	34	252	00		31	46	444	10			
7	585	51	81	27	19	760	62	85	07	45	973	78	01	27	36	253	97	17			438	10			
8	586	52	79	20	07	760	63	84	33	04	973	97	01	33	11	252	97	17			438	09			
9	591	00	75	32	12	767	62	84	30	15	981	78	98	32	30	261	97	13			447	11			
10	590	53	75	00	00	763	64	82	22	16	975	79	98	09	23	254	98	14	03	23	438	11			
11																									
12																									
13	591	52	71			766	60	82			982	74	94			265	96	12			451	09			
14	587	52	74	26	13	761	62	85	22	08	974	78	98	26	12	254	99	16	23	12	437	14			
15	589	00	74	28	11	765	60	81	24	06	980	76	95	09	07	260	98	15			445	10			
16	592	03	81	02	05	769	58	93	20	05	985	74	02			269	95	19			455	10			
17	589	03	71	34	43	766	59	82	02	17	982	71	92	30	41	269	94	12	30	67	457	07			
18	585	01	73	00	00	761	61	84	12	15	976	75	98	14	16	260	94	14			448	06			
19	588	01	64	29	27	763	62	86			977	76	96			259	96	15			444	09			
20	589	51	70	28	12	763	63	85	03	15	976	78	99	16	15	257	94	18	18	22	445	05			
21	588	00	81	29	08	762	63	92			976	74	99			261	94	15			448	06			
22	585	51	74	32	10	760	61	84	36	13	975	74	97	36	14	258	96	16			455	09			
23	589	02	71			764	63	83			979	73	93												
24	584	54	79	00	00	756	67	89	00	00	967	89	09	23	12	244	02				423	17			
25	587	54	71	03	22	759	64	92	05	45	973	77	00	08	28	250	00	19							
26	590	52	79	34	60	762	67	92	02	30	976	76	02	03	30	256	97	29			441	10			
27	589	54	86	26	04	760	67	96	22	06	971	78	04			249	99				433	12			
28	587	54	80	23	06	760	65	91	25	11	971	77	02	24	12	252	07		16	07	437	09		22	04
29	588	54	82	23	07	760	65	93	25	10	972	77	03			252	98				435	14			
30	585	58	81	23	07	757	54	87	28	13	968	79	01	12	08	246	00	19			428	13			
31	585	55	77	06	25	758	63	91	36	30	971	77	02			249	00				431	15			

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	SURFACE $N_h C_L h C_M C_H$	ww	app	PPP	TT	Td	dd	ff	1000-mbs. HHH	TT	Td	dd	ff	850-mbs. HHH	TT	Td	dd	ff	700-mbs. HHH	TT	Td	dd	ff	600-mbs. HHH	TT	Td	dd	ff
1	00900	06	713	944	42	13	29	12	551					419	27	02			090	14	59			374	07	65		
2	00900	02	712	957	44	12	31	08	534					415	26	03	30	10	077	11	55	29	06	359	02	58	27	1[illegible]
3	00900	01	714	980	44	13	19	06	516					456	30	51	20	06	128	12	56	21	10	390	51	57	06	1[illegible]
4	00900	07	714	996	43	12	30	18	503					470	29	06	33	15	147	11	58	34	17	421	05	69	36	1[illegible]
5	00900	07	709	985	41	11	30	20	510					457	27	00	31	14	133	16	70	54	06	415	06	76	31	0[illegible]
6	00900	07	712	963	44	12	33	16	538					443	29	52	33	19	124	15	69	14	08	400	05	76	34	1[illegible]
7	00900	02	707	951	42	08	30	15	545					435	29	07	31	20	126	18	57	28	10	425	08	67	30	1[illegible]
8	00900	02	812	961	46	14	32	15	538					447	30	58	36	15	130	15	69	18	06	417	08	79	30	1[illegible]
9	00900	02	809	983	45	14	33	08	515					476	31	02	32	05	169	17	57	00	00	465	12	72	13	0[illegible]
10	00900	02	719	986	45	05	31	15	510					470	29	52	28	10	154	17	61	21	24	433	07	68	19	18
11	00900	02	714	995	42	14	32	18																				
12	00900	02	712	016	44	11	34	14	512					460	29	03	32	19	143	15	59	29	16	423	06	63	22	2[illegible]
13	00901	02	709	026	44	16	34	13	522					451	29	05	31	17	125	14	52	31	22	397	02	01	33	1[illegible]
14	00901	03	721	998	45	15	32	20	001					485	30	54	32	21	170	16	59	32	30	451	05	68	31	3[illegible]
15	00900	02	719	957	46	13	32	15	541					451	31	05	32	08	141	16	56	12	16	421	05	66	11	0[illegible]
16	00900	02	714	947	46	13	30	06	544					443	38	01	05	04	141	17	60	06	03	425	05	66	07	0[illegible]
17	00900	02	716	957	45	11	36	03	536					448	32	01	27	04	144	11	65	28	05	420	03	74	30	0[illegible]
18	00900	02	713	972	45	13	36	03	524					465	31	10	34	09	159	15	50	34	13	437	03	60	34	1[illegible]
19	00900	02	710	001	44	15	34	14	006					488	30	08	34	19	168	13	51	33	16	438	02	55	31	20
20	00900	02	711	019	42	15	30	15	030					490	26	00	32	17	159	14	56	30	30	433	03	69	31	4[illegible]
21	00900	07	714	982	41	16	28	22	517					452	27	05			130	15	55			461	02	66		
22	00900	02	722	946	45	16	28	07	545					434	30	04	36	09	118	15	57	36	14	392	03	66	05	2[illegible]
23	00900	02	710	972	44	17	14	04	523					460	32	04	00	00	154	16	54	14	08	430	02	62	14	0[illegible]
24	00900	02	813	007	45	19	00	00	535					446	30	53	30	20	126	14	63	28	08	394	01	63	30	1[illegible]
25	00900	02	710	005	45	19	33	15	009					498	31	04	02	24	188	15	55	05	15	462	02	61	08	0[illegible]
26	00900	07	711	026	43	17	30	20	025					501	29	00	31	25	176	13	57	27	18	443	02	62	15	1[illegible]
27	00900	07	714	001	45	19	32	28	001					463	27		31	30	125	13		32[illegible]	22	400	05		31	17
28	00900	07	709	000	43	20	32	15	502					475	27	03	32	18	144	13	59	31	24	423	07	70	30	17
29	00900	02	708	024	41	20	30	12	022					487	27	52			153	13	62			425	03	70		
30	00900	02	715	016	43	19	34	08	019					489	27	07	32	10	160	13	55	28	18	428	02	61	30	19
31	00900	01	714	000	42	07	24	18	501					467	27	55	26	22	149	16		24	30	434	04		25	3[illegible]

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	585	51	78			759	63	88			972	77	00			253	97	16			438	10			
2	579	54	77	25	27	751	65	86	24	26	963	80	01			240	01	17			421	17			
3	585	54	83	26	23	759	62	90	26	40	973	76	02	25	32	254	97	19	24	26	440	09	30		
4	588	53	79	28	14	762	63	86	27	26	975	78	00	26	29	254	99	19	25	33	438	12		25	24
5	588	51	83	27	11	762	63	92	28	14	976	76	98	28	32	257	97	16	25	32	442	11		23	28
6	587	00	85	31	16	762	62	95	31	18	976	76	06	29	26	256	98				440	12			
7	591	02	74	30	27	768	59	83	30	28	984	75	95	30	36	266	95	13	30	32	453	08	28	30	30
8	590	00	90	31	11	765	62	98	30	13	979	76	09	31	22	260	96		32	15	446	09		32	24
9	596	01	80	13	07	770	61	89	13	07	985	76	01			267	95	16			454	08			
10	591	52	76	16	17	764	64	89	20	12	976	79	01	21	12	255	99		21	16	439	11		20	14
11																									
12	588	57	74	21	23	762	60	84	17	21	978	73	96	21	18	263	94	12	21	33	451	07	24	19	16
13	584	54	70	35	14	758	62	85	31	23	972	78	95	30	38	251	99	13			434	13	27		
14	592	00	85	24	15	767	59	92	24	20	984	73	03	17	04	268	95	19	17	12	455	09		11	30
15	590	01	79	29	10	756	60	87	19	04	981	76	99	26	40	263	95	15	21	25	450	10		19	28
16	590	00	75	30	15	765	62	87	29	09	980	75	01	28	32	263	97	18	28	22	447	13		22	24
17	590	02	79	28	06	765	62	91	29	11	979	75	00	36	16	261	96	17	30	27	447	10			
18	590	00	69	09	10	766	62	87	09	12	980	76	96	04	22	262	96	11	03	38	448	09	23	06	32
19	589	51	68	04	05	763	64	82	24	09	975	79	95	10	22	253	00	14	11	36	447	10		14	46
20	589	51	77	31	11	763	64	90	27	06	974	79	07	20	23	259	97	20	18	18	445	09		17	22
21	587	52	72			760	63	84			976	74	92			261	96	13			446	10			
22	586	51	74	33	06	761	61	86	31	16	975	77	00	31	14	254	99	17	30	15	437	12	32		
23	589	02	72	08	13	764	63	86	04	17	978	75		30	18										
24	585	53	73	26	14	758	66	94	22	24	970	78	06			247	00				430	12			
25	591	54	72	09	07	764	65	85			977	75	95			259	96	14			445	10			
26	590	54	77	23	16	762	67	90	24	18	974	77	01	24	18	254	97	18	17	13	439	10		19	14
27	586	56		31	18	756	69		33	21	966	80				244	98				427	14			
28	590	53	77	28	16	762	64	88	21	12	975	76	01	27	18	258	93	13	26	28	445	08	25	24	24
29	588	56	81			760	64	90			973	77	00			254	98	21			439	11			
30	587	57	72	24	14	758	66	87	27	06	970	78	99	26	17	250	98	15	28	23	434	13		27	14
31	588	58		25	16	762	58	83			976	75	97			257	97	15			442	11			

TABLE 19-a

BAGHDAD AIRPORT

Month: August 1961 .

Frequency of Horizontal Visibility
T I M E - G . M . T .

Visi-bility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
≥200 -500M						1/1	1/1	1/1	1/1	1/1															5
≥500 -1000M				1/1	1/1						1/1	1/1													4
≥1000 -1500M											1	1	1	1			1	1							6
≥1500 -3000M			1	1	2	2				2	1	2	2	2	1	1	7	2							26
≥3 -5KM				2	4	4	1		1	1	2	1	2	1	3	4	11	9							46
≥5 -10KM	2	1	4	11	13	10	12	9	7	5	6	3	3	3	5	17	10	9	8	5	2	2	1	2	150
≥10 -15 KM	5	5	9	9	8	12	15	17	14	14	15	17	17	15	17	7	1	7	18	18	13	9	8	4	274
≥15KM	24	25	17	7	3	2	2	4	8	8	5	6	6	9	5	2	1	3	5	8	16	20	22	25	233
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
≥50 -150M																									
≥150 -300M																									
≥300 -500M																									
≥500 -900M																									
≥900	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

Note:

In fields containing two numbers the first one gives the cases with dust in the air . the second number shows the total.

TABLE 19-b

(17)

Month: August 1961.

BASRAH AIRPORT

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M									1/1	1/1	2/2	1/1	1/1	1/1											7
>1000 -1500M									1/1	1/1															2
>1500 -3000M		1/1	1/2	1/2	1/2	1/1		2/2	2/2	3/3	3/3	4/4	2/2	3/3	2/2	2/2	6/6	2/2	2/2	2/2	2/2			1/1	46
>3 -5KM					2/2	1/1	2/2	3/3	4/4	2/2	3/3	3/3	4/4	2/2	3/3	1/1	2/2	1/1		2/2			1/1		36
>5 -10KM	3/6	1/2	1/2	1/6	4/4	1/6	2/6	2/7	4/5	2/3	1/1	3/3	1/5	3/3	1/3	4/8	5/5	1/4	1/5	1/4	3/8	6/10	3/5	4/5	116
>10 -15KM	2	5	4	5	6	5	9	7	7	8	10	6	4	7	9	10	7	10	8	10	2	2	7	6	156
>15 KM	23	23	23	18	17	18	14	12	12	13	11	14	15	15	14	10	11	14	16	13	19	19	18	19	381
TOTAL	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In [illegible] containing two number the first one gives the cases with [illegible] in the air. the second number shows [illegible] total.

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M											1				1	1	1	1							5
>50 -150 M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
>900M					1	1	1	1	1	2	2	1	2	2	1	1	1	1							18

TABLE 20-a. (18) Month: August 1961.

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥ 5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
>500-900																														
<5/8 OR *						1		1						1			2	1	2	11	12	5	9	15	24	7	2	31	31	31
> 900				1							1		2	2	1	1	2	4	5	3	17	14	17	7	8	6	2	31	31	31
AND ≥ 5/8						2			1			1			6			10	8	2	60	18	9	94	5	20	74	31	31	248
						1		1						1			2	1	2	11	12	5	9	15	24	7	2	31	31	31
TOTAL				1							1		2	2	1	1	2	4	5	3	17	14	17	7	8	6	2	31	31	31
						2			1			1			6			10	8	2	60	18	9	94	5	20	74	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model

00	03	06	
09	12	15	G.M.T
18	21	To	

To-Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 20-b. (19) Month: August 1961

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
															1															1
															1															1
>50-150																														
>150-300																														
>300-500																														
>500-900																														
<5/8 OR *														2				1	6	6	7	2	5	9	23	18	14	31	31	31
>900							1	1		1			3	2	1	2	4	1	3	5	8	8	4	10	13	15	10	31	31	30
AND ≥5/8									2			1	2		10			8	5	10	50	8	2	48	16	19	128	31	31	247
														2				1	6	6	7	2	5	9	23	18	14	31	31	31
TOTAL							1	1		1			3	2	2	2	4	1	3	5	8	8	4	10	13	15	10	31	31	31
									2			1	2		11			8	5	10	50	8	2	48	16	19	128	31	31	248

NOTE:
The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model:

00	03	06	
09	12	15	GMT.
18	21	To	

To=Total for all hours.

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

الجمهورية العراقية

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MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

METEOROLOGICAL DEPARTMENT

شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

Monthly Climatological Data

No. 9
Vol. 24
Month September
Year 1961

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مجلد ٢٤
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ايلول ١ ٩ ٦ ١

MONTHLY CLIMATOLOGICAL DATA FOR

SEPTEMBER 1 9 6 1

مجلد ١٧ ، عدد (٩) ايلول ١٩٦١

VOLUME 17 , No. (9), SEPTEMBER

1 9 6 1 .

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المعدل الشهري لدرجات الحرارة للبصلة الجافة	5	6
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المعدل الشهري للضغط الجوي على سطح البحر	7	6
المعدل الشهري للرطوبة النسبيـــــــة	8	6
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ايلول ١٩٦١

شهر بارد و مغبر

ساد العراق جو مغبر معظم ايام الشهر اذ تعاقد غبار خفيف شمل معظم المناطق بسبب هبوب كتل هوائية باردة من شمال غرب البحر الابيض المتوسط .

استقر الجو في الايام : ٧ ، ٨ ، ٩ ، ١٧ ، ٢٢ ، ٢٣ من الشهر

اما الرياح السائدة فكانت شمالية غربية خفيفة السرعة او متوسطة

كانت درجات الحرارة خلال الشهر اقل من المعدل و اقل مما يقابلها من السنة الماضية بمقدار درجة او درجتين .

SEPTEMBER 1961 .

COLD AND HAZY .

The weather prevailed over Iraq was mainly hazy over most of the areas and during most of the month, because of cold air masses from NE Mediterranean.

Settled weather continued over Iraq on the days : 7,8,9,17,22 and 23rd of the month.

The winds were generally light or moderate blowing from North-West direction.

The temperatures readings during the month were below the normal and below the record of last year by about (1 - 2) degrees in all areas .

SEPTEMBER 1961 .

TABLE - 1 .

(ـــ)

ايلول ١٩٦١

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DEWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	30.5	30.4	31.0	26.4	33.6	31.9	33.6	32.5	31.2
2	27.4	26.7	29.0	24.6	32.8	30.5	31.2	30.3	29.0
3	30.1	26.7	28.2	25.6	32.2	30.2	30.7	29.7	28.3
4	29.9	26.6	27.9	25.4	31.4	29.4	31.0	29.6	28.2
5	27.7	26.3	27.4	25.0	31.3	29.1	29.8	29.0	27.5
6	29.4	28.4	31.4	25.0	30.8	29.8	30.3	28.6	29.7
7	30.8	28.0	32.2	26.1	31.6	30.5	31.7	28.6	31.3
8	27.0	29.7	32.8	25.7	31.5	30.9	31.4	29.3	30.1
9	29.2	27.2	30.8	26.8	31.3	29.2	30.3	29.9	29.3
10	29.0	27.8	30.0	27.2	31.9	29.3	31.0	29.1	28.7
11	28.7	28.0	29.7	27.0	32.8	30.3	30.6	29.5	29.1
12	29.2	26.7	30.0	25.4	32.3	28.0	29.9	29.6	28.2
13	28.7	26.3	27.6	24.6	32.0	30.0	31.1	28.8	27.4
14	29.6	27.1	27.9	24.2	32.3	29.8	30.8	29.3	29.1
15	28.8	27.0	29.9	24.9	31.2	29.2	29.7	28.6	28.5
16	28.8	27.5	28.8	26.7	30.8	29.6	30.4	28.6	27.7
17	27.9	24.6	28.7	25.2	30.4	30.0	30.2	29.2	28.8
18	29.5	25.4	28.8	23.3	31.5	30.1	30.9	31.5	29.1
19	26.6	26.5	26.8	22.9	30.1	27.7	28.6	28.2	26.2
20	26.6	25.0	28.4	24.3	29.5	27.6	28.5	26.9	27.1
21	27.3	24.1	27.2	23.2	29.7	28.0	28.0	27.7	26.5
22	26.4	24.4	27.1	22.8	29.8	27.1	28.0	27.6	25.9
23	27.9	23.4	26.7	24.3	30.5	28.0	28.4	27.5	26.4
24	30.8	24.9	28.9	23.9	31.7	30.0	29.9	27.6	27.5
25	29.3	26.6	27.5	22.8	32.3	30.9	31.0	29.7	28.2
26	27.0	23.1	24.3	22.5	29.3	27.5	28.2	27.7	25.9
27	24.9	22.6	25.2	22.5	28.0	25.4	26.6	25.7	25.1
28	25.7	23.8	24.9	23.0	27.9	25.2	26.8	24.8	23.8
29	25.5	22.0	25.3	21.5	29.1	26.9	28.4	25.0	25.5
30	26.3	21.1	24.4	21.6	29.7	26.3	27.3	28.8	23.8
MEANS	28.2	25.9	28.3	24.5	31.0	28.9	29.8	28.6	27.7
NORMAL	30.6	27.1	31.1	26.8	32.6	30.5	31.6	30.6	30.3
YEARS OF NORMAL	1937	1923	1935	1928	1940 to 1956	1939	1940	1937	1935

NOTE: T I M E - G.M.T.

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

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

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
TE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	1002.4	1002.0	1002.2	1005.1	1000.7	1002.3	1001.7	1000.8	1003.1
2	05.3	05.2	05.3	07.1	03.1	04.7	03.9	03.1	05.5
3	04.7	06.1	05.3	06.4	02.3	04.2	03.0	02.3	05.4
4	04.5	05.1	04.9	06.9	02.0	04.1	03.1	02.5	05.4
5	05.2	05.6	05.1	07.7	03.1	05.0	04.0	03.1	05.6
6	04.2	06.3	04.7	08.6	02.3	03.9	03.1	03.1	05.3
7	03.2	06.4	04.2	07.8	01.4	02.8	02.2	02.0	04.2
8	02.6	04.1	02.5	06.8	01.5	02.7	02.3	04.5	03.3
9	03.2	02.8	02.6	05.8	02.3	03.5	03.1	02.8	03.4
0	02.4	02.8	02.4	04.7	01.0	02.5	01.9	01.7	02.7
1	01.2	04.2	01.5	03.1	00.1	01.1	01.2	01.3	01.5
2	03.9	04.4	04.0	05.8	02.7	03.9	03.6	03.2	04.3
3	08.5	10.1	09.2	09.6	05.9	07.7	06.3	05.0	08.6
4	08.3	09.7	08.9	11.7	04.8	07.4	05.5	03.9	06.6
5	03.7	05.5	03.7	08.9	01.4	03.6	02.5	01.6	04.9
6	02.4	02.8	01.9	05.7	00.1	02.1	01.3	03.0	03.1
7	03.2	03.5	03.4	04.5	02.2	02.8	02.7	02.4	03.2
8	03.7	04.5	03.0	05.9	01.2	02.3	01.9	02.7	03.4
9	07.0	06.7	06.5	08.6	05.5	06.9	05.7	04.6	07.2
20	05.7	06.3	05.6	08.1	04.2	05.7	05.0	05.2	05.9
21	04.2	04.1	04.3	06.0	03.4	04.3	04.1	04.1	04.4
22	06.2	05.8	06.0	07.5	04.8	05.8	05.3	05.4	06.3
23	06.6	07.9	07.2	06.4	05.2	06.2	05.8	06.2	06.6
24	08.3	10.0	09.0	08.9	06.5	07.8	07.1	06.3	08.3
25	10.2	12.4	11.3	13.1	07.8	09.1	08.1	07.0	11.1
26	09.0	10.1	09.2	11.8	05.7	08.1	06.4	05.2	09.6
27	05.3	06.6	04.9	08.6	02.4	04.9	03.5	02.8	06.1
28	07.4	08.5	08.0	06.9	05.3	07.3	06.2	07.6	08.3
29	09.9	11.6	10.7	11.4	07.4	09.2	08.1	07.0	10.6
30	10.5	11.8	11.2	12.3	07.9	09.8	08.5	07.8	11.0
EANS	1005.4	1006.4	1005.6	1007.7	1003.5	1005.1	1004.2	1003.9	1005.8
ORMAL	1006.2	1007.0	1005.6	1008.8	1005.2	1005.2	1005.1	1004.8	1006.2
961:									
IGHEST	1011.8	1013.5	1012.5	1014.2	1008.6	1011.3	1010.2	1008.7	1012.2
IME	0600	0300	0300	0600	0900	0600	0600	0600	0600
AY	30th	30	30	30	15	30	30	30	30
OWEST	1000.2	999.1	999.2	1001.7	999.0	1000.2	1000.1	998.7	1000.2
IME	1500	1200	1200	1200	1200	1500	15	0000	1500
AY	11th	11	16	11	11	11	11	1st	11
ECORDS:									
IGHEST	1017.5	1018.7	1015.2	1023.2	1013.6	1013.6	1013.1	1013.7	
IME	0600	0600	0600	0200	0600	0600	0600	0600	
AY	30th	30	23	30	21	23	28	21	
EAR	1938	1938	1959	1938	1946	1959	1952	1946	
OWEST	996.5	997.8	995.5	997.9	995.5	995.2	995.1	995.7	
IME	1500	1500	1500	1200	1500	1500	0600	0300	
AY	1st	4	1	1	3	3	8	1st	
EAR	1955	1959	1955	1955	1956	1956	1948	1955	

SEPTEMBER 1961 . ايلول ١٩٦١

TABLE - 3 . المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (٪) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	كوت	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	33	41	19	44	28	27	18	44	27
2	28	40	22	50	25	27	20	49	26
3	26	44	20	41	23	28	20	46	30
4	27	48	20	34	25	28	27	41	31
5	31	43	21	35	27	28	29	42	30
6	27	41	18	41	25	23	23	35	19
7	28	46	16	33	28	21	18	50	19
8	29	37	19	25	30	21	20	45	18
9	35	46	17	28	26	24	19	39	24
10	35	43	16	32	26	24	20	44	28
11	32	43	18	36	25	25	23	45	28
12	31	51	19	46	28	31	25	46	36
13	34	57	27	43	30	32	29	41	42
14	15	42	25	42	27	27	28	36	29
15	27	43	21	38	28	22	20	35	22
16	29	40	18	32	26	21	24	36	22
17	38	50	22	38	27	24	25	43	38
18	33	50	24	57	30	30	22	38	32
19	36	48	26	59	32	35	24	49	37
20	38	45	22	50	32	30	24	51	28
21	32	57	25	51	33	28	26	55	34
22	41	60	30	51	33	35	24	43	41
23	32	56	28	32	31	38	28	42	37
24	28	57	25	42	27	30	23	44	35
25	27	49	24	39	27	28	20	34	34
26	24	45	25	33	25	28	20	34	27
27	30	47	18	33	26	23	19	36	20
28	28	38	16	31	26	30	21	36	27
29	29	47	17	34	28	31	22	34	29
30	29	59	21	34	30	32	24	45	35
MEANS	30	47	21	39	28	28	23	41	30
NORMAL	28	37	21	27	26	33	28	50	29
1961 :									
HIGHEST	61	92	47	83	45	59	51	84	63
TIME	0300	0300	0300	0300	0300	0000	0300	2100	0300
DAY	22nd	24	14	20	18	23	11	17	13th
LOWEST	10	18	6	15	16	9	7	11	9
TIME	1200	1200	1200	1200	1200	1200	1200	0900	1200
DAY	28th	7	28	8	28	9	28	18	8th.

SEPTEMBER 1961 .

TABLE - 4a.

(4)

ايلول ١٩٦١

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

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

	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	40.2	22.7	39.2	17.8	38.7	25.7	40.0	23.3	32.8	20.2
2	37.4	20.6	36.9	15.6	37.1	20.1	36.1	21.1	32.0	18.0
3	37.2	22.2	35.5	12.6	35.5	20.6	36.1	17.2	34.4	16.0
4	36.8	20.4	36.4	15.8	35.5	19.6	36.1	15.6	33.4	17.9
5	36.8	18.4	37.7	15.8	36.7	18.8	36.6	17.2	32.3	17.0
6	39.4	17.9	40.0	15.7	38.6	22.9	38.4	16.9	33.6	16.2
7	40.1	20.2	38.3	17.1	38.6	26.0	38.7	19.4	35.0	15.0
8	40.4	18.8	40.2	15.7	42.0	26.3	40.1	19.4	35.6	15.3
9	40.9	17.7	39.4	14.8	40.9	22.9	38.0	20.0	36.0	17.7
10	38.9	17.1	41.0	13.8	40.9	21.8	38.0	17.2	35.6	18.8
11	39.2	17.8	39.9	14.0	39.4	20.8	38.0	17.8	35.2	17.5
12	37.9	16.8	36.5	16.6	39.6	22.6	38.9	18.3	32.4	19.0
13	36.5	18.5	35.0	14.9	34.9	20.7	36.1	17.8	32.8	16.6
14	36.5	20.3	35.8	17.9	36.8	20.0	36.7	18.3	31.8	15.8
15	38.6	19.2	39.0	16.8	39.5	20.3	38.0	15.0	34.0	16.9
16	38.5	18.7	40.4	15.2	38.7	21.0	38.3	16.1	35.6	13.7
17	37.2	17.7	36.8	13.7	37.9	19.6	36.7	17.2	33.6	17.0
18	38.3	19.9	35.3	13.6	37.9	21.2	38.6	17.8	36.0	16.7
19	33.4	19.0	36.4	17.9	35.1	19.7	33.9	20.6	30.2	15.8
20	37.1	17.1	35.9	13.8	36.9	21.4	37.2	17.8	32.8	14.2
21	36.8	16.4	34.8	12.8	35.6	19.1	36.0	17.8	33.7	17.0
22	35.0	17.2	33.2	15.0	35.1	19.5	34.0	16.9	30.3	16.0
23	36.0	14.9	34.2	15.6	34.9	16.8	34.0	15.6	32.4	14.5
24	37.0	20.2	36.8	13.0	37.0	21.0	36.7	15.0	31.9	16.4
25	37.2	19.4	34.2	18.1	35.3	20.0	36.1	16.2	29.6	15.3
26	34.2	19.8	34.1	14.9	38.4	17.1	34.0	13.3	30.5	13.5
27	34.5	15.7	36.3	10.8	35.7	18.6	35.0	11.7	31.8	12.5
28	35.8	14.2	35.2	11.1	34.8	16.8	33.6	11.7	33.6	12.9
29	35.9	13.5	33.7	10.0	33.6	15.0	36.1	10.6	29.4	12.5
30	33.9	14.8	32.8	12.3	32.3	17.2	35.4	12.0	31.2	12.0
MEANS	37.2	18.2	36.7	14.9	36.8	20.4	37.0	16.7	32.7	16.0
NORMAL	39.8	20.9	38.8	15.9	38.7	22.0	38.3	21.0	35.8	17.3
HIGHEST	46.6		47.2		46.1		48.4		45.0	
DAY	2&6		?		2nd		5&6		3rd.	
YEAR	1945		1935		1945		1938		1925	
LOWEST		10.5		6.9		9.4		10.6		8.9
DAY		30th		26th		30th		30th		21st
YEAR		1938		1956		1938		1938		1933

SEPTEMBER 1961 . أيلول ١٩٦١

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	39.8	23.8	39.2	24.6	42.0	26.3	41.4	26.3	38.6	24.5
2	37.3	24.8	38.6	21.6	38.9	22.5	38.5	23.4	37.0	21.7
3	37.6	20.7	38.7	20.2	39.4	20.5	37.4	23.2	36.1	20.8
4	36.5	21.0	38.5	19.0	39.0	22.2	37.5	23.0	36.7	19.5
5	35.6	23.0	37.0	19.6	37.7	21.4	36.2	23.8	36.5	20.0
6	37.8	16.4	39.6	19.1	39.4	19.8	39.1	20.0	38.9	20.7
7	39.5	20.3	39.8	21.2	41.0	22.4	37.6	18.6	39.6	20.3
8	39.8	18.5	41.0	21.5	41.7	20.8	39.4	21.8	40.0	20.5
9	39.0	18.9	39.8	19.2	41.4	21.0	40.0	20.7	39.4	20.3
10	39.3	19.1	40.4	18.6	41.4	18.5	39.7	19.4	39.2	20.6
11	39.7	19.9	40.3	18.2	41.3	18.9	39.1	20.1	39.5	19.5
12	40.5	18.4	38.0	16.7	41.4	18.2	39.6	19.4	36.8	18.6
13	37.6	21.5	39.0	20.1	39.5	21.0	37.0	22.6	36.1	18.9
14	37.5	23.4	37.8	20.6	37.7	21.5	36.8	22.6	35.6	22.2
15	37.3	20.5	37.6	20.3	37.7	23.5	36.2	23.0	37.8	19.2
16	38.8	17.7	39.2	21.0	39.7	20.5	38.5	20.0	37.8	19.5
17	38.5	16.8	40.2	20.1	40.4	20.8	38.0	20.1	36.9	19.5
18	38.9	17.3	40.0	18.1	40.8	21.2	42.5	19.9	38.1	19.8
19	35.3	22.8	35.4	22.5	37.0	20.0	36.5	20.8	33.5	20.6
20	37.6	16.7	37.4	17.8	38.0	18.2	34.7	18.8	36.8	18.6
21	36.6	18.7	37.8	17.0	38.0	19.0	37.1	19.8	35.9	19.2
22	36.4	17.3	36.2	16.0	38.0	17.4	37.6	17.5	34.9	19.0
23	36.5	20.0	37.0	17.9	37.6	19.0	36.5	19.0	36.2	17.0
24	38.8	19.0	39.5	18.2	39.7	20.9	39.6	17.5	38.0	18.3
25	39.1	21.8	39.8	21.4	40.4	22.0	38.5	19.8	37.4	20.1
26	33.8	22.0	35.1	20.4	34.8	20.6	33.6	22.2	33.4	19.4
27	34.8	17.5	35.0	17.0	35.5	18.4	33.6	19.9	33.4	16.1
28	36.3	15.0	36.0	12.8	37.4	16.0	35.1	16.4	34.2	14.4
29	37.1	15.1	37.0	16.0	38.0	19.0	36.4	14.7	34.5	20.3
30	35.6	20.8	35.6	17.4	37.1	18.3	36.0	18.8	33.1	17.3
MEANS	37.6	19.6	38.2	19.1	39.1	20.4	37.6	19.6	36.7	19.5
NORMAL	41.2	22.7	40.1	19.5	41.6	21.4	39.2	22.4	40.2	21.4
RECORDS :										
HIGHEST	48.4		46.6		48.9		46.6		48.4	
DAY	16th		1st		6th		9th		2nd.	
YEAR	1945		1945		1940		1951		1945	
LOWEST		15.0		11.6		13.9		13.1		11.1
DAY		28th		25&26		23rd		16th		30th
YEAR		1961		1943		1940		1958		1938

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

MONTHLY MEAN DRY BULB TEMPERATURES (C^{0})

T I M E - G . M . T .

