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مديرية الانواء الجوية

مديرية المناخ

بغداد

تقرير المناخ الشهري

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GEOGRAPHICAL DATA

METECROLOGICAL STATIONS

STATIONS	LATITUDE N.		LONGITUDE E.		HIGHT ABOVE MEAN SEA LEVEL
SINJAR	36	19 N	41	50 E	538 Meters
MOSUL	36	19	43	09	222.6
SALAHEDDIN	36	37	44	13	1088
KIRKUK	35	28	44	24	3308
ANA	34	28	41	27	150
RUTBAH	33	02	40	17	615.5
HABBANIYA	33	22	43	34	43.6
BAGHDAD	33	20	44	24	34.1
NUKHAIB	32	02	42	15	305
HAI	32	10	46	03	14.9
NAJAF	31	59	44	19	32
DIWANIYA	31	59	44	59	20.4
NASIRIYA	31	01	46	14	3
BASRAH	30	34	47	47	2.4
			RAINFALL STATIONS		
SANAT	37	20 N.	42	47 E.	—
ZAKHO	37	08	42	41	442 meters
TALAFAR	36	22	42	28	273
SERSANK	36	58	43	32	1046
ARBIL	36	11	44	00	414
SHAQLAWA	36	23	44	20	--
RAWANDUZ	36	37	44	33	1006
RAYAT	36	41	44	57	1610
DOKAN	35	57	45	00	670
QALATDIZA	36	15	45	00	--
BINKIRD	36	03	45	03	708
DIBIS	35	41	44	05	239
HAWIJA	35	31	44	18	305
IFTIKHAR	35	03	44	27	204
CHAMCHAMAL	35	32	41	51	701
BAKRAJO	35	34	45	23	750
SULAIMANIYA	35	33	45	27	853
CHUARTA	35	44	45	33	1356
PENJWIN	35	37	45	58	1311
HALABJA	35	11	45	59	724
HADITHA	34	04	42	22	140
BAIJI	34	56	43	29	115
SAMIRRAA	34	11	43	50	65
TUZKHORMATO	34	53	44	39	220
AL-MANSOOR	34	05	45	01	68
JALAWLAA	34	16	45	09	119
HIT	33	38	42	50	58
MANDALI	33	45	45	33	137

GEOGRAPHICAL DATA
RAINFALL STATIONS

STATIONS	LATITUDE N.		LONGITUDE E.		HIGHT ABOVE MEAN SEA LEVEL
BADRA	33	10N.	45	55 E.	---
KARBALAA	32	37	44	01	29
HINDIYA	32	42	44	17	34
KUT	32	30	45	45	19
ALI-ALGHARBI	32	28	46	41	13
SAMAWA	31	18	45	16	6
DUHOK	36	52	43	02	860
QALAT-SUKAR	31	52	46	05	13
BADAA	31	26	46	11	9
AMARA	31	51	47	10	9
SH ABICHA	30	42	43	41	---
SALMAN	30	28	44	43	102
UR	30	58	46	08	4
BUSSAYA	30	02	46	09	144
GHABISHIYA	30	44	47	05	4
FAO	29	59	48	30	2
AMADIYA	37	05	43	30	1236
AQRA	36	45	43	53	716
TEL-AWAINAT	36	41	42	24	346
QAYARA	35	48	43	17	180
HILLA	32	29	44	26	27
MAQIL	30	34	47	47	4
RAMADI	33	25	43	17	49
QALALA	36	37	44	49	1050
BILI(ZIBAR)	36	52	44	04	400
DIANA	36	39	44	33	700
TAQ-TAQ	35	53	44	35	300
QADIR-KARAM	35	11	44	53	380
KANDIL-YARIM	35	45	43	39	340
KUFRI	34	42	44	58	210
AYN SIFNI	36	41	43	21	520
KOISINJANQ	36	05	44	48	610
FATHA	35	03	43	34	150
MAKHMUR	35	46	43	35	---
AL-RUMAIL	34	59	43	59	---
BERZINJA	35	23	45	41	---
DARBANDIKHAN	35	09	45	47	---
T 1	34	14	41	20	---
X 2	34	55	43	24	---
SIDIKAN	36	46	44	38	---
KARA DAGH	35	19	45	24	---
IFRAZ	36	23	43	48	229

JANUARY 1970.

GENERAL SITUATION:	WET AND STABLE
MAIN FEATURE ::	Series of depressions of the westren disturbances from, Med. Saudi & Sense, with few shellow low pressure waves Crossed the Country, once on 17th two depressions from the Med. and Saudi. Combined together over Central region of the Country,. During the period from 22nd until 26th, the Med. depressions were with fronts.
PRESSURE :	The pressure was generally arround normal, the higest pressure reading was 1028.4 mb. at Mosul, and the lowest pressure reading was 1007.4 mbs, at Hai.
TEMPERATURE :	The extreme temperatures were 23. °C at Najaf and Basrah, and (-3.5 °C) at Rutba.
WIND :	Surface winds were more frequent from SE direction with 7 times fresh cases speed arround 20 Kt.
RELATIVE HUMIDITY :	The relative humidity was slightly above normal.
PRECIPITATIONS :	Total amount of rainfall was above normal, the highest fall was 124.5mm. reported at Mosul once snowing at Salaheddin.
OTHER PHENOMENAE :	Thunderstorms occured twice in the Southren and four times in the Northern region with one case with hail. Dust two times occured at Rutba Fog cases was abnormal.

JANUARY 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	11.7	1.8	13.5	3.5	5.0	1.3	11.9	7.2	12.7	4.3
2	10.4	1.4	14.3	2.0	8.5	0.4	18.3	1.9	13.4	0.1
3	12.0	1.8	14.8	2.4	12.3	3.0	18.1	3.2	13.7	-0.1
4	12.4	3.8	13.5	5.4	9.8	2.8	15.1	7.3	15.1	4.5
5	11.2	7.4	14.0	7.5	9.3	5.0	15.8	10.2	17.8	10.0
6	14.4	7.8	12.3	10.3	8.7	6.4	13.0	10.7	14.5	11.4
7	14.4	6.4	18.8	8.2	12.0	5.0	17.6	7.9	15.1	4.5
8	14.8	4.8	16.2	5.6	13.0	4.8	18.3	7.4	16.7	2.6
9	15.4	3.8	18.7	4.8	12.7	4.7	20.2	5.6	17.0	1.8
10	11.8	4.2	9.6	3.2	11.3	4.4	10.3	5.3	14.1	2.1
11	11.3	4.0	14.4	6.8	9.4	3.2	13.3	4.7	12.7	5.2
12	12.3	4.2	12.9	0.2	10.2	2.0	15.1	2.6	15.5	-0.3
13	12.3	3.2	15.0	0.2	10.8	2.0	15.4	2.2	16.7	-0.2
14	8.7	3.4	14.9	1.4	11.7	3.2	16.7	4.3	15.8	2.0
15	8.2	2.5	11.5	2.4	9.2	3.3	11.8	4.2	12.6	4.5
16	14.0	2.3	15.4	1.3	11.0	2.4	14.3	4.2	14.5	7.1
17	14.3	3.8	15.9	2.2	12.8	2.7	18.5	4.1	16.3	2.5
18	13.8	3.3	17.8	2.4	14.8	5.4	18.9	4.9	16.6	1.5
19	10.5	2.8	12.5	3.4	10.6	5.3	14.4	6.4	12.0	5.3
20	7.5	1.7	10.6	7.4	6.0	3.4	12.8	9.0	12.0	9.2
21	8.6	3.8	12.7	6.4	6.4	3.0	13.9	9.3	14.6	10.0
22	8.8	3.2	14.0	7.4	6.0	3.4	14.2	6.3	14.9	4.2
23	8.9	4.1	10.5	6.4	6.4	2.0	12.8	6.8	13.4	4.5
24	7.5	2.0	9.8	6.6	4.0	0.0	11.1	7.4	14.5	6.4
25	7.0	1.1	11.6	2.4	6.4	0.4	12.4	5.6	12.5	4.4
26	7.9	1.2	9.1	5.6	2.0	-0.5	8.2	6.3	12.1	6.0
27	8.1	1.0	11.2	5.8	4.2	-0.2	11.5	4.2	11.1	1.1
28	9.6	1.3	13.5	3.7	6.0	-2.0	12.7	4.0	12.4	0.4
29	6.6	0.[illegible]	9.7	0.0	5.3	-2.0	12.5	0.3	11.1	-2.0
30	8.1	0.7	12.8	0.6	6.0	-2.0	13.6	2.2	14.0	1.0
31	8.6	0.7	13.0	1.2	6.6	-0.4	13.1	3.2	13.3	1.5
MEANS	10.7	3.0	13.4	4.2	8.7	2.3	14.4	5.4	14.2	3.7
NORMAL	....	....	12.5	2.0	....	....	13.4	4.3	....	....
HIGHEST	20.0	10.5	22.5	12.4	14.8	6.4	24.6	14.0	17.8	11.4
DAY	7th	14th	7th	26th	18th	1 st	7th	26th	5th	5th
YEAR	1966	1967	1966	1966	1970	1969	1966	1966	1970	1970
LOWEST	-2.0	-8.2	-2.2	-11.1	-5.2	-10.2	-1.1	-6.7	-3.7	-0.6
DAY	24th	19th	5 th	3rd	16th	17th	4 th	26th	17th	31st
YEAR	1968	1964	1942	1925	1968	1968	1942	1947	1968	1969