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	22.8	19.9	27.5	34.7	36.7	33.6	27.3	24.2	28.3
MOSUL	17.8	15.9	25.3	34.2	35.7	32.2	25.7	20.2	25.9
KIRKUK	22.6	21.3	29.0	34.1	35.6	32.5	27.0	24.3	28.3
KHANAQIN	...	18.6	29.5	35.3	36.7	33.7	27.5	...	30.2
RUTBAH	18.3	16.7	25.1	29.2	33.0	30.5	24.7	20.9	24.6
HAI	...	21.7	29.1	36.3	37.1	33.2	28.2	...	30.9
DIWANIYA	22.2	19.8	29.2	36.5	38.0	34.1	27.3	24.4	28.8
NASIRIYA	22.6	20.8	30.2	37.2	38.4	35.0	28.5	25.2	29.7
BASRAH	22.8	21.0	28.4	35.3	36.6	32.5	28.1	24.9	28.7
HABBANIYA	21.7	19.8	26.7	34.4	36.2	32.0	26.5	23.7	27.7

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET BULB TEMPERATURES (C^{0})

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	14.7	13.3	17.6	20.0	20.4	19.6	17.1	15.6	17.3
MOSUL	13.7	12.4	17.8	21.8	21.5	19.9	17.4	14.8	17.4
KIRKUK	13.2	12.8	16.1	17.7	17.9	15.6	15.2	14.2	15.1
KHANAQIN	...	10.3	16.1	18.2	18.6	17.4	15.4	...	16.0
RUTBAH	13.2	12.5	16.0	18.3	19.2	18.4	15.8	14.0	15.9
HAI	...	13.5	17.7	20.3	20.4	19.0	16.6	...	17.9
DIWANIYA	14.0	12.8	17.9	20.3	20.6	19.4	16.5	15.2	17.1
NASIRIYA	13.7	12.9	17.1	19.5	19.8	19.1	16.7	15.1	16.7
BASRAH	17.0	15.4	19.7	21.8	22.4	21.8	20.1	18.3	19.6
HABBANIYA	14.0	12.9	16.7	19.3	19.4	18.8	16.3	15.1	16.6

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	04.9	05.5	06.5	06.0	04.6	04.5	05.6	05.6	1005.4
MOSUL	07.0	07.5	07.6	06.2	04.6	04.4	05.2	07.1	1006.3
KIRKUK	06.1	06.6	06.4	05.2	03.8	04.2	06.1	06.5	1005.6
KHANAQIN	...	06.0	04.2	03.6	03.5	03.1	05.4	...	1004.3
RUTBAH	07.4	05.2	08.9	08.3	07.1	07.2	07.7	07.7	1007.8
HAI	...	03.7	04.1	04.0	02.9	02.8	03.7	...	1003.5
DIWANIYA	04.9	05.0	06.2	05.6	04.5	04.3	05.1	03.7	1004.9
NASIRIYA	03.7	04.3	05.3	04.7	03.4	03.5	04.6	04.4	1004.8
BASRAH	05.1	03.5	04.6	04.2	03.1	03.0	04.0	03.8	1003.7
HABBANIYA	05.5	06.1	07.1	06.5	05.2	05.2	05.5	05.9	1006.1

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	38	44	33	21	18	22	32	36	31
MOSUL	66	68	47	33	28	32	45	57	47
KIRKUK	29	32	21	14	11	13	23	27	21
KHANAQIN	...	28	20	13	12	14	22	..	18
RUTBAH	49	59	44	32	28	27	35	42	40
HAI	...	38	32	21	20	25	29	...	28
DIWANIYA	36	41	28	18	16	21	28	35	28
NASIRIYA	31	34	21	13	12	17	24	28	23
BASRAH	54	52	40	28	26	37	46	51	42
HABBANIYA	40	41	32	19	16	23	31	35	30

TABLE - 9 . المعدل الشهرى لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATION	T I M E - G . M . T . 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	10.3	10.2	12.2	11.8	11.2	11.8	11.5	11.0	11.3
MOSUL	13.3	12.3	15.4	17.8	16.3	15.2	14.4	13.5	14.8
KIRKUK	7.8	8.0	8.1	7.2	6.5	6.3	7.9	8.1	7.5
KHANAQIN	...	6.0	7.8	7.2	7.0	7.1	7.9	...	7.2
RUTBAH	10.7	11.3	12.6	12.6	12.2	11.6	11.0	10.7	11.6
HAI	....	10.0	12.7	13.0	12.9	12.7	11.2	....	12.1
DIWANIYA	9.6	9.4	11.5	10.9	10.6	10.9	10.3	10.0	10.4
NASIRIYA	8.6	8.5	9.1	8.5	8.3	9.3	9.5	9.0	8.9
BASRAH	14.9	12.9	15.7	15.7	15.6	17.5	17.6	16.0	15.8
HABBANIYA	10.1	8.7	8.2	10.2	9.2	10.2	10.5	10.1	9.7

TABLE - 10 . المعدل الشهرى لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C^{o})

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	7.2	7.1	9.7	9.0	8.2	9.2	8.7	8.0	8.4
MOSUL	10.9	9.7	13.2	15.6	14.1	13.0	12.2	13.5	12.8
KIRKUK	3.1	3.4	3.6	1.7	0.4	-0.2	5.4	3.8	2.4
KHANAQIN	...	-0.3	1.3	2.1	1.5	1.4	3.5	...	1.6
RUTBAH	7.6	8.2	9.9	9.9	9.3	8.6	7.6	6.2	8.5
HAI	...	6.9	10.5	10.7	10.6	10.3	8.2	...	9.5
DIWANIYA	6.1	5.7	8.7	7.9	7.3	7.9	7.1	6.7	7.2
NASIRIYA	4.7	4.4	5.5	4.2	3.9	5.7	6.1	5.3	5.0
BASRAH	12.6	10.6	13.5	13.3	12.3	15.4	15.0	14.7	13.6
HABBANIYA	6.6	5.8	8.2	7.0	5.3	7.7	7.5	6.6	6.8

TABLE - 11 . المعدل الشهرى لكمية الغيوم الواطئة (بالاثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
MOSUL	0.1	0.1	0.0	0.3	0.5	0.3	0.3	0.2	0.2
KIRKUK	0.1	0.1	0.0	0.1	0.2	0.1	0.2	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	0.1	0.3	0.3	0.2	0.1	0.1
HAI	...	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
DIWANIYA	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
NASIRIYA	0.0	0.0	0.0	0.8	0.8	0.5	0.0	0.0	0.3
BASRAH	0.0	0.0	0.0	0.3	0.5	0.5	0.0	0.0	0.2
HABBANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

TABLE - 12 . المعدل الشهرى لمجموع كمية الغيوم (بالاثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.1
MOSUL	0.2	0.2	0.1	0.4	0.8	0.6	0.4	0.4	0.4
KIRKUK	0.1	0.2	0.0	0.1	0.2	0.1	0.2	0.1	0.1
KHANAQIN	....	0.2	0.0	0.0	0.0	0.0	0.0	...	0.0
RUTBAH	0.0	0.1	0.0	0.1	0.3	0.4	0.3	1.0	0.3
HAI	...	0.0	0.0	0.0	0.0	0.1	0.0	...	0.0
DIWANIYA	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
NASIRIYA	0.0	0.0	0.0	0.8	0.8	0.5	0.0	0.0	0.3
BASRAH	0.0	0.0	0.0	0.3	0.5	0.6	0.0	0.0	0.2
HABBANIYA	0.0	0.1	0.1	0.1	0.0	0.0	0.3	0.0	0.1

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TABLE 13-a .

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عدد تكرار رصدات الرياح السطحيـــــة

SURFACE - WIND , NUMBER OF OBSERVATIONS OF:

المحطة STATION	الوقت التربيتس 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	
بغداد BAGHDAD	0000	5	0	1	0	1	1	4	18	0	18	11	1	0	11
	0300	4	1	0	0	0	0	5	20	0	17	13	0	0	10
	0600	5	0	0	0	0	0	2	23	0	7	23	0	0	13
	0900	4	0	0	0	0	0	3	23	0	6	21	3	0	15
	1200	4	1	0	0	0	1	6	18	0	5	24	4	0	15
	1500	3	1	0	0	0	0	10	16	0	12	18	0	0	12
	1800	3	1	0	0	0	1	2	23	0	18	12	0	0	11
	2100	2	1	0	1	0	2	6	18	0	16	14	0	0	11
	TOTAL	29	5	1	1	1	5	38	159	0	99	133	8	0	12
موصل MOSUL	0000	8	0	0	0	1	0	8	9	4	22	4	0	0	6
	0300	10	0	1	0	1	0	10	7	0	28	2	0	0	5
	0600	6	0	3	1	1	0	14	5	0	20	10	0	0	8
	0900	3	1	3	5	4	0	12	2	0	17	13	0	0	10
	1200	2	2	3	1	0	2	17	2	1	19	10	0	0	10
	1500	4	0	1	1	2	2	19	2	0	22	5	0	0	9
	1800	1	0	1	1	0	6	20	1	0	18	11	1	0	10
	2100	10	0	0	0	1	0	13	4	2	27	1	0	0	5
	TOTAL	44	4	12	9	10	10	113	32	7	173	46	1	0	8
كركوك KIRKUK	0000	3	6	1	0	0	0	3	1	16	14	0	0	0	3
	0300	1	5	1	0	0	0	0	0	23	7	0	0	0	1
	0600	3	4	0	2	3	0	4	2	12	16	2	0	0	6
	0900	5	1	1	1	0	6	10	3	3	26	1	0	0	9
	1200	2	1	1	0	0	9	17	0	0	25	5	0	0	10
	1500	2	1	0	1	0	3	23	0	1	28	1	0	0	9
	1800	2	2	1	0	0	0	6	3	16	14	0	0	0	5
	2100	2	3	2	0	0	0	1	2	20	10	0	0	0	3
	TOTAL	20	23	6	4	3	18	64	11	91	140	9	0	0	3
خانقين KHANAQIN	0300	0	0	6	2	4	0	0	0	18	12	0	0	0	1
	0600	0	2	2	0	2	1	5	1	17	12	1	0	0	2
	0900	4	0	2	0	4	0	11	3	6	24	0	0	0	4
	1200	2	0	0	0	1	0	20	6	1	29	0	0	0	5
	1500	1	0	0	0	1	0	17	3	8	22	0	0	0	3
	1800	0	0	1	0	3	0	2	0	24	6	0	0	0	1
	TOTAL	7	2	11	2	15	1	55	13	74	105	1	0	0	2
رطبة RUTBAH	0000	5	0	0	0	0	3	10	5	7	20	3	0	0	5
	0300	3	0	0	0	0	3	8	8	8	21	1	0	0	4
	0600	9	1	0	0	0	3	1	14	2	25	3	0	0	7
	0900	7	1	0	0	0	0	6	12	4	22	4	0	0	6
	1200	7	2	0	0	0	1	1	8	11	0	20	9	1	9
	1500	9	3	0	0	0	1	0	3	11	3	23	3	1	7
	1800	8	2	1	0	0	1	0	4	7	8	22	0	0	4
	2100	4	0	0	0	0	1	1	4	10	10	19	1	0	3
	TOTAL	52	9	1	0	3	11	44	78	42	172	24	2	0	6

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TABLE 13-b .

عدد تكرار رصدات الرياح السطحيـــــة

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	الوقت كرينتش TIME GMT.	DIRECTION الاتجاه N	NE	E	SE	S	SW	W	NW	SPEED IN KNOTS السرعة بالعقد CALM	1-10	11-21	22-33	≥34	معدل السرعة بالعقد MEAN V.K.
حي HAI	0300	0	0	0	0	0	0	16	13	1	18	11	0	0	9
	0600	0	0	0	0	0	0	16	12	2	11	14	3	0	13
	0900	6	0	0	0	1	0	11	11	1	5	14	10	0	17
	1200	3	0	0	0	0	0	12	15	0	7	13	10	0	17
	1500	1	0	0	0	0	0	9	19	1	18	10	1	0	10
	1800	5	0	0	0	0	0	6	19	0	16	14	0	0	10
	TOTAL	15	0	0	0	1	0	70	89	5	75	76	24	0	13
ديوانية DIWANIYA	0000	10	1	0	0	0	0	11	5	3	18	9	0	0	8
	0300	4	0	0	0	0	0	11	12	3	22	5	0	0	6
	0600	12	0	0	0	0	0	10	18	0	16	14	0	0	10
	0900	12	0	0	0	0	0	6	12	0	12	18	0	0	12
	1200	9	0	0	0	0	0	9	12	0	12	18	0	0	12
	1500	9	0	0	0	0	0	7	14	0	25	5	0	0	8
	1800	4	0	0	0	0	0	15	8	3	25	2	0	0	6
	2100	10	1	0	0	0	0	12	5	2	23	5	0	0	7
	TOTAL	70	2	0	0	0	0	81	86	11	153	76	0	0	9
ناصرية NASIRIYA	0000	2	0	0	0	0	2	20	5	1	25	4	0	0	6
	0300	1	0	0	1	0	2	21	4	1	28	1	0	0	6
	0600	1	0	0	0	1	0	14	14	0	16	14	0	0	11
	0900	1	0	0	0	0	1	8	20	0	9	17	4	0	15
	1200	5	0	0	0	0	0	6	19	0	4	23	3	0	15
	1500	3	0	0	0	0	0	8	18	1	17	11	1	0	11
	1800	2	0	0	0	0	0	9	17	2	26	2	0	0	7
	2100	3	0	0	0	0	1	11	12	3	25	2	0	0	6
	TOTAL	18	0	0	1	1	6	97	109	8	150	74	8	0	10
بصرة BASRAH	0000	0	0	0	0	0	0	6	13	7	19	4	0	0	5
	0300	0	0	0	0	0	0	14	13	3	23	4	0	0	5
	0600	3	0	0	0	0	1	7	19	0	23	7	0	0	8
	0900	3	0	0	0	0	1	2	24	0	11	15	5	0	14
	1200	2	0	0	0	0	0	2	26	0	11	19	0	0	12
	1500	0	0	0	0	0	0	2	25	3	25	2	0	0	5
	1800	2	0	0	0	0	0	1	20	7	15	8	0	0	6
	2100	3	0	0	0	0	0	4	21	2	21	7	0	0	6
	TOTAL	17	0	0	0	0	2	38	161	22	148	66	4	0	4
حبانية HABBANIYA	0000	1	0	0	0	0	0	4	12	13	17	0	0	0	3
	0300	2	0	0	0	0	0	4	17	7	22	1	0	0	5
	0600	3	0	0	0	0	0	7	20	0	15	15	0	0	10
	0900	3	0	0	0	0	0	5	17	5	10	14	1	0	10
	1200	3	2	0	0	0	3	5	17	0	17	12	1	0	11
	1500	3	0	0	0	0	0	6	15	6	20	4	0	0	5
	1800	1	0	0	0	0	0	3	11	15	11	4	0	0	4
	2100	1	1	0	0	0	0	5	10	13	14	3	0	0	4
	TOTAL	17	3	0	0	0	0	39	119	59	126	53	2	0	7

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TABLE 14. الهطول اليومي (بالملمترات)

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

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18		tr.	tr.		tr.					
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
TOTAL	0.0	tr.	tr.	0.0	tr.	0.0	0.0	0.0	0.0	0.0
NORMAL	0.1	0.2	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.3
MAX. FALL IN 24 HOURS	0.6	7.1	3.2	1.0	15.0	tr.	tr.	0.2	0.4	6.4
DAY	30th	29	28	25	12	27	22	7	12	25th
YEAR	1951	1957	1942	1951	1957	1957	1953	1951	1938	1951

TABLE - 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــــة :

No. OF DAYS OF PHENOMENAS : عدد الايام التي حدثت فيها الظواهر الجوية

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	DUST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY
BAGHDAD	0	0	0	0	0	4	30	0
MOSUL	0	0	0	0	0	2	27	0
KIRKUK	0	0	0	0	0	0	30	0
KHANAQIN	0	0	0	0	0	0	30	0
RUTBAH	0	0	0	0	0	0	29	0
HAI	0	0	0	0	0	0	30	0
DIWANIYA	0	0	0	0	0	1	29	0
NASIRIYA	0	0	0	0	0	3	30	0
BASRAH	0	0	0	0	0	4	28	0
HABBANIYA	0	0	0	0	0	1	30	0

TABLE - 16 .

DURATION OF SUNSHINE: مدة سطوع الشمس

STATION	MONTHLY TOTAL SUNSHINE HOURS	MAX. SUNSHINE IN ONE DAY HOURS	MAX. SUNSHINE IN ONE DAY DAY	No. OF DAYS WITHOUT SUNSHINE
BAGHDAD	313.2	11.4	2,3,8&9	0
MOSUL	325.5	11.4	6&7	0
BASRAH	264.3	12.5	25	0
HABBANIYA	332.3	11.6	3,4,8&9	0

TABLE - 17 .

MONTHLY MEAN TEMPERATURES (C°) OF : المعدلات الشهرية لدرجة حرارة الحشيش والتربة

STATION	GRASS MINIMUM TEMPERATURES	EARTH TEMPERATURES 0.3 M	EARTH TEMPERATURES 1.2 M Meters.
BAGHDAD	13.5	30.2	29.9
MOSUL	,,,,	30.8	31.1
KIRKUK	14.1	28.8	29.5
HAI	16.4	,,,,	,,,,
NASIRIYA	17.9	,,,,	,,,,
BASRAH	15.4	,,,,	,,,,
HABBANIYA	16.1	31.3	31.3

TABLE 18-a .

Month: September 1961

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD

	SURFACE							1000-mbs.				850-mbs.				700-mbs.				600-mbs.			
DATE	$N_h C_L h C_M C_H$	ww	app	PPP	TT	Td	dd ff	HHH	TT	Td	dd ff	HHH	TT	Td	dd ff	HHH	TT	Td	dd ff	HHH	TT	Td	dd ff
1	00900	02	204	011	25	10	23 10	009				450	24	04	32 10	102	09	54	23 17	355	01	64	24 28
2	00900	02	202	044	23	09	29 10	033				463	21	52	28 17	101	11	74	25 14	370	05	87	26 24
3	00900	02	706	048	26	04	34 12	044	27	12	33 15	470	20	51	30 14	110	11	69	27 10	339	05	78	28 16
4	00900	02	707	080	26	06	34 20	040	27	05	32 06	466	21	51	31 27	110	11	66	27 16	382	06	77	25 22
5	00900	02	706	044	27	07	33 12	035	27	08	34 15	470	21	53	33 25	122	13	76	32 15	406	09	84	28 25
6	00900	02	705	045	21	10	29 10	038	20	07	29 10	462	21	52	10 02	104	13	67	00 00	394	07	78	22 08
7	00900	02	711	033	23	09	32 18	037	26	15	31 12	476	23	57	02 02	131	13	71	31 02	404	04	79	36 03
8	00900	02	703	027	21	05	30 10	023				463	24	59	32 12	124	14	72		402	06	83	34 07
9	00900	02	603	027	22	06	31 10	020				462	24	55	32 18	114	12	64	31 14	390	05	72	30 16
10	00900	02	602	027	22	09	28 10		NO				OBSERVATIONS										
11	00900	02	606	012	20	08	24 04																
12	00900	02	502	013	21	12	18 03																
13	00900	02	204	073	25	08	34 10																
14	00900	02	703	089	25	10	32 12																
15	00900	02	714	053	24	07	31 22																
16	00900	02	707	018	22	06	29 13																
17	00900	02	704	019	19	07	30 06																
18	00900	02	707	024	24	16	36 08																
19	10930	06	201	049	26	11	32 10	043	25	09	33 14	453	19	01	28 17	080	05	58	22 33	315	57	64	23 26
20	00900	02	706	065	19	07	30 05	086	21	06	33 02	503	19	51	35 12	136	08	61	02 06	390	02	70	32 14
21	00900	02	721	04	25	05	33 10	042	23	08	31 12	469	20	51	30 12	106	10	65	28 08	366	04	73	27 13
22	00900	02	304	047	19	09	30 08	034	22	07	24 05	460	20	17	24 07	092	04	04	25 23	339	51	55	25 23
23	00900	02	607	059	24	09	36 10	052	25	09	31 08	472	18	03	31 08	102	09	65	21 07	367	03	72	24 16
24	00900	02	302	071	25	02	07 10	069	26	06	05 06	488	21	55	32 12	126	08	59	24 25	396	06	73	24 33
25	00900	02	203	090	24	06	33 12	076	25	11		507	21	00		146	11	61		416	05	71	
26	00900	02	702	103	25	05	32 18	092	24	09	34 26	508	20	57	33 19	144	11	70	28 18	414	05	78	28 12
27	00900	02	707	064	19	04	32 16	048	21	09	32 29	464	21	02	32 15	118	63	57	28 13	396	05	66	27 22
28	00900	02	301	055	19	03	31 18	045	20	00	31 12	467	22	61	32 14	124	13	71	30 27	404	05	77	27 11
29	00900	02	400	092	19	05	32 12	082	22	06	30 06	496	20	51	31 15	131	11	65	28 14	400	03	74	28 14
30	00900	02	704	100	24	06	33 15	086	25	13	01 18	507	19	09	36 09	143	10	01	35 07	408	03	59	30 11

TABLE 18-b. Month: September 1961.

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD

DATE	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	580	57	79	24	23	753	63	87	26	27	967	57	99	26	35	246	99	17			429	12			
2	584	52	02	23	21	757	63	08	25	26	971	76	17	25	30	251	99		24	33	434	11			
3	581	52	86	27	27	754	64	92	26	29	966	78	05			245	98	21			429	11			
4	586	59	91	28	36	760	64	95			973	78	06			250	00				432	14			
5	589	00	94	26	30	763	64		26	32	975	79	08	24	36	253	00	24			436	12	36		
6	587	52	85	24	05	760	66	94	21	05	970	81	05	24	24	248	00	21	27	08					
7	586	55	87	05	10	758	64	94	09	11	970	78	06			249	99				432	12			
8	587	53	92	27	13	760	64	98	27	21	973	78	08			251	00				434	12			
9	585	54	82	26	16	758	64	92	26	26	971	79	06			245	05								
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19	574	58	79	24	56	744	65	00	24	53	956	80	05	23	33	233	99	22	25	62	417	11		24	36
20	584	56	81	33	14	755	67	95	29	31	965	81	02	28	49	241	00	28			424	12	28		
21	581	53	78	27	15	754	65	90	26	28	965	80	02			242	00	18			425	12	30		
22	578	55	62	27	35	750	66	73	27	45	961	80	87			238	00								
23	581	58	81	26	28	752	68	90	24	36	963	82	01	23	40	238	02	17			419	15			
24	586	54	81	23	31	757	68	92	24	48	967	80	02	22	58	243	00	18			426	12			
25	588	56	81			759	66	92			970	81	06			245	02	20			427	14			
26	587	55	86	25	14	758	67	98	22	20	967	84	05			240	02				420	13			
27	585	57	76	27	22	756	68	86	26	22	964	84	05	25	33										
28	586	55	86	27	13	758	66	94			968	81	07			245	99	21			428	13			
29	585	56	80	24	22	756	68	92	25	26	965	82	04	24	33	239	02	19			421	15			
30	586	56	65	30	15	756	69	76	30	33	966	84	90	28	33	238	04	08			419	16			

TABLE 18-c .

Month: September 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1300 G.M.T.) AT BAGHDAD

DATE	SURFACE $N_h C_L h_C M^C H$	ww	app	PPP	TT	Td	dd	ff	1000-mbs. HHH	TT	Td	dd	ff	850-mbs. HHH	TT	Td	dd	ff	700-mbs. HHH	TT	Td	dd	ff	600-mbs. HHH	TT	Td	dd	ff
1	00900	02	708	019	39	13	28	12	019					445	23	66	28	17	099	13	58	27	26	378	06	66	25	28
2	00900	02	713	047	37	07	31	15	047	37	15	30	13	489	21	00	30	15	127	10	57	29	27	399	04	78	26	20
3	00900	07	716	037	37	09	31	15	034	37	15	34	15	477	21	02	32	22	121	10	55	29	44	383	06	67	26	18
4	00900	07	707	039	36	08	31	18	039	37	05	32	25	472	20	53	32	30	111	11	66	28	16	384	07	80	27	22
5	00900	07	714	045	36	08	31	22	046	35	09	30	16	479	20	55	31	24	126	14	70	29	14	402	05	76	27	16
6	00900	02	716	030	39	06	33	18	036	39	09	34	16	486	23	01	31	18	141	13	57	33	17	419	05	72	29	15
7	00900	02	719	019	39	10	31	16	522					473	25	53	35	14	139	14	70	33	07	413	04	79	29	13
8	00900	02	714	020	40	11	30	18	518					482	26	10	29	15	153	14	56	30	08	435	06	63	25	07
9	00900	02	714	026	39	13	29	12	NO OBSERVATION																			
10	00900	02	716	017	39	08	28	15																				
11	00900	02	711	003	39	08	02	08																				
12	00901	02	708	028	36	17	32	18																				
13	00900	02	710	081	36	10	31	15																				
14	00900	07	718	076	36	09	33	21																				
15	00900	07	717	024	39	10	31	18																				
16	00900	07	714	019	37	10	30	18																				
17	00900	02	709	030	36	15	03	16																				
18	00900	02	719	012	38	15	25	12																				
19	00900	01	712	066	33	06	29	15	067	32	08	27	15	490	18	08	27	13	103	05	59	24	16	358	00	67	04	35
20	00900	02	717	045	37	06	30	13	045	36	08	31	12	487	22	03	3112		132	11	60	29	07	400	04	68	29	13
21	00900	02	717	032	37	09	24	12	033					471	21	00	26	06	106	07	60	27	20	359	01	72	26	22
22	00900	02	711	056	35	12	31	10	053	34	09	29	06	476	19	03	31	13	106	07	63	30	16	355	03	72	29	12
23	00900	02	710	057	36	08	24	08	054	35	12	29	08	481	20	03	29	06	124	10	58	26	26	402	06	6723		21
24	00900	02	712	078	37	09	36	10	073	36	10	33	10	513	22	50	31	09	157	10	57	27	14	431	08	70	23	23
25	00900	02	711	101	37	06	36	12	093	36	05	35	13	539	23	52	32	17	185	12	62	24	16	468	08	69	25	17
26	00900	07	717	080	33	01	32	23	074	32	09	30	22	482	16	58	31	32	138	12	66			411	05	75		
27	00900	07	714	038	34	05	31	24	044	34	04	30	23	470	23	66	32	14	128	13	75	26	08	403	05	81	26	15
28	00900	07	604	072	35	51	32	25	065	35	04	34	16	494	21	59	33	26	144	12	71	25	10	415	04	77	23	17
29	00900	02	713	099	36	04	34	14	097	34	06	32	18	534	22	04	31	18	180	10	55	30	15	453	07	14	22	13
30	00900	02	718	095	34	03	33	20	088	32	09	32	21	512	19	30	29	18	162	12	63	25	15	434	05	65	26	14

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	500-mbs.					400-mbs.					300-mbs.					200-mbs.					150-mbs.				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	585	51	74	25	18	760	61	82	25	22	975	75	95			257	95	12			444	08	14		
2	587	53	85	25	27	759	64	94	25	28	972	77	04	23	34	252	01		26	38	435	12			
3	587	53	78	26	32	760	62	84	27	32	974	77	98	25	34	254	99	16	24	32	438	11	27	23	26
4	582	01	84	26	22	761	64	99	27	30	972	79	06	28	12	249	00				432	14			
5	582	52	83	26	23	760	66	95	29	31	970	82	06	29	29	245	03		24	13	425	16		24	12
6	588	54	78	27	34	761	64	88	28	38	973	80	02	26	34	250	99	18	26	34	433	13		25	22
7	588	52	82	28	20	760	65		30	24	974	77	07	28	25	254	98	26	28	30	439	11		29	30
8	590	54	72	26	10	762	65	83	28	18	974	78	94	26	28	252	98	12	26	40	437	11		25	40
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19	580	52	71	02	30	753	65	83	31	40	966	78	99	27	40	245	96	15			431	08	28		
20	586	55	73	29	22	758	65	86	28	43	969	82	00	27	33	244	05	15	27	27	428	11		77	50
21	581	54	82	26	42	754	65	87	25	45	965	81	00	27	46	239	02	17			422	11			
22	580	58	80	78	14	751	66	87	26	47	962	80	02	26	10	239	00	16			422	13			
23	588	55	77	23	34	758	66	88	24	41	969	79	98	24	51										
24	590	53	80	22	26	763	65	88	20	32	975	79	01	21	28	253	99	18			431	24			
25	595	50	79	23	22	770	62	88	22	25	983	79	04	22	26	262	97	18	23	32	447	10		23	11
26	587	66	84			758	67	92			967	82	04			241	02				421	18			
27	586	55	89	25	27	758	66	99	24	29	968	82	10	24	35	243	01				425	12			
28	587	55	85	24	22	759	67	89	26	27	968	80	05	26	35	245	99		26	48	428	13		25	40
29	592	53	72	26	23	765	64	81	25	22	978	77	93	24	40	259	96	10	25	45	445	09			
30	590	54	77	25	32	762	67	88	25	32	973	79	98	25	42	250	00	15	25	50	415	11		24	56

NOTE: ALL HEIGHTS ARE IN DECAMETERS.

TABLE 19-a .

BAGHDAD AIRPORT

Month: September 1961 .

Frequency of horizontal visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									3
>200 -500M																									
>500 -1000M							1/1	1/1	1/1	1/1		1/1	1/1												6
>1000 -1500M											1			1	2	2	1								7
>1500 -3000M				1	2	3	1		2	1		1	1	1			4	2	1				1		21
>3 -5KM	1					1		1	1					1	2	3	4	2	1						18
>5 -10KM	1	1	1	11	9	6	5	4	2	3	4	8	8	6	7	17	12	9	2	3	1			1	121
>10 -15KM	3	3	4	11	11	11	10	13	15	14	16	11	8	12	13	7	6	11	15	11	12	11	7	7	242
>15 KM	25	26	25	7	8	9	13	11	9	10	9	9	12	9	6	1	3	6	11	15	16	18	22	22	302
TOTAL	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

Frequency of different heights of cloud-base (amount 5-8 oktas)

HEIGHT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
>900M	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air, the second number shows the total.

TABLE 19-b.

BASRAH AIRPORT

Month: September 1961 .

Frequency of Horizontal Visibility

T I M E - G . M . T .