JANUARY 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	15.5	4.5	13.5	6.5	14.4	6.4	15.2	6.0	17.2	8.8
2	15.1	0.1	14.5	1.7	15.6	1.6	14.2	1.5	18.8	6.1
3	15.8	1.0	15.0	4.4	17.5	2.0	16.6	2.5	22.0	4.8
4	18.2	5.4	19.6	6.5	20.8	4.2	21.6	7.0	21.3	5.3
5	14.6	6.4	19.5	8.5	20.4	9.0	18.5	7.5	19.2	10.4
6	14.8	7.4	13.5	11.8	13.6	11.0	16.5	7.5	14.0	10.6
7	15.7	1.4	14.0	8.0	15.4	10.6	17.6	5.5	16.8	11.0
8	18.5	0.9	14.5	6.5	13.0	8.8	17.5	2.8	13.4	8.4
9	18.5	0.6	16.3	5.6	16.8	7.0	17.5	2.8	14.0	10.4
10	15.0	0.6	12.0	3.0	13.5	8.0	11.0	2.5	13.2	11.0
11	14.0	6.1	12.0	9.2	12.2	9.4	10.5	5.2	11.2	9.7
12	16.2	-0.2	15.0	3.0	14.7	2.3	15.5	2.6	16.0	6.4
13	16.8	4.5	15.3	1.0	16.8	-0.9	15.5	3.0	15.8	4.0
14	17.5	5.2	16.7	4.3	15.5	2.7	16.5	5.2	15.2	5.0
15	16.3	8.2	16.2	7.0	15.0	6.4	17.0	9.0	16.0	5.2
16	10.5	4.0	14.5	4.5	15.2	3.0	17.5	7.5	16.5	7.8
17	16.6	0.9	16.5	5.0	17.4	4.1	16.2	5.0	17.8	4.7
18	17.3	2.3	17.0	5.0	17.0	3.6	15.5	5.2	19.3	6.6
19	12.1	5.1	15.1	4.5	15.2	7.5	15.0	5.0	17.4	6.0
20	10.2	6.4	17.0	6.5	16.7	9.6	16.2	7.5	16.8	11.2
21	13.4	3.0	16.7	11.5	16.8	12.9	16.5	7.5	17.0	13.0
22	12.2	4.0	16.5	7.4	15.8	7.8	15.5	6.0	18.1	8.0
23	13.8	4.0	17.2	8.0	16.5	8.6	16.6	6.0	19.3	10.0
24	13.8	4.5	18.5	7.5	17.5	10.0	18.0	4.5	20.0	6.5
25	15.6	2.0	16.2	6.0	17.6	6.1	19.0	4.7	20.0	7.4
26	9.6	2.9	11.5	6.5	12.0	7.5	13.0	6.0	18.4	9.6
27	9.6	1.0	14.0	4.5	14.8	3.8	13.0	2.5	17.2	5.6
28	10.3	-0.2	13.5	1.8	14.2	1.0	12.0	1.5	14.8	3.6
29	12.8	-3.5	13.5	0.6	14.3	-0.7	15.5	-1.8	17.2	2.3
30	12.4	-1.5	16.5	3.0	15.6	3.0	15.0	3.0	18.0	4.0
31	16.7	-1.9	16.3	2.7	15.6	1.4	16.0	3.2	19.3	3.4
MEANS	14.5	2.9	15.1	5.7	15.7	5.7	15.9	4.6	17.1	7.3
NORMALS	13.2	1.2	15.0	4.3	15.9	4.2	....	....	17.4	5.2
HIGHEST	24.5	10.9	26.1	13.4	25.0	14.3	26.0	13.0	27.8	15.0
DAY	19th	16th	28th	22nd	21st	26th	22nd	25th	7th	5th
YEAR	1960	1960	1941	1969	1948	1963	1963	1966	1966	1944
LOWEST	-0.0	-14.4	-3.3	-8.9	-2.4	-8.5	-2.5	-8.0	-2.1	-8.2
DAY	4 th	6th	5th	7th	19th	20th	19th	22nd	19th	20th
YEAR	1942	1942	1942	1942	1964	1964	1964	1964	1964	1964

JANUARY 1970. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	15.8	5.0	16.2	8.0	17.4	9.2	20.7	8.2
2	17.0	4.0	17.0	4.0	17.0	5.7	19.0	7.5
3	17.4	3.6	19.2	3.0	17.7	2.1	19.6	6.4
4	20.8	4.4	21.8	5.0	20.2	5.9	21.6	6.2
5	23.0	4.5	22.4	9.4	20.7	11.5	23.0	9.6
6	15.0	11.0	15.2	12.0	16.7	12.3	18.2	12.4
7	17.3	10.4	17.3	10.1	16.9	11.6	17.6	12.0
8	14.2	8.0	13.3	7.9	13.3	8.0	16.0	8.7
9	12.0	7.0	11.9	7.8	12.4	10.8	14.5	10.0
10	11.5	7.4	12.3	10.2	12.0	11.2	14.7	11.4
11	11.0	3.8	11.3	3.2	10.5	10.1	12.0	9.5
12	14.6	4.1	15.0	5.5	14.0	6.7	15.1	8.6
13	15.7	4.2	17.4	1.4	14.3	4.8	14.5	4.7
14	17.0	6.0	17.3	5.6	13.7	6.0	16.3	6.0
15	16.2	6.0	17.3	5.8	15.0	6.2	19.0	4.2
16	15.8	7.5	15.6	9.0	17.0	9.5	17.8	7.5
17	17.0	4.2	17.2	5.1	17.5	6.7	18.4	7.5
18	17.4	6.0	17.8	6.1	18.2	7.7	19.8	7.1
19	15.2	7.4	15.6	6.0	16.2	7.4	19.1	6.9
20	16.4	11.2	16.6	11.2	17.1	11.8	20.5	11.1
21	18.6	8.0	17.7	11.2	21.5	14.2	22.9	13.3
22	17.4	9.8	17.4	8.3	17.3	11.2	19.8	14.3
23	17.0	10.0	17.2	9.7	18.6	9.1	21.1	8.4
24	18.9	7.5	20.3	4.8	19.6	6.8	20.9	8.4
25	20.2	7.6	20.2	6.4	20.2	7.3	21.9	7.7
26	15.2	9.5	16.6	6.2	18.0	9.9	22.6	9.5
27	17.2	5.8	17.9	4.0	15.2	7.0	16.8	8.6
28	12.9	5.0	14.0	3.5	14.0	5.5	14.6	8.1
29	14.2	2.2	15.6	2.7	14.8	4.8	16.6	4.1
30	15.6	3.3	17.5	4.0	14.9	5.3	19.2	3.6
31	17.3	3.8	18.0	4.0	18.0	6.8	21.2	6.6
MEANS	16.3	6.6	16.8	6.7	16.4	7.5	18.6	8.3
NORMAL	....	....	17.0	3.5	18.0	5.6	18.3	7.1
HIGHEST	24.8	13.0	26.8	16.0	29.3	17.2	30.1	17.3
DAY	16th	5th	7 th	24th	16th	19th	7th	22nd
YEAR	1967	1969	1966	1963	1960	1942	1966	1969
LOWEST	-3.4	-7.2	-3.0	-8.3	-2.3	-7.2	-4.0	-4.7
DAY	19th	20th	19th	29th	19th	8th	19th	22nd
YEAR	1964	1964	1964	1950	1964	1942	1964	1964

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	4.1	6.8	9.4	10.4	9.1	7.4	...	7.9
MOSUL	5.9	5.1	6.2	10.2	12.7	10.3	8.[illegible]	6.7	8.1
SALAHADDIN	...	3.2	4.1	7.2	7.5	5.5	4.1	...	5.3
KIRKUK	7.4	6.7	8.0	12.6	13.6	10.7	9.0	7.2	9.5
ANAH	...	4.9	5.6	10.7	13.6	11.8	8.8	...	9.2
RUTBAH	5.1	3.8	6.0	11.8	14.1	11.3	8.1	6.3	8.3
HABBANIYA	7.3	7.2	8.7	13.4	15.0	12.1	9.9	8.2	10.2
BAGHDAD	7.3	6.4	8.4	13.5	15.2	12.6	9.4	8.2	10.1
NUKHAIB	...	...	8.0	12.9	15.4	13.5	10.3	...	12.0
HAI	8.5	7.8	9.3	15.0	16.1	13.0	10.7	9.7	11.1
NAJAF	8.2	7.1	9.0	13.7	16.1	13.6	11.1	9.2	11.0
DIWANIYA	8.2	7.5	9.9	15.0	16.4	13.4	10.8	9.3	11.3
NASIRIYA	9.8	9.0	10.5	14.6	16.3	14.5	12.3	10.9	12.2
BASRAH	10.2	9.3	11.2	16.3	18.0	14.5	12.4	11.1	12.9

TABLE 3 VAPOUR PRESSURE (MBS.)

SINJAR	...	6.7	7.0	8.1	8.0	7.9	8.2	...	7.7
MOSUL	8.5	8.3	8.3	9.4	9.6	9.9	9.1	9.0	9.1
SALAHADDIN	...	5.9	6.0	6.6	6.8	7.1	6.3	...	6.5
KIRKUK	8.8	8.6	9.0	9.4	9.2	9.7	9.2	8.9	9.1
ANAH	...	8.1	8.1	9.5	9.5	10.0	9.4	...	9.1
RUTBAH	7.8	7.3	7.0	8.9	9.8	9.1	8.5	8.2	8.3
HABBANIYA	9.0	8.8	9.3	10.5	10.1	10.4	10.1	9.3	9.7
BAGHDAD	9.6	9.1	9.8	10.6	10.2	10.3	10.2	9.8	10.0
NUKHAIB	...	...	7.3	7.4	7.1	7.0	7.1	...	7.2
HAI	10.0	9.7	10.5	11.7	11.5	11.8	11.1	10.6	10.9
NAJAF	9.7	9.3	9.7	11.0	10.4	10.8	10.6	10.3	10.2
DIWANIYA	9.5	9.4	10.3	11.4	11.0	11.0	10.6	9.9	10.4
NASIRIYA	10.0	9.3	10.0	11.0	10.7	11.3	11.0	10.5	10.5
BSRAH	11.2	10.8	11.6	12.9	12.9	12.8	12.4	11.7	12.0

TABLE 4 WET-BULB TEMPERATURES (°C)

SINJAR	...	3.1	4.8	6.9	7.4	6.7	5.7	...	5.8
MOSUL	5.3	4.6	5.3	8.3	9.6	8.6	7.1	6.1	6.9
SALAHADDIN	...	1.8	2.4	4.6	5.2	4.0	2.7	...	3.5
KIRKUK	6.3	5.8	6.6	9.4	9.8	8.6	7.4	6.8	7.6
ANAH	...	4.4	4.7	8.5	10.0	9.4	7.5	...	7.4
RUTBAH	4.3	3.2	4.9	8.8	10.0	8.6	6.6	5.3	6.5
HABBANIYA	6.3	5.9	7.3	10.6	11.0	9.9	8.4	7.2	8.3
BAGHDAD	6.7	5.8	7.4	10.6	11.2	10.0	8.3	7.4	8.4
NUKHAIB	...	...	5.7	8.3	9.4	8.4	6.7	...	7.7
HAI	7.7	7.2	8.5	12.0	12.4	11.1	9.5	8.7	9.8
NAJAF	7.3	6.4	7.8	10.9	11.7	10.8	9.4	8.4	9.1
DIWANIYA	7.3	6.7	8.4	11.8	12.3	10.9	9.3	8.1	9.4
NASIRIYA	8.1	6.3	8.8	11.4	12.0	11.6	10.3	9.3	9.7
BASRAH	9.4	8.6	10.1	13.2	14.0	12.4	11.2	10.1	11.1

TABLE 5. DEW- POINT (°C)

SINJAR	...	1.1	1.7	3.6	3.4	3.4	3.0	...	2.7
MOSUL	4.4	3.6	4.2	5.0	6.1	6.7	6.0	5.2	5.3
SALAHADDIN	...	-0.5	-0.5	0.6	1.9	2.2	0.2	...	0.7
KIRKUK	4.9	5.0	4.8	5.6	5.3	6.2	5.5	5.1	5.4
ANAH	...	3.6	3.5	6.0	6.0	6.7	5.8	...	5.3
RUTBAH	3.1	2.3	3.3	5.3	5.4	5.5	4.5	3.5	4.2
HABBANIYA	5.1	4.8	5.6	7.5	6.6	7.3	6.8	5.7	6.2
BAGHDAD	6.0	5.2	6.3	7.5	6.8	7.1	7.0	6.4	6.5
NUKHAIB	...	...	2.2	2.2	1.8	1.5	1.7	...	1.9
HAI	6.8	6.3	7.5	9.1	8.8	9.4	8.5	7.6	8.0
NAJAF	6.2	5.6	6.3	8.3	7.1	7.8	7.6	7.1	7.0
DIWANIYA	6.0	5.8	7.2	8.6	8.1	8.2	7.6	6.7	7.3
NASIRIYA	6.8	6.3	7.2	8.1	7.7	8.7	8.2	7.6	7.6
BASRAH	8.5	7.9	9.0	10.5	10.6	10.4	10.0	9.1	9.5

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	79	78	68	64	59	75	,,	71
MOSUL	91	92	87	75	66	79	86	90	84
SALAHADDIN	,,	77	73	66	70	79	77	,,	74
KIRKUK	86	88	83	66	61	76	81	83	78
ANAH	,,	91	87	74	62	72	82	,,	78
RUTBAH	88	90	84	66	57	69	79	84	77
HABBANIYA	81	88	79	69	60	74	83	84	77
BAGHDAD	92	93	89	69	60	71	85	89	81
NUKHAIB	,,	,,	67	50	41	46	56	,,	52
HAI	90	91	89	70	64	79	85	88	82
NAJAF	88	91	85	70	58	70	81	86	79
DIWANIYA	87	90	85	68	61	72	82	85	79
NASIRIYA	81	84	79	67	59	69	77	80	75
BASRAH	90	91	86	70	64	78	86	88	82