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M								1/1	1/1	1/1	2/2	1/1	1/1	2/2	2/2	1/1									12
>500 -1000M										2/2	3/3	3/3	1/1		1/1	2/2	2/2								14
>1000 -1500M									2/2	2/2	2/2	3/3	3/3	2/2			1/1								15
>1500 -3000M				2/2	1/1	1/1	1/1	1/1	2/2	5/5	3/3	5/5	6/6	8/8	9/9	7/7	5/5	4/4	5/5	4/4	3/3	1/1	1/1		74
>3 -5KM	1/1	1/1	1/1		1/1	1/1	2/2	3/3	2/2	1/1	3/3	4/4	3/3		1/1	2/2		2/2		1/1		2/2	1/1	2/2	34
>5 -10KM	2/2	2/2	2/2	1/1			2/3	2/3	3/4	1/1	1/3	1/1	3/3	5/6	2/2	3/3	3/3	4/5	5/6	3/5	4/5	4/5	4/6	2/2	73
>10 -15KM	2	2	3	5	6	6	6	5	3	4	2	2	4	4	7	10	6	3	4	5	5	3	1	4	102
>15 KM	25	25	24	22	22	22	18	17	16	14	12	11	9	8	8	5	13	16	15	15	17	19	21	22	396
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

NOTE: In fields containing two number the first one gives the cases with dust in the air. the second number shows the total

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M										1	3	3	2	2	2	2	1								16
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
900M																									

TABLE 20-a .

Month: September 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
>500-900																														
<5/8 OR *									1					1	1	1			1	11	5	3	11	10	25	7	13	30	30	30
>900							1	1				2	1	1		1		3	3	8	17	14	8	7	10	12	1	30	30	30
AND ≥5/8								1	4			2	1		5	1		6	2		47	15	11	79	11	18	97	30	30	240
									1					1	1	1			1	11	5	3	11	10	25	7	13	30	30	30
TOTAL							1	1				2	1	1		1		3	3	8	17	14	8	7	10	12	1	30	30	30
								1	4			2	1		5	1		6	2		47	15	11	79	11	18	97	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	G.M.T
18	21	To	

To=Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

TABLE 20-b. : BASRAH AIRPORT Month: September 1961

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (⩾5 Oktas)

HEIGHT METERS	VISIBILITY																														
	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50				1	1	2							1															1	2	2
						4								1																5
>50-150																															
>150-300																															
>300-500																															
>500-900																															
<5/8 OR *													2	1	1		1	2	2	3	2	5	6	25	21	19	30	30	30
>900							2	1	1	2	4		5	4	7	1	3	2	1	3	3	5	4	10	13	9	5	29	28	28
AND ⩾5/8									4			6	5	1	25		2	10	6	5	25	3	2	37	16	20	108	30	30	235
														2	1	1		1	2	2	3	2	5	6	25	21	19	30	30	30
TOTAL				1	1	2	2	1	1	2	4		5	5	7	1	3	2	1	3	3	5	4	10	13	9	5	30	30	30
						4			4			6	5	1	26		2	10	6	5	25	3	2	37	16	20	128	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

GMT.

To= Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

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. 10
Vol. 24
Month October
Year 1961

العـــدد ١٠
مجلـــد ٢٤
الشهر تشرين الاول
السنة ١٩٦١

الجمهورية العراقيـــــة

وزارة المواصـــــــــــلات

مديرية الطيران المدني العامة

مديرية الانواء الجويـــــة

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 شهرية لشهـــــــــر

تشرين الاول ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR

OCTOBER 1 9 6 1 .

مجلد ٢٤ ، عدد (١٠) تشرين الاول ١٩٦١

VOLUME 24 , No. (10) OCTOBER 1961.

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(a)

تشرين الاول ١٩٦١

شهر

شهر معتدل و مستقر

كان الجو حسنا طيلة ايام الشهر و حتى ٢٨ منه وقد تصاعد غبار خفيف في فترات متقطعة نتيجة لوجود انخفاض متكرر في الضغط الجوى

اما الرياح فقد كانت شمالية غربيا معتدلة السرعة و لكنها تتغير الى جنوبية شرقية في فترات الغبار

وفي يومي ٢٩ و ٣٠ منه حدثت زوابع رعدية و امطار متقطعة خاصة غربي العراق نظرا لقدوم جبهة باردة من شرقي البحر الابيض المتوسط وفي ٣١ منه حدث غبار كثيف شمل العراق تقريبا بسبب حدوث انخفاض في الضغط الجوى

درجات الحرارة العظمى و الصغرى حول معدلاتها في جميع المناطق

OCTOBER 1961

The weather persist most of the month fine except slight Dusthaze during some days due to shallow depression developed over Iraq .

Winds were moderate NW'ly but fresh,SE'ly during dust periods .

Thunderstorms and rain occured in the western parts of the Country due to a depression combined with cold front passed from West on the days 29th & 30th .

Temperatures during this month were about the normal .

OCTOBER 1961 . تشرين الاول ١٩٦١

TABLE - 1 . المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	24.4	20.7	24.0	22.8	28.0	25.2	26.2	25.7	23.6
2	23.9	21.0	24.6	21.1	27.5	24.6	25.6	24.4	23.0
3	23.2	20.2	25.0	23.7	27.2	24.3	25.5	23.7	23.7
4	24.2	21.3	26.1	23.4	27.6	25.3	26.7	23.7	23.8
5	25.1	21.8	26.1	22.3	25.5	27.0	26.2	24.3	24.0
6	25.3	18.9	24.9	22.5	27.7	26.5	27.2	28.0	24.1
7	24.7	19.1	24.0	23.6	27.3	26.3	26.2	25.2	25.1
8	27.0	20.2	25.8	22.4	29.4	28.0	26.8	25.8	24.6
9	26.6	20.6	27.0	21.6	28.2	27.1	27.3	26.9	24.2
10	24.4	20.1	25.5	21.7	28.2	26.4	26.8	26.1	20.4
11	24.3	20.3	25.3	22.8	28.7	27.3	27.0	25.4	23.6
12	27.1	21.9	28.5	24.4	28.4	26.6	27.0	25.1	27.1
13	25.3	23.5	28.0	23.3	30.1	25.9	27.8	26.1	25.9
14	26.3	21.2	26.3	22.1	29.8	27.7	27.8	26.9	24.8
15	23.5	22.1	22.8	18.4	27.6	25.3	27.3	24.0	22.9
16	23.4	19.0	21.0	17.8	26.9	24.5	25.5	25.2	21.9
17	23.6	15.7	19.6	17.5	26.6	24.6	25.9	24.6	22.4
18	21.6	14.6	19.4	17.9	26.1	24.4	25.9	24.3	20.7
19	23.3	17.4	22.6	22.5	26.4	24.6	25.5	25.8	22.6
20	24.2	22.7	26.1	24.2	26.6	25.3	25.1	23.9	25.1
21	24.6	19.1	24.9	2 .2	26.8	25.4	26.5	27.4	24.7
22	24.0	18.0	23.9	19.9	26.1	24.4	26.6	27.9	22.9
23	22.0	17.4	21.7	19.9	25.2	24.4	24.9	25.9	21.6
24	20.1	15.0	20.7	19.9	24.5	22.9	24.6	23.9	20.6
25	21.1	16.5	22.2	20.7	23.8	22.8	23.7	21.9	21.2
26	21.8	16.3	22.6	21.9	25.2	23.8	24.0	21.6	20.2
27	23.9	17.5	24.0	23.1	26.7	24.3	24.1	22.6	22.0
28	24.1	18.3	25.8	22.0	24.2	23.9	24.6	23.8	23.9
29	23.8	22.3	24.8	18.2	24.7	24.0	24.8	24.6	23.9
30	22.8	20.9	24.7	17.0	24.1	23.3	23.9	24.1	23.3
31	24.4	23.1	23.6	15.9	24.7	25.1	26.2	24.1	24.5
MEANS	24.0	19.6	24.2	21.1	26.8	25.2	25.9	24.9	23.2
NORMAL	24.7	20.2	24.0	21.1	26.0	24.7	25.6	25.6	24.4
YEARS OF NORMAL	1937	1923	1935	1928	1940 to 1956	1939	1940	1937	1935

NOTE: T I M E - G . M . T .

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

TOBER 1961 . تشرين الاول ١٩٦١

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

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

التاريخ DATE	بغداد BAGH-DAD	موصل MOSUL	كركوك KIRKUK	رطبة RUTBAH	حي HAI	ديوانية DIWA-NIYA	ناصرية NASI-RIYA	بصرة BASRAH	حبانية HABBA-NIYA
1	1009.6	1010.8	1009.9	1011.7	1007.2	1009.0	1007.9	1006.9	1010.0
2	08.0	09.3	08.3	11.2	06.0	07.7	06.8	06.1	08.3
3	07.6	09.4	07.6	09.9	05.7	07.4	06.6	06.1	07.8
4	08.4	09.1	08.7	09.7	07.0	08.1	07.6	07.3	08.5
5	08.7	09.3	09.3	09.8	07.7	07.9	08.1	08.4	08.9
6	09.5	10.8	10.3	10.6	07.2	08.1	07.0	07.8	09.5
7	10.1	12.5	11.5	09.7	08.7	10.0	09.3	08.8	10.6
8	11.5	13.6	12.3	10.4	10.0	10.7	10.5	10.2	11.1
9	10.0	11.7	10.7	11.2	08.9	09.5	09.2	09.6	10.1
10	12.6	12.7	12.2	12.9	11.2	12.2	11.3	10.5	11.2
11	13.1	14.7	13.9	11.8	11.4	12.5	12.0	11.3	13.6
12	11.9	14.0	12.8	10.8	11.2	11.8	11.8	11.4	11.8
13	12.9	14.0	13.2	13.9	11.9	12.7	12.4	12.2	12.0
14	13.5	15.1	14.8	14.0	12.0	12.9	12.5	12.1	13.4
15	12.6	13.7	13.8	14.7	11.5	12.2	11.9	11.6	13.2
16	14.4	16.0	15.6	15.6	12.2	13.4	12.6	12.1	14.8
17	15.7	17.9	17.0	16.5	12.8	14.1	13.0	12.6	15.5
18	14.2	19.4	18.2	17.1	13.0	16.1	13.2	14.5	17.2
19	16.9	19.5	17.9	14.6	15.4	16.3	15.3	15.2	16.8
20	12.6	13.8	13.0	10.1	12.1	12.3	12.8	13.6	10.2
21	09.9	11.1	10.8	11.4	09.4	09.1	09.8	10.6	09.8
22	13.2	14.5	14.1	14.5	11.9	12.2	12.2	12.2	13.6
23	17.8	18.5	18.0	18.1	16.0	17.1	16.0	16.0	17.2
24	20.0	21.0	20.6	20.2	18.0	19.6	18.4	17.4	20.0
25	17.9	20.4	18.8	17.4	15.6	17.4	16.4	15.8	18.3
26	15.8	18.2	16.8	14.3	14.1	15.1	14.8	14.8	16.8
27	16.1	17.4	17.3	13.7	14.5	15.6	15.4	15.2	15.9
28	14.6	16.5	15.5	11.2	13.7	14.2	14.3	14.5	13.9
29	13.6	15.3	15.0	12.9	13.0	13.0	13.2	13.9	12.8
30	13.4	14.8	14.7	13.1	12.9	12.6	13.2	13.7	12.7
31	15.5	16.9	17.2	14.4	15.5	14.6	15.0	16.0	14.7
ANS	1013.1	1014.6	1013.9	1013.1	1011.6	1012.4	1012.0	1011.9	1012.9
ORMAL	1013.1	1014.0	1012.8	1014.9	1012.5	1011.9	1012.2	1012.0	1013.4
961:									
IGHEST	1021.8	1023.0	1021.9	1021.8	1019.5	1021.2	1020.1	1019.1	1022.1
MB-GMT	0600	0600	0600	0600	0600	0600	0600	0600	0600
AY	24th	25	24	24	24	24	24	24	24th
OWEST	1005.2	1006.3	1005.8	1008.4	1004.2	1006.4	1005.7	1005.3	1006.9
ME-GMT	0000	1500	1200	1500	0300	1500	00&12	12&21	1500
AY	7th	3	3	4	3	5	3	2	3
CORD:									
IGHEST	1023.4	1026.0	1024.4	1027.3	1022.4	1022.7	1022.5	1021.0	
ME-GMT	0300	0600	0600	0000	0600	0600	0600	0600	NOT
AY	29th	26	29	15	29	29	29	26th	AVAI-
AR	1947	1950	1947	1948	1947	1947	1947	1950	LABLE
WEST	1003.8	1003.2	1002.5	1004.7	1002.9	1002.6	1003.2	1002.9	
ME-GMT	1500	1200	1200	1200	0000	0000	0000	0000	
AY	11th	12	7	11	1	1	1	1&6	
AR	1958	1948	1950	1958	1954	1954	1954	1954	

OCTOBER 1961 . تشرين الاول ١٩٦١

TABLE - 3 . المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	دبوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	29	53	18	37	30	29	21	34	30
2	26	50	16	23	32	25	20	42	25
3	31	58	16	28	28	26	21	45	25
4	34	53	19	24	28	30	22	47	33
5	38	46	20	26	35	27	28	43	39
6	35	54	21	29	31	26	27	42	39
7	35	59	18	23	27	32	25	53	46
8	32	56	18	24	26	27	29	53	40
9	32	60	21	25	34	30	28	45	44
10	41	56	20	20	29	34	25	47	37
11	44	57	23	18	30	34	26	54	57
12	33	58	17	16	37	34	27	59	43
13	34	50	17	29	32	33	25	58	42
14	38	61	26	30	30	31	25	53	48
15	43	55	28	48	38	36	22	52	57
16	43	58	32	40	35	36	32	49	59
17	39	64	34	36	37	34	31	53	54
18	39	65	27	29	32	30	24	44	58
19	33	57	22	19	29	34	25	40	57
20	36	45	20	15	38	31	29	44	45
21	35	52	24	40	32	29	27	47	34
22	39	63	29	33	52	38	39	66	43
23	45	60	29	32	42	37	31	64	42
24	44	52	24	29	32	36	23	40	41
25	42	55	27	26	31	30	25	40	41
26	47	59	21	22	34	35	32	49	53
27	44	59	21	22	35	38	35	50	52
28	49	57	18	40	45	38	36	44	41
29	45	47	20	83	40	35	34	51	36
30	44	52	24	81	42	37	46	70	41
31	51	49	31	82	50	50	61	80	48
MEANS	39	55	23	33	35	33	29	50	44
NORMAL	36	49	30	34	34	41	35	55	37
1961 :									
HIGHEST	71	95	50	98	85	71	89	100	81
TIME-GMT	0300	0300	0000	0000	0300	03&06	0300	0300	0300
DAY	11th	18	17	30	22	31	31	23	19th
LOWEST	10	17	5	5	16	11	9	14	10
TIME-GMT	1200	1200	1200	1200	1200	1200	1200	1200	1200
DAY	2nd	19	2&3	11&19	7	2	2	16	2nd.

OCTOBER 1961 .

تشرين الاول ١٩٦١

TABLE 4-a .

درجات الحرارة العظمى والصغرى اليومية بالفهرنهايت
DAILY MAXIMUM AND MINIMUM TEMPERATURES (^{o}F)

	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	33.6	14.5	33.4	9.1	32.9	15.7	34.0	11.3	31.0	11.8
2	35.0	14.5	34.9	10.0	34.6	15.5	35.6	10.6	32.0	12.4
3	36.0	10.9	35.9	6.6	34.9	14.9	35.6	10.6	35.0	13.0
4	36.7	11.8	34.6	8.3	35.5	17.8	35.0	11.7	35.0	13.0
5	36.6	12.6	34.3	8.8	35.7	18.3	36.1	15.6	31.2	11.6
6	34.5	13.9	33.3	8.5	34.2	17.9	34.4	13.9	31.6	12.4
7	33.7	11.2	33.4	7.4	32.7	14.6	32.8	12.2	33.7	10.8
8	36.4	15.7	34.5	8.3	35.1	16.4	35.0	12.2	32.5	13.5
9	36.8	14.6	36.2	9.2	37.3	19.2	36.7	16.1	31.0	11.5
10	35.0	14.8	34.6	8.8	34.5	18.2	34.0	15.6	31.0	12.2
11	34.0	15.4	35.1	9.3	33.7	17.5	34.0	13.9	34.3	11.3
12	38.4	13.5	37.2	9.1	38.9	20.5	38.3	14.4	34.8	14.8
13	36.5	14.5	35.6	11.9	37.4	19.5	37.2	20.0	31.0	15.6
14	36.3	16.2	31.9	12.0	33.6	19.6	34.4	15.6	32.0	13.4
15	32.0	14.8	30.6	14.2	31.2	16.2	35.0	16.7	25.4	13.0
16	30.6	16.6	27.3	7.7	28.8	13.0	31.7	12.8	26.3	11.5
17	29.1	17.6	26.1	7.2	27.0	14.2	28.9	12.8	25.6	10.5
18	29.4	14.0	28.8	5.0	27.7	10.4	27.8	9.4	27.0	9.0
19	32.9	12.6	32.2	5.6	32.3	12.7	32.2	9.0	32.4	13.0
20	33.7	12.2	31.9	10.8	34.4	18.6	35.0	13.9	32.0	19.5
21	33.5	16.0	31.2	17.2	33.0	21.1	33.6	18.4	26.4	14.6
22	31.9	16.6	30.6	10.8	33.5	16.9	34.0	17.2	28.1	12.0
23	30.8	13.2	30.0	8.4	30.2	15.0	30.0	14.4	28.2	12.5
24	30.8	10.8	28.8	4.6	28.8	14.3	29.4	13.3	30.4	11.4
25	30.8	11.2	30.5	5.5	29.3	15.4	30.0	10.6	30.5	10.8
26	31.0	11.6	29.6	6.8	30.0	17.5	31.1	10.6	29.2	15.2
27	33.4	11.1	32.2	8.4	32.3	16.3	32.2	12.2	32.0	12.5
28	34.5	14.3	33.2	7.0	34.3	18.9	34.4	13.3	31.8	18.2
29	32.5	12.9	29.8	16.1	34.2	16.7	32.2	14.4	22.0	15.0
30	32.3	15.3	30.9	14.1	33.2	18.6	33.3	13.3	21.7	14.2
31	31.0	16.8	31.9	17.0	31.7	16.7	31.1	14.4	20.8	12.3
MEANS	33.5	13.9	32.3	9.5	33.0	16.7	33.4	13.6	29.9	13.0
NORMAL	33.4	16.2	31.6	10.7	31.4	17.0	33.1	16.2	29.9	12.5
HIGHEST	41.6		41.3		41.4		42.2		38.4	
DAY	2nd		3&4		2nd		2nd		6th.	
YEAR	1947		1952		1953		1953		1953	
LOWEST		3.9		0.0		1.1		3.9		0.6
DAY		29th		25th		29th		14&15		15th
YEAR		1946		1947		1946		1948		1948

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	هي HAI		ديوانية DIWANIYA		ناصرية NASIRIYA		بصرة BASRAH		حبانية HABBANIYA	
التاريخ DATE	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.	عظمى MAX.	صغرى MIN.
1	34.8	16.4	34.5	15.6	34.5	18.3	34.6	19.8	33.2	15.0
2	34.8	15.4	35.0	15.6	35.1	15.8	33.9	16.5	34.2	14.2
3	35.2	14.3	36.0	13.0	36.6	15.4	34.8	14.8	35.6	13.9
4	37.0	13.0	36.9	14.1	37.8	15.4	34.6	15.5	36.1	16.0
5	37.5	14.2	37.2	15.0	37.8	14.5	35.9	12.7	36.4	15.5
6	37.3	14.0	36.8	17.2	37.5	17.6	38.5	18.2	33.6	14.4
7	34.8	15.0	36.6	16.2	36.6	16,3	35.6	16.8	33.9	14.2
8	37.9	16.5	38.0	19.3	37.8	15.0	37.3	15.3	36.4	15.4
9	39.0	16.5	38.2	16.4	38.5	16.9	38.3	18.0	35.6	15.1
10	35.8	15.0	36.8	16.3	37.2	15.3	36.7	18.5	34.4	16.0
11	36.0	16.5	36.8	19.1	37.0	17.5	35.6	15.9	35.6	14.5
12	39.8	15.2	38.4	15.5	39.0	16.3	36.1	15.7	39.2	15.0
13	39.4	16.4	38.0	15.6	39.2	16.1	38.1	16.5	36.1	16.8
14	37.9	18.0	38.0	15.6	38.8	17.8	38.2	18.1	35.1	16.1
15	37.7	15.2	34.6	16.2	38.2	17.0	38.2	17.1	30.0	16.7
16	34.5	15.6	34.5	16.4	36.0	16.0	36.2	16.8	29.5	15.2
17	33.7	16.3	33.2	16.9	35.0	15.5	35.2	16.9	29.1	16.0
18	32.5	17.7	32.5	17.5	34.0	17.8	34.6	16.7	30.0	13.1
19	34.3	14.5	35.3	15.4	35.8	17.0	35.0	16.7	33.8	12.2
20	34.8	15.3	36.6	14.5	37.8	14.6	34.7	14.7	35.6	14.0
21	35.3	14.5	35.8	14.8	35.6	17.0	36.5	17.4	33.0	18.5
22	34.3	15.0	32.6	16.3	34.6	18.0	36.6	22.6	31.8	17.8
23	32.5	15.0	33.3	17.4	33.6	16.4	35.1	20.1	30.5	14.2
24	31.2	15.1	32.0	15.5	32.8	15.6	32.3	15.8	30.6	12.8
25	31.2	11.8	32.3	14.0	32.1	15.0	31.1	15.7	31.0	12.4
26	33.0	13.0	33.5	14.2	34.0	15.8	31.3	13.5	31.4	13.4
27	34.1	15.5	34.7	14.0	34.1	15.0	32.6	13.8	33.8	12.8
28	34.4	13.4	34.6	14.0	35.0	14.2	35.8	13.5	35.0	15.5
29	34.3	12.4	35.0	14.8	34.2	15.5	35.1	14.9	34.4	14.2
30	31.8	13.2	32.0	14.8	31.4	16.5	32.2	19.5	32.2	15.6
31	31.4	13.0	31.5	16.0	32.4	19.6	32.2	15.6	30.6	14.9
MEANS	35.1	14.9	35.2	15.7	35.8	16.3	35.3	16.6	33.5	14.9
NORMAL	35.3	17.3	34.7	14.9	35.6	16.4	34.7	17.7	33.5	16.2
HIGHEST	43.9		43.9		43.9		45.6		42.2	
DAY	3rd		2nd		1st		1st		2nd	
YEAR	1947		1947		1951		1951		1953	
LOWEST		6.7		2.8		7.8		6.1		5.6
DAY		15th		18th		30th		6th		29th
YEAR		1948		1948		1948		1941		1946

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

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	18.5	16.1	22.7	31.0	33.2	28.1	22.9	20.1	24.1
MOSUL	12.1	10.3	18.4	29.0	31.2	24.4	17.7	14.0	19.6
KIRKUK	18.8	17.8	25.8	31.1	31.7	26.4	22.1	20.2	24.2
KHANAQIN	,,,,	15.0	25.2	31.8	33.3	28.7	22.4	,,,,	26.1
RUTBAH	15.3	13.9	19.4	26.7	29.1	26.2	20.6	17.4	21.1
HAI	,,,,	16.8	24.5	33.6	34.0	28.1	23.8	....	26.8
DIWANIYA	18.5	16.5	25.4	33.4	35.1	28.5	23.3	21.2	25.2
NASIRIYA	18.9	17.0	25.9	33.8	35.4	29.9	24.8	21.6	25.9
BASRAH	19.0	17.3	24.5	32.1	34.3	28.1	23.5	20.8	25.0
HABBANIYA	16.9	15.4	22.2	31.2	32.9	26.3	22.3	19.6	23.4

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.0	11.1	14.9	18.9	19.5	18.0	15.2	13.8	15.4
MOSUL	9.6	8.4	13.3	18.0	18.3	16.0	12.9	11.0	13.4
KIRKUK	10.3	9.8	14.1	16.2	16.1	14.3	12.7	11.1	13.1
KHANAQIN	,,,,	8.0	15.6	16.3	16.8	15.8	12.2	,,,,	14.1
RUTBAH	9.5	8.6	11.4	15.0	16.0	14.6	12.2	10.7	12.3
HAI	,,,,	10.9	15.8	19.4	18.9	17.4	14.7	....	16.2
DIWANIYA	11.8	10.7	16.0	17.3	20.0	17.6	14.6	13.3	15.4
NASIRIYA	11.9	10.9	15.4	18.3	18.8	17.6	15.1	13.7	15.2
BASRAH	15.1	13.3	17.7	20.6	21.2	19.7	18.6	16.7	17.9
HABBANIYA	12.2	11.2	15.3	19.5	20.3	17.9	15.1	13.8	15.7

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.3	13.1	14.1	13.9	12.2	12.3	13.0	13.0	1013.0
MOSUL	15.1	15.6	16.2	14.4	12.7	12.9	14.6	15.1	1014.6
KIRKUK	14.2	14.6	14.8	13.5	12.2	12.9	14.2	14.4	1013.9
KHANAQIN	....	16.4	13.6	11.3	10.5	11.4	13.3	,,,,	1012.8
RUTBAH	12.6	13.4	14.4	13.5	12.3	12.3	13.2	13.0	1013.1
HAI	,,,,	11.5	12.8	12.2	10.8	10.8	11.5	,,,,	1011.6
DIWANIYA	11.9	12.6	13.9	13.2	11.6	11.6	12.3	12.3	1012.4
NASIRIYA	11.4	12.1	13.4	12.7	11.3	11.3	12.0	12.0	1012.0
BASRAH	11.3	11.8	13.1	12.5	11.1	11.3	12.0	11.5	1011.9
HABBANIYA	12.7	13.4	14.5	13.5	12.2	12.1	12.8	12.9	1013.0

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (٪)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	46	52	40	28	24	34	42	46	39
MOSUL	74	80	57	34	28	42	59	69	55
KIRKUK	28	30	21	12	13	20	27	26	22
KHANAQIN	,,	31	21	14	13	20	25	,,	21
RUTBAH	42	46	36	25	21	26	33	40	34
HAI	,,	47	41	26	23	34	37	,,	35
DIWANIYA	40	45	34	22	20	30	34	38	33
NASIRIYA	38	42	28	17	15	25	31	37	29
BASRAH	63	58	49	31	28	43	61	65	50
HABBANIYA	55	58	45	30	28	41	44	50	44

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TABLE - 9 . المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.4	9.5	10.8	12.2	11.8	12.7	11.4	10.8	11.1
MOSUL	10.5	10.1	12.0	13.5	12.4	12.8	12.1	11.2	11.8
KIRKUK	5.8	5.9	6.7	6.6	6.0	6.7	7.2	5.9	6.4
KHANAQIN	...	5.4	6.7	6.2	6.2	7.6	6.4	...	6.4
RUTBAH	7.3	7.2	7.9	7.8	7.6	7.8	7.5	7.8	7.6
HAI	...	9.2	12.3	13.3	12.2	12.7	10.7	...	11.6
DIWANIYA	8.5	8.4	10.9	11.3	11.5	11.4	9.7	9.3	10.1
NASIRIYA	8.4	8.2	9.2	8.7	8.4	10.3	9.6	9.5	9.0
BASRAH	14.2	12.3	14.9	15.1	15.1	16.3	17.6	16.1	15.2
HABBANIYA	10.5	10.1	12.1	13.4	13.9	13.9	11.6	11.4	12.1

TABLE - 10. المعدل الشهري لدرجة الندى (مئوية)

MONTHLY MEAN DEW POINT (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	6.3	5.9	8.0	9.4	9.0	10.2	8.7	7.8	8.2
MOSUL	7.4	6.8	9.5	11.2	10.0	10.3	9.2	8.4	9.1
KIRKUK	-0.8	-0.5	1.1	0.6	-0.8	0.7	2.0	-0.6	0.2
KHANAQIN	...	-2.1	0.9	0.5	0.8	2.8	1.7	...	0.8
RUTBAH	1.6	1.6	2.4	2.3	1.9	2.2	1.7	2.4	2.0
HAI	...	5.7	9.5	13.3	9.7	10.1	7.8	...	9.4
DIWANIYA	4.2	4.2	7.9	8.4	8.6	8.5	6.2	5.5	6.7
NASIRIYA	3.9	3.5	5.1	4.6	4.2	7.1	6.0	5.7	5.0
BASRAH	11.5	9.3	12.3	12.6	12.5	14.5	15.1	13.6	12.7
HABBANIYA	7.3	6.7	9.3	10.5	11.1	11.4	8.8	8.5	9.2

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOSUL	0.8	1.0	0.8	0.7	1.2	1.1	1.1	1.1	1.0
KIRKUK	0.3	0.6	0.6	0.4	0.4	0.5	0.4	0.6	0.5
KHANAQIN	...	0.1	0.0	0.0	0.1	0.1	0.0	...	0.0
RUTBAH	1.1	1.2	0.9	0.8	1.1	1.0	0.8	0.6	0.9
HAI	...	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	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
BASRAH	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
HABBANIYA	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1

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

MONTHLY TOTAL CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.5	1.3	1.3	1.2	1.2	1.3	0.8	0.5	1.0
MOSUL	1.4	1.8	1.7	1.7	2.0	2.1	1.8	2.0	1.8
KIRKUK	0.5	0.9	1.3	0.9	1.1	1.3	0.5	0.8	0.9
KHANAQIN	...	1.1	1.1	1.1	1.0	1.2	0.6	...	1.0
RUTBAH	2.1	2.0	1.6	1.7	1.7	1.9	1.5	1.2	1.7
HAI	...	1.3	1.2	1.1	1.1	1.1	0.4	...	1.0
DIWANIYA	0.7	0.7	0.9	1.0	0.8	0.7	0.4	0.4	0.7
NASIRIYA	0.5	0.5	0.8	0.9	1.0	0.5	0.2	0.2	0.6
BASRAH	0.5	0.3	0.5	0.6	0.9	0.7	0.2	0.2	0.5
HABBANIYA	0.8	1.3	1.4	1.4	1.5	1.5	1.1	1.1	1.3

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TABLE 13a. عدد مشاهدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت التسجيل 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	
بغداد BAGHDAD	0000	9	3	3	3	0	0	1	11	1	25	5	0	0	6
	0300	6	2	1	0	0	2	1	13	1	24	6	0	0	6
	0600	7	5	1	0	0	1	3	13	0	26	6	0	0	6
	0900	12	1	0	4	2	0	1	8	0	22	8	1	0	9
	1200	12	0	1	5	2	0	1	9	1	17	13	1	0	10
	1500	10	1	1	4	2	0	1	10	1	28	2	0	0	5
	1800	3	4	4	2	1	0	0	15	2	26	3	0	0	5
	2100	2	2	4	3	0	0	2	15	2	24	6	0	0	6
	TOTAL	63	20	15	20	8	3	12	92	8	190	49	1	0	7
موصل MOSUL	0000	9	2	1	0	0	0	0	1	9	21	1	0	0	3
	0300	12	0	2	0	0	0	0	6	5	27	3	0	0	5
	0600	14	0	3	0	0	0	0	8	0	29	4	0	0	5
	0900	6	0	2	0	1	0	0	6	0	25	5	0	0	6
	1200	8	0	2	0	2	0	0	8	0	27	3	0	0	5
	1500	0	1	1	2	3	1	1	11	0	21	5	0	0	6
	1800	10	1	3	2	3	0	1	9	0	24	6	0	0	6
	2100	11	3	2	0	0	1	0	8	3	25	2	0	0	5
	TOTAL	63	10	20	16	15	5	5	65	35	199	29	0	0	5
كركوك KIRKUK	0000	5	16	0	0	0	0	1	0	10	20	1	0	0	4
	0300	0	12	0	0	0	0	0	3	15	16	0	0	0	3
	0600	1	3	0	0	1	0	0	1	13	13	0	0	0	3
	0900	2	0	0	0	2	2	0	0	11	20	0	0	0	3
	1200	0	1	0	0	3	4	1	0	7	24	0	0	0	3
	1500	0	0	0	0	2	1	1	0	4	11	0	0	0	2
	1800	2	3	2	0	0	0	0	0	22	3	0	0	0	1
	2100	1	13	3	0	0	0	1	2	11	20	0	0	0	2
	TOTAL	112	52	5	8	9	10	3	6	111	136	1	0	0	3
خانقين KHANAQIN	0300	0	0	7	3	2	0	0	0	12	14	0	0	0	3
	0600	1	0	6	1	1	0	1	0	20	11	0	0	0	3
	0900	1	0	0	1	7	0	0	8	5	6	25	0	0	7
	1200	2	0	1	1	7	0	0	11	4	4	27	0	0	7
	1500	1	0	0	0	5	0	0	11	2	12	19	0	0	6
	1800	0	0	8	0	0	0	2	0	21	10	0	0	0	4
	TOTAL	6	0	22	8	22	0	3	30	80	106	0	0	0	3
رطبة RUTBAH	0000	1	0	2	1	0	0	0	0	19	12	3	1	0	5
	0300	2	0	2	2	0	0	0	0	19	20	2	0	0	4
	0600	5	0	2	2	0	0	0	0	12	16	4	0	0	6
	0900	7	0	2	2	0	0	0	0	12	18	10	1	0	9
	1200	5	0	2	3	0	0	0	0	12	14	14	2	0	9
	1500	8	0	3	3	0	0	0	0	12	24	4	0	0	7
	1800	4	0	3	4	0	0	0	0	9	19	3	0	0	7
	2100	5	0	3	4	0	0	0	0	11	17	3	0	0	7
	TOTAL	37	1	20	31	25	21	17	24	59	140	43	3	0	8