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

SINJAR	,,,	20.1	20.0	19.5	18.1	18.5	19.4	,,,	1019.3
MOSUL	20.1	19.9	21.1	20.5	19.8	19.4	20.2	20.4	1020.1
SALAHADDIN	,,,	20.0	19.9	19.1	18.0	19.1	20.0	,,,	1019.4
KIRKUK	19.4	19.3	20.3	19.3	18.3	19.0	19.6	19.6	1019.4
ANAH	,,,	19.4	20.7	20.1	18.4	18.8	19.8	,,,	1019.5
RUTBAH	17.7	18.3	19.4	18.5	17.0	17.8	18.5	18.0	1018.2
HABBANIYA	18.6	19.0	19.8	19.1	17.6	18.3	18.5	18.8	1018.7
BAGHDAD	18.8	18.7	19.9	19.3	19.1	18.4	19.1	19.0	1018.9
NUKHAIB	,,,	,,,	20.1	19.0	17.5	17.4	17.7	,,,	1018.3
HAI	18.4	18.4	20.0	19.3	18.0	18.2	18.8	18.5	1018.7
NAJAF	18.6	18.7	20.1	19.3	17.7	18.0	19.0	18.9	1018.8
DIWANIYA	18.8	18.8	20.3	19.4	17.3	18.4	19.1	19.1	1018.9
NASIRIYA	18.2	18.2	19.7	18.8	17.3	17.7	18.4	18.4	1018.3
BASRAH	18.7	18.7	20.0	19.2	17.9	18.1	18.7	18.5	1018.7

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	,,,	4.3	4.7	5.4	5.7	5.3	4.0	,,,	4.9
MOSUL	4.2	4.7	5.4	5.4	5.4	4.8	3.9	3.9	4.7
SALAHADDIN	,,,	4.4	4.9	3.6	5.5	4.7	3.8	,,,	4.5
KIRKUK	4.3	4.5	5.0	5.2	5.5	5.1	3.7	3.8	4.6
ANAH	,,,	3.8	5.1	4.9	4.6	4.3	3.5	,,,	4.4
RUTBAH	2.8	3.7	5.1	4.9	4.8	4.6	3.3	3.2	4.1
HABBANIYA	4.5	4.3	4.9	5.0	4.6	4.0	3.7	3.5	4.3
BAGHDAD	4.2	3.7	5.7	5.1	5.7	4.6	3.2	4.0	4.5
NUKHAIB	,,,	,,,	4.1	4.1	4.6	3.9	2.5	,,,	3.8
HAI	3.2	3.9	4.2	4.5	4.5	4.2	2.8	3.1	3.8
NAJAF	3.7	4.2	4.5	4.5	5.1	4.5	3.7	3.6	4.2
DIWANIYA	3.1	3.5	4.0	4.0	4.5	3.6	2.7	2.5	3.5
NASIRIYA	3.0	3.1	4.2	4.2	4.2	3.9	2.3	2.9	3.5
BASRAH	3.3	3.7	4.6	4.2	3.9	3.5	2.7	3.1	3.6

TABLE 9. LOW CLOUD (OKTAS)

SINJAR	,,,	2.2	2.3	2.4	3.7	2.9	2.4	,,,	2.7
MOSUL	3.5	3.8	4.2	3.5	3.6	3.0	3.2	3.2	3.5
SALAHADDIN	,,,	3.3	3.4	3.6	3.8	3.2	2.8	,,,	3.4
KIRKUK	3.3	3.6	3.9	3.9	3.8	3.2	2.3	2.4	3.3
ANAH	,,,	1.4	2.7	2.4	2.0	2.1	1.5	,,,	2.0
RUTBAH	0.4	1.3	2.1	2.3	2.2	2.1	1.3	1.0	1.6
HABBANIYA	2.5	2.1	2.5	2.5	2.5	1.5	1.3	1.4	2.0
BAGHDAD	2.4	2.3	2.6	2.3	3.1	1.7	1.4	2.5	2.3
NUKHAIB	,,,	,,,	1.0	1.4	2.7	2.1	1.3	,,,	1.7
HAI	2.4	2.8	3.3	3.1	2.9	2.6	1.2	1.7	2.5
NAJAF	1.6	1.6	2.0	2.4	2.3	1.7	1.4	1.5	1.8
DIWANIYA	1.5	2.5	2.5	2.5	2.5	2.1	1.7	1.5	2.1
NASIRIYA	1.9	1.9	2.3	2.4	2.7	2.3	1.4	1.8	2.1
BASRAH	1.7	1.7	2.8	3.1	2.3	1.5	1.5	1.7	2.1

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

JANUARY 1970. TABLE 10c. (8)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST - WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND - SPEED DURING ONE HOUR (V.K.)		DIRECTION	TIME GMT.	DAY
SINJAR	25	KNOTS.	280	1200	11th
MOSUL	20		090	0600	21st
SALAHADDIN	25		180	1500	26th
KIRKUK	12		180	0600	26th
ANAH	30		240	0300	26th
RUTBAH	25		260	1200	25th
HADDANIYA	23		130	1200	20th
BAGHDAD	22		150	0600	21st
NUKHAIB	25		330	0900	28th
HAI	25		180	0300	21st
NAJAF	12		130	0600	20th
DIWANIYA	18		090	0000	20th
NASIRIYA	26		130	0900	21st
BASRAH	24		170	1200	21st

JANUARY 1970. TABLE 12a.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4	10.1	5.1	8.4	5.0			
5	1.4	1.4	7.4	3.0			1.1
6	tr.	7.0	10.8	11.1	0.8		23.0
7							
8							
9							
10							
11							
12							
13							
14						0.8	
15					tr.	6.9	
16							
17							
18							
19	16.5	3.0		0.9	10.8	5.2	4.0
20	63.8	39.9	22.0	21.0	13.8	13.2	0.2
21	7.0	9.8	4.0	1.1	tr.	1.0	1.9
22		tr.	1.0	0.5	tr.	tr.	tr.
23	4.2	16.2	24.6	9.0			
24	4.0	5.2	17.0	0.9	tr.		
25	8.6	36.9	17.5	21.4	2.3	0.7	0.5
26	3.5	tr.	6.0	0.5			0.5
27							
28							
29							
30							
31							
TOTAL	119.1	124.5	118.7	74.4	27.7	28.4	31.2
NORMAL	87.6	70.1	115.3	58.1	20.6	15.9	20.8

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	91.0 mms.	2nd	1942
MOSUL	39.9	20th	1970
SALAHADDIN	70.3	3rd	1964
KIRKUK	48.1	2nd	1964
ANAH	29.4	28th	1940
RUTBAH	21.1	4th	1969
HABBANIYA	41.1	6th	1969

JANUARY 1970 TABLE 12b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4				2.3			
5	52.7	0.4	15.0	26.8	23.8	14.9	14.4
6	8.0		8.8	4.4	4.[illegible]	4.8	3.6
7						tr.	
8				tr.			tr.
9							
10		32.8	8.0	42.6	25.9	1.7	0.3
11			11.0	2.4	2.[illegible]	14.0	38.7
12							
13							
14							
15			tr.	tr.	tr.		2.3
16							
17							
18							
19	4.1	0.3	tr.	4.6	4.5	1.0	0.1
20	5.0	tr.	7.0	3.6	8.4		0.3
21	8.0		4.0	2.4	1.7		0.4
22	1.0	tr.					
23							
24	tr.						
25	0.1						tr.
26							
27		tr.				0.2	0.4
28							
29							
30							
31							tr.
TOTAL	78.9	34.0	53.8	94.1	71.2	36.6	60.5
NORMAL	24.5	13.0	22.1	8.6	17.3	16.7	25.9

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	52.7 mms.	5th	1970
NUKHAIB	41.0	13th	1965
HAI	41.9	14th	1947
NAJAF	42.6	10th	1970
DIWANIYA	40.0	1st	1960
NASIRIYA	43.5	4th	1969
BASRAH	38.7	11th	1970

JANUARY 1970 TABLE 12c.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SAMA-WA	SHAIKHAN	KAR-BALA	ABU-QRAIB	DOJ-AIL	HILLA	MAN-SOOR	MAHM-ODIYA	BAD-RAH	BAIJI
1		5.2								
2										
3										
4	0.8	4.4								1.5
5	3.3	13.1	18.3							11.9
6				42.0	55.0		28.0			15.1
7				5.3			23.0	65.4	42.0	
8										
9										
10	7.1		16.1							
11						12.7				
12									27.0	
13										
14										
15										
16										
17										
18										
19							2.0			4.1
20	4.1	62.7		5.0	4.0	10.2	23.0		10.0	26.0
21		26.2		2.2		10.2	16.0	13.1	4.0	
22				5.0		12.7	7.0	5.2		
23		27.0		2.5						1.0
24		3.0								1.0
25		21.8					3.0			7.8
26		8.7			1.0					
27										
28										
29										
30										
31										
TOTAL	15.3	172.1	34.4	62.0	60.0	45.7	102.0	84.1	83.0	68.4