TABLE 13-b

عدد مشاهدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت گرينتش TIME GMT.	DIRECTION الاتجاه								SPEED IN KNOTS السرعة بالعقد					السرعة بالعقد المعدل MEAN V.K.
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	≥34	
حي HAI	0300	2	0	3	0	0	1	7	11	7	16	8	0	0	7
	0600	2	0	5	0	0	0	7	12	5	17	9	0	0	8
	0900	3	1	2	2	2	0	6	14	4	11	13	1	0	11
	1200	2	1	0	2	3	0	8	12	3	12	15	1	0	11
	1500	0	0	4	1	0	0	6	15	5	25	1	0	0	5
	1800	0	0	5	0	0	0	5	14	7	16	8	0	0	7
	TOTAL	9	2	21	6	2	1	36	78	31	97	56	2	0	8
ديوانية DIWANIYA	0000	10	2	7	2	0	0	5	1	8	18	5	0	0	6
	0300	12	2	2	0	0	0	6	3	6	20	5	0	0	6
	0600	12	1	2	0	0	1	6	2	6	21	4	0	0	6
	0900	11	1	0	2	4	1	6	4	3	21	7	0	0	7
	1200	11	1	1	1	4	1	0	8	4	15	12	0	0	8
	1500	9	1	4	0	0	0	5	4	8	22	3	0	0	5
	1800	8	4	5	1	1	0	4	0	3	26	3	0	0	5
	2100	10	1	7	0	1	0	4	2	6	22	3	0	0	6
	TOTAL	83	13	24	6	10	3	42	24	44	165	39	0	0	6
ناصرية NASIRIYA	0000	5	0	1	1	6	0	9	8	5	27	0	0	0	4
	0300	2	0	2	3	5	1	9	9	6	25	0	0	0	4
	0600	3	0	4	3	4	2	8	5	3	24	4	0	0	6
	0900	3	0	0	2	2	4	8	10	2	23	6	0	0	7
	1200	8	0	3	2	0	1	5	10	1	22	7	1	0	8
	1500	3	0	6	2	0	0	4	6	1	20	7	0	0	5
	1800	9	0	3	5	0	0	3	5	5	25	1	0	0	5
	2100	7	0	2	4	3	0	3	6	4	24	3	0	0	5
	TOTAL	40	0	18	23	15	8	54	55	35	188	24	1	0	5
بصرة BASRAH	0000	5	0	0	1	3	1	8	10	8	22	1	0	0	4
	0300	2	1	0	1	1	1	5	12	4	18	3	0	0	5
	0600	3	0	2	1	0	0	4	11	4	18	2	0	0	5
	0900	5	0	0	3	1	0	2	8	1	21	3	0	0	6
	1200	4	0	1	3	2	0	1	7	1	23	2	0	0	6
	1500	6	0	1	2	2	0	0	11	2	24	0	0	0	5
	1800	7	1	0	5	1	0	0	7	2	22	3	0	0	5
	2100	2	1	0	2	4	0	0	8	1	19	3	0	0	5
	TOTAL	34	2	4	15	20	4	24	87	61	169	18	0	0	4
حبانية HABBANIYA	0000	3	0	0	1	0	1	4	1	21	9	1	0	0	2
	0300	3	0	0	0	0	0	2	1	19	11	1	0	0	2
	0600	6	0	3	0	0	0	7	1	20	7	4	0	0	5
	0900	5	3	2	0	0	1	7	5	18	8	0	0	0	5
	1200	1	2	2	0	0	1	5	10	24	6	1	0	0	5
	1500	1	2	6	0	0	0	2	6	18	1	0	0	0	4
	1800	1	0	5	1	0	0	4	4	16	4	1	0	0	3
	2100	1	0	5	0	1	1	2	3	15	13	3	0	0	3
	TOTAL	25	7	24	10	1	4	36	44	96	127	25	0	0	4

OCTOBER 1961 . (10) تشرين الاول ١٩٦١

TABLE 14-a. الهطول اليومي (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) , tr. < 0.05 mm

التاريخ	بغداد	موصل	كركوك	خانقين	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	KHANA-QIN	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20		tr.			tr.					
21	tr.									
22										
23										
24										
25										
26										
27										
28					7.0					
29					1.0					
30					1.1					tr.
31		8.9	9.8		2.2				tr.	tr.
TOTAL	tr.	8.9	9.8	0.0	11.3	0.0	0.0	0.0	tr.	tr.
NORMAL	3.1	7.9	3.7	8.0	4.7	1.3	0.9	1.5	0.8	1.8
MAX. FALL 1N 24 HOURS	15.8	27.4	9.8	54.8	30.1	9.5	5.9	8.5	4.2	15.2
DAY	30th	27	31	30	27	22	21	31	31	20th
YEAR	1937	1924	1961	1937	1937	1959	1959	1954	1954	1942

OCTOBER 1961 .

تشرين الاول ١٩٦١

TABLE 14-b .

الهطول اليومي (ملليمترات)

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

التاريخ	تلعفر	حويجة	حديثة	شقلاوة	ديانا	طوسان	العظيم	الرميل	فتحة
DATE	TELA-AFAR	HAWI-JA	HADITHA	SHAQ-LAWA	DIANA	TUSAN	AL EITHAIM	AL ROUMIL	FATHA
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18				2.5					
19									
20					3.2				tr.
21									
22									
23									
24									
25									
26									
27									
28									
29									
30			2.0						
31	5.0	16.2	2.0			1.0	2.5	15.2	27.2
TOTAL	5.0	16.2	4.0	2.5	3.2	1.0	2.5	15.2	27.2

NOTE: The following Stations had no rainfall and the record was 0.0
Stations: Koufri , TaqTaq , KadirKaram , Koisinjang , K2 , Dukan.

ملاحظة : المحطات التالية لم يسقط المطر فيها والمجموع صفر .

المحطات : كفري ، طقطق ، قادركرم ، كويسنجق ، ك ٢ ، دوكان .

TABLE - 15 ٠

CLIMATOLOGICAL SUMMARY : الملخصات المناخية :

No. OF DAYS 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
BAGHDAD	0	0	0	0	0	0	23	0
MOSUL	1	0	0	1	0	0	18	4
KIRKUK	1	0	0	0	0	0	,,	,,
KHANAQIN	0	0	0	0	0	0	23	0
RUTBAH	4	0	0	3	0	1	21	2
HAI	0	0	0	0	0	0	21	0
DIWANIYA	0	0	0	0	0	0	24	0
NASIRIYA	0	0	0	0	0	1	24	0
BASRAH	0	0	0	1	1	0	27	0
HABBANIYA	0	0	0	0	0	0	22	1

TABLE - 16 ٠

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
BAGHDAD	294.6	10.8	1&4th	0
MOSUL	271.4	10.8	1,2&3	0
BASRAH	310.4	11.1	3rd	0
HABBANIYA	303.7	11.3	1st	0

TABLE - 17 ٠

المعدل الشهري لدرجة حرارة العشب و التربة

MONTHLY MEAN TEMPERATURES (C^{O}) OF :

STATIONS	GRASS MINIMUM TEMPERATURES	EARTH TEMPERATURES 0.3 M	EARTH TEMPERATURES 1.2 M
BAGHDAD	9.8	25.2	27.8
MOSUL	,,,,	24.3	26.7
KIRKUK	11.6	24.0	26.4
HAI	12.6	,,,,	,,,,
NASIRIYA	13.5	,,,,	,,,,
BASRAH	11.0	,,,,	,,,,
HABBANIYA	11.0	26.2	28.5

TABLE 18-a. (13) Month: October 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0001 G.M.T) AT BAGHDAD AIRPORT

Days	SURFACE P_o	C_L	hC_M	C_H	ww	app	PPP	TT	Td	dd	ff	1000-mbs. HHH	TT	Td	dd	ff	850-mbs. HHH	TT	Td	dd	ff	700-mbs. HHH	TT	Td	dd	ff	600-mbs. HHH	TT	Td	dd	ff
1	00900				02	707	101	20	05	32	10	075	23	06	32	08	511	19	69	29	20	155	11		30	10	425	06		29	15
2	00900				02	706	081	18	04	32	14	071	21	04	32	17	470	18	64	33	15	103	09	87	27	09	357	01	95	27	18
3	00900				02	302	079	16	02	30	13	059	20	06	32	05	485	22	05	31	15	137	11	56	30	23	400	02	64	29	23
4	00900				02	204	075	17	04	32	10	064	27	12	30	05	499	22	03	25	11	149	11	61	32	11	415	03	67	25	13
5	00900				02	808	080	17	06	36	08	068	20	06	03	04	481	20	59	04	04	113	08	65	32	30	367	51	77	26	38
6	00900				02	802	089	22	07	03	11	078	24	07	36	08	505	21	52	21	06	141	08	62	23	16	390	57	71	36	10
7	00900				02	702	052	22	04	36	12	086	25	10	36	13	506	19	03	31	16	136	17	59	27	11	384	51	66	25	12
8	00900				02	701	111	21	06	01	08	098	26	01	00	00	515	19	53	36	10	141	05	61	30	17	385	52	75	26	28
9	00900				02	706	099	22	07	06	08	085	26	53	08	02	511	20	62	00	00	143	06	66	25	16	389	51	75	24	24
10	00900				02	801	107	18	06	32	05	091	21	05	32	08	498	18	55	29	20	119	06	63	26	15	361	53	71	27	17
11	00900				02	804	136	17	11	35	05	111	19	09	36	05	518	12	53	29	09	141	07	66	27	15	382	53	74	27	22
12	00900				02	707	119	20	08	35	05	102	26	07	34	02	535	23	00	23	08	183	09	56	26	12	433	54	62	26	12
13	00900				02	801	119	20	06	12	12	097	23		17	12	527	24		20	20	174	09		20	07	417	54		19	10
14	00900				02	703	138	22	06	02	12	107	25	05			547	20	05			165	06	66			404	53	74		
15	00900				02	711	112	20	08	09	05	099	25	05	09	05	525	21	54	17	24	165	08	62	26	26	409	54	70	24	34
16	00900				02	006	139	18	08	33	08	119	30	05	34	08	529	17	51	29	16	154	06	60	23	29	390	56	65	24	30
17	00901				02	701	147	20	08	35	12	123	23	06			525	16	00			145	05	63			382	52	75		
18	00900				02	202	166	19	06	35	05	142	25	40	36	11	539	14	54	32	17	153	06	60	24	26	391	54	70	26	38
19	00900				02	804	174	17	02	00	00	184	18	04	00	00	547	16	53	28	08	173	07	60	27	18	416	52	70	26	10
20	00900				02	712	140	16	07	07	02	121	22	06	00	00	542	21	53	27	03	176	06	58	26	17	415	55	60	25	24
21	00931				02	302	099	17	05	31	04	080	25	06	18	10	514	22	56	25	22	157	08	61	25	11	398	53	62	26	26
22	10930				01	003	110	19	08	33	03	099	22	08	32	06	513	18	52	26	11	141	06	57	23	12	381	55	61	29	14
23	20930				01	400	155	20	08	33	02	141	22	07	34	07	547	16	53	29	15	160	05	64	25	33	397	53	63	29	36
24	00900				02	102	195	15	06	31	03	163	24	50	32	04	559	14	06	33	31	165	02	65	27	11	395	54	73	30	15
25	00900				02	502	192	14	03	31	04	162	21	05	33	10	569	15	00	34	28	185	05	57	31	20	430	52	71	30	20
26	00900				02	707	155	14	04	28	03	134	20	03	35	15	527	15	53	32	22	130	01	61	30	35	354	56	74	29	26
27	00900				02	422	158	20	08	02	02	137	24	06	36	06	550	18	52	31	06	171	04	58	28	20	440	56	61	28	18
28	00905				03	705	152	20	08	06	01	132	23	05	07	06	554	20	51	09	04	197	05	61	26	06	426	56	68	23	20
29	00902				01	801	134	18	10	11	02	130	22	08	11	07	551	19	51	22	07	177	04	60	16	08	409	52	63	25	10
30	00902				01	006	141	17	07	12	06	109	22	04	16	04	524	18	54	12	11	154	08	60	20	08	400	53	64	25	06
31	20930				02	208	144	18	08	12	02	120	20	08	12	12	519	15	50	15	19	125	04	60	16	08	354	56	67	20	07

NOTE: HEIGHTS ARE IN DECAMETER IN ALL LEVELS.

Radiosonde observations at standard levels (0001 G.M.T.) at BAGHDAD AIRPORT

	500-mbs.,					400-mbs.,					300-mbs.,					200-mbs.,					150-mbs.,				
DATE	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	588	55		27	17	759	67				969	82	16			245	01				428	11			
2	579	59	92	27	32	747	71	89	25	50	953	86	11	26	40	225	04		23	64					
3	584	59	75			752	71	85			959	86	98			232	03	11			413	14			
4	586	57	75	24	28	755	72	87	26	20	962	85	98	23	22	235	01	13	24	32	412	14		24	36
5	579	52	83	25	31	776	73	94	28	27	951	87	06	27	76	225	01	19	26	76					
6	582	61	77	26	30	749	76	90	26	33	952	86	02	27	82	224	03	17	26	92	406	12		26	90
7	582	60	77	25	23	750	72	90	27	37	956	85	99	25	82	230	05	13			413	11	27		
8	581	61	82	24	36	748	74	92	26	45	953	85	02	26	40	224	05	19	24	78	404	15			
9	581	61	83	23	38	749	72	93	25	80	954	88	06	35	60	225	03				406	04			
10	578	63	80	26	21	744	74	89	28	24	946	94	06			211	07	18			390	13			
11	581	62	81	24	30	748	73	91	27	48	952	89	05	27	82	220	07	20							
12	586	59	75	23	20	755	71	86	25	37	961	86	99	25	45	233	02	13	25	60	415	12		25	16
13	584	60		26	12	753	70		24	30	960	83		25	50	233	03		26	52	414	14			
14	583	60	80			751	70	89			959	83	01			232	03	17			414	13			
15	582	61	77	24	50	751	71	89	25	90	958	83	00	23	40	233	01								
16	581	62	89	25	45	748	74	92	24	26	952	86	07			223	05	18			402	15			
17	581	61	83			749	74	87			953	88	98			222	04	15			403	12			
18	580	62	82			747	73	91			952	88	03			218	05	18			399	12			
19	584	62	77	26	22	751	72	88	26	33	955	91	05	23	46	222	05	17	26	66	404	12			
20	582	62	75	27	32	749	73	89	24	48	953	87	04	26	52	223	05	18	26	90					
21	580	66	71	24	52	745	76	94	24	60	949	87	09	25	05	219	02	22	28	24	401	15			
22	579	63	82	30	20	745	75	91	29	45	947	90	04	29	72	216	01	19							
23	581	64	72	24	30	747	75	86	24	29	949	89	99	24	42	215	31	03			400	05	12		
24	581	64	84	31	18	746	76	94			947	94	09			210	06	21			391	09	99		
25	586	62	75	29	20	751	76	87	28	26	952	90	00	29	31	216	10	19			393	15	23		
26	586	64	80	27	12	741	75	91	25	16	942	92	05	25	20	204	13	24	26	25	381	14	25		
27	581	65	72	29	12	745	77	85	28	10	945	92	07	27	50	210	08	17	27	70	390	12	21	27	61
28	585	62	78	23	18	750	77	90	25	37	952	90	01	26	46	217	98	11	25	56					
29	582	63	75	19	20	748	76	87	22	11	949	92	99	24	25	212	11	18			389	64	22		
30	582	63	75	23	07	748	75	87	22	25	950	91	99	23	43	214	06	12	24	16	395	10	18	24	39
31	575	68	71	20	15	737	81	85	16	20	935	94	02	15	15	196	10	16			372	16	23		

TABLE 18-c. Month: October 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT .

DATE	SURFACE								1000-mbs.					850-mbs.					700-mbs.					600-mbs.				
	$N_h C_L h C_M C_H$	ww	app	PPP	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	00900	02	717	087	33	00	31	20	079	33	00	34	08	509	21	72	32	14	152	10	87	28	22	418	05	92	27	29
2	00900	02	717	070	35	53	32	15	065	33	03	33	12	491	21	01	33	16	140	11	61	29	15	413	05	66	28	30
3	00900	02	715	066	36	05	31	20	073	35	06	31	16	500	20	59	32	14	144	11	72	29	14	408	02	80	29	10
4	00900	02	713	076	36	07	32	12	070	36	06	28	08	513	20	57	32	16	148	10	70	31	19	410	02	76	29	13
5	00900	02	814	079	36	09	15	10	084	35	07	17	08	515	21	57	00	00	157	10	67	00	00	409	51	73	25	24
6	00900	02	714	085	34	09	33	16	081	33	09	34	08	505	19	55	30	05	131	07	65	24	14	382	58	73	26	16
7	00900	02	713	102	34	09	36	13	094	33	51	34	06	520	20	63	28	10	150	05	71	24	23	397	00	36	23	77
8	00900	02	716	111	36	12	31	03	106	34	02	00	00	537	20	59	00	00	170	07	66	24	17	417	51	75	26	26
9	00900	02	716	090	37	09	15	10	087	35	05	16	08	524	21	56	21	08	158	06	64	24	18	406	51	75	27	24
10	00900	02	703	122	35	09	35	08	111	33	06	28	10	536	17	52	26	18	161	17	66	23	17	411	51	75	24	23
11	00900	02	711	127	34	10	36	14	115	32	08	34	08	532	18	53	33	09	164	06	61	28	21	404	53	69	28	22
12	00900	02	714	110	38	09	16	08	105	34	03	18	06	579	21	55	20	12	185	08	63	20	11	432	53	65	27	12
13	00900	02	707	124	36	06	32	14	112	34	06	33	10	544	21	58	28	12	184	07	65	24	27	430	52	75	23	15
14	00900	02	708	131	36	11	28	05	118	34	08	23	04	546	19	52	25	08	174	05	58	27	28	410	54	65	27	22
15	00900	02	709	120	32	12	36	15	109	30	04	33	13	532	27	56	25	19	171	07	66	23	21	412	65	56	24	25
16	00900	02	718	134	30	11	35	10	120	27	06	36	09	529	17	00	27	10	152	06	57	23	34	391	53	68	25	43
17	00900	02	510	149	29	10	36	12	134	26	06	35	13	530	14	50	29	13	141	04	60	25	35	372	53	70	26	34
18	00900	02	715	160	29	08	36	05	144	26	04	36	10	545	19	52	31	14	161	05	60	25	24	401	53	71	28	32
19	00900	02	717	163	33	03	00	00	150	32	04	36	03	572	19	53	29	10	202	06	62	27	18	441	54	66	28	18
20	00900	02	721	170	34	09	15	04	111	32	08	20	06	541	21	01	22	16	175	07	58	18	14	430	01	61	23	04
21	60930	03	814	085	33	08	34	02	082	32	09	28	05	504	19	00	16	09	132	05	58	24	31	366	55	63	25	32
22	10930	03	512	120	32	11	32	12	109	30	08	34	10	524	18	51	33	11	142	04	63	24	14	383	52	76	24	20
23	00901	02	714	169	30	09	34	11	151	28	04	35	13	553	16	52	31	16	169	04	54	27	25	402	56	59	29	30
24	00900	02	717	195	30	06	05	08	172	28	05	34	09	574	14	54	31	24	176	02	63	30	28	402	55	72	30	20
25	00901	02	716	170	31	10	32	12	154	31	09	35	12	575	18	02	32	30	200	05	54	32	22	441	52	71	30	14
26	00932	02	712	152	31	12	36	07	136	27	05	34	09	547	17	50	29	19	164	02	59	31	17	389	58	67	29	16
27	00902	02	715	150	33	14	35	02	142	32	32	05	06	560	16	63	34	04	182	46	59	27	13	412	56	71	27	13
28	00906	02	718	139	34	16	19	03	123	31	04	16	04	542	20	55	24	02	172	05	67	17	05	405	54	70	18	15
29	20920	01	814	130	32	15	11	02	118	31	08	20	02	536	19	51	16	07	167	56	17	18	06	410	52	63	22	50
30	30936	02	718	120	31	10	15	02	106	31	08	20	08	523	17	52	19	12	141	04	64	11	11	372	55	64	11	07
31	40936	07	715	148	31	16	14	16	132	28	13	13	14	537	15	01	14	21	147	03	65	17	10	378	56	64	13	18

TABLE 18-d .

Month: October 1961 .

Radiosonde observations at standard levels (1200 G.M.T.) At BAGHDAD AIRPORT

DATE	500-mbs.,					400-mbs.,					300-mbs.,					200-mbs.,					150-mbs.,				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	587	56	98	26	35	758	70	07	26	40	965	82	17	26	50	239	02		26	45	421	14		25	56
2	586	56	73	27	42	758	69	83	27	42	966	83	96	28	50	240	01	13	29	56	422	13		26	55
3	585	58	87	29	13	755	70	97	29	34	961	88	11	28	50	232	02		29	70	414	15		29	52
4	585	59	84	30	13	754	70	94	23	33	960	85	06	28	59	236	00	19	28	38	419	10		28	92
5	-	-	-																						
6	581	60	83	26	26	749	72	90	28	46	956	85	04	27	88	229	00	16			413	11			
7	583	59	94	21	40	751	72	03	22	62	957	83	14	23	74	232	02		23	71	412	12		23	60
8	584	62	87	27	31	752	70	96	27	53	959	84	08	27	64	231	02		28	72	413	13		27	71
9	583	61	84	26	30	750	73	94	27	44	955	86	07	26	64	226	03		26	80	480	12		26	76
10	584	60	81	25	24	753	70	92	25	35	958	87	05	25	40	227	04		24	70	409	11		25	72
11	583	61	80	26	17	750	72	80	27	34	956	85	01	27	54	227	04	17	27	66	412	14			
12	585	60	78	23	21	753	70	88	26	40	961	84	03	27	46	233	02	19	27	62	414	14		29	75
13	586	59	85	25	31	755	69	93	26	42	964	82	03	26	38	238	03				417	17			
14	582	63	76	25	30	749	71	85	26	55	955	85	97	26	68	227	05	16			406	14			
15	583	61	87	25	44	751	71	92	26	59	957	84	00	25	83	231	02	18			412	13			
16	581	61	82	26	43	749	73	85	25	70	954	86	00	26	80	224	04	16			404	15	99		
17	579	62	80	25	44	745	76	86	25	43	947	90	98	25	65	213	06	16	26	74	393	14			
18	583	60	80	27	24	750	74	93	25	33	954	89	05	26	56	220	05	18	26	90	400	13			
19	586	62	77	21	28	752	75	86	24	53	957	87	00	27	73	228	01	12			411	10	20		
20	586	60	77	25	18	754	73	88	26	46	958	87	02	27	80	229	02	17	76	52	412	11		27	92
21	577	66	70	27	39	771	76	91	26	40	944	89	03	26	70	211	04	16			393	12			
22	580	64	86	23	21	745	76	96	25	40	946	91	07	25	00	211	05	19	24	82	392	12			
23	581	65	72	27	30	746	77	88	28	46	946	92	03	27	34	210	05	15	27	48	392	07	17		
24	581	63	80	30	28	746	77	91	30	34	946	99	06	29	32	206	11	23	28	36	381	18		28	58
25	586	61	77	29	27	753	74	86	28	30	955	91	00	27	36	218	12	20	28	42	395	11	19	26	26
26	579	66	80	24	14	743	78	92	25	18	943	93	02	24	23	205	08	14	26	64	384	13	18	26	50
27	582	64	80	25	22	747	75	90	27	40	949	90	04	27	83	215	09		27	70	392	16		27	80
28	582	63	81	23	22	748	75	95	24	24	950	90	04	25	50	216	06	18			394	17			
29	583	62	72	21	26	749	74	85	22	21	952	90	00	24	32	217	07	16	24	53	396	13	23	26	38
30	577	66	71	20	16	741	78	85	22	18	940	95	00	22	28	202	07				381	15			
31	578	66	70	17	25	741	78	81	19	34	942	92	97	18	25	204	07	13			383	12	19		

TABLE 19-a

(17)

Month: October 1961 .

BAGHDAD AIRPORT

Frequency of Horizontal Visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M					1	1																			2
>1000 -1500M																1									1
>1500 -3000M				1			1	1							1	4	1								9
>3 -5KM				1	9	4	1		1						1	9	3	1	1	1	1	1			34
>5 -10KM			2	9	12	13	12	8	6	3	3	3	3	3	12	11	14	5	4	2	1	1	1		128
>10 -15KM	11	9	8	14	6	12	15	19	19	19	18	14	10	18	16	6	12	23	18	11	10	7	8	8	311
>15KM	20	22	21	6	3	1	2	3	5	9	10	14	18	10	1		1	2	8	17	19	22	22	23	259
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air. the second one shows the total.

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
>900M	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

TABLE 19-b

Month: October 1961.

BASRAH AIRPORT

Frequency of horizontal visibility

T I M E - G . M . T

Visi-bility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M	1	1	1	1	1																				5
200 -500M						1																			1
500 -1000M				1																					1
1000 -1500M											1/1														1
1500 -3000M				1	1					1/1		2/2	2/2	1/1	1/1	1/1		1/1							11
3 -5KM				4	2	1					1/1			1/1	1/1		1/1		1/1	1/1					13
5 -10KM			2	3	4	4	3	1	1/1		1/1	1/1	1/2	2/2	2/3	2/2	1/2	1/1	1/2	3	2	2		1	42
10 -15KM	4	1	1	4	4	5	9	8	6	2	3	3	2	3	6	11	6	5	7	4	5	2	3	4	108
15KM	26	29	27	17	19	20	19	22	24	28	25	25	25	24	20	17	22	24	21	23	24	27	28	26	562
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

Frequency of Different heights of cloud - base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M	1	1	1																						3
50 -150M																									
150 -300M						1																			1
300 -600M										1															1
600 -900M									1																1
900	1	1	1		1	1	1	1	2	2	3	3	3	3	4	3	2								32

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air. the second number shows the total

TABLE 20-a (19) Month: October 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥5 Oktas)

HEIGHT	VISIBILITY																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
>500-900																														
< 5/8 OR *														1	1		1	1		9	12	11	14	15	20	6	2	31	31	31
900												1			4			9	3	3	11	19	10	6	9	18		31	31	31
AND ≥ 5/8												1			6	1	1	13	4	1	43	18	7	100	8	22	85	31	31	248
														1	1		1	1		9	12	11	14	15	20	6	2	31	31	31
TOTAL												1			4			9	3	3	11	19	10	6	9	18		31	31	31
												1			6	1	1	13	4	1	43	18	7	100	8	22	85	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	GMT.
18	21	To	

To= Total for all hours.

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 20-b (20) Month: October 1961

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (⩾ 5 Oktas)

HEIGHT	V I S I B I L I T Y																														
METERS	0-200M			⩾200-500M			⩾0.5-1KM			⩾1-1.5KM			⩾1.5-3KM			⩾3-5KM			⩾5-10KM			⩾10-15KM			⩾15KM			TOTAL		
0-50	1																											1		
			1																											1
⩾ 50-150																														
⩾ 150-300																														
⩾300-500																														
⩾500-900																														
⟨ 5/8 OR *		1					1					1			4			3	3	4	4	9	26	17	19	30	31	31			
⩾ 900										1	2	1						2	2	2	2	11	28	25	17	31	31	31			
AND ⩾ 5/8			1					1					5	1		5	2	2	14	6	2	40	22	27	181	31	31	247			
	1	1					1					1			4			3	3	4	4	9	26	17	19	31	31	31			
TOTAL										1	2	1						2	2	2	2	11	28	25	17	31	31	31			
			2					1					5	1		5	2	2	14	6	2	40	22	27	181	31	31	248			

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15 GMT.
18	21	To

To= Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

الجمهورية العراقية

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Monthly Climatological Data

No. 11 & 12
Vol. 24
Months: November & December
Year : 1961 .

العدد ١١ ، ١٢
مجلد ٢٤
الاشهر : تشرين الثاني وكانون الاول
السنة ١٩٦١

الجمهورية العراقيـــــــــة

وزارة المواصـــــــلات

مديرية الطيران المدني العامـــــــــة

مديرية الانواء الجويـــــــــة

شعبة المنـــاخ

بغداد

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MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية شهرية لشهر تشرين الثاني ١٩٦١ .

MONTHLY CLIMATOLOGICAL DATA FOR NOVEMBER 1961 .

مجلد ٢٤ ، عدد (١١) تشرين الثانـــــي ١٩٦١ .

VOLUME 24 , No. (11), NOVEMBER 1961 .

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NOVEMBER 1961 .

The weather in Iraq during a number of days in November 1961 was generally unstable and rainy. There was a succession of low pressure waves which came from the eastern Mediterranean Sea and moved across Iraq . In a few cases the associated frontal systems were well marked, and some of the consequent rain was accompanied by Thunderstorms.

The weather was generally settled from 12th to 18th November and again from 22nd to 23rd November.

The winds were rairly strong Southeasterlies during the passage of depressions and light to moderate Southwesterlies at other times.

تشرين الثاني ١٩٦١

كان الجو خلال معظم ايام الشهر غير مستقر و ممطرا على العموم حيث مرت على العراق عدة انخفاضات جوية قادمة من شرق البحر الابيض المتوسط و خلال حالات قليلة و من تأثير الجبهات الجوية هطل المطر غزيرا وكان مصحوبا بالزوابع الرعدية .

وفي خلال الايام من ١٢ ـ ١٨ منه وكذلك من ٢٢ الى ٢٣ منه كان الجو على العموم مستقرا و حسنا .

اما الرياح فكانت على الاغلب جنوبية شرقية شديدة السرعة خلال عبور الانخفاضات الجوية ولكنها كانت شمالية غربية خفيفة الى معتدلة في الايام الباقيـــــة .

NOVEMBER 1961 . تشرين الثاني ١٩٦١

TABLE - 1 . المعدل اليومي لدرجات الحرارة (سنتغـــــراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	22.4	16.6	17.3	16.7	25.5	25.2	26.6	25.5	22.7
2	24.0	17.7	19.2	16.9	25.7	25.6	25.8	24.8	23.2
3	20.0	16.2	16.1	16.4	25.0	23.0	26.3	24.4	19.6
4	20.6	15.4	17.1	16.7	20.9	21.6	24.0	23.5	20.3
5	22.0	15.7	17.0	15.0	24.2	23.7	25.8	25.3	20.6
6	21.2	15.7	18.4	14.9	24.5	22.9	24.5	25.1	19.4
7	20.2	15.0	17.6	14.8	23.3	21.6	22.4	22.8	18.5
8	19.3	14.3	16.6	15.5	21.6	19.7	19.4	20.5	18.9
9	18.6	13.6	15.9	16.5	21.1	20.5	20.5	20.4	19.0
10	19.2	14.2	16.4	14.4	20.8	18.9	19.7	20.0	18.1
11	17.2	17.0	16.8	13.2	19.5	17.9	18.1	17.8	17.4
12	17.1	14.9	15.3	12.9	20.2	18.4	17.8	19.7	16.9
13	16.2	13.4	15.0	14.1	18.6	16.9	16.0	16.4	15.3
14	16.7	13.5	16.1	15.0	19.2	15.9	17.5	18.1	16.4
15	16.9	13.5	18.8	14.9	18.1	17.0	17.6	18.2	17.1
16	17.3	13.4	18.0	14.8	18.9	17.4	17.8	18.5	15.9
17	17.3	13.2	17.7	14.9	18.7	17.6	18.3	19.0	16.5
18	17.5	13.6	17.0	14.3	19.1	17.2	17.2	19.4	15.9
19	17.0	14.5	16.8	14.1	18.9	16.8	20.1	20.6	16.4
20	18.9	14.9	16.2	13.6	20.9	19.7	21.7	21.3	18.0
21	19.0	14.6	16.5	15.4	21.5	19.5	21.4	21.9	19.8
22	14.8	9.8	11.4	8.9	18.4	15.9	18.0	21.4	14.0
23	8.4	5.5	6.6	4.9	11.8	10.5	12.3	14.1	7.7
24	6.1	4.9	5.6	3.9	9.2	7.0	8.3	10.4	5.6
25	7.7	5.1	6.6	5.4	10.8	8.0	9.1	9.9	7.2
26	10.0	4.6	7.6	7.7	12.0	10.0	10.1	10.7	8.7
27	9.8	5.5	8.8	7.4	11.9	10.5	10.7	11.0	8.5
28	8.6	6.1	9.0	6.8	12.9	10.5	11.1	11.6	8.0
29	8.6	7.3	9.5	7.8	12.5	10.1	10.8	11.6	8.4
30	8.8	6.4	9.7	9.2	11.9	10.3	10.9	10.8	8.6
MEANS	16.0	12.2	14.4	12.6	18.6	16.9	18.1	18.6	15.5
NORMAL	16.6	12.9	16.4	14.1	18.2	17.5	18.7	19.2	16.9
YEARS OF NORMAL	1937	1923	1935	1928	1940 to 1956	1939	1940	1937	1935

NOTE: T I M E - G.M.T.

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

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(2) تشرين الثاني ١٩٦١

TABLE - 2 .

المعدل اليومي لضغط الجوي على سطح البحر (ملليبارات)

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

DATE التاريخ	BAGHDAD بغداد	MOSUL موصل	KIRKUK كركوك	RUTBAH رطبة	HAI حي	DIWANIYA ديوانية	NASIRIYA ناصرية	BASRAH بصرة	HABBANIYA حبانية
1	1016.4	1020.3	1020.7	1016.4	1016.5	1015.9	1016.3	1017.7	1015.7
2	17.1	20.8	20.1	17.4	17.7	16.5	17.5	18.3	16.5
3	17.7	19.0	20.0	16.4	16.6	16.3	16.2	17.5	17.2
4	16.8	13.8	19.0	15.4	16.5	15.5	15.3	16.6	16.2
5	15.2	19.2	18.3	16.1	14.5	14.0	14.5	15.5	15.0
6	16.6	19.0	18.2	17.5	15.5	15.6	15.0	15.3	16.6
7	17.1	19.4	18.6	18.2	15.8	16.1	15.4	15.5	17.8
8	17.2	18.4	18.1	18.1	16.1	17.0	16.3	16.5	17.3
9	17.2	18.1	17.9	16.2	16.1	16.8	16.5	16.4	16.9
10	15.1	16.7	16.4	14.2	14.0	14.6	14.5	15.0	14.8
11	15.4	16.9	16.5	15.9	14.6	14.8	14.5	16.3	15.5
12	19.1	19.7	19.7	20.7	17.7	18.6	17.8	17.5	19.1
13	18.8	19.3	19.1	20.2	17.2	18.7	17.9	17.3	18.7
14	16.4	18.5	17.4	18.3	14.4	17.6	15.7	16.3	16.6
15	16.9	19.5	18.1	18.9	16.1	16.6	16.3	16.5	17.2
16	17.6	18.7	18.4	18.3	17.3	17.1	17.1	17.5	17.4
17	17.9	19.4	18.9	17.3	17.1	17.3	17.1	17.3	17.7
18	18.4	19.8	19.1	17.2	17.7	18.2	18.0	18.1	18.1
19	17.8	18.6	18.7	16.1	18.0	17.5	17.4	18.4	17.6
20	16.1	17.6	17.6	15.7	16.0	15.5	15.9	16.9	15.6
21	12.3	10.5	11.8	10.8	12.8	11.8	12.5	13.5	10.9
22	12.1	11.7	12.1	12.2	10.4	12.1	11.0	10.5	12.1
23	20.1	21.1	20.7	20.7	17.7	19.5	18.2	16.8	20.8
24	27.4	27.8	27.5	29.1	25.0	27.1	25.3	24.5	27.5
25	27.8	28.8	28.0	28.5	25.6	27.4	26.0	25.6	27.9
26	22.2	23.4	22.3	22.3	20.5	21.7	21.1	20.7	22.4
27	20.5	21.4	20.6	20.8	18.9	19.9	19.3	18.9	20.8
28	23.4	24.5	23.7	23.9	22.1	23.0	22.5	22.1	23.5
29	27.8	28.3	27.7	28.3	26.5	27.7	26.9	26.3	27.7
30	27.4	28.2	27.6	27.8	26.5	27.2	26.5	26.1	27.4
MEANS	1018.7	1019.9	1019.7	1019.0	1017.7	1018.2	1017.8	1017.9	1018.8
NORMAL	1017.8	1018.7	1017.6	1018.4	1017.2	1016.6	1016.8	1016.6	1017.7
1961:									
HIGHEST	1029.9	1030.9	1030.0	1031.5	1028.1	1029.8	1028.6	1028.2	1030.5
TIME	0600	0600	0600	0600	0600	0600	0600	0600	0600
DAY	25th	25	25	25	30	25	30	30	25th
LOWEST	1007.3	1007.6	1005.8	1008.5	1007.4	1006.6	1007.6	1005.3	1007.4
TIME	0000	0300	0000	2100	0300	0000	0000	0300	0000
DAY	22nd	22	22	21	22	22	22	22	22
RECORDS:									
HIGHEST	1029.9	1034.5	1031.1	1034.7	1028.2	1030.0	1028.6	1028.2	NOT AVAILABLE.
TIME	0600	0600	0600	0600	0600	1800	0600	0600	
DAY	25th	22	30	30	30	29	30	30	
YEAR	1961	1958	1953	1953	1953	1953	1961	1961	
LOWEST	1006.1	1004.3	1005.8	1004.0	1004.9	1004.5	1006.2	1004.9	
TIME	1200	1200	0000	1300	1200	1200	1200	1300	
DAY	7th	7	22	7	17	7	7	26th	
YEAR	1938	1944	1961	1938	1957	1957	1944	1939	

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(3) تشرين الثاني ١٩٦١

TABLE - 3 .

المعدل اليومي للرطوبة النسبية (٪)

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS:

التاريخ	بغداد	موصل	كركوك	رطبة	حي	الديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	73	84	77	84	60	52	58	73	66
2	68	79	68	87	61	56	65	77	62
3	88	89	86	86	68	67	58	80	89
4	81	90	82	81	75	71	63	75	78
5	69	85	76	87	60	58	59	75	75
6	75	83	74	85	64	64	54	63	80
7	77	82	76	87	70	68	63	62	81
8	72	74	74	82	63	70	77	78	72
9	68	77	71	71	60	62	71	79	67
10	66	80	70	81	64	64	73	80	72
11	80	74	69	84	77	79	84	90	76
12	78	74	79	85	68	77	78	87	76
13	75	82	80	74	61	68	69	71	70
14	78	81	69	71	60	65	60	71	74
15	71	74	45	58	70	70	61	71	66
16	65	73	56	63	56	61	61	72	69
17	64	83	58	66	63	62	57	65	68
18	65	74	60	61	54	61	56	65	69
19	59	71	59	65	57	64	57	77	68
20	66	81	71	70	65	71	67	70	69
21	65	87	72	56	56	62	71	71	55
22	56	67	61	49	53	55	53	72	49
23	57	76	59	51	48	52	45	62	56
24	57	64	66	48	50	48	45	68	52
25	62	73	64	50	48	50	43	58	51
26	67	85	65	41	54	54	47	62	65
27	69	79	62	43	56	56	49	71	62
28	65	72	62	47	49	51	45	65	64
29	70	82	61	54	54	57	45	60	67
30	71	75	58	60	56	58	50	69	62
MEANS	69	78	68	68	60	62	59	71	68
NORMAL	56	69	52	56	55	57	52	69	59
1961:									
HIGHEST	97	98	96	98	100	95	95	99	95
TIME	0300	0300	0900	0300	0300	0000	0600	0300	0000
DAY	11th	13	1	8	4	12	12	12	13th
LOWEST	30	27	22	14	34	29	25	30	29
TIME	0900	1200	0900	1200	09&12	1200	1200	1200	1200
DAY	26th	28	15	27	28	1	24	25	28

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TABLE - 4a .

(4) تشرين الثاني ١٩٦١

درجات الحرارة العظمى و الصغرى اليومية (مئوية)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	بغداد		موصل		كركوك		خانقين		رطبة	
	BAGHDAD		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	29.0	19.2	18.2	15.1	18.6	15.2	27.8	13.9	22.2	12.8
2	29.1	18.9	22.1	14.8	22.4	15.0	26.7	15.6	22.4	13.0
3	22.6	16.5	19.7	14.8	18.4	14.4	22.2	15.0	20,8	13.5
4	25.8	16.6	20.2	9.9	20.5	13.8	26.7	15.0	23.0	12.3
5	28.5	16.3	20.0	11.0	20.9	13.6	27.8	14.4	18.7	13.1
6	27.2	15.8	23.0	11.2	25.1	13.6	26.7	14.4	20.0	10.7
7	26.1	13.4	22.2	10.9	23.2	12.8	25.6	13.3	18.0	12.5
8	25.1	13.4	22.8	8.8	22.3	11.4	24.0	10.7	22.0	10.8
9	24.8	11.1	23.3	6.6	21.0	11.0	22.8	10.6	22.9	10.3
10	24.0	12.0	21.4	7.4	23.7	11.3	23.3	10.0	19.8	11.8
11	22.5	10.3	22.9	12.3	22.5	12.3	22.8	12.8	16.0	11.4
12	24.6	8.5	21.2	9.2	20.3	10.6	22.2	11.1	17.7	8.6
13	24.5	8.1	20.9	6.9	20.6	10.2	21.1	8.9	21.2	8.8
14	23.8	7.8	21.2	7.4	22.0	9.9	22.8	8.9	20.8	9.8
15	26.2	8.0	23.1	6.6	27.2	12.9	26.7	9.4	22.0	9.2
16	27.0	7.4	24.4	5.8	26.1	12.0	25.0	8.9	24.2	7.3
17	25.8	8.8	23.0	6.3	25.9	12.0	26.7	9.4	25.2	8.2
18	25.9	8.5	23.3	6.0	25.0	11.9	24.4	10.0	21.3	8.3
19	24.0	7.7	20.8	7.7	23.7	13.5	22.8	13.9	20.0	8.3
20	25.2	14.0	19.7	10.5	19.2	13.8	18.9	13.3	20.2	7.6
21	25.9	11.3	17.1	13.0	20.9	13.0	23.3	13.9	21.2	10.2
22	19.3	13.0	11.6	9.6	16.6	10.9	16.1	13.9	12.6	8.0
23	13.8	4.1	11.2	-0.3	10.7	4.0	12.2	5.5	9.8	0.4
24	13.6	0.2	10.9	-0.3	10.9	0.2	12.0	0.5	9.6	-1.4
25	16.2	-0.3	13.2	-0.1	12.3	0.8	14.0	-1.1	15.2	-1.5
26	17.4	0.2	14.9	-1.7	14.8	2.0	15.0	3.3	16.0	1.4
27	17.2	-1.5	14.7	-2.0	16.0	3.1	16.1	0.5	17.2	0.3
28	18.7	-0.2	15.5	-0.2	16.1	2.9	16.7	3.9	14.2	0.4
29	18.9	0.2	16.9	-1.1	19.8	3.1	17.0	1.1	15.8	0.5
30	19.4	-1.6	16.7	-0.6	16.7	4.0	17.2	1.6	18.7	1.4
MEANS	23.1	8.9	19.2	6.9	20.1	9.8	21.5	9.4	19.0	7.5
NORMAL	24.6	10.5	22.3	7.0	22.7	11.2	24.7	10.9	21.6	7.4
HIGHEST	34.8		35.0		32.8		35.0		35.0	
DAY	1st.		?		1st.		7th.		2nd.	
YEAR	1957		1932		1944		1940		1932	
LOWEST		-0.3		-4.4		-2.0		-1.1		-6.0
DAY		30th		24th		30th		25th		30th
YEAR		1953		1958		1953		1961		1953

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TABLE - 4b .

درجات الحرارة العظمى و الصغرى اليومية (سنتغراد)

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

	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	30.8	15.8	32.2	21.6	32.4	21.5	34.4	19.0	27.8	21.0
2	30.3	18.0	31.2	20.2	31.5	21.5	33.2	18.2	31.5	17.3
3	31.0	18.5	27.7	21.7	33.5	22.0	33.8	19.4	23.4	17.3
4	25.0	15.6	26.5	17.5	31.5	19.8	30.3	15.8	26.4	16.7
5	30.4	13.9	31.4	16.5	32.2	19.4	33.2	18.8	26.7	14.7
6	31.4	18.2	30.0	17.3	30.8	19.8	30.5	21.5	25.2	15.0
7	26.4	16.0	28.3	17.0	27.5	20.1	27.8	19.2	25.0	15.0
8	26.4	16.2	24.1	17.1	22.5	17.2	25.3	15.4	26.1	15.9
9	26.2	15.2	28.1	13.7	26.2	16.8	26.2	16.5	26.1	12.4
10	26.3	15.2	23.7	13.9	26.2	14.8	25.6	15.6	22.9	14.4
11	24.9	15.3	23.8	13.0	21.5	14.9	21.7	15.8	22.4	13.9
12	25.0	14.7	24.6	14.5	24.0	12.6	24.8	12.5	23.8	12.2
13	23.8	11.4	24.0	11.7	24.2	12.9	24.8	14.0	24.2	10.9
14	24.7	10.6	25.0	10.8	25.1	9.6	25.4	12.5	23.4	11.1
15	27.4	9.6	26.2	10.0	26.0	9.5	26.1	11.6	26.0	10.3
16	25.7	9.3	25.7	8.8	26.0	10.2	27.0	11.7	25.6	9.6
17	26.7	9.7	25.4	10.2	26.2	11.2	27.2	12.6	26.1	9.4
18	26.4	10.0	25.1	9.3	25.8	10.2	27.9	12.4	24.7	9.3
19	24.8	8.4	22.8	8.4	26.4	12.0	28.3	13.5	24.4	8.9
20	25.8	15.8	27.6	14.0	28.3	18.5	27.0	17.2	25.2	13.5
21	27.5	12.0	28.1	9.7	28.2	14.0	30.1	14.4	26.7	13.5
22	22.3	17.2	21.3	12.6	22.3	16.5	27.0	18.3	17.1	13.5
23	16.4	6.7	16.0	5.8	16.6	10.2	18.6	12.7	13.4	4.1
24	13.9	3.4	13.9	2.0	14.4	3.0	15.0	7.9	12.8	0.6
25	16.4	1.0	17.0	1.2	17.0	1.2	17.5	3.8	15.6	0.6
26	17.4	3.4	18.4	3.0	18.7	3.5	18.5	4.4	17.4	2.2
27	18.5	2.0	19.5	1.6	18.8	3.0	19.1	5.1	18.0	1.3
28	19.0	2.4	20.1	1.6	19.6	3.3	20.2	3.2	17.2	1.1
29	18.4	2.6	19.0	1.4	18.8	3.2	20.5	4.4	17.5	1.8
30	18.4	1.6	18.5	2.7	19.3	4.2	20.2	3.7	18.2	1.1
MEANS	24.3	11.0	24.2	10.9	24.7	12.6	25.6	13.0	22.7	10.3
NORMAL	26.5	12.0	25.8	11.7	26.6	11.7	26.9	13.2	24.6	10.1
HIGHEST	37.2		36.1		36.7		36.6		35.0	
DAY	3rd.		4th.		1&2nd		10th		1st.	
YEAR	1949		1949		1942		1939		1944	
LOWEST		-0.6		-2.8		-1.6		1.4		-3.3
DAY		24th		16th		24th		27th		30th
YEAR		1958		1948		1958		1958		1953

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table - 5. المعدل الشهري لدرجات الحرارة للبصلة الجافة (سنتغراد)

MONTHLY MEAN DRY BULB TEMPERATURES (C°)

	T I M E - G , M . T .								
STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.2	10.9	14.9	20.9	22.5	18.0	15.0	13.0	15.9
MOSUL	8.8	8.0	11.0	16.6	18.4	14.2	11.0	9.3	12.2
KIRKUK	11.6	11.0	14.6	18.2	18.9	15.4	13.2	12.0	14.4
KHANAQIN	,,,,	11.1	14.2	19.8	21.0	17.2	14.0	,,,,	16.2
RUTBAH	9.0	8.3	10.8	16.4	18.5	15.4	12.0	10.1	12.6
HAI	,,,,	11.9	17.4	23.0	23.1	19.5	16.5	,,,,	18.6
DIWANIYA	12.9	11.8	16.2	22.6	23.6	19.2	16.1	14.4	17.6
NASIRIYA	14.4	13.3	16.9	22.8	24.0	20.1	17.3	15.6	18.1
BASRAH	14.6	13.8	18.2	23.7	23.8	20.2	17.6	15.6	18.4
HABBANIYA	11.9	10.8	14.5	20.3	21.9	17.5	14.3	12.6	15.6

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (سنتغراد)

MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	10.6	8.7	12.4	15.6	16.2	14.2	12.2	11.0	12.6
MOSUL	8.1	7.4	9.8	12.2	12.3	10.9	9.8	8.5	9.9
KIRKUK	9.6	9.2	11.4	13.1	13.1	12.0	10.8	9.9	11.1
KHANAQIN	,,,,	9.3	11.2	13.7	14.3	13.1	11.3	,,,,	12.1
RUTBAH	7.7	7.2	8.7	11.7	12.1	11.4	9.8	8.5	9.6
HAI	,,,,	10.1	13.9	16.3	15.7	14.3	12.5	,,,,	13.8
DIWANIYA	9.9	9.8	13.0	16.2	16.7	14.6	12.4	11.1	12.9
NASIRIYA	12.0	11.1	13.4	15.7	15.9	14.8	13.4	12.4	13.6
BASRAH	13.2	12.3	15.4	18.2	18.1	16.2	15.3	13.9	15.3
HABBANIYA	10.2	9.4	11.8	14.6	15.1	13.5	11.7	10.5	12.1

TABLE - 7 . المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	18.7	18.7	19.9	19.3	17.8	18.1	18.7	18.8	1018.8
MOSUL	20.2	20.5	21.4	20.3	18.9	19.2	20.1	20.5	1020.1
KIRKUK	19.6	20.2	20.8	19.7	18.4	19.2	20.2	20.1	1019.8
KHANAQIN	,,,,	20.0	20.5	18.3	17.0	18.0	19.1	,,,,	1018.8
RUTBAH	18.4	19.1	20.0	19.2	18.0	18.5	19.3	19.0	1018.9
HAI	,,,,	17.6	18.9	18.1	16.6	16.9	17.7	,,,,	1017.6
DIWANIYA	17.8	18.4	19.5	18.6	17.3	17.4	18.1	18.2	1018.2
NASIRIYA	17.3	18.0	19.3	18.2	16.8	17.2	17.8	17.7	1017.8
BASRAH	17.4	18.0	19.4	18.5	17.0	17.3	17.9	17.9	1017.9
HABBANIYA	18.2	18.7	19.9	19.0	17.6	18.1	18.6	18.6	1018.6

TABLE-8. المعدل الشهري للرطوبة النسبية (٪)

MONTHLY MEAN RELATIVE HUMIDITY (%)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	84	86	73	55	48	64	71	77	70
MOSUL	92	93	86	61	49	67	86	91	78
KIRKUK	77	80	67	54	49	65	73	77	68
KHANAQIN	..	80	69	51	46	61	74	..	64
RUTBAH	81	82	73	53	43	58	72	78	68
HAI	..	81	68	48	43	57	63	..	60
DIWANIYA	74	77	67	48	43	54	62	68	62
NASIRIYA	72	74	64	44	40	53	61	66	59
BASRAH	85	83	73	56	51	65	77	81	71
HABBANIYA	85	82	71	51	44	64	73	77	68

TABLE - 9 . المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs. ,)

STATION	T I M E - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	12.8	11.9	13.0	14.2	13.9	13.9	12.9	12.4	13.1
MOSUL	10.9	10.5	11.9	11.8	10.5	11.3	11.8	11.1	11.2
KIRKUK	10.7	10.7	11.4	11.4	10.8	11.7	11.4	11.0	11.1
KHANAQIN	,,,	10.8	11.4	11.8	11.6	12.3	12.3	,,,	11.5
RUTBAH	10.1	9.8	10.1	10.4	9.5	10.8	10.8	10.4	10.2
HAI	,,,	12.1	14.1	14.4	13.1	13.4	12.4	,,,	13.3
DIWANIYA	11.0	11.6	13.3	13.9	12.7	12.5	12.8	11.5	12.4
NASIRIYA	13.1	12.6	13.5	12.9	12.2	13.1	12.9	12.7	12.9
BASRAH	14.9	14.1	16.1	17.9	16.2	15.9	16.3	15.2	15.8
HABBANIYA	11.9	11.5	12.5	12.7	12.3	13.0	12.5	11.9	12.3

TABLE - 10 . المعدل الشهري لدرجات الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C°)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	8.9	9.5	10.0	11.1	10.8	10.8	9.5	9.0	10.0
MOSUL	7.4	6.9	8.8	8.6	6.8	7.9	8.7	7.8	7.9
KIRKUK	7.4	7.2	8.1	8.1	7.1	8.4	8.2	7.7	7.8
KHANAQIN	,,,	7.1	8.5	8.7	8.3	9.2	9.3	,,,	8.5
RUTBAH	5.9	5.5	5.9	5.9	4.5	6.7	6.9	6.3	6.0
HAI	,,,	8.5	11.2	11.7	12.1	10.5	9.2	,,,	10.5
DIWANIYA	8.4	7.9	9.9	10.8	9.5	9.3	8.7	7.8	9.0
NASIRIYA	9.4	8.7	9.9	9.5	8.8	10.0	9.5	9.1	9.4
BASRAH	11.9	10.9	13.1	14.3	13.5	13.6	13.4	12.4	12.9
HABBANIYA	8.4	7.8	8.9	9.5	8.9	9.6	9.1	8.2	8.8

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	1.2	1.2	1.0	1.0	1.0	0.5	0.3	0.3	0.8
MOSUL	2.8	2.6	2.3	2.2	2.3	2.3	2.5	2.3	2.4
KIRKUK	1.6	2.1	1.9	1.8	1.6	1.4	0.9	1.1	1.6
KHANAQIN	,,,	2.8	2.2	1.9	1.6	2.2	2.0	,,,	2.1
RUTBAH	2.2	1.9	1.6	2.0	2.1	1.2	1.2	1.4	1.7
HAI	,,,	1.1	0.6	1.2	1.0	0.5	0.7	,,,	0.9
DIWANIYA	0.7	1.3	1.1	0.5	1.2	0.8	0.8	0.7	0.9
NASIRIYA	1.1	1.5	1.5	1.4	1.6	1.1	0.8	0.4	1.2
BASRAH	0.3	1.2	1.0	1.3	1.6	0.8	0.4	0.2	0.9
HABBANIYA	0.7	0.8	0.6	0.4	0.7	0.5	0.4	0.5	0.6

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

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATION	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	2.6	2.9	3.7	3.8	3.7	3.1	1.9	1.8	2.9
MOSUL	3.3	3.2	3.8	3.9	4.0	4.0	3.1	3.0	3.5
KIRKUK	2.3	3.0	2.8	2.8	3.0	2.1	1.8	1.8	2.5
KHANAQIN	,,,	3.6	3.5	3.4	3.0	3.8	2.4	,,,	3.3
RUTBAH	3.3	3.0	3.3	3.9	4.2	3.1	3.0	2.8	3.3
HAI	,,,	3.5	3.0	3.7	3.5	3.5	3.1	,,,	3.4
DIWANIYA	2.0	3.2	2.8	2.6	3.3	3.1	1.8	1.4	2.5
NASIRIYA	2.1	2.9	3.5	3.0	3.1	3.0	1.4	1.1	2.5
BASRAH	1.8	2.8	3.3	3.4	3.2	2.6	1.8	1.9	2.6
HABBANIYA	2.9	3.3	3.2	3.0	3.4	3.2	1.9	2.4	2.9

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TABLE 13-a .

عدد تكرار رصدات الرياح السطحية :

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	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	
بغداد BAGHDAD	0000	6	1	3	3	1	1	1	10	4	23	3	0	0	5
	0300	5	3	4	3	1	0	0	10	4	23	3	0	0	5
	0600	1	3	6	2	2	1	1	13	1	24	5	0	0	7
	0900	3	2	4	5	3	0	1	12	0	17	12	1	0	10
	1200	4	0	5	3	2	2	3	11	0	20	10	0	0	9
	1500	2	5	2	4	1	0	3	12	1	28	1	0	0	5
	1800	3	3	4	4	1	0	1	10	4	23	3	0	0	6
	2100	3	5	3	2	2	0	1	9	5	21	4	0	0	5
	TOTAL	27	22	31	26	13	4	11	87	19	179	41	1	0	7
موصل MOSUL	0000	5	1	2	2	2	1	7	2	8	18	4	0	0	4
	0300	2	2	2	0	3	0	10	4	7	17	6	0	0	5
	0600	3	0	4	3	2	1	9	6	2	21	6	1	0	7
	0900	3	1	5	5	2	1	10	3	0	21	8	1	0	9
	1200	5	0	9	2	2	1	7	4	0	19	10	1	0	9
	1500	1	0	8	3	2	0	15	1	0	24	6	0	0	6
	1800	3	3	2	4	3	2	11	2	0	25	4	1	0	6
	2100	3	2	3	3	0	0	8	2	9	18	3	0	0	4
	TOTAL	25	9	35	22	16	6	77	24	26	163	47	4	0	6
كركوك KIRKUK	0000	1	11	0	3	0	0	2	0	13	14	3	0	0	4
	0300	0	4	1	0	0	1	2	1	21	4	3	2	0	4
	0600	1	3	3	2	0	1	0	0	20	9	1	0	0	2
	0900	1	1	2	3	3	2	3	0	15	12	3	0	0	4
	1200	0	2	2	2	4	1	12	0	7	22	0	1	0	5
	1500	0	5	0	1	1	0	5	1	17	10	3	0	0	3
	1800	1	5	2	2	0	0	1	0	19	10	1	0	0	2
	2100	1	5	3	2	0	0	0	0	19	9	1	1	0	2
	TOTAL	5	36	13	15	8	5	25	2	131	90	15	4	0	3
خانقين KHANAQIN	0300	0	0	10	1	7	0	0	1	11	18	1	0	0	3
	0600	0	0	15	1	2	0	1	0	11	18	0	1	0	4
	0900	2	0	1	0	11	0	8	1	7	22	1	0	0	4
	1200	3	0	4	0	4	0	8	4	7	23	0	0	0	4
	1500	1	1	4	0	5	0	6	1	12	18	0	0	0	3
	1800	0	0	10	2	2	0	1	0	15	15	0	0	0	2
	TOTAL	6	1	44	4	31	0	24	7	63	114	2	1	0	3
رطبة RUTBAH	0000	0	1	4	1	2	10	4	2	6	20	4	0	0	5
	0300	1	2	2	0	3	14	2	2	4	24	1	0	1	6
	0600	3	0	5	0	3	13	2	1	3	23	4	0	0	5
	0900	2	3	4	1	3	7	6	3	1	25	3	1	0	6
	1200	4	4	3	0	1	3	6	5	4	23	3	0	0	6
	1500	7	1	7	1	1	2	2	5	4	23	3	0	0	5
	1800	5	2	5	0	3	1	3	3	8	20	2	0	0	4
	2100	3	2	3	0	7	4	4	0	7	23	0	0	0	4
	TOTAL	25	15	33	3	23	54	29	21	37	181	20	1	1	5

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TABLE 13-b . عدد تكرار رصدات الرياح السطحية :

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATION	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	
حي HAI	0300	1	1	3	3	0	1	6	8	7	18	5	0	0	6
	0600	0	2	2	5	5	0	1	3	8	12	10	0	0	9
	0900	1	2	5	5	0	0	7	6	4	11	9	6	0	12
	1200	0	1	5	5	1	0	5	9	4	12	11	3	0	11
	1500	0	1	6	1	0	0	2	12	8	17	5	0	0	6
	1800	1	1	6	1	2	0	4	9	6	13	11	0	0	8
	TOTAL	3	8	27	20	8	1	25	47	37	83	51	9	0	9
ديوانية DIWANIYA	0000	4	2	5	3	1	1	6	2	6	21	3	0	0	5
	0300	3	0	7	1	0	0	12	2	5	23	2	0	0	6
	0600	4	0	7	2	0	2	7	5	3	20	7	0	0	7
	0900	8	0	4	2	0	0	7	0	9	11	10	0	0	8
	1200	9	0	5	1	4	1	3	3	4	18	8	0	0	8
	1500	6	0	6	0	0	0	9	1	8	19	3	0	0	5
	1800	10	2	5	1	1	1	7	0	3	20	7	0	0	7
	2100	6	1	8	1	2	1	7	1	3	23	4	0	0	7
	TOTAL	50	5	47	11	8	6	58	14	41	155	44	0	0	7
ناصرية NASIRIYA	0000	3	0	4	6	3	0	5	6	3	24	3	0	0	6
	0300	2	0	3	7	2	1	6	3	6	21	3	0	0	5
	0600	3	0	3	5	2	1	7	6	3	24	3	0	0	6
	0900	2	0	1	9	2	2	6	8	0	24	6	0	0	7
	1200	2	1	2	7	3	1	3	9	2	22	6	0	0	7
	1500	2	0	5	5	1	0	4	8	5	23	2	0	0	5
	1800	0	1	2	8	0	0	4	9	6	22	2	0	0	5
	2100	3	0	2	6	3	0	7	5	4	24	2	0	0	5
	TOTAL	17	2	22	53	16	5	42	54	29	184	27	0	0	6
بصرة BASRAH	0000	2	0	5	2	1	0	3	6	11	17	2	0	0	3
	0300	1	0	7	1	1	0	5	6	9	18	3	0	0	3
	0600	1	0	2	2	1	0	6	8	10	17	3	0	0	4
	0900	3	0	0	4	5	2	1	12	3	20	6	1	0	7
	1200	2	0	1	5	2	3	1	12	4	19	7	0	0	7
	1500	2	0	0	5	2	0	2	10	9	18	3	0	0	4
	1800	3	0	3	5	2	0	2	9	6	23	1	0	0	3
	2100	2	0	5	2	1	0	2	8	10	18	2	0	0	3
	TOTAL	16	0	23	26	15	5	22	71	62	150	27	1	0	4
حبانية HABBANIYA	0000	2	3	2	1	1	0	5	2	14	16	0	0	0	3
	0300	1	1	0	2	0	0	11	4	11	18	1	0	0	4
	0600	1	2	3	0	1	0	10	6	7	20	2	1	0	5
	0900	2	2	1	2	3	0	9	6	5	18	7	0	0	10
	1200	2	3	2	2	2	0	7	6	6	23	1	0	0	5
	1500	4	2	1	1	0	0	3	4	15	15	0	0	0	2
	1800	4	2	2	1	0	0	2	1	18	12	0	0	0	2
	2100	2	2	4	0	1	1	2	2	16	11	3	0	0	3
	TOTAL	18	17	15	9	8	1	49	31	92	133	14	1	0	4

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TABLE 14-a . الهطول اليومي (ملليمترات)

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

DATE التاريخ	BAGHDAD بغداد	MOSUL موصل	KIRKUK كركوك	KHANAQIN خانقين	RUTBAH رطبة	HAI حي	DIWANIYA ديوانية	NASIRIYA ناصرية	BASRAH بصرة	HABBANIYA حبانية
1	8.0	3.9	12.8	24.0		tr.				tr.
2	5.9	3.6	18.6	16.3	3.0				tr.	2.0
3	2.3	2.1	21.5	36.0	9.2	9.9	7.0			
4		29.5	12.7	11.0		0.1		0.6		
5	1.6	0.3	1.0		2.0	0.2	tr.	16.0	tr.	14.3
6				16.3	tr.				tr.	
7	tr.				tr.		tr.	tr.	tr.	
8								1.3	1.4	
9									11.6	
10		tr.		1.6	2.7			4.2	1.1	0.5
11		tr.			17.6		38.9	0.2	1.7	
12 13 14 15 16 17 18										
19		2.1	tr.	0.3	tr.		1.1			
20		1.2	0.8	14.9				tr.	0.2	
21		12.8	tr.	0.7						
22			tr.	4.9					1.6	
23								0.3	0.1	
24 25 26 27 28 29 30										
TOTAL	17.8	55.5	67.4	126.0	34.5	10.2	47.0	22.6	17.7	16.8
NORMAL	19.0	45.6	36.3	32.3	15.1	14.6	11.9	21.8	29.3	17.0
MAX. MIN ALL IN 24 HOURS	48.9	86.3	44.0	51.5	25.2	55.0	38.9	47.2	61.4	36.2
DAY	17th	27th	3rd	17th	24th	29th	11th	26th	15th	18th
YEAR	1957	1929	1945	1957	1937	1957	1961	1950	1940	1960

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TABLE 14-b .