JANUARY 1970 TABLE 12d.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	HADI-THA	SAMA-RRA	NUMA-NIYA	TEK-RIT	QAIM	BAQ-UBA	FAO	TEL-AFAR	HALA-DJA	SULAI-MANIYA	KUT.
1										20.0	
2											
3											
4								12.0		6.4	
5				13.1		39.0	15.5	2.5		8.0	5.2
6	8.0		43.6	21.8		1.0		1.0		11.2	5.7
7		35.4									
8									20.0		3.2
9											
10							11.0				
11			13.9				49.0				
12											2.1
13											
14											
15											
16											
17											
18											
19	8.0				20.1	3.6		6.0			6.7
20	17.0		7.0	21.8	25.2	22.8		56.0		12.0	4.3
21						0.5	13.5	9.0	25.0	40.0	
22			13.1					2.0	64.0	20.0	
23			9.1					18.0	60.0	32.0	
24								6.0	58.0	12.0	
25				21.8				36.0		32.0	
26							2.5	tr.		4.0	
27								1.0	60.0	3.2	
28									85.0		
29											
30											
31											
TOTAL	33.0	35.4	86.7	78.5	45.3	66.9	92.0	149.5	369.0	200.8	24.2

JANUARY 1970 TABLE 12 e. (13) DAILY PRECIPITATION mm tr. <0.05

DAYS	AMADIYA	ASLUBI	TEL ABTA	ZAKHO	HAMAM-ALIL	QUAIR	AQRA	SHIRQAT	BASHIKAH	MAKHMOOR	ARBIL
1			6.0								
2											
3											
4	10.0			7.0	8.4		4.2	3.5	2.5	2.0	
5		tr.	3.0		11.8	10.0		52.3		18.0	6.6
6	20.0	2.0			5.4	15.0	14.3			7.0	5.9
7	20.0		9.0			7.0			5.0		2.8
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19		4.0		0.9	2.8	7.0			3.0	2.0	
20		54.0		70.9	63.5	25.0		46.1	36.0	42.0	
21	46.0	2.0	40.0	20.9	7.8		27.7			5.0	51.9
22				3.5			15.2		13.0		6.5
23		9.0		20.4	10.0		29.5		17.0	6.0	
24	27.0	5.0			4.0	10.0	3.2		6.0	5.0	29.5
25		15.0		7.8	29.4		49.1	1.7	22.0	9.0	4.5
26	47.0					20.0	27.4				24.7
27	10.0							4.8			11.3
28											5.6
29											
30			3.0								
31											
TOTAL	180.0	88.0	61.4	131.4	143.4	94.0	213.0	111.4	114.5	96.0	151.8

YS	TUZ	HAWI-JAH	KUFRI	MAN-DILI	BALA-DROOZ	JALA-WLA	IFTI-KHAR	RAB-IAA	HAWI-JAH	UR.	ZIT
1	6.4										
2											
3											
4											
5		10.8	13.5	30.0	[illegible]	17.8	9.5	16.0	4.4	12.5	
6	6.4	5.7	35.0	78.5	65.0	22.9	8.5			15.2	
7	3.8					30.5			16.5		
8											
9											
10											
11										19.1	
12											
13											
14											
15											
16											
17											
18											
19				1.5							6.5
20		23.3		66.5							20.0
21		6.6	64.4	91.5	85.0		11.0	68.0	32.2		
22				1.5	60.0	5.8		4.0			3.5
23				1.8				8.0			
24				3.0							
25		7.0					13.0	8.0			
26	6.4					5.1			14.4		
27											
28											
29											
30											
31											
TOTAL	23.0	53.4	112.9	275.3	210.0	88.5	42.0	116.0	67.5	47.0	30.0

JANUARY 1970 TABLE 13.

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

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD		NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	1.0	6.2	12.3	17.[illegible]	[illegible]	14.5	20.2	12.6	20.8	13.8	19.3	8.5	15.7	22.5	3.5
2	[illegible]	0.9	12.1	17.8	0.1	14.4	20.0	12.1	20.8	13.0	19.2	5.0	15.7	22.4	3.2
3	0.6	-1.2	11.6	17.7	1.1	14.2	20.0	11.7	20.7	12.8	19.3	1.9	15.2	21.9	1.4
4	2.0	3.6	11.4	17.3	4.0	14.2	19.7	11.8	20.4	14.7	19.0	3.7	15.0	22.2	1.1
5	5.0	3.9	12.2	17.5	7.2	14.7	19.6	13.5	20.4	18.8	14.0	10.8	15.8	22.0	4.2
6	5.2	9.6	12.9	17.2	11.4	15.2	19.5	14.0	20.0	14.6	18.7	12.2	16.6	22.0	10.7
7	4.5	4.9	13.0	17.2	7.3	15.0	20.0	14.5	19.8	14.2	18.7	10.9	16.6	21.7	8.4
8	2.4	3.7	12.9	17.1	5.5	14.8	19.3	14.5	20.0	13.4	18.7	7.9	16.1	21.9	5.2
9	2.0	0.5	12.7	17.2	5.0	14.6	19.2	13.6	19.7	13.8	18.6	10.6	16.0	22.0	5.4
10	0.8	3.9	12.2	17.1	[illegible].1	14.7	19.3	13.7	19.8	12.6	18.5	11.0	15.9	21.8	5.6
11	1.0	1.6	11.9	17.1	8.9	14.7	19.1	13.6	18.1	12.5	18.6	9.8	15.5	21.4	6.0
12	-1.5	-0.2	11.6	16.8	2.2	14.4	19.2	12.5	19.6	12.4	18.5	6.2	14.3	21.8	6.2
13	-1.8	-2.5	11.1	17.0	-0.6	13.8	19.0	12.6	19.5	10.0	18.0	2.8	14.0	21.5	-0.2
14	-1.2	1.2	10.9	16.8	2.8	13.7	19.0	13.0	19.5	10.5	17.7	4.1	14.1	21.3	1.0
15	1.2	1.1	10.9	16.6	6.2	14.0	18.8	12.0	19.5	11.0	17.4	5.4	14.2	21.3	2.7
16	0.8	-0.6	11.6	16.6	3.4	14.2	18.7	12.0	19.2	11.2	17.5	9.1	14.6	21.1	5.9
17	1.4	-0.3	11.1	16.6	4.4	14.0	18.7	11.8	19.1	11.1	17.0	6.0	14.0	21.0	4.5
18	1.6	0.6	11.1	16.5	2.8	14.0	18.7	12.4	18.0	11.0	17.0	5.4	14.2	21.1	2.3
19	2.0	2.2	11.3	16.2	2.5	14.2	18.5	12.7	18.8	11.3	17.0	5.4	14.6	20.9	1.6
20	2.5	7.5	11.6	16.1	5.9	14.3	18.5	13.0	19.0	12.2	17.0	11.0	15.5	20.1	5.7
21	3.4	8.7	12.0	16.3	11.1	14.8	18.2	13.5	19.0	13.0	16.7	13.6	15.7	20.8	10.8
22	3.2	2.7	11.8	16.1	6.5	14.8	18.4	14.5	18.8	13.4	16.8	10.3	16.0	20.7	10.9
23	2.0	5.5	11.8	16.1	7.4	15.0	18.3	15.5	18.6	13.4	16.8	8.2	15.8	20.6	2.4
24	2.4	5.7	11.9	16.1	6.1	15.0	18.2	13.1	18.7	13.3	16.7	15.7	15.4	21.0	2.0
25	1.2	2.3	11.9	16.1	4.5	15.0	18.5	13.5	18.5	12.4	17.0	5.0	15.6	21.0	1.7
26	2.6	5.3	11.6	15.9	5.6	15.5	18.4	13.5	18.4	12.7	16.8	8.5	16.6	20.6	3.0
27	2.8	2.5	11.1	15.7	3.2	14.5	18.2	13.1	18.7	11.4	17.0	5.8	15.3	20.9	2.4
28	2.2	-0.4	10.5	15.6	1.2	14.0	18.4	12.4	18.5	11.2	16.6	5.0	15.2	20.6	2.0
29	-1.4	-3.8	10.0	15.7	-0.9	13.7	18.3	12.0	18.5	9.6	16.6	2.9	14.7	20.5	-2.6
30	-1.0	-1.0	9.9	15.5	7.1	13.8	18.0	12.0	17.0	9.7	16.5	3.0	14.0	20.0	xxxx
31	0.6	0.2	9.7	15.5	1.1	13.6	18.0	11.8	18.3	9.4	16.4	5.5	14.2	20.6	2.7
MEANS	1.6	2.6	11.6	[illegible]	[illegible]	14.4	18.9	12.0	19.2	12.4	[illegible]	7.5	14.9	21.3	3.3