الهطول اليومي (ملليمترات)

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

التاريخ	راوندوز	تل عوينات	تلعفر	قيارة	حويجة	بكرجو	حلبجة	اختيار	جوارتا
DATE	RAWA-NDUZ	TEL AWAINAT	TELAA-FAR	QAYARA	HAWI-JAH	BAKRAJO	HALAB-JA	IFTI-KHAR	CHUA-RTA
1	22.0		1.0	17.0	25.3	22.0	23.0	19.3	20.0
2			5.0	3.0	30.2	20.0	20.0	6.1	28.0
3	24.0		0.5		5.0	28.0	15.0	23.1	25.0
4	35.0		34.5	23.5	4.4	1.0	4.0		
5	14.0	10.2				31.0	29.5		34.0
6							1.5		
7									
8									
9									
10									
11		7.6							
12									
13									
14									
15									
16									
17									
18						8.0			
19						2.0	6.0		
20	24.0		1.0			14.0	7.5		15.5
21	90.0			6.0		9.0	8.0		9.8
22		10.2	2.3				1.5		
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL	209.0	28.0	44.3	49.5	64.9	135.0	117.0	48.5	132.3

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TABLE 14-c .

الهطول اليومي (ملميترات)

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

التاريخ	قلعة دزة	دهوك	بنكرد	نجف	بيجي	طوز	سامراء	المنصور	جلولاء
DATE	QALAT DIZA	DUHOK	BIN-KARD	NAJAF	BAIJI	TUZ	SAMI-RRAA	MANSOUR	JALAW-LAA
1		1.5	10.0		36.0	30.5	40.0		
2	21.0	8.0	20.0	3.0		8.1		58.4	25.4
3	22.5	3.3	14.0		40.0	19.8	22.0	35.6	30.5
4	17.0	30.7	1.5	15.0	5.2	15.2		2.5	2.3
5	3.5		13.5				4.3		
6	10.5				6.7	2.5		17.8	10.2
7									
8									
9									
10					1.0				
11				1.0					
12									
13									
14									
15									
16									
17									
18									
19		4.4					5.5		
20		22.5	9.0					11.4	15.2
21	20.5	16.4	8.8						
22	10.0								
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL	105.0	86.8	76.9	19.0	88.9	76.1	71.8	125.7	83.6

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TABLE 14-d . الهطول اليومي (ملليمترات)

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

التاريخ	بعقوبة	بدرة	هيت	نهر	مندلي	كربلاء	كوت	علي الغربي	نخيب
DATE	BAKO-BA	BADRA	HIT	ZUBAIR	MAN-DILY	KAR-BALAA	KUT	ALI-ALGHARBI	NUKH-AIB
1	45.0				11.0	0.6			
2	16.0		5.8		20.5	1.3			
3	7.3	30.0	2.8		7.0	1.9	3.2		
4								1.5	
5	13.5	3.0		3.0		3.2		16.5	
6									
7									
8									
9									
10								8.0	
11									
12									
13									
14									
15									
16									
17									
18									
19	0.2						1.4	6.0	
20	0.5	2.5							
21				4.0					
22									
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL	82.5	35.5	8.6	7.0	38.5	7.0	4.6	32.0	0.0

NOVEMBER 1961 .

تشرين الثاني ١٩٦١

TABLE 14-e .

الهطول اليومي (ملليمترات)

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

التاريخ	سلمان	قلعة صالح	قرنة	سماوة	بدعة	اور	معقل	فاو	كفري
DATE	SAL-MAN	QALAT SALIH	QURNA	SAMAWA	BADAA	UR	MAQIL	FAO	KOUFRI
1									5.5
2									21.5
3									12.0
4	2.5								8.0
5			2.9		22.0				10.0
6			2.1						
7	2.0								
8	4.5		0.8			3.0		2.0	
9					2.0		10.2		
10	29.5		0.3					4.4	
11	14.0		0.7				3.0	0.5	
12 13 14 15 16 17 18									
19		4.5	2.8						6.0
20									2.0
21			1.1						25.0
22			tr.						
23 24 25									
26				10.0					
27 28 29 30									
TOTAL	52.5	4.5	10.7	10.0	24.0	3.0	13.2	6.9	90.0

NOVEMBER 1961 .

TABLE 14-f .

تشرين الثاني ١٩٦١

الهطول اليومي (ملليمترات)

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

التاريخ	دوكان	فتحة	ك ٢	كويسنجق	قادر كرم	شقلاوة	المعظم	طقطق	طوسان
DATE	DUKAN	FATHA	K2	KCISI-NJANQ	QADIR KARAM	SHAQ-LAWA	AIEI-THAIM	TAQ-TAQ	TUSAN
1	19.5	15.4	38.0	tr.		24.0	8.3	23.0	1.0
2	18.5	48.0	33.0	16.0		18.0	19.6	18.0	2.0
3	35.0	4.2		19.0		6.5	5.5	10.0	2.0
4	7.0	tr.		17.0		54.6	0.5	13.0	35.0
5	12.5	8.2		21.0	15.3	5.4	6.5	5.0	
6	tr.			11.0					
7				2.0					
8									
9									
10									10.5
11									
12									
13									
14									
15									
16									
17									
18					13.0				
19	1.0			3.0			3.6	tr.	7.5
20	5.0			4.0	17.2	6.2	0.6	8.0	15.5
21				21.0	1.5	20.6		3.5	11.0
22				13.0		71.6			
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL	98.5	75.8	71.0	127.0	47.0	206.9	44.6	80.5	84.5

NOVEMBER 1961 . تشرين الثاني ١٩٦١

TABLE 14-g . الهطول اليومي (ملليمترات)

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

DATE / التاريخ	QARA DAGH / قره داغ	AIN-SIFNI / عين سفني	SALAN ALDDIN / صلاح الدين	SAIDIYA / سعدية	SHABICHA / شبكة	ALDU-WAIA / الدوايا	DIANA / ديانا	IFR-AZ / افراز	RUN-AIL / رميل
1			46.2	16.0			10.7	23.5	
2	22.8		74.1	11.0			26.1		
3	38.7		80.3	5.0			6.6	11.7	
4	18.8		65.3			3.0	37.6	3.0	
5	1.8		6.3				11.2	30.4	
6	45.9				3.0			2.5	
7									
8						2.0			
9 10 11									
12					1.0				
13 14 15 16									
17			tr.						
18			10.0						
19	1.9		20.3			2.0	3.5		
20	6.3		14.2				11.6		
21	34.4			6.0			77.7	2.7	
22	19.0	26.0						17.6	
23 24 25 26									
27									15.2
28									7.0
29									
30									0.3
TOTAL	189.6	26.0	316.7	38.0	4.0	7.0	185.0	91.4	22.5

TABLE - 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخيـــة

No. OF DAYS 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
BAGHDAD	4	0	0	4	0	0	10	2	7
MOSUL	8	0	0	3	1	1	12	8	8
KIRKUK	6	0	0	6	0	1	14	4	7
KHANAQIN	10	0	0	4	0	0	12	6	0
RUTBAH	5	0	0	4	3	0	9	2	0
HAI	2	0	0	2	0	0	10	4	0
DIWANIYA	3	0	0	4	0	0	11	1	0
NASIRIYA	6	0	0	2	1	2	14	2	0
BASRAH	6	0	0	1	2	0	11	1	0
HABBANIYA	3	0	1	4	0	0	10	1	4

TABLE - 16.

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
BAGHDAD	196.6	9.5	9&17	0
MOSUL	201.9	9.5	8th	0
BASRAH	197.1	10.2	14th	0
HABBANIYA	225.8	10.0	12th	0

TABLE - 17.

MONTHLY MEAN TEMPERATURES OF : (الحشيش و التربة) المعدل الشهري لحرارة :

STATIONS	GRASS MINIMUM TEMPERATURES C°	EARTH TEMPERATURES C° 0.3 M	EARTH TEMPERATURES C° 1.2 M	Meters.
BAGHDAD	6.1	19.1	25.2	
MOSUL	,,,	16.9	22.7	
KIRKUK	6.6	17.3	21.9	
HAI	9.0	,,,,	,,,,	
NASIRIYA	11.4	18.0	24.3	
BASRAH	8.6	,,,,	,,,,	
HABBANIYA	8.5	21.2	25.8	

TABLE 18-a. Month: November 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD AIRPORT

DATE	1000-mbs.,					850-mbs.,					700-mbs.,					600-mbs.,					500-mbs.,				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1	013	24	12	15	24	133	15	08	15	29	314	01	52	14	15	436	57	61	15	18	575	67	71	17	21
2	014	20	14			155	17	06			316	02	52			438	59	63			572	66	76		
3	015	23	15			155	16	07			316	02	51			439	56	58			579	64	68		
4																									
5	014	21	15			153	16	12			313	03	68			439	56	65			576	68	76		
6	013	18	14			151	12	10			311	01	51			433	57	60			573	66	68		
7	015	19	13	32	05	153	14	02	35	04	312	01	60	26	14	435	57	74	27	21	575	66	83	28	24
8	014	18	13	31	03	154	14	08	30	04	313	02	52	27	13	436	57	62	27	06	576	65	73	25	14
9	015	18	12	03	05	152	11	04	03	05	310	51	63	00	00	432	58	74	02	58	572	66	82	07	58
10	013	17	10	00	00	151	11	03	00	00	310	01	65	24	09	432	58	75	22	13	571	65	76	23	11
11	012	17	13	34	02	150	10	03	35	04	307	52	57	11	07	428	59	75	20	04	567	67	78	30	07
12	015	15	12	01	10	152	09	08	32	09	310	52	52	36	05	431	58	71	35	05	571	67	80	35	11
13	016	16	14	26	03	153	08	06	20	03	310	01	60	00	00	433	56	65	22	08	573	56	75	23	12
14	014	17	09	03	04	152	11	01	03	15	311	03	67	32	19	433	56	75	31	17	573	65	82	31	27
15	014	15	05	36	10	152	12	51	01	05	311	01	60	31	06	434	55	69	34	07	574	64	75	31	14
16	015	15	08	00	00	153	14	52	04	03	313	03	63	03	10	436	57	71	04	13	576	65	80	34	25
17	015	18	09	17	05	152	10	01	09	16	311	52	61	03	14	432	58	71	27	12	571	68	80	27	09
18	015	14	08	07	02	152	09	02	11	12	310	51	58	40	17	431	59	69	70	12	570	67	77	30	22
19	015	20	06			183	08	01			310	52	68			431	59	75			569	69	82		
20	013	19	09	10	09	151	10	54	10	10	308	54	64	07	14	427	64	73	08	16					
21	013	19	14	15	12	151	11	01	18	11	310	01	62	24	12	433	56	68	25	13	573	66	77	26	13
22	006	18	13	18	22	145	13	04	20	20	304	50	61	21	33	425	57	64	22	48	565	66	82	23	53
23	014	09	01			147	01	59			300	56	72			420	61	80			558	70	88		
24	019	05	53	34	10	151	01	67	32	15	303	61	76	27	18	420	68	77	24	27	553	79	85	23	38
25	023	09	59	33	16	156	04	65	32	16	311	55	73	30	12	430	62	85	30	20	567	72	93	31	35
26	019	11	52	31	15	154	07	59	32	22	311	51	62	30	19	432	60	76	29	25	571	69	84	29	32
27	017	08	03	02	12	151	06	59	36	07	308	52	69	20	07	428	60	77	36	03	566	71	81	34	21
28	017	08	03	30	08	152	05	60	27	06	308	54	67	27	06	428	62	74	29	10	565	72	78	23	08
29	021	09	02	32	06	154	06	56	30	06	310	53	72	00	00	430	62	75	31	12	566	73	88	31	13
30	022	10	08	32	10	157	06	57	28	10	314	52	68	28	07	436	58	76	33	13	574	68	83	28	14

NOTE: ALL HEIGHTS ARE IN DECAMETERS IN ALL LEVELS. Temperature & Dew point below freezing 50 is added.

Month: November 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (0000 G.M.T.) AT BAGHDAD AIRPORT

DATE	400-mbs., HHH	TT	Td	dd	ff	300-mbs., HHH	TT	Td	dd	ff	200-mbs., HHH	TT	Td	dd	ff	150-mbs., HHH	TT	Td	dd	ff	100-mbs., HHH	TT	Td	dd	ff
1	739	78	82	18	25	939	96	98	16	42	199	11				398	12								
2	742	78	22			944	06	04			200	11	17			380	09	17			629	13	22		
3	745	76	79			943	94	98			211	11	15			384	10	14			642	11			
4																									
5	739	80	88			937	95	97			201	07	11			384	08	16			636	14			
6	737	78	81			937	95	00			198	08	11			385	09	15							
7	739	77	82	26	24	938	98	05	25	48															
8	740	78	85	24	22	940	94	01	25	44	201	11	16	24	42										
9	736	78	93			935	94	05			196	13				372	13				623	11			
10	735	79	87	24	18	933	96	99	23	30	192	10	14			379	12	16							
11	734	79	89	28	22	929	96	04	26	40	187	11	18	25	44	367	07	15	24	24	622	09	19	25	23
12	734	79	94	35	20	933	95	08	34	26	194	06	17	29	40	375	12	21			625	13	21		
13	737	78	84	25	25	937	94	97	25	10	197														
14	739	76	90	12	32	940	92	03	32	56	200	13				376	15				625	13			
15	740	77	89	30	19	940	92	01	31	15	202	11	19			377	16	25			612	16	25		
16	744	76	91	29	14	942	92	03	31	28	205	10	20	28	46	380	16	22			625	16	26		
17	741	79	95	26	13	934	94	99	29	16															
18	734	79	85	05	25	933	95	99	05	28	195	07	12			376	09	13			625	15			
19	730	84	92			926	97	05			189	04	16			372	07	16			628	08	18		
20																									
21	737	77	89	26	16	936	91	01	26	22	201	10													
22	729	76	80	25	68	930	92	95	25	34	195	04	10	27	37	375	15				624	12			
23	720	80	91			919	93	99																	
24	711	81	94			912	91	05			181	08	14			366	06	16			620	13			
25	728	83	92	31	40	925	96	13	29	61	186	07	24			367	09	26			620	12	30		
26	732	81	94	27	51	934	95	03	26	58	192	06	12												
27	727	66	87	32	20	923	98	02	30	27	183	05	10	29	59	366	06	21	29	64	619	14	19		
28	724	86	92	23	15	918	98	05	29	29	179	04	12	27	26	362	07	14	26	75	615	13	99		
29	726	84	00	33	23	925	95	11	36	44	184	07	20			365	07	21			617	08			
30	737	82	93	32	19	934	96	03	30	17	192	14	20			369	12				619	14			

TABLE 18-c .

Month: November 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	1000-mbs.,					850-mbs.,					700-mbs.,					600-mbs.,					500-mbs.,				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1																									
2	015	25	19	12	07	155	16	07	16	21	316	03	53	20	30	439	57	60	24	28	577	67	71	25	28
3	014	20	17			153	15	10			314	04	51			437	56	61			573	65	69		
4	014	23	15	13	13	153	13	09	18	08	314	02	51	20	17	436	57	72	25	20	576	66	81	23	22
5	013	27		13	05	153	14	07	17	07	313	01	53	20	17	435	58	72	22	24	574	67	82	23	30
6	015	25	15	29	08	155	13	07	30	02	314	01	53	23	35	436	58	73	27	45	575	66	82	30	15
7	015	24	16	35	10	153	13	06	31	13	313	00	59	32	17	435	55	76	24	10	576	66	83	24	14
8	014	23	11	36	12	153	11	02	30	05	312	01	54	27	08	435	56	64	29	08	575	66	76	29	12
9	014	23	12	03	04	153	10	07	32	10	311	02	58	30	07	434	52	72	30	09	574	66	81	29	11
10	013	22	09	09	07	151	10	52	11	06	308	51	59			430	58	76			569	67	84		
11	013	21	12	16	06	149	09	54	17	04	307	52	57	06	06	428	58	70	11	66	567	67	75	13	02
12	016	27	11	36	11	153	08	02	33	13	310	52	61	30	09	432	58	75	34	13	572	67	83	32	16
13	015	23	10	31	08	153	09	01	35	18	312	52	60	33	08	434	56	73	32	23	595	65	83	32	23
14	014	22	13	32	12	152	12	01	36	11	311	02	63	05	09	434	55	73	35	15	576	61	76	34	25
15	014	24	09	35	06	140	13	55	36	07	314	03	65	04	16	437	55	71	03	16	578	64	81	24	13
16	015	24	08	20	07	154	11	53	09	05	312	01	65	30	06	434	60	75	30	06	573	67	84	27	12
17	015	22	12	16	05	153	11	52	09	12	312	51	61	05	16	433	59	71	32	08	572	66	79	31	12
18	015	22	11	16	08	153	08	02	10	13	310	52	64	11	13	431	59	73	11	14	570	67	80	10	06
19	015	21	09	20	03	152	11	54	24	09	311	51	65	27	16	432	58	73	26	21	571	60	79	26	13
20	013	24	18	17	10	151	10	07	20	07	310	51	56	21	12	432	56	65			572	66	72		
21	010	24	17	10	08	149	12	54	20	24	308	52	62	24	30	429	57	75	24	40	569	67	79	26	44
22	010	18	07	28	14	145	03	61	25	22	302	54	58			422	59	78			561	67	91		
23	016	11	01	34	15	148	00	73	25	35	302	57	85	25	35	420	66	69	24	54	556	71	68	23	70
24	022	10	53	32	22	154	51	69	33	18	307	55	73	35	15	426	64	81	34	26	563	72	89	32	34
25	023	11	52	31	17	157	04	57	34	27	313	52	72	30	20	434	61	79	29	26	571	71	86	29	38
26	018	14	51	32	14	153	09	58	33	18	310	51	68	29	10	431	59	77	29	20	570	70	86	28	28
27	016	15	51	32	08	151	06	62	33	07	308	52	71	28	08	429	60	75	29	09	567	71	84	22	10
28	019	14	51	33	10	154	05	63	31	14	310	55	70	29	08	429	63	76	28	06	565	73	84	31	10
29	023	15	07	29	07	155	07	59	29	05	315	52	67	34	05	435	59	76	35	13	574	69	88	35	19
30	023	15	50	31	10	138	07	64	30	07	315	52	65	32	11	436	60	69	32	14	575	68	82	30	23

TABLE 18-d. Month: November 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (1200 G.M.T.) AT BAGHDAD AIRPORT

DATE	400-mbs.,					300-mbs.,					200-mbs.,					150-mbs.,					100-mbs.,				
	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff	HHH	TT	Td	dd	ff
1																									
2	741	78	81			941	95	99			203	08	13			383	12	18			631	13	19		
3	743	76	80			944	93	97			206	02													
4	740	79	91	23	29	939	94	06	21	28	204	04	15	23	42	388	08	19	23	55	640	12	23	25	58
5	737	79	94			936	95	05			198	07	17			379	10	20			629	13			
6	740	77	93	27	70	940	92	05			202	09	20			383	09	21			635	13			
7	739	79	84	24	20	939	95	01	25	44	199	11	20	26	37	377	11	19			629	10	20		
8	739	77	89	28	16	940	92	04	21	22	103	11	22	29	17	179	15		28	33	629	10	20	26	22
9	737	79	84	28	19	936	95	06	28	24	197	11	22	28	34	374	12	23	27	40	626	11	21	28	12
10	733	79	90			934	93	03			199	07	16			377	09	19			631	02			
11	731	79	88	11	05	930	95	00			191	18	13			373	09	16			626	12			
12	736	78	94	31	26	935	94	07	31	34	197	06		31	44	378	12				626	13			
13	740	77	92	33	34	940	94	06	31	65	201	12	23			378	12	23							
14	744	73	87	34	23	948	90	01	33	45	214	08	19	33	53	390	19	29	32	45	633	16	25	28	33
15	743	77	92	28	20	944	92	06	28	20	206	12		29	52	381	18		24	15	625	17		29	34
16	736	79	94	29	14	936	93	07	28	16	197	13		27	24	373	17		27	25	618	15		29	29
17	736	79	89	29	16	935	96	04	27	30	198	06	15	29	27	374	12	21	28	31	626	17			
18	734	80	89			932	97	04			193	06				374	10				626	12			
19	734	78	83			934	93	99			195	09	18			376	08	15			630	10	19		
20	737	77	80			938	92	95			203	08	12			380	15	19			628	13			
21	734	76	87	26	36	936	93	05																	
22	725	78	98			925	93				190	06				372	09								
23	717	84	06	22	87																				
24	724	81	97	29	33	923	95	10	31	55	188	05	18			371	08	22			623	13	28		
25	731	83	96	28	40	927	98	09	29	60	198	06	16	29	20	371	10				622	12			
26	731	83	97	28	34	928	97	07	27	32	189	06	16	27	79	371	08	18	27	59	625	11			
27	728	81	88	26	22	925	97	03	27	32	188	03	10	27	56	372	06	20			625	13			
28	726	84	96	31	19	920	00	09	31	26	180	06	14	29	44	362	08	17	29	52	616	10	19		
29	737	79	96	33	20	935	96	10	30	13	197	07	19	30	35	378	10	22			636	13	25		
30	738	81	93	32	29	935	96	08	30	32	193	12		29	50	371	12		27	40	621	14		28	40

TABLE 19-a .

BAGHDAD AIRPORT

Month: November 1961 .

Frequency of Horizontal Visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M																									
>200 -500M																									
>500 -1000M																									
>1000 -1500M					2	1	2						1												6
>1500 -3000M					2	3	3	2	2	1													1		14
>3 -5KM				1	3	2	2	2	2		1					1									14
>5 -10KM			1	2	9	10	7	7	2	7	3	3	1	2	12	13	5	2	1				1	1	89
>10 -15KM	10	8	8	12	10	12	12	15	16	12	13	12	13	15	14	12	12	12	11	11	8	6	5	7	266
>15KM	20	22	21	15	4	2	4	4	8	10	13	15	15	13	4	4	13	16	18	19	22	24	23	22	331
Total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720

Frequency of different height of cloud-base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M																									
>50 -150M																									
>150 -300M																									
>300 -500M	1	1	1	1	1		2	1	1	2	1					1		2	1	1		1		1	19
>500 -900M	1		1	1		1					1					1	2			1		1	1	1	12
>900M	28	29	28	28	29	29	28	29	29	28	28	30	30	30	30	28	28	28	29	28	30	28	29	28	689

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air the second number shows the total .

TABLE 19-b .

BASRAH AIRPORT

Month: November 1961 .

Frequency of Horizontal Visibility

T I M E = G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M				1	2																				3
200 -500M																									
500 -1000M			1			1										1									3
1000 -1500M		1												1/1		1/2									4
1500 -3000M				1	1	2	1						1/1	1/1		1/1	1/2	2/2	1/1		1/1				14
3 -5KM	1	1		1	3			1				1/1				2/2			1/1	2/2					13
5 -10KM			2	2	6	6	5	2	2	1	1	1	2/2	1/2	1/1	1/1	1/2	1/3	1/3	1/2	1/2	1/4	4/4	1/2	56
10 -15KM	6	8	8	11	5	7	6	4	4	3	4	2	1	2	6	4	2	3	5	4	7	5	7	6	120
15KM	23	20	19	14	13	14	18	23	24	26	25	26	26	24	21	21	24	22	20	22	20	21	19	22	507

NOTE: In fields containing two numbers the first one gives the cases with dust in the air the second number shows the total.

Frequency of different heights of cloud - base (amount 5-8 oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M					1																				1
50 -150M																									
150 -300M																								1	1
300 -500M												1									1				2
500 -900M					2	1	1	2	2	1	2	1	2		1	1	1	1							18
900M	5	5	7	11	10	11	11	11	10	13	11	10	11	13	11	10	7	6	6	6	5	7	7	7	211

TABLE 20-a. Month: November 1961

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT METERS	VISIBILITY																					
	0-200M		>200-500M		>0.5-1KM		>1-1.5KM		>1.5-3KM		>3-5KM		>5-10KM		>10-15KM		>15KM		TOTAL			
0-50																						
>50-150																						
>150-300																						
															2	1			1		2	
>300-500												2			1				2		1	
													2	1		4		1	2	1	1	8
															1		1	1		1	2	
>500-900																1						1
																2		1	3		1	5
<5/8 OR *						2		3	1	2		2	7	10	11	10	18	14	4	28	28	28
>900				1		1				1	5	1	13	12	13	11	10	15	4	28	30	29
AND ≥5/8						3		4		4	1		29	10	6	83	18	22	105	28	28	227
						2		3	1	2		2	7	10	12	12	20	15	4	30	30	30
TOTAL				1		1				1	7	1	13	12	13	12	10	15	4	30	30	30
						3		4		4	1		31	11	6	88	18	24	110	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06
09	12	15
18	21	To

G.M.T

To=Total for all hours

*ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 20-b. Month: November 1961 .

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

HEIGHT	V I S I B I L I T Y																													
METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																														
>500-900																					1									1
																			1	1			1				1	1	2	1
																					3			1			1			5
<5/8 OR *		1												1	1	1	1			2	4	6	11	6	23	14	18	30	30	29
>900									1						1					1	1	3		4	26	26	22	29	28	29
AND ≥5/8			1						1				1		5	1	1	4	3	3	14	5	5	40	20	21	170	30	30	235
		1												1	1	1	1			2	5	6	11	6	23	14	18	30	30	30
TOTAL									1					1	1				1	2	1	3	1	4	26	26	23	30	30	30
			1						1				1		5	1	1	4	3	3	17	5	5	41	20	21	171	30	30	240

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	G.M.T
18	21	To	

To= Total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE .

December 1961 (12)

الجمهورية العراقية

مديرية الطيران المدني العامة

مديرية الانواء الجوية

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 شهرية . كانون الاول ١٩٦١

MONTHLY CLIMATOLOGICAL DATA FOR DECEMBER 1961 .

مجلد ٢٤ عدد (١٢) كانون الاول ١٩٦١

VOLUME 24, No. (12) , December 1961

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جو العراق خلال كانون الاول ١٩٦١

استقر الجو في معظم ايام الشهر لسبب تمركز ضغط جوي عالي على القطر و سبب جو حسن في كافة الاقسام وقد ظهرت بعض الفترات من الجو الردئ وذلك لمرور انخفاضات جوية حيث هطلت امطار متقطعة و احيانا زوابع رعدية و ذلك في الايام ١١ ـ ١٥ ومن ٢١ الى ٢٣ من الشهر

اما الرياح فقد كانت شمالية غربية معتدلة في معظم الايام المستقرة و تتحول الى جنوبية شرقية نشطة خلال مرور الانخفاضات الجوية

DECEMBER 1961 .

The weather was settled for the greatest part of the month on account of the anticyclonic conditions which prevailed over the country. There were a few spells of bad weather when, with the passage of depressions on low pressure waves. There was scattered light rainfall and a few thunderstorms. Disturbed weather conditions prevailed from the 11th to 15th and from 21st to 23rd.

The winds were mainly moderate NW'ly during most of the month , but SE'ly fresh during the spells of bad weather.

كانون الاول ١٩٦١

DECEMBER 1961 .

TABLE - 1 .

المعدل اليومي لدرجات الحرارة (سنتغراد)

DAILY MEAN TEMPERATURES (C°) OF 8 OBSERVATIONS

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	10.8	6.8	10.6	10.8	13.6	12.2	11.7	11.5	11.3
2	11.6	7.6	12.2	11.8	14.3	13.4	13.3	13.2	11.8
3	12.1	8.5	13.9	11.2	14.2	14.3	13.7	14.4	12.5
4	15.6	7.5	12.1	11.5	15.4	15.7	15.5	14.1	14.2
5	15.0	8.6	14.2	11.6	15.3	14.2	14.6	15.8	13.9
6	15.5	8.6	16.2	9.8	17.8	16.2	18.2	19.2	15.0
7	16.1	11.6	12.9	10.6	16.5	15.8	17.6	17.8	14.8
8	14.5	12.2	13.7	11.7	15.2	13.9	15.5	16.2	13.5
9	14.0	12.2	15.2	12.0	15.5	15.4	15.6	14.8	13.5
10	14.8	11.6	15.1	11.6	16.1	16.5	16.4	15.9	15.0
11	13.7	11.6	12.5	10.5	15.6	15.4	16.9	17.2	13.0
12	12.5	11.5	13.1	9.9	14.0	13.4	14.1	15.3	12.9
13	12.4	10.8	12.7	9.8	13.0	11.8	15.0	16.0	11.4
14	13.5	11.0	11.1	9.8	14.7	14.7	14.7	15.7	14.0
15	11.8	9.3	10.4	8.6	12.9	12.2	14.5	14.9	10.9
16	10.3	7.5	9.8	8.8	12.7	11.5	12.3	12.7	9.7
17	10.6	8.2	10.9	10.2	12.2	12.5	12.3	11.9	10.7
18	12.4	9.5	11.2	9.6	15.0	13.7	15.6	14.8	10.7
19	10.9	8.8	10.3	9.0	13.8	11.8	12.6	13.5	10.6
20	11.3	8.3	10.2	9.4	12.2	12.2	12.2	12.4	11.7
21	13.7	8.3	11.4	9.8	15.1	13.7	15.4	14.8	11.1
22	13.1	9.0	10.8	10.3	13.2	12.5	12.6	14.7	13.3
23	13.9	9.4	9.5	10.4	14.6	12.9	13.3	14.6	12.6
24	12.0	7.3	10.1	8.4	14.2	12.3	13.0	13.9	10.5
25	9.6	6,6	8.2	8.6	13.0	11.6	12.6	13.8	8.4
26	8.2	6.3	7.8	10.3	11.4	9.9	12.1	13.4	7.8
27	9.8	7.2	7.9	9.8	12.3	11.2	11.8	12.3	9.5
28	9.8	7.8	8.6	9.8	12.4	11.0	12.1	12.4	9.9
29	9.4	6.2	8.8	9.4	12.5	11.3	11.9	12.2	9.6
30	9.5	6.5	10.0	10.5	12.2	11.4	11.8	11.4	10.3
31	12.7	8.5	11.5	7.9	13.1	12.8	13.5	13.1	12.5
MEANS	12.3	8.9	11.4	10.1	14.0	13.1	13.9	14.3	11.8
NORMAL	10.9	7.9	10.3	8.3	12.4	11.8	12.7	13.1	10.9
YEARS OF NORMAL	1937	1923	1935	1928	1940 TO 1956	1939	1940	1937	1935

NOTE: T I M E - G.M.T.

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

DECEMBER 1961 .

كانون الاول ١٩٦١

TABLE - 2 .

المعدل اليومي للضغط الجوي على سطح البحر

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

التاريخ	بغداد	موصل	كركوك	رطبة	حي	ديوانية	ناصرية	بصرة	حبانية
DATE	BAGHDAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	1025.4	1027.1	1025.8	1025.9	1024.1	1025.2	1024.5	1025.6	1025.4
2	23.9	25.1	24.1	24.2	22.6	23.6	23.2	22.8	23.7
3	22.9	24.1	23.3	23.7	22.2	23.0	22.5	22.5	22.5
4	22.9	25.1	24.1	20.7	22.0	22.3	22.3	22.2	22.2
5	22.6	25.4	23.9	20.6	21.6	22.1	21.6	22.5	22.4
6	18.1	20.6	19.6	15.7	16.9	17.3	16.9	17.8	17.4
7	15.4	17.4	17.0	14.1	15.5	14.9	15.0	16.8	14.7
8	18.2	19.0	18.9	16.1	17.8	18.2	17.9	17.7	17.5
9	19.8	20.8	20.4	17.1	19.0	19.3	16.5	19.0	19.0
10	17.0	18.9	17.8	15.2	16.2	16.4	19.0	19.0	16.2
11	12.0	13.7	13.5	12.4	10.8	11.4	10.9	11.2	11.7
12	14.6	14.5	14.7	12.8	14.2	14.5	14.5	14.3	13.7
13	10.4	11.4	11.4	08.1	09.6	10.0	09.9	13.5	09.4
14	10.0	07.8	09.6	08.0	11.5	11.2	12.1	13.3	08.8
15	18.7	18.0	18.9	17.6	18.7	19.3	18.8	18.8	18.5
16	22.9	24.8	23.8	20.7	21.1	22.6	21.6	20.9	22.6
17	19.7	20.6	20.2	17.6	18.9	19.4	19.2	19.3	19.0
18	19.6	21.0	20.6	20.3	17.6	18.4	17.5	18.0	20.0
19	21.4	22.4	21.7	21.6	19.4	20.9	19.7	19.1	21.2
20	16.6	17.5	17.2	14.7	16.1	16.2	16.5	16.9	16.2
21	08.9	09.9	10.0	08.6	08.7	08.4	08.9	09.6	08.6
22	09.6	08.3	08.9	08.3	10.6	10.5	11.1	11.6	08.9
23	14.1	13.3	14.6	23.0	15.3	15.2	15.9	16.3	13.6
24	20.8	22.0	21.5	20.9	19.9	20.5	20.1	19.7	20.9
25	22.0	22.9	22.0	21.2	20.0	21.2	20.3	19.7	21.9
26	21.7	22.1	22.0	19.5	20.0	21.0	20.3	19.5	21.6
27	20.8	22.1	21.5	19.7	19.2	19.9	19.5	18.8	20.4
28	22.6	24.0	23.2	22.5	20.7	22.0	21.2	20.8	22.8
29	24.6	25.4	24.7	24.5	22.7	24.2	23.4	22.7	24.6
30	23.4	24.5	23.6	20.8	22.7	23.1	22.9	22.9	23.0
31	19.0	21.4	20.3	17.5	19.0	17.7	18.6	20.0	18.0
MEAN	1018.7	1019.7	1019.3	1017.8	1018.2	1018.3	1018.1	1018.5	1018.3
NORMAL	1020.1	1021.1	1020.0	1020.8	1019.9	1019.5	1019.3	1019.3	1020.1
1961 :									
HIGHEST	1028.2	1028.6	1026.9	1027.8	1025.7	1027.2	1026.6	1026.4	1026.8
TIME-GMT	0300	0300	0000	0600	0600	0600	0600	0600	0600
DAY	4th	1st	1st	1st	1st	1st	1st	1st	1st
LOWEST	1006.7	1006.4	1006.9	1006.5	1006.5	1006.2	1005.7	1007.8	1006.5
TIME-GMT	1200	0000	1200	1200	1200	1200	1200	1500	1500
DAY	21st	14th	21st	13&21	21st	21st	21st	21st	13th
RECORDS :									
HIGHEST	1032.2	1033.7	1031.5	1035.9	1030.2	1031.1	1030.5	1030.9	NOT
TIME-GMT	0600	0600	0600	0600	0600	0600	0600	0600	AVAI-
DAY	13th	26th	13th	26th	22nd	12th	12&13	27th	LABLE
YEAR	1956	1947	1956	1947	1953	1956	1956	1939	
LOWEST	1006.2	1004.8	1006.9	1005.5	1005.0	1006.3	1005.7	1007.5	
TIME-GMT	1200	0300	1200	0000	0900	0200	1200	1200	
DAY	30th	24th	21st	16th	22nd	21st	21st	30th	
YEAR	1945	1947	1961	1951	1952	1940	1961	1954	

DECEMBER 1961 .

TABLE - 3 .

DAILY MEAN RELATIVE HUMIDITY (%) OF 8 OBSERVATIONS

DATE	BAGH-DAD	MOSUL	KIRKUK	RUTBAH	HAI	DIWA-NIYA	NASI-RIYA	BASRAH	HABBA-NIYA
1	74	74	57	64	56	60	52	61	71
2	76	82	56	69	58	70	61	71	76
3	71	72	55	63	69	69	62	87	76
4	63	80	60	66	68	61	60	86	67
5	64	74	51	62	67	67	68	77	73
6	78	77	54	98	62	74	55	64	80
7	92	85	89	94	84	89	83	89	93
8	92	88	88	85	92	91	83	91	91
9	83	90	81	84	82	80	75	86	90
10	64	86	70	79	77	73	66	96	81
11	81	86	80	77	71	73	66	81	81
12	64	85	79	78	78	77	73	79	80
13	88	85	79	76	91	90	75	89	88
14	77	90	94	76	82	75	65	70	73
15	81	86	95	77	82	79	64	70	78
16	81	82	77	79	74	75	64	73	84
17	74	85	74	71	72	66	60	76	77
18	70	81	73	78	68	67	55	61	80
19	78	80	79	73	69	74	65	71	80
20	78	88	80	69	74	70	62	72	73
21	65	92	75	56	64	64	56	57	72
22	61	92	83	62	68	64	52	68	57
23	68	92	94	68	66	65	56	63	75
24	73	88	86	75	68	70	62	70	78
25	70	80	86	71	61	63	58	77	72
26	75	88	85	69	68	70	56	70	80
27	73	83	85	71	66	65	59	80	75
28	75	78	83	77	66	68	60	78	80
29	80	89	82	71	70	68	65	80	81
30	81	83	81	65	74	72	69	86	78
31	69	83	68	78	69	63	63	86	72
MEAN	75	84	77	74	72	71	64	76	78
NORMAL	73	82	70	71	73	73	69	82	71
1961 :									
HIGHEST	100	98	100	100	99	100	94	99	100
TIME-GMT	0300	0300	0300	0600	0300	0300	0000	0300	0300
DAY	8&9	1&30	15th	6&7	8&9	8th	7th	10th	8th
LOWEST	38	31	29	20	33	37	30	29	38
TIME-GMT	1200	1200	1200	1200	1200	1200	1200	1200	1200
DAY	25th	3rd	2nd	21st	2nd	22nd	1st	18th	14th

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TABLE -4a.

درجات الحرارة العظمى والصغرى اليومية (سنغراد)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	بغداد		موصل		كركوك		خانقين		الرطبة	
	BAGHDAD		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	20.4	1.0	16.4	0.6	16.8	4.5	18.0	2.2	19.8	3.3
2	21.4	2.9	18.9	0.1	21.1	4.6	21.1	2.8	20.5	3.4
3	22.4	1.8	20.5	0.8	23.9	7.7	21.1	5.0	20.5	4.5
4	22.0	7.5	15.5	1.0	21.6	6.4	20.0	5.0	20.4	3.4
5	23.6	7.7	18.4	1.3	23.4	7.7	23.9	6.6	17.0	7.3
6	19.4	11.4	13.9	1.8	21.5	12.0	20.6	10.6	10.8	9.6
7	20.6	11.9	14.0	9.8	16.9	11.9	23.3	13.3	15.0	8.0
8	21.6	9.4	16.2	8.9	17.8	10.0	17.6	12.2	17.2	8.0
9	20.0	7.6	15.6	9.8	22.5	11.1	20.6	7.8	18.2	7.3
10	22.8	6.4	14.4	10.0	22.2	9.4	22.2	7.2	19.0	6.0
11	18.8	9.6	15.0	9.4	16.6	9.1	16.7	8.9	15.2	9.8
12	20.6	4.8	16.7	7.2	18.6	8.7	19.4	8.3	16.4	8.8
13	15.8	7.2	14.4	9.0	17.3	10.2	16.7	6.6	15.0	7.0
14	18.5	6.5	13.3	9.6	13.6	9.6	15.7	10.6	14.8	7.6
15	18.6	6.5	13.6	8.6	14.0	9.4	15.6	10.0	14.2	4.5
16	17.5	3.4	14.8	1.8	15.7	5.4	16.7	5.0	16.8	2.3
17	18.2	1.1	15.8	3.1	18.4	5.4	19.4	3.3	18.0	3.7
18	19.8	6.5	16.3	2.7	17.4	6.4	18.0	7.2	13.0	6.8
19	18.6	3.8	16.0	3.2	15.6	5.6	17.2	3.8	17.2	3.8
20	20.0	2.3	15.6	3.9	16.3	6.4	17.2	4.8	16.6	2.6
21	20.3	6.5	12.3	5.2	15.7	7.7	19.4	7.2	17.7	5.3
22	18.0	8.1	11.8	6.2	16.3	8.4	15.6	9.4	14.8	8.5
23	18.8	8.3	11.8	6.9	10.6	8.0	15.0	11.7	14.5	8.5
24	18.2	5.3	12.2	5.1	14.7	6.9	17.8	10.0	13.6	3.3
25	16.0	2.8	13.4	2.2	13.0	4.0	15.6	3.9	14.6	3.3
26	15.3	0.2	13.7	1.3	13.2	3.4	14.4	1.6	16.0	7.6
27	16.1	2.6	13.1	3.4	13.1	3.5	15.0	2.2	16.6	4.2
28	17.7	1.9	12.9	5.2	13.7	4.0	16.7	2.2	14.6	6.7
29	17.4	2.8	13.3	0.6	14.2	3.8	16.7	1.6	17.6	3.4
30	18.2	0.4	14.2	0.4	17.2	4.3	16.1	3.6	18.0	3.6
31	19.3	3.7	14.0	4.2	17.2	7.0	17.2	4.4	14.2	3.0
MEANS	19.2	5.2	14.8	4.6	17.1	7.2	18.1	6.4	16.6	5.2
NORMAL	17.4	5.3	14.5	3.0	15.6	5.9	17.1	6.2	14.5	2.6
HIGHEST	26.6		27.2		27.1		27.8		26.0	
DAY	3rd.		3rd.		2nd.		2nd.		4th	
YEAR	1956		1956		1956		1956		1956	
LOWEST		-6.7		-7.4		-6.1		-5.0		-8.9
DAY		5th		15th		23rd		5th		5th
YEAR		1941		1959		1946		1941		1941

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES (C°)

	حي		ديوانية		ناصرية		بصرة		حبانية	
	HAI		DIWANIYA		NASIRIYA		BASRAH		HABBANIYA	
التاريخ	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى	عظمى	صغرى
DATE	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	20.0	2.2	20.8	3.0	20.3	3.6	21.0	2.6	20.0	4.3
2	21.0	5.4	21.4	5.6	21.7	5.9	22.5	4.1	20.9	5.0
3	23.4	6.0	23.5	4.4	22.4	5.4	22.0	5.5	21.2	4.8
4	22.8	8.0	22.0	10.5	22.7	8.8	17.0	11.9	22.4	7.2
5	21.0	9.2	19.3	7.2	19.0	9.4	22.3	10.0	22.3	6.1
6	21.8	11.3	21.0	12.7	23.8	13.4	27.3	13.5	18.4	12.9
7	20.3	13.0	21.0	13.1	22.4	13.5	22.2	13.6	17.2	13.2
8	20.2	12.0	20.2	8.5	21.5	10.2	22.8	13.0	19.4	8.3
9	22.2	9.0	22.8	8.4	22.5	8.6	22.8	7.4	20.1	8.0
10	24.0	9.6	22.0	11.0	23.5	9.4	24.1	8.9	22.2	10.0
11	21.4	9.6	22.0	10.9	21.0	12.0	26.6	11.2	18.9	9.6
12	20.2	7.0	20.4	7.0	19.7	8.7	20.5	11.0	20.1	6.4
13	15.7	9.0	14.8	10.0	20.4	11.5	20.4	12.4	15.3	7.7
14	20.0	11.0	21.0	10.1	21.8	8.5	21.7	11.2	20.8	10.6
15	18.4	8.2	18.9	7.9	20.0	11.4	20.8	13.9	18.3	6.5
16	17.7	7.4	18.6	4.2	19.0	6.5	20.0	6.2	18.4	3.4
17	19.4	4.3	19.5	3.2	20.5	2.6	19.2	4.4	19.4	3.4
18	22.8	8.5	21.0	9.4	22.8	10.0	23.3	7.0	18.4	6.0
19	19.2	7.5	19.1	6.1	20.4	6.7	21.0	8.1	18.2	5.2
20	19.3	5.0	19.4	4.6	20.0	4.2	20.3	6.9	18.9	4.7
21	22.2	8.7	21.1	8.2	23.4	9.5	26.0	8.2	18.5	6.6
22	19.0	7.2	18.8	5.4	20.0	7.6	21.9	9.4	18.4	6.7
23	20.5	10.0	20.3	7.3	20.2	8.7	21.6	8.6	17.9	9.3
24	21.6	5.8	19.5	6.1	20.7	5.6	20.5	8.4	16.9	6.7
25	17.7	7.6	18.0	6.0	19.1	5.9	20.6	6.3	15.0	5.5
26	16.7	3.2	17.5	3.6	17.8	6.5	18.3	7.7	15.4	2.8
27	17.0	6.2	18.3	4.9	18.8	5.9	18.6	7.5	17.6	3.5
28	18.0	4.3	18.3	3.8	19.2	6.2	20.0	5.9	16.7	5.0
29	17.4	5.0	17.2	5.1	18.8	5.5	18.8	6.0	17.3	3.9
30	17.7	4.4	18.5	4.5	19.1	5.3	19.6	4.7	18.6	3.2
31	19.8	4.0	20.4	4.7	21.1	5.0	21.6	4.8	19.8	6.9
MEANS	20.0	7.4	19.9	7.0	20.9	7.8	21.5	8.4	18.8	6.5
NORMAL	19.1	7.0	18.4	5.0	18.7	7.2	19.8	8.6	17.1	5.4
HIGHEST	28.9		27.8		28.2		29.4		30.6	
DAY	1st.		1&4th		5th		1st		5th	
YEAR	1943		1943		1956		1942		1959	
LOWEST		-4.6		-5.6		-5.0		-2.6		-6.7
DAY		12th		30th		6th		13th		5th
YEAR		1956		1948		1941		1956		1941

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TABLE - 5 . المعدل الشهري لدرجات الحرارة الجافة
MONTHLY MEAN DRY BULB TEMPERATURES (C°)

STATIONS	TIME - G.M.T. 0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	8.5	7.3	10.1	16.8	18.7	15.0	11.7	10.0	12.3
MOSUL	6.2	5.6	7.4	11.9	13.7	10.8	8.3	7.9	8.9
KIRKUK	8.6	8.3	11.2	15.3	15.7	12.1	10.4	9.3	11.4
KHANAQIN	"	8.2	10.5	16.3	17.6	14.2	11.4	"	13.0
RUTBAH	6.8	6.0	7.8	14.0	15.8	12.6	9.5	8.2	10.1
HAI	"	8.2	12.2	18.2	18.9	14.6	12.2	"	14.1
DIWANIYA	9.3	7.9	11.7	18.0	20.1	15.4	12.1	10.8	13.1
NASIRIYA	9.6	8.6	12.3	18.6	20.4	16.7	13.7	11.5	13.9
BASRAH	10.7	9.4	12.8	18.7	20.6	16.5	13.6	12.0	14.3
HABBANIYA	8.4	7.2	9.9	16.4	18.1	13.5	11.3	9.8	11.8

TABLE - 6 . المعدل الشهري لدرجات الحرارة للبصلة الرطبة (مقطراد)
MONTHLY MEAN WET BULB TEMPERATURES (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	7.5	6.5	9.0	12.8	13.6	12.0	9.9	8.7	10.0
MOSUL	5.7	5.1	5.5	9.4	10.1	8.8	7.4	6.5	7.4
KIRKUK	7.4	7.1	8.9	11.4	11.4	10.1	9.0	8.1	9.2
KHANAQIN	"	6.8	8.4	12.0	12.4	11.1	9.5	"	10.0
RUTBAH	5.9	5.1	6.3	10.3	10.9	9.6	7.9	6.9	7.9
HAI	"	7.1	9.5	13.5	13.7	11.8	10.0	"	10.9
DIWANIYA	7.7	6.7	9.7	13.5	14.1	12.1	10.2	9.1	9.1
NASIRIYA	7.9	6.9	9.7	13.1	13.7	12.2	10.5	9.2	10.4
BASRAH	9.4	8.0	10.9	14.8	15.9	13.8	12.1	10.7	12.0
HABBANIYA	7.4	6.5	8.6	12.5	13.2	11.3	9.6	8.5	9.7

TABLE - 7 . 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
BAGHDAD	18.8	18.7	19.7	19.2	17.6	17.9	18.6	19.0	1018.7
MOSUL	20.1	20.3	20.9	20.0	18.5	18.7	19.4	19.8	1019.7
KIRKUK	19.8	19.8	20.2	19.1	17.9	18.8	19.5	19.6	1019.3
KHANAQIN	"	19.1	17.0	18.3	17.0	18.0	19.1	"	1018.1
HAI	"	18.2	19.2	18.3	16.9	17.0	17.6	"	1017.9
RUTBAH	17.3	17.6	19.0	17.6	16.3	17.2	17.9	17.3	1017.8
DIWANIYA	18.3	18.6	18.0	18.6	17.3	17.5	18.2	18.2	1018.2
NASIRIYA	18.2	18.5	19.6	18.5	17.0	17.3	18.0	18.0	1018.4
BASRAH	18.2	18.5	19.9	18.7	17.3	17.5	18.2	18.2	1018.3
HABBANIYA	18.4	18.5	19.6	18.6	17.2	17.5	18.1	18.1	1018.3

TABLE - 8 . المعدل الشهري للرطوبة النسبية (٪)
MONTHLY MEAN RELATIVE HUMIDITY (%)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	87	90	83	65	55	68	79	84	76
MOSUL	93	93	89	73	65	78	89	92	84
KIRKUK	85	85	75	63	60	79	84	84	77
KHANAQIN	"	82	75	58	51	67	67	"	68
RUTBAH	86	86	80	60	52	66	79	83	74
HAI	"	87	78	60	56	72	76	"	72
DIWANIYA	83	84	76	58	52	65	74	79	71
NASIRIYA	76	80	69	50	43	56	65	71	64
BASRAH	84	86	78	64	60	73	81	84	76
HABBANIYA	88	94	84	63	56	75	81	85	78

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TABLE - 9 . المعدل الشهري لضغط البخار (بالملبارات)

MONTHLY MEAN VAPOUR PRESSURE (mbs.)

T I M E - G . M . T .

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	9.8	9.3	10.4	11.7	11.8	11.8	11.0	10.2	10.6
MOSUL	9.0	8.5	9.3	10.2	10.1	10.1	9.8	9.8	9.6
KIRKUK	9.4	9.2	9.8	10.5	10.2	10.8	10.4	9.8	10.0
KHANAQIN	...	9.0	9.5	10.7	10.5	10.8	10.4	...	10.1
RUTBAH	8.5	8.1	8.6	9.9	9.2	9.6	9.4	9.6	9.0
HAI	...	9.8	10.9	12.4	12.2	12.0	10.9	...	11.4
DIWANIYA	10.0	9.1	10.5	12.0	11.8	11.5	10.5	10.5	10.8
NASIRIYA	9.3	8.6	10.0	10.8	10.3	10.7	10.2	9.6	10.0
BASRAH	10.6	10.3	11.6	13.5	14.5	13.7	12.8	11.6	12.4
HABBANIYA	9.8	9.4	10.2	11.5	11.8	11.7	10.8	10.3	10.6

TABLE - 10 . المعدل الشهري لدرجة الندى (سنتغراد)

MONTHLY MEAN DEW POINT (C°)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	6.4	5.5	7.2	8.9	9.0	9.1	8.0	7.1	7.7
MOSUL	5.2	4.6	5.6	7.0	6.7	6.9	6.5	6.0	6.0
KIRKUK	5.8	5.3	6.4	7.5	7.0	7.9	7.3	6.4	6.7
KHANAQIN	...	5.0	6.0	7.7	7.2	7.7	7.3	...	6.8
RUTBAH	4.5	3.7	4.6	6.0	5.4	6.1	5.9	5.5	5.2
HAI	...	5.0	8.0	10.0	12.2	9.5	7.7	...	8.9
DIWANIYA	6.1	5.1	7.1	9.3	9.1	8.2	7.7	7.0	7.5
NASIRIYA	5.6	4.8	6.7	7.8	7.0	7.7	7.1	6.5	6.7
BASRAH	8.0	7.1	9.0	11.4	12.1	11.6	10.4	9.1	9.9
HABBANIYA	6.4	5.7	7.0	8.9	8.6	9.1	7.9	7.3	7.6

TABLE 11 . المعدل الشهري لكمية الغيوم الواطئة (الاثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	0.7	0.6	0.9	0.7	1.2	0.8	0.4	0.5	0.7
MOSUL	3.9	3.5	3.5	3.2	3.5	3.5	3.5	3.3	3.5
KIRKUK	2.0	2.6	2.4	2.3	2.7	2.4	1.8	1.8	2.3
KHANAQIN	...	3.0	1.9	1.9	2.1	3.2	2.0	...	2.3
RUTBAH	1.4	1.3	1.5	1.5	2.8	2.2	1.1	1.0	1.5
HAI	...	0.8	0.9	1.1	0.7	0.6	0.4	...	0.8
DIWANIYA	0.2	1.0	1.3	0.9	1.0	0.3	0.0	0.3	0.6
NASIRIYA	0.8	0.6	0.8	0.7	0.8	0.6	0.5	0.5	0.7
BASRAH	0.2	0.3	0.4	0.5	0.5	0.8	0.3	0.3	0.5
HABBANIYA	0.3	0.5	0.8	1.0	0.7	0.8	1.0	0.2	0.7

TABLE - 12. المعدل الشهري لكمية الغيوم (الاثمان)

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
BAGHDAD	2.5	2.7	3.3	3.2	3.7	3.6	2.8	2.7	3.1
MOSUL	5.0	4.7	5.5	5.6	5.6	5.4	4.8	4.9	5.2
KIRKUK	3.5	3.7	3.9	3.3	3.8	3.5	2.9	2.8	3.4
KHANAQIN	...	4.0	3.8	3.6	3.8	4.1	3.2	...	3.8
RUTBAH	2.6	2.6	3.5	3.1	4.2	4.0	2.9	2.6	3.2
HAI	...	3.4	2.9	2.9	3.2	2.8	2.2	...	2.9
DIWANIYA	1.6	2.5	2.7	2.5	2.7	2.0	2.2	2.5	2.3
NASIRIYA	2.5	2.5	3.0	3.0	2.9	2.7	2.0	2.2	2.6
BASRAH	1.9	2.6	2.7	3.3	3.2	2.9	2.3	2.2	2.6
HABBANIYA	2.5	2.9	3.3	3.3	3.8	3.6	3.2	2.5	3.1

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TABLE 13-a . عدد تكرارة رصدات 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. in
		N	NE	E	SE	S	SW	W	NW	CALM	1-10	11-21	22-33	34فما فوق	
بغداد BAGHDAD	0000	2	1	2	4	2	1	5	5	9	22	0	0	0	3
	0300	2	0	6	2	2	4	3	4	8	21	2	0	0	3
	0600	1	1	2	5	3	3	0	12	4	23	3	1	0	3
	0900	3	1	2	5	3	3	3	10	1	20	10	0	0	4
	1200	2	2	3	4	7	2	1	10	0	19	12	0	0	4
	1500	3	4	4	5	4	0	0	10	4	25	2	0	0	3
	1800	1	1	3	8	1	0	2	8	7	23	1	0	0	3
	2100	1	1	6	4	1	2	2	6	8	21	1	1	0	3
	TOTAL	15	11	28	37	20	15	16	65	41	174	31	2	0	3
موصل MOSUL	0000	1	2	4	2	4	0	7	0	11	17	3	0	0	3
	0300	4	2	6	3	2	0	8	1	5	22	4	0	0	3
	0600	4	2	5	4	3	0	8	2	3	25	3	0	0	3
	0900	5	2	5	4	3	0	8	3	1	23	6	1	0	3
	1200	3	2	6	3	3	1	9	3	1	20	9	1	0	3
	1500	6	1	4	5	2	0	7	1	5	22	4	0	0	3
	1800	3	1	11	0	0	1	7	2	6	20	5	0	0	3
	2100	4	1	5	5	0	0	9	2	5	24	2	0	0	3
	TOTAL	30	13	46	26	17	2	63	14	37	173	36	2	0	6
كركوك KIRKUK	0000	0	7	1	2	1	0	0	0	20	8	3	0	0	3
	0300	2	4	4	2	1	0	0	0	18	12	1	0	0	3
	0600	0	3	3	2	2	0	0	0	21	9	1	0	0	3
	0900	0	0	0	7	6	2	3	1	12	18	1	0	0	3
	1200	3	1	1	5	5	3	4	1	8	20	2	1	0	3
	1500	1	2	0	2	3	1	1	0	21	8	2	0	0	3
	1800	0	7	3	3	1	0	1	0	17	12	2	0	0	3
	2100	0	6	3	3	1	1	0	0	17	12	1	1	0	3
	TOTAL	6	30	15	26	20	7	8	2	134	99	13	2	0	3
خانقين KHANAQIN	0300	0	0	7	1	5	0	0	1	17	12	1	0	1	3
	0600	0	0	9	1	7	0	0	0	14	14	2	1	0	3
	0900	1	0	2	2	10	0	6	0	10	18	2	1	0	4
	1200	1	0	1	1	11	0	9	5	3	23	3	2	0	5
	1500	2	0	0	0	7	0	2	1	19	10	1	1	0	3
	1800	0	0	8	1	3	0	1	0	18	11	2	0	0	3
	TOTAL	4	0	27	6	43	0	18	7	81	88	11	5	1	5
رطبة RUTBAH	0000	0	0	4	2	4	8	4	1	8	16	6	1	0	7
	0300	0	0	2	1	3	13	5	1	6	21	3	1	0	7
	0600	2	0	3	2	8	12	2	0	2	24	5	0	0	6
	0900	2	0	2	2	9	12	3	1	0	24	5	1	0	8
	1200	3	1	2	2	6	4	8	0	5	16	8	2	1	9
	1500	4	2	2	4	4	5	4	0	6	20	5	0	0	7
	1800	1	0	3	5	8	4	1	1	8	18	5	0	0	6
	2100	1	0	2	4	5	7	3	0	9	15	7	0	0	6
	TOTAL	13	3	20	22	47	65	30	4	44	154	44	5	1	7

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TABLE 14-b. عدد تكرار رصدات الرياح السطحية

SURFACE - WIND , NUMBER OF OBSERVATIONS OF :

المحطة STATIONS	وقت جرينتش 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	
حي HAI	0300	2	0	5	1	1	1	8	6	7	22	2	0	0	5
	0600	1	0	3	4	0	0	6	7	10	18	3	0	0	5
	0900	1	0	6	1	0	0	3	9	11	11	7	2	0	7
	1200	0	0	2	4	2	0	6	7	10	9	10	2	0	8
	1500	1	0	3	2	0	0	2	6	17	11	3	0	0	4
	1800	3	0	1	3	0	0	1	8	15	13	3	0	0	4
	TOTAL	8	0	20	15	3	1	26	43	70	84	28	4	0	6
ديوانية DIWANIYA	0000	3	0	8	1	1	0	11	0	6	25	0	0	0	5
	0300	2	0	8	0	1	3	11	0	6	21	3	1	0	5
	0600	2	1	3	1	2	2	13	0	7	18	6	0	0	5
	0900	4	0	4	3	3	1	10	2	4	18	9	0	0	7
	1200	5	0	3	1	4	2	9	4	3	7	21	0	0	7
	1500	7	0	6	1	2	2	8	1	4	26	1	0	0	4
	1800	4	1	6	1	4	0	9	2	4	25	2	0	0	5
	2100	3	0	6	3	1	0	3	7	8	21	2	0	0	3
	TOTAL	10	2	44	11	18	10	74	16	42	161	44	1	0	5
ناصرية NASIRIYA	0000	1	0	2	4	6	1	6	8	3	28	0	0	0	4
	0300	2	0	4	3	4	2	10	2	4	27	0	0	0	4
	0600	2	0	3	2	1	1	11	8	3	24	4	0	0	5
	0900	2	0	0	10	0	1	8	9	1	24	6	0	0	7
	1200	5	0	3	5	1	0	8	8	1	22	8	0	0	7
	1500	4	2	4	3	0	0	6	6	6	25	0	0	0	4
	1800	1	0	3	5	1	1	5	8	7	23	1	0	0	4
	2100	3	1	3	3	7	1	5	5	3	27	1	0	0	4
	TOTAL	20	3	22	35	20	7	59	54	28	200	20	0	0	5
بصرة BASRAH	0000	2	2	2	0	2	0	3	7	13	18	0	0	0	2
	0300	2	2	2	0	1	1	7	5	11	20	0	0	0	2
	0600	3	0	3	1	1	0	5	8	10	21	0	0	0	3
	0900	6	1	1	1	4	0	1	12	5	21	5	0	0	6
	1200	5	0	1	1	4	1	2	12	5	19	7	0	0	6
	1500	4	1	0	1	3	0	0	11	11	18	2	0	0	3
	1800	6	0	1	2	4	1	2	7	8	23	0	0	0	2
	2100	4	1	0	2	3	0	3	6	12	19	0	0	0	1
	TOTAL	32	27	10	8	22	3	23	68	75	159	14	0	0	3
حبانية ABBANIYA	0000	0	0	7	0	2	1	4	1	16	13	2	0	0	3
	0300	0	1	5	0	2	2	6	0	15	15	1	0	0	3
	0600	1	0	3	2	2	1	6	2	14	14	3	0	0	4
	0900	1	2	2	4	4	1	6	4	7	16	8	0	0	7
	1200	1	3	2	3	7	0	3	5	7	21	3	0	0	5
	1500	1	1	1	2	2	0	0	5	19	11	1	0	0	1
	1800	0	1	5	2	2	0	1	2	18	12	1	0	0	2
	2100	0	3	4	2	3	2	2	2	13	15	2	1	0	4
	TOTAL	4	11	29	15	24	7	28	21	109	117	21	1	0	3

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TABLE - 14a. الهطول اليومي (ملليمترات)

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

DATE التاريخ	BAGH-DAD بغداد	MOSUL موصل	KIRKUK كركوك	KHANA-QIN خانقين	RUTBAH رطبة	HAI حي	DIWA-NIYA ديوانية	NASI-RIYA ناصرية	BASRAH بصرة	HABBA-NIYA حبانية
1										
2										
3										
4								tr.	2.7	
5	0.5				0.4	1.4	0.6	tr.	tr.	0.8
6	8.3	4.2	1.2		18.2	16.6	15.5	0.6	tr.	11.7
7	tr.	15.9	46.1	6.2	18.0	0.6		7.5	4.0	
8		4.0		7.0	tr.	tr.				
9		0.6								
10	0.4	6.3	0.9							
11	tr.	0.5	tr.	1.7				0.1	0.2	
12	tr.			2.0		0.6	4.7			tr.
13	9.0	19.3	1.5	12.2	tr.	13.2	1.2	0.9	6.7	tr.
14	tr.	8.8	11.0	3.3	tr.	0.4	tr.			0.7
15	tr.		tr.						0.1	
16										
17										
18									tr.	
19										
20		0.6	tr.							
21		2.6	0.3							
22		3.4	7.8							
23		1.6	9.7	1.9						
24										
25										
26	tr.							tr.		
27								tr.		
28										
29										
30			tr.							
31		tr.								
TOTAL	18.2	68.4	79.2	40.1	36.6	32.8	22.1	9.1	13.7	13.0
NORMAL	28.0	62.8	68.6	59.9	21.4	29.1	24.0	27.9	35.4	22.1
MAX. RAD. TOTAL 24 HOURS	40.0	70.9	46.3	71.4	45.7	41.0	37.6	22.8	57.0	28.8
DAY	5th	30th	30th	21st	26th	5th	13th	22nd	5th	13th
YEAR	1954	1945	1945	1956	1935	1954	1941	1952	1954	1938

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TABLE 14-b.