JANUARY 1970. TABLE 14. (16)

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

DAYS	MO-SUL	KIR - KUK	ANAH	RUT-BAH	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	3.0	1	2	3	4	2	2	0	2
2	3.0	1	1	2	3	2	1	3	1
3	3.0	1	2	3	3	1	1	0	3
4	2.1	1	1	3	3	4	2	2	2
5	2.4	1	2	2	4.4	1	3.8	1.9	1.4
6	3.0	2.1	1.8	2	3	1	0.9	4.8	1.6
7	3.0	1	0	2	3	1	2	0	1
8	2.0	1	2	2	2	1	1	1	1
9	4.0	2	0	2	2	1	2	2	1
10	1.0	0	2	1	1.8	2	1.9	0.3	1.3
11	3.0	0	1	2	3	1	1	3	2.7
12	3.0	1	2	1	2	1	1	2	1
13	4.0	2	1	1	2	1	1	1	2
14	3.0	1	2	1.8	3	1	2	0	1
15	3.0	1	1	4.9	2	1	1	2	4.3
16	4.0	1	2	0	2	1	1	1	3
17	4.0	1	1	0	1	1	1	1	1
18	4.0	2	2	1	2	2	3	2	2
19	3.0	0	1.8	1.8	1.8	1.	0.5	0.	2.1
20	4.9	4	3	0.2	1	2	0.4	1	1.3
21	6.8	2.1	1	1	3	1	0.7	2	1.4
22	3.0	1.5	1	0	2	1	2	2	2
23	4.2	2	2	1	4	1	2	2	3
24	2.2	1.9	1	1	3	2	1	0	1
25	4.9	2.4	2.3	0.7	3	2	2	2	1
26	5.0	0	1	1	2	3	1	2	4
27	5.0	2	2	1	4	2	2	2.2	2.4
28	4.0	2	2	1	1	2	2	1	2
29	3.0	1	1	1	2	2	2	1	1
30	5.0	2	2	2	2	2	2	2	3
31	3.0	2	1	2	3	2	2	2	2
TOTAL	108.5	43.0	46.9	51.0	74.0	48.0	48.2	46.2	58.5
MEAN	3.5	1.4	1.5	1.6	2.4	1.5	1.6	1.5	1.9

CLIMATOLOGICAL SUMMARY

Number of days for the cases of Phenomena and Duration of sunshine

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	9	0	1	0	2	10	0	0	0	0	0	3	11	-	-	-	-
MOSUL	9	0	0	0	4	6	0	0	0	0	5	5	9	138.6	9.9	28th	5
SALAHADDIN	10	1	0	1	1	2	0	0	0	0	5	5	11	-	-	-	-
KIRKUK	11	0	1	3	4	7	4	0	0	0	4	6	13	-	-	-	-
ANAH	4	0	0	1	1	11	0	0	0	0	4	4	5	-	-	-	-
RUTBAH	6	0	0	0	3	5	0	2	0	0	0	5	5	-	-	-	-
HABBANIYA	7	0	0	1	9	17	7	1	1	0	0	5	3	188.6	10.8	29th	4
BAGHDAD	6	0	0	0	10	19	4	0	0	0	2	4	6	144.8	9.4	28th	4
NUKHAIB	3	0	0	0	1	0	0	1	0	0	1	3	4	-	-	-	-
HAI	6	4	0	0	4	6	0	0	0	0	0	8	5	-	-	-	-
NAJAF	8	0	0	2	4	15	4	0	0	0	0	3	4	-	-	-	-
DIWANIYA	7	0	0	0	4	16	2	3	2	0	0	7	5	-	-	-	-
NASIRIYA	6	0	0	1	2	10	3	1	0	0	0	8	4	-	-	-	-
BASRAH	8	0	0	2	7	20	4	0	0	0	0	5	5	89.0	5.0	28th	5

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

STATION	PRESSURE AT MSL for 1970 -mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1025.9	1800	3rd	1007.6	1200	21st	1033.5	0600	30th	1964	999.7	1800	8th	1965	98	0900	20th	37	1200	13th
MOSUL	1028.4	0600	2nd	1008.7	1200	21st	1038.4	0600	7th	1942	994.8	0200	28th	1940	100	0300	12th	36	1200	28th
SALAHADDIN	1026.9	0600	2nd	1010.0	1200	22nd	1032.9	1800	18th	1968	1003.9	1500	22nd	1969	100	1500	26th	28	0900	3rd
KIRKUK	1027.0	0600	2nd	1009.4	1200	22nd	1032.0	0600	30th	1964	997.1	1800	19th	1965	100	0300	15th	30	1200	28th
ANAH	1028.0	0600	2nd	1007.9	0300	21st	1031.6	0600	19th	1968	1000.5	1800	6th	1968	97	0300	8th	36	1200	30th
RUTBAH	1026.0	1800	28st	1008.6	1200	21st	1039.3	0000	7th	1942	999.0	1200	19th	1965	100	0000	25th	38	1200	18th
HABBANIYA	1027.0	0600	2nd	1008.3	1500	21st	1032.2	0600	30th	1964	997.5	1500	19th	1965	100	1800	8th	27	1200	30th
BAGHDAD	1027.7	0600	2nd	1008.2	1200	21st	1036.0	0600	7th	1942	998.4	1500	19th	1965	100	0000	10th	33	1200	4th
NUKHAIB	1027.7	0600	2nd	1008.8	1500	21st	1032.7	0600	30th	1964	999.2	1200	19th	1965	90	0600	6th	26	1200	28th
HAI	1026.3	0600	3rd	1007.4	1500	21st	1030.8	0600	30th	1964	1001.6	1500	19th	1965	100	0000	16th	36	1200	30th
NAJAF	1027.2	0600	2nd	1008.0	1200	21st	1033.8	0600	30th	1964	999.7	1200	19th	1965	100	0600	21st	31	1200	30th
DIWANIYA	1027.1	0600	2nd	1007.8	1200	21st	1036.1	0600	7th	1942	1000.0	2100	10th	1953	99	2100	8th	35	1200	30th
NASIRIYA	1026.2	0600	2nd	1006.8	1200	21st	1035.9	0600	7th	1942	1001.9	1200	19th	1965	98	0300	8th	25	1200	[illegible]
BASRAH	1025.8	0600	2nd	1008.9	0000	22nd	1035.1	0600	7th	1942	1003.1	0200	28th	1940	100	0300	14th	36	1200	4th

JANUARY 1970. TABLE 16.

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

PRESSURE SURFACE mb.	HEIGHT OF PRESSURE (G.P.M.)				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	27	201	205	76	27	10.5	17.2	5.0	26	4.8	21	250	02	180	18	000	00
850	27	1497	1555	1424	27	3.8	10.9	-2.3	26	-6.8	21	270	10	280	40	000	00
700	27	3050	3139	2973	27	-4.2	0.2	-12.2	26	-15.5	19	280	14	280	42	220	02
500	27	5622	5734	5467	27	-21.3	-29.0	-15.7	26	-33.0	9	280	27	250	53	310	10
300	27	9188	9349	8936	27	-46.9	-43.1	-53.7	26	-57.1	-	-	-	-	-	-	-
200	27	11799	11950	11609	27	-57.7	-49.0	-65.0	14	-64.9	-	-	-	-	-	-	-
150	27	13612	13750	13400	27	-58.4	-53.2	-61.4	14	-66.4	-	-	-	-	-	-	-
100	26	16132	16270	15930	26	-63.9	-60.0	-68.9	7	-70.1	-	-	-	-	-	-	-
70	24	18306	18470	18109	24	-64.2	-49.0	-70.0	5	-80.9	-	-	-	-	-	-	-

NOTE: N = Total number of observations.