الهطول المري (بالملمترات)

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

التاريخ	جوارتا	راوندوز	تل عوينات	تلعفر	قيارة	حويجة	بنجوين	بكرجو	حلبجة
DATE	CHUARTA	RAWANDUZ	TELAW-AINAT	TELAA-FAR	QAYARA	HAWIJA	PENJWIN	BAKRAJO	HALA-BJA
1									
2									
3									
4									
5		31.0		13.0	11.0	4.0			
6	34.0	40.0		10.0	10.5	39.0		28°0	15°0
7									4.0
8		10.0	15.2	16.0	1.0				
9		12.0	8.9	7.5	tr.				
10	3.5		2.5	23.5	6.0			4.0	1.0
11	5.0		5.1		tr.			4.0	0.8
12				6.0					
13	27.6	12.0	19.1	18.5	13.5	8.2		28.0	17.5
14	45.8	23.0		7.0	5.0	7.6		41.0	31.0
15	16.0	5.0						18.0	8.5
16									
17									
18		7.0							
19	3.6				tr.			2.0	9.0
20	17.3	30.0	7.6	5.0	11.0	5.5	15.0	23.0	9.5
21	45.6	8.0		7.0	0.5	3.2	67.0	46.0	35.0
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOT.	198.4	178.0	58.4	111.5	38.5	67.5	82.5	194.0	131.3

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كانون الاول ١٩٦١

TABLE - 14-c .

المطر اليومي (ملليمترات)

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

التاريخ	افتخار	دهوك	شقلاوة	بنكرد	نجف	بيجي	تاوز	عنة	سامرا
DATE	IFTI-KHAR	DUHOK	SHAQ-LAWA	BINKARD	NAJAF	BAIJI	TUZ	ANA	SAMIRAA
1									
2									
3					1.0			3.0	
4									
5									
6		7.5			2.0				17.0
7	39.4	13.0			27.0	8.5		10.0	4.0
8		14.4	63.0	37.5		7.0	12.7		
9		6.2							
10	1.0	13.5						0.3	
11		11.4	43.0			0.6			
12		2.5	3.0					7.0	
13		27.0		7.9	2.5			3.0	7.0
14	8.4	45.4	28.0	16.5	2.0	6.0			2.0
15			48.0	10.5		2.2			
16							9.4		
17									
18									
19									
20									
21		4.1		8.3					
22		27.1		13.7					
23	12.4	9.4	50.0	15.0					
24			15.0			4.5	7.6		
25									
26									
27									
28									
29									
30									
31									
TOTAL	61.2	181.5	250.0	109.4	34.5	28.8	29.7	23.3	30.0

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TABLE 14-d.

المطر اليومي (بالمليمترات)
DAILY PRECIPITATION (MILLIMETERS) , tr. < 0.05 mm.

التاريخ	المنصور	جلاوية	سعدية	بعقوبة	عزيزية	بدرة	عقبة	زبير	مندلي
DATE	ALMAN-SOOR	JALA-WLAA	SAADIYA	BAKOBA	AZIZIYA	BADRA	KUT	ZUBAIR	MANDALI
1									
2									
3									
4									
5							0.5		
6				2.2			12.5		
7								4.0	
8									
9									
10									
11									
12									
13				10.2				3.0	2.0
14	22.9	15.7	24.0	8.2		13.0			7.0
15	5.1	7.6							
16			7.0						
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	28.0	23.3	31.0	20.6	0.0	13.0	13.5	7.0	9.0

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TABLE 14-e . الجدول الرقم (١٤ - هـ)

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

التاريخ	كربلاء	كوت	علي الغربي	نخيب	شبكة	مشخاب	سماوة	بدعة	...
DATE	KARBALAA	KUT	ALIAL-GHARBI	NUKH-AIB	SHA-BICHA	MUSHKHAB	SAMAWA	BADAA	UR
1									
2									
3									
4		0.1					8.0		
5		0.4	0.4	8.5					
6	24.3	0.4	8.2	17.0	35.0	3.0		3.0	
7		10.8	2.2					6.0	
8									
9									
10									
11			0.6						
12							5.0		
13		23.2	9.6			5.5		1.0	2.8
14		0.4	1.5						
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	24.3	35.3	22.5	25.5	35.0	8.5	13.0	10.0	2.8

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TABLE - 14-f .

الهاطول المطري (ملليمترات)

DAILY PRECIPITATION (MILLIMETERS) , tr. < 0.05 mm

التاريخ	معقل	فاو	قلعة دزة	كوصنجق	قرة داغ	عين سفني	الرميل	ديانا	طوسان
DATE	MAQIL	FAO	QALAT DIZZA	KOI-SINJANQ	KARA-DAGH	AIN-SIFNI	ALRUMIL	DIANA	TUSAN
1									
2									
3									
4						8.0			
5	2.5						7.0		
6		3.4				10.0		2.3	5.5
7	2.3	5.7		2.0	1.0	10.0	9.1	42.5	15.0
8			40.0	34.0	33.0	14.0		4.3	41.0
9			16.0	3.0		3.0		0.5	3.5
10				1.0		8.0		9.4	7.7
11			2.0		2.2	2.0		1.2	0.7
12		1.5	1.0	2.0	4.5	3.0		1.4	7.5
13	3.6	1.5	0.5			30.0	tr.	12.4	24.0
14	3.3		12.0	14.0	22.8	21.0		28.4	18.0
15	0.8		43.0	51.0	57.0	14.0		2.0	tr.
16				4.0	12.5				
17									
18									
19									
20									0.5
21					tr.	21.0		5.3	8.5
22			20.0	1.0	7.6	22.0		31.4	15.0
23			21.0	35.0	15.5	21.0	7.2	14.7	2.0
24			35.5	26.0	41.0	15.0	2.0		
25									
26									
27									
28									
29									
30									
31									0.5
TOTAL	12.5	12.1	191.0	173.0	197.1	202.0	25.3	154.8	148.9

TABLE No 8.

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

التاريخ	كوفري	تقتق	العثيم	قادر كرم	ك ٢	فتحة	دوكان
DATE	KOUFRI	TAQTAQ	AL UTHAIM	QADIR KARAM	K2	FATHA	DUKAN
1							
2							
3							
4							
5							
6		tr.	1.1	0.5	8.0	10.0	1.0
7	22.0	50.0	18.3	83.0	8.3	11.5	53.0
8		8.0					2.0
9							
10		3.0		6.5		1.5	2.5
11	1.0	tr.		1.0			1.0
12							
13	11.0	2.0	8.5	9.1	10.0	6.8	6.0
14	15.0	16.0	1.3	11.0	8.0	5.3	41.0
15		5.0					19.0
16							
17							
18							
19							
20		tr.					
21		tr.					1.0
22	2.0	18.5		14.0		3.0	1.0
23		10.0		27.0	4.3	4.0	57.0
24							22.0
25							
26							
27							
28							
29							
30							
31							
TOTAL	51.0	112.5	29.4	152.1	38.6	42.1	206.5

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TABLE - 15 .

CLIMATOLOGICAL SUMMARY : الملخصات المناخية

No. OF DAYS 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
BAGHDAD	4	0	0	0	8	0	8	2	10
MOSUL	12	0	0	0	8	0	2	12	4
KIRKUK	8	0	0	1	0	0	10	5	1
KHANAQIN	7	0	0	2	0	0	7	5	,,
RUTBAH	3	0	0	0	1	0	7	2	0
HAI	6	0	0	0	2	0	12	4	0
DIWANIYA	4	0	0	1	1	0	10	1	0
NASIRIYA	3	0	0	1	2	0	13	2	0
BASRAH	4	0	0	1	3	0	15	1	0
HABBANIYA	3	0	0	1	5	0	6	1	2

TABLE - 16.

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
BAGHDAD	199.0	9.3	15th	1
MOSUL	131.7	9.2	25th	3
BASRAH	221.8	9.9	20th	0
HABBANIYA	215.9	9.6	1st.	1

TABLE - 17 .

المعدل الشهري لحرارة العشب والتربة

MONTHLY MEAN TEMPERATURES OF :

STATIONS	GRASS MINIMUM TEMPERATURES C°	EARTH TEMPERATURES C° 0.3 M	EARTH TEMPERATURES C° 1.2 M
BAGHDAD	1.5	14.4	21.4
MOSUL	,,,	11.2	17.4
KIRKUK	4.0	13.2	17.8
HAI	5.2	,,,,	,,,,
NASIRIYA	6.5	16.2	21.8
BASRAH	5.6	,,,,	,,,,
HABBANIYA	3.9	15.7	21.5

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (TIME 0001 G.M.T.) AT BAGHDAD AIRPORT

	1000-mbs.					850-mbs.					700-mbs.					600-mbs.					500-mbs.				
date	HHH	TT	T_dT_da	dd	ff	HHH	TT	T_dT_da	dd	ff	HHH	TT	T_dT_da	dd	ff	HHH	TT	T_dT_da	dd	ff	HHH	TT	T_dT_da	dd	ff
1	020	11	04	30	06	155	08	51	32	07	312	52	61	33	10	433	58	73	31	16	572	69	81	30	18
2	020	11	05	31	12	156	09	52	32	12	315	01	63	04	08	437	57	73	03	15	576	68	83	05	17
3	018	14	10	35	05	155	11	04	03	08	315	02	59	04	03	437	57	63	21	40	577	67	69	17	19
4	019	17	03			155	08	05			313	51	55			434	58	62			573	68	72		
5	020	16	06			156	09	56			314	51	65			435	60	66			574	68	83		
6	017	16	10	14	07	154	10	01	14	19	312	50	53	18	14	434	58	11	18	15	573	67	71	22	28
7																									
8	041	14	13	29	09	150	09	52	22	12	308	51	63	20	12	429	60	73	21	17	567	69	83	23	20
9	015	14		00	00	152	09		24	10	309	51		23	12	430	59		26	22	569	68		25	42
10	016	18	10	10	05	153	08	01	22	07	309	53	54	18	10	430	56	73	16	15	570	67	83		
11	012	15	07	18	05	150	10	00	17	05	308	51	58	20	12	429	58	75	22	16	569	68	82	25	27
12	012	11	09	28	05	147	06	51	27	12	303	53	64	26	20	423	61	74	25	25	561	71	82	24	32
13	012	11	10	13	07	148	06	52	17	16	304	52	69	19	23	425	59	76	21	27	564	69	83	20	44
14	007	09	08	20	08	143	07	01	22	23	298	55	61	22	23	417	64	70	21	22	553	73	77	22	18
15	010	12	08	70	16	144	04	50	21	25	300	54	65	22	33	420	63	73	23	41	556	72	83	22	42
16	019	09	06	00	00	153	04	57	31	12	308	51	69	26	16	429	60	75	27	22	569	67	83	28	33
17	018	09	05	36	06	153	10	55	28	07	312	01	64	23	17	435	55	70	22	24	576	65	78	24	30
18	015	11	05	12	07	151	08	00	20	10	309	51	55	21	27	430	57	75	23	27	564	67	85	25	28
19	017	10	06	33	12	153	07	52	32	12	310	51	68	31	15	431	59	75	29	25	569	69	83	26	34
20	016	10	06	00	00	152	07	02	29	18	310	01	64	27	24	431	58	76	27	34	570	68	83	24	52
21	010	11	07	14	06	145	07	00	18	07	302	55	62	22	17	423	58	73	23	29	562	69	81	24	66
22	006	12	08	24	05	142	07	52	23	14	298	56	59	22	23	416	66	67	25	45	554	69	83	24	57
23	010	14	08	28	11	146	06	00	23	18	302	54	58	24	23	422	63	67	26	28	556	67	83	26	85
24	014	13	06	26	10	149	05	51	26	15	304	58	61	26	23	423	63	64	26	38	557	73	88	26	45
25	018	11	03	23	10	152	03	54	27	06	308	52	72	26	13	429	59	79	25	22	568	66	86	25	29
26	018	07	01	31	07	150	01	57	30	17	305	55	74	26	15	424	63	83	26	16	561	72	86	26	26
27	017	08	03	32	06	150	02	00	28	20	305	54	61	32	14	425	59	68	31	34	563	71	77	26	20
28	017	11	05	28	03	151	05	53	25	08	306	57	61	26	15	425	65	68	29	25	561	73	82	31	55
29	020	10	05	31	10	159	05	33	31	15	312	00	65	32	16	434	58	68	32	33	573	67	77	33	42
30	020	10	03	32	10	155	09	58	28	10	315	03	68	32	13	437	57	72	32	17	577	65	78	33	26
31	017	10	04	15	06	152	06	55	30	08	310	60	71	29	11	432	58	77	27	14	571	69	86	28	22

TABLE 18-b. (19) Month: December 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (TIME 0001 G.M.T.) AT BAGHDAD AIRPORT

	400-mbs.,				300-mbs.,				200-mbs.,				150-mbs.,				100-mbs.,			
DATE	HHH	TT	T_dT_d	dd ff	HHH	TT	T_dT_d	dd ff	HHHH	TT	T_dT_d	dd ff	HHHH	TT	T_dT_d	dd ff	HHHH	TT	T_dT_d	dd ff
1	733	83	93	30 24	929	98	07	30 32												
2	740	79	94	03 11	939	94	06	30 15	1200	12		26 40	1375	17		29 35				
3	741	79		17 11	940	95		31 21	1200	13		25 53	1376	15		35 27	1624	15		29 31
4	736	82	86		934	95	99		1194	10	17		1373	11	17		1624	12	21	
5	737	80	92		936	93	01		1198	10	15		1376	13	21		1628	11	20	
6	738	78	82	24 32	936	95	99	22 42	1195	13	17	22 42	1373	13	17		1622	12	17	
7																				
8	729	80	95	27 18	929	80	95	27 18	1192	03	13	25 48	1376	07	16		1630	14		
9	733	78		25 64	934	93		29 65	1197	06		25 72								
10	734	80	90		933	94	03		1195	09	17		1376	13	21		1619	11	20	
11	732	76	94	27 42	934	91	04		1203	02	14		1385	11	23					
12	722	83	94	25 27	918	97	05	27 58	1181	06	15	24 52	1364	07	15	76 10	1618	12	20	22 33
13	726	81	94	21 52	924	94	04	23 45	1190	06	16		1370	12			1621	10		
14	713	85	89	21 26	908	96	02	24 62	1175	01	10		1361	01	15					
15	718	80	92		918	93	06		1184	05	18		1367	07	17					
16	732	80	94	27 50	931	93	06	27 64	1196	06	17	77 21	1376	11	22					
17	741	78	90	23 35	941	94	00	24 64	1172	04	08									
18	734	78	96	25 34	934	93	06	25 72	1196	12		25 62	1373	15		27 62	1620	15		27 54
19	731	81	92	27 62	929	96	02	27 45	1188	09	16		1367	12	19		1618	14	23	
20	732	80	89	28 38	931	94	02	28 39	1196	06	14	27 78	1375	14	23		1621	18		
21	726	78	91	24 64	927	89	02	26 88	1195	05			1376	10						
22	716	80	94	25 60	916	91	03	25 93	1184	03	13	74 80	1366	11	21		1615	13		
23	721	79	91	27 70	722	91	04	77 06	1189	02										
24	719	83	97	29 42	916	97	99	27 33	1178	05	16		1360	10	20		1613	11		
25	732	79	98	26 36	931	95	07	25 56	1191	08	19	25 88	1371	13						
26	721	85	91	25 33	915	01	07	26 42	1173	08	15	26 80	1353	69	17	26 71	1604	15	25	
27	724	83	87	27 23	919	99	04	22 31	1180	03	07	26 64	1366	03	11	27 77	1622	11	21	29 90
28	721	84	00	33 42	915	00	13	32 61	1178	00	12	29 74	1365	03	13	26 30	1624	10		28 50
29	737	78	88	32 44	937	93	01	31 48	1199	06	13		1384	05	13		1640	11	19	
30	741	79	93	30 33	940	96	07	29 30	1199	10	20		1378	10	30		1631	12	24	
31	732	83	93		928	97	06		1188	08	17		1370	08			1620	15		

NOTES: HEIGHTS ARE IN DECAMETER IN ALL LEVELS. TEMPERATURES AND DEW POINT ARE IN DEGREES CENTIGRADE.
TEMPERATURES & DEW POINT BELOW FREEZING 50 IS ADDED .

TABLE 18-c .

Month: December 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (TIME 1200 G.M.T.) AT BAGHDAD AIRPORT.

	1000-mbs.					850-mbs.					700-mbs.					600-mbs.					500-mbs.				
DATE	HHH	TT	T_dT_d	dd	ff	HHH	TT	T_dT_d	dd	ff	HHH	TT	T_dT_d	dd	ff	HHH	TT	T_dT_d	dd	ff	HHH	TT	T_dT_d	dd	ff
1	021	17	07	32	13	156	08	50	32	13	314	51	61	33	08	435	58	71	32	08	572	68	82	34	22
2	019	17	07	32	08	156	11	54	07	10	315	01	63	08	40	437	57	74	10	11	577	67	84	08	12
3	019	17	02	00	00	155	09	60	17	18	314	02	77	12	20	436	57	84	15	15	575	68	91	16	12
4	019	19	11	12	05	154	07	55	19	12	311	54	60	20	09	432	61	64	20	11	570	70	72	21	08
5	019	19	03	00	00	155	10	55	12	09	313	52	59	13	08	434	60	70	26	14	572	68	75	26	34
6	014	19	10	09	16	152	11	03	12	22	310	50	53	17	17	432	57	60	16	22	572	66	72	18	18
7	012	17	15	17	12	149	09	06	15	19	307	52	59	15	25	428	58	68	18	29	567	68	77	20	34
8	015	19	14	21	12	152	08	03	23	09	309	53	57	24	08	431	57	67	24	13	570	67	76	29	55
9	017	18	12	16	03	153	08	55	08	54	309	54	61	26	08	431	57	78			571	65	83		
10	014	21	11	14	02	151	10	59	18	05	309	59	61	26	18	431	55	73	25	18	572	64	80	25	49
11	009	17	10	14	14	145	09	08	21	12	303	53	59	23	20	423	60	72	24	25	561	70	82	25	46
12	012	18	09	18	06	148	06	50	23	06	304	52	59	24	09	426	58	71			565	68	78		
13	007	14	11	11	14	143	06	03	12	20	299	51	54	16	40	421	57	64	18	44	561	67	74	20	30
14	008	17	07	17	08	144	04	00	17	29	299	55	58	21	32	418	63	72	22	34	556	71	81	23	33
15	016	14	08	24	07	150	03	54	30	10	305	56	58	30	17	425	61	78	29	35	563	69	85	28	63
16	018	15	09	33	08	153	04	01	32	10	311	02	63	27	15	433	56	74	27	23	572	66	81	28	36
17	015	15	06	14	06	151	10	50	21	19	309	51	56	23	23	432	57	76	24	28	571	66	84	26	50
18	016	16	53	35	14	151	07	59	25	09	309	00	57	26	23	431	57	84	27	30	570	67	93	27	34
19	017	16	08	33	15	153	07	58	30	11	310	51	68	30	26	432	58	72	30	49	571	68	71	29	54
20	013	16	06	24	05	155	05	55	22	09	306	00	75	24	24	427	59	82	25	34	566	67	84	26	52
21	006	18	09	16	17	143	11	51	20	20	301	52	62	23	32	422	60	70	23	48	560	67	86	25	65
22	007	17	06	22	10	147	04	56	23	22	298	53	69	26	31	419	54	70	27	47	558	68	78	27	69
23	011	17	06	22	08	147	06	00	22	22	303	54	59	25	24	423	60	68	27	32	526	69	74	25	42
24	017	15	02	36	10	152	03	60	29	08	308	62		26	20	429	58		27	27	568	68		27	41
25	018	13	51	31	12	152	05	70	31	15	308	53	75	26	16	424	54	80	24	18	568	68	87	24	27
26	018	12	03	29	12	152	03	53	24	13	306	58	59	27	21	426	60	74	28	15	564	69	82	27	29
27	017	12	03	34	06	151	04	55	30	18	307	55	61	30	07	426	62	68	27	15	563	71	77	31	22
28	029	13	03	32	14	153	05	52	32	15	308	53	66	32	19	429	60	76	33	22	567	69	85	33	40
29	020	14	06	32	10	155	07	58	31	16	313	03	70	32	19	436	56	77	32	22	576	66	85	33	24
30	019	13	05	31	06	155	08	56	30	06	314	03	70	29	14	437	56	75	28	10	577	66	80	27	15
31	015	18	09	13	16	151	06	51	17	11	308	53	69	23	23	429	60	73	24	39	566	69	83	24	51
MEANS	015	16	07			151	07	54			308	52	63			429	58	70			567	68	81		

NOTES:

SEE PAGE 19 .

TABLE 10-a. (21) Month: December 1961 .

RADIOSONDE OBSERVATIONS AT STANDARD LEVELS (TIME 1200 G.M.T.) AT BAGHDAD AIRPORT

	400-mbs.					300-mbs.					200-mbs.					150-mbs.					100-mbs.				
DATE	HHH	TT	T_dT_d	dd	ff	HHH	TT	T_dT_d	dd	ff	HHHH	TT	T_dT_d	dd	ff	HHHH	TT	T_dT_d	dd	ff	HHHH	TT	T_dT_d	dd	ff
1	737	79	93	29	24	936	94	05	29	39	1197	13		28	44	1371	18		26	32	1618	13			
2	739	80	94	27	04	938	94	06	31	31	1198	12		26	33	1375	14		27	34	1623	14		26	2
3	738	81	00	15	19	936	95	12	17	14	1195	10		18	20	1375	11		15	20	1626	15			
4	732	81	89	21	03	927	99	05			1187	08	15			1368	09	12			1620	14	25		
5																									
6	736	79	84	19	44	936	94	98	19	70	1197	11	16	21	58	1375	11		21	48	1627	10		22	5
7	730	81	88	19	42	927	96	04	19	56	1192	05	14	21	40	1375	06	15							
8	733	81	86	26	51	930	96	00			1191	08	13			1373	08	13			1628	10	15		
9	735	79	89			934	95	02			1196	09	17			1376	13	20			1621	17	27		
10	737	77	91	25	71	938	91	04			1203	07	18			382	12				1628	19			
11	723	79	91	25	82	922	93	04	20	65															
12	727	81	86			924	95	00			1188	09	12												
13	732	81	89	18	28	922	93		22	40	1190	02		23	72	1373	08		21	63	1628	09		21	6
14	716	83	94	24	44	915	92	07	26	54	1184	98	11			1370	05	17			1626	10	23		
15	725	79	90	76	05	924	94	03			1186	06	15			1376	10	21			1617	15			
16	737	77	87	28	73	937	93	02	77	07	1203	05	12			1382	15								
17	735	79	95			934	94	06			1194	11				1373	11				1630	13			
18	734	78	98	26	65	933	94	09	27	68	1195	08	20	27	76	1376	09	22	27	90	1627	13	26		
19	733	80	89	29	53	932	94	02	30	94	1195	05	14			1376	11	20			1624	17	27		
20	729	81	90			928	91	05			1195	07	14			1373	13								
21	725	74	91	25	75	929	87	04	74	10	1200	02				1382	11								
22	720	81	94	28	61	918	93	05			1184	06	17			1365	12								
23	725	79	83	24	55	926	90	99	25	58	1193	07	99												
24	732	78		28	56	932	93		26	75	1195	09				1374	12				1623	15			
25	731	79	96	26	43	930	96	08	26	80	1194	04	15			1375	22								
26	726	83	94	27	51	921	98	08	27	37	1186	02	12	26	66	1372	07	16	24	40	1626	11		26	6
27	723	85	92	31	19	916	00	06	29	28	1180	99	06	30	58	1368	01	10	29	73	1627	10	20	31	5
28	718	82	98	34	45	924	98	11	35	99	1185	03	16			1370	03	15			1626	10	23		
29	739	78	95	33	42	939	95	10	34	51	1200	05	19	31	68	1383	08	24			1635	14	29		
30	740	79	88	27	25	939	95	02	26	43	1198	11	17			1378	08	15			1629	14	24		
31	729	80	94	25	53	928	95	06	25	98	1189	06		26	96	1373	09				1630	10			
MEANS	731	80	91			929	94	11			1180	06	14			1374	11	17			1626	13	24		

TABLE 19-a.

BAGHDAD AIRPORT

Month: December 1961

Frequency of horizontal visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1000M	1	1	1	1	2	4	1																		11
1000-3000M				1				1							1										3
3000-5000M					2	2	3												1	1	1			1	11
5000-8000M	1				1	1	2	2	1		1										1	1	1		12
8000-10000M		1	1	1	3	7	6	4	3	2		1		1	1			1	1	1				1	37
10KM					3	2	5	7	3	2	1			1	1	5	2	1		1					34
10KM+	1	2	2	3	9	9	4	5	8	6	6	4	4	3	12	15	5	4	5	4	3	2	1	1	118
10KM	11	8	10	10	8	5	9	9	10	13	12	15	15	13	14	10	23	19	13	10	10	11	8	11	277
7KM	17	19	17	15	1	1	1	3	6	8	11	11	12	13	2	1	1	6	11	14	16	17	21	17	241
TOTAL	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

NOTE: In fiel containi ng two numbers the firs one give the case with due in the air. the second number shows th total.

Frequency of different heights of cloud-base (amount 5-8 Oktas)

T I M E - G.M.T.

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
150M																									
150-300M																	1								1
300-450M																									
450-600M									1						1	1									3
600-900M							1					1	2	2	1	1	1	2	1	1					13
900M	31	31	31	31	31	31	30	31	30	31	31	30	29	29	29	29	29	29	30	30	31	31	31	31	727

TABLE 19-b.

BASRAH AIRPORT

Month: December 1961 .

Frequency of horizontal visibility

T I M E - G.M.T.

Visibility	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -200M	1		1	1	1	2																			6
>200 -500M		1		1	1	1	1																		5
>500 -1000M																									
>1000 -1500M					2																				2
>1500 -3000M					1	2	2							1	1	1							1	1	10
>3 -5KM			1	2	3	2	2						1/1	1/1	1		1	1	1			2		1	19
>5 -10KM		1	2	7	10	7	8	7	7	7	6	1/5	2	2	1/2	2			1	2	4	2	2		86
>10 -15KM	7	8	9	4	8	6	1	5	4	4	5	2	4	6	9	7	10	10	8	8	9	6	7	10	157
>15KM	23	21	18	16	5	11	17	19	20	20	20	24	24	21	18	21	20	20	21	21	18	21	21	19	459
Total	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744

Frequency of different heights of cloud-base (amount 5-8 Oktas)

Height	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
0 -50M			1	1	1																				3
>50 -150M																									
>150 -300M																									
>300 -500M																									
>500 -900M																									
900	7	8	7	6	10	11	15	11	13	15	15	15	15	13	14	12	10	9	10	7	8	7	7	9	254

NOTE:

In fields containing two numbers the first one gives the cases with dust in the air. the second number shows the total.

TABLE 20-a . (24) Month: December 1961 .

BAGHDAD AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud-base (≥5 Oktas)

METERS	V I S I B I L I T Y																													
	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50																														
>50-150																														
>150-300																														
>300-500																				1										1
																				1										1
																							1							1
>500-900																						2	1					2	1
																					1		5				1		5
<5/8 or *	1	1	1		1				3	1		2		1	6			5	1	3	4	11	10	8	7	15	1	31	31	30
>900													2			2		5	6	4	14	13	13	9	8	12	1	31	29	29
AND ≥5/8			3			1	1		4		1	4	1		10			12	5	2	39	12	11	87	11	17	82	30	31	242
	1	1	1		1				3	1		2		1	6			5	1	3	4	11	10	9	7	15	1	31	31	31
TOTAL													2			2		5	6	4	15	13	15	10	8	12	1	31	31	31
			3			1	1		4		1	4	1		10			12	5	2	40	13	11	92	11	17	82	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model :

00	03	06	
09	12	15	G.M.T
18	21	To	

To= total for all hours

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

TABLE 20-b. (25) Month: December 1961

BASRAH AIRPORT

Simultaneous occurrences of specified visibility ranges and specified lowest cloud - base (≥5 Oktas)

VISIBILITY

METERS	0-200M			>200-500M			>0.5-1KM			>1-1.5KM			>1.5-3KM			>3-5KM			>5-10KM			>10-15KM			>15KM			TOTAL		
0-50		1																											1	
			1																											1
>50-150																														
>150-300																														
																			1									1		
																					1									1
>300-500		1																											1	
																								1						1
			1																					1						2
>500-900																					1									1
																							1			1			2	
																					1			1			1			3
<5/8 OR *	1					1									2		1	2		8	7	7	4	2	23	16	16	31	29	30
>900															1		1		6	2	2	4	3	6	20	23	21	30	29	30
AND>5/8			1			1									3	1	2	7	1	2	28	8	6	40	21	21	161	31	31	241
TOTAL	1	2				1									2		1	2		8	8	7	4	2	23	16	16	31	31	31
															1		1		7	2	2	4	4	7	20	24	21	31	31	31
			3			1									3	1	2	7	1	2	30	8	6	42	21	21	162	31	31	248

NOTE:

The nine fields for each combination of visibility and height contain the number of occurrences for different times using the following model

00	03	06
09	12	15 G.M.T
18	21	To

To= Total for all hours.

* ALL CASES WITH CLOUD AMOUNT OF LESS THAN 5/8 ARE ENTERED HERE.

126 395