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

STATION: BAGHDAD RADIOSONDE STATION.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	27	2226	779	-10.4	3100	890	0.0	1100	702	-29.0	27	11042	242	-55.1	19673	345	-44.0	8050	190	-65.0	-	-	-	-

NOTE:. N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

مديرية المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٣

العدد : ٢

الشهر : شباط

السنة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 33

No. : 2

Month : FEBRUARY

Year : 1 9 7 0

FEBRUARY 1970.

GENERAL SITUATION	:	DRY AND UNSTABLE.
MAIN FETURE	:	The western disturbances from the previous month, from Med. and Saudi, were Continued persisting on the first and second days. Number of new depressions seriesly Crossed the Country, with five times low pressure waves passed on 4th,14th,15th,22nd &27th. Two of the Senae depressions and Med. were with fronts on 17th and 18th,and once from Med. on 21st, & an increase in the number of the Saudi depressions, with respect to the previous month were Crossing.
PRESSURE	:	Extreme pressure readings were 1028.0 mbs at Mosul, above normal by 10 mbs., and lowest pressure reading was 1002.4 mbs at Sinjar, and it is 15 mbs below normal.
TEMPERATURE	:	Highest temperature reading was 27.6 °C at both Hai and Najaf, and the lowest minimum temperature was -2.1 °C at Ana, below normal by 4 °C
WIND	:	Frequent fresh wind during the month, gasting above 35 Kts. occured twice at Salaheddin and once at Rutba, prevailing surface wind direction was NW, over plateau, and SE over mountain regions.
RELATIVE HUMIDITY	:	Was arround normal.
PRECIPITATIONS	:	Rainfall in general was below normal,highest fall was 39.1 mm, and once snowing at Salaheddin.
OTHER PHENOMENAE	:	Thunderstorms occured 3 times at Basrah Dust was abnormal, Central area was affected more than elsewhere. Fog occured twice at the Southern regions and once in the westren districts.

FEBRUARY 1970 TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	12.6	1.6	15.0	1.2	9.4	0.3	16.0	2.6	15.1	1.0
2	10.6	3.2	11.6	2.8	8.4	2.4	15.5	4.4	14.5	2.5
3	12.6	2.8	15.7	3.3	10.3	1.0	17.1	4.2	16.6	2.5
4	13.4	4.2	16.4	4.8	11.0	1.1	18.4	4.7	18.4	3.5
5	13.4	4.3	16.0	4.6	11.5	3.1	19.0	7.0	14.5	5.2
6	15.3	5.2	17.8	5.4	15.5	4.2	20.0	6.8	18.6	7.4
7	16.7	5.8	18.3	1.6	14.3	5.0	20.0	5.1	19.2	4.4
8	15.3	4.2	18.2	4.0	11.6	4.3	19.0	6.3	20.5	2.5
9	15.8	5.2	18.7	6.6	12.1	4.7	18.2	9.0	22.4	8.7
10	15.0	4.3	18.0	6.0	10.9	5.3	20.4	9.8	20.5	4.5
11	15.2	5.0	19.2	5.6	12.2	4.9	19.7	8.4	22.6	7.6
12	10.7	5.2	13.2	10.6	8.1	5.4	15.0	10.6	14.2	11.0
13	14.9	4.5	20.6	5.5	13.0	5.0	20.0	9.0	23.0	5.3
14	14.6	3.3	18.8	4.7	15.1	5.5	20.9	10.5	21.5	5.6
15	17.7	5.7	19.0	3.5	15.3	6.3	21.9	8.3	22.1	5.6
16	17.8	6.0	20.0	3.8	16.2	6.3	21.8	6.2	21.8	4.6
17	17.2	5.4	20.6	4.4	15.7	7.2	22.8	7.3	24.5	6.0
18	15.8	5.6	21.0	8.4	12.0	6.1	18.9	13.1	20.1	10.6
19	10.6	0.4	13.3	3.2	5.4	1.0	13.0	4.1	14.4	6.5
20	11.8	0.6	15.0	1.4	8.4	-1.0	17.1	2.1	16.6	-2.1
21	12.7	1.6	17.9	3.2	12.2	1.5	19.0	3.4	16.2	0.5
22	12.3	3.4	17.4	5.5	9.3	1.0	18.4	7.6	17.5	3.2
23	11.9	3.0	18.3	3.2	11.3	3.0	17.3	5.6	18.5	4.9
24	13.7	3.8	19.6	4.1	11.1	2.1	17.0	7.4	20.2	8.5
25	13.2	5.0	18.7	3.5	11.4	3.0	18.8	7.0	20.0	4.5
26	14.6	4.6	19.6	7.4	10.6	4.0	21.0	9.7	20.8	5.5
27	17.8	5.7	20.6	8.8	14.6	5.4	23.6	10.8	22.7	7.0
28	19.2	7.4	22.4	6.6	16.0	7.2	24.5	10.2	24.4	5.7
MEANS	14.4	4.2	17.8	4.8	11.9	3.7	19.1	7.2	19.3	5.1
NORMAL	....	...	14.5	3.2	....	....	....	....	15.2	5.3
HIGHEST	21.7	12.9	26.7	12.8	16.5	9.0	27.8	13.1	26.6	16.1
DAY	26th	27th	28th	25th	29th	29th	29th	18th	25th	26th
YEAR	1966	1966	1955	1941	1968	1968	1968	1970	1941	1941
LOWEST	1.6	-5.6	0.5	-9.4	-2.3	-8.0	7.5	-1.7	1.1	-6.7
DAY	1 st	2nd	6th	10th	2nd	3rd	2nd	3rd	6th	4th
YEAR	1968	1967	1950	1949	1967	1967	1968	1969	1950	1947

FEBRUARY 1970 . TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	16.0	0.2	17.0	1.7	17.2	1.5	16.2	2.0	20.8	7.2
2	15.8	4.4	15.3	1.9	17.3	1.5	17.5	6.0	19.2	4.5
3	17.6	2.4	18.5	2.5	18.7	2.2	16.8	2.0	22.5	5.8
4	19.5	6.4	18.0	4.0	18.2	3.5	18.2	3.5	21.6	5.4
5	11.1	7.8	16.5	8.0	18.0	6.8	15.0	5.0	20.0	10.4
6	16.0	5.6	18.0	9.6	19.6	6.5	16.8	8.1	16.0	10.5
7	17.6	2.1	19.5	5.5	20.5	5.0	17.8	4.5	21.4	7.4
8	20.3	3.5	21.0	6.0	21.7	[illegible]	20.1	4.6	21.4	7.6
9	19.6	7.8	19.2	9.0	[illegible]	[illegible]	19.1	5.6	21.8	7.7
10	20.3	3.4	21.8	5.7	[illegible]	5.0	19.8	5.6	24.4	8.4
11	21.0	6.4	19.5	8.0	21.2	6.8	20.6	6.0	25.2	10.0
12	16.2	10.4	15.2	11.0	17.4	7.8	17.2	8.5	23.6	8.8
13	23.8	5.1	23.0	5.5	22.3	6.5	24.2	5.2	25.3	13.8
14	21.6	3.6	22.3	8.2	23.0	8.6	22.2	7.5	26.0	12.8
15	20.0	3.6	22.8	9.5	23.4	6.5	21.8	7.5	27.5	11.8
16	21.8	4.7	22.0	10.5	23.0	10.3	22.1	8.2	26.2	11.5
17	25.5	9.4	23.2	8.0	23.8	6.0	23.8	7.5	25.0	9.6
18	15.3	8.3	23.5	13.6	21.7	11.5	21.5	7.6	25.3	9.8
19	13.3	4.0	15.5	8.5	16.5	7.7	15.2	4.9	17.6	11.0
20	15.9	0.2	15.3	1.5	[illegible]	-1.0	15.5	2.5	23.0	4.2
21	13.6	1.5	16.5	3.4	17.5	2.4	15.8	5.6	21.2	5.3
22	16.3	2.5	18.5	3.5	19.2	5.3	18.3	2.8	22.4	11.0
23	13.6	2.5	20.0	5.0	21.4	4.8	18.8	4.5	22.8	8.0
24	17.5	4.2	19.5	8.5	20.7	8.7	19.2	6.8	23.1	7.8
25	18.3	4.2	21.0	5.0	22.1	4.8	20.5	5.6	25.4	8.9
26	19.6	4.4	22.0	8.6	23.0	8.5	22.3	6.4	25.0	10.6
27	22.5	6.3	25.0	10.0	25.1	7.4	23.2	8.5	25.3	9.4
28	26.0	5.6	26.0	8.8	25.6	8.0	26.2	7.5	27.6	12.0
MEANS	18.4	4.7	19.8	6.8	20.6	5.8	19.5	5.7	23.1	9.0
NORMAL	15.8	2.5	18.6	5.8	18.5	5.7	....	...	19.8	7.1
HIGHEST	31.7	15.0	30.6	15.6	30.0	17.0	31.0	12.5	29.4	17.3
DAY	24th	?	22&26	21st	26th	28th	27th	28th	27th	25th
YEAR	1941	?	1941	1956	1941	1969	1969	1969	1941	1963
LOWEST	0.6	-10.0	5.6	-5.0	5.5	-6.0	7.5	-7.5	7.2	-4.8
DAY	6 th	3 rd	6 th	8&9th	6 th	2 nd	2 nd	3 rd	7 th	3 rd
YEAR	1950	1967	1950	1950	1950	1967	1967	1967	1950	1967

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	17.4	5.8	18.8	4.6	18.7	6.8	21.1	9.6
2	18.0	3.8	18.3	3.6	17.6	4.6	21.7	5.8
3	19.6	5.8	20.3	5.2	19.4	5.5	21.1	7.5
4	19.7	5.6	20.9	5.3	19.0	5.2	21.3	5.7
5	17.2	11.2	19.9	10.7	19.4	9.5	21.2	10.4
6	17.9	8.2	17.5	10.0	16.1	11.9	21.1	13.0
7	19.4	8.4	18.8	5.0	19.5	9.0	21.6	9.4
8	21.8	8.8	21.2	6.7	20.5	9.0	21.4	9.1
9	21.5	7.5	20.6	5.6	20.5	7.2	22.6	7.6
10	22.0	7.6	22.6	7.9	22.9	12.0	25.3	10.6
11	22.0	9.4	23.2	8.0	22.3	11.5	24.2	10.6
12	22.4	10.0	23.3	8.4	23.6	11.5	28.0	12.2
13	23.4	9.3	24.5	11.9	23.5	15.2	27.1	15.9
14	23.0	10.5	25.7	11.0	24.5	13.4	28.0	13.3
15	24.4	10.4	24.4	10.2	25.2	14.0	26.7	14.0
16	23.0	9.4	24.2	10.4	25.3	12.6	27.0	12.6
17	24.0	10.2	24.1	10.0	24.4	10.0	25.0	12.5
18	22.9	11.0	25.4	12.0	29.0	12.5	28.4	11.3
19	17.7	13.3	17.3	12.0	17.1	13.8	17.6	15.3
20	18.0	6.2	17.2	5.4	18.4	6.0	19.3	5.8
21	17.8	6.0	19.1	6.0	19.1	7.5	22.6	8.2
22	20.4	9.0	21.2	10.2	21.0	13.0	21.2	10.9
23	21.9	8.0	22.5	5.8	21.6	8.5	22.3	8.7
24	21.8	10.2	22.6	5.7	23.4	8.0	24.7	8.2
25	22.8	9.0	23.9	7.0	24.2	10.4	26.1	9.4
26	24.0	11.2	24.4	9.8	24.9	13.8	26.1	13.6
27	27.0	10.2	26.3	8.3	25.0	10.5	25.6	11.3
28	26.2	12.4	26.6	7.6	25.8	12.5	27.4	11.2
MEANS	21.3	8.9	21.9	8.0	21.9	10.2	23.8	10.5
NORMAL	....	....	19.6	4.9	20.5	5.6	20.5	8.6
HIGHEST	29.1	14.5	32.0	14.5	32.6	18.4	31.4	18.4
DAY	22nd	20th	22nd	19th	17th	25th	17th	25th
YEAR	1963	1963	1955	1969	1963	1962	1962	1963
LOWEST	7.4	-4.5	6.6	-7.2	8.9	-3.9	6.8	-4.0
DAY	2 nd	3 rd	9 th	9 th	2 nd	9 th	5 th	3 rd
YEAR	1967	1967	1949	1950	1967	1950	1967	1967

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	5.6	9.2	12.2	13.6	12.4	9.9	...	10.5
MOSUL	7.0	5.1	8.4	14.6	17.3	14.5	10.7	8.7	10.9
SALAHADDIN	...	4.9	6.5	10.2	10.5	9.0	6.4	...	8.1
KIRKUK	9.1	9.3	11.1	15.7	18.5	14.9	11.9	10.4	12.6
ANAH	...	6.1	8.0	15.1	18.9	16.8	12.1	...	12.8
RUTBAH	6.9	6.5	9.3	15.6	17.8	15.0	11.0	8.6	11.3
HABBANIYA	8.5	7.8	11.8	17.5	19.4	16.2	12.8	11.1	13.1
BAGHDAD	8.2	6.8	11.8	18.1	19.8	17.4	12.5	10.2	13.1
NUKHAIB	...	...	9.9	16.0	19.3	16.9	13.4	...	15.3
HAI	10.5	9.5	13.1	20.5	22.0	17.9	14.1	12.3	15.0
NAJAF	11.0	9.4	11.9	17.9	21.0	16.6	15.2	13.1	14.8
DIWANIYA	10.2	9.1	13.1	19.6	21.6	18.4	14.6	12.6	14.9
NASIRIYA	12.6	11.2	13.9	19.2	21.6	19.9	16.3	14.2	16.1
BASRAH	12.8	11.6	14.5	21.3	23.0	19.3	16.0	14.3	16.6

TABLE 3 WET-BULB TEMPERATURES(°C)

SINJAR	...	5.7	6.2	8.2	9.1	8.5	7.0	...	7.1
MOSUL	5.8	5.1	6.7	10.7	11.4	10.6	8.7	7.2	8.3
SALAHADDIN	...	3.2	4.4	6.9	7.1	6.2	4.6	...	5.4
KIRKUK	6.9	6.1	8.1	10.8	11.7	10.1	8.6	7.7	8.8
ANAH	...	4.6	6.0	10.4	11.7	10.8	8.7	...	8.7
RUTBAH	5.3	4.3	6.9	10.5	11.6	10.7	7.9	6.4	8.0
HABBANIYA	6.7	6.3	9.1	11.9	12.6	11.6	9.7	8.7	9.6
BAGHDAD	6.6	5.6	9.0	12.0	12.5	11.9	9.5	8.3	9.4
NUKHAIB	...	...	6.7	10.2	11.1	10.4	8.8	...	9.4
HAI	8.7	8.1	10.7	14.5	14.7	13.7	11.6	10.2	11.5
NAJAF	8.9	7.9	9.3	12.4	13.5	12.7	11.8	10.2	10.8
DIWANIYA	8.2	7.4	10.0	13.5	14.2	13.1	11.3	9.9	10.9
NASIRIYA	10.1	9.0	10.5	12.9	13.7	13.4	12.3	11.2	11.6
BASRAH	11.3	10.3	12.3	15.6	16.3	15.0	13.6	12.5	13.4

TABLE 4 VAPOUR PRESSURE (M.B.S.)

SINJAR	...	6.5	7.1	7.7	7.6	8.1	7.9	...	7.5
MOSUL	8.5	8.1	8.6	9.8	8.9	9.6	9.6	9.0	9.0
SALAHADDIN	...	6.3	6.4	7.4	7.5	7.3	7.2	...	7.0
KIRKUK	8.3	7.6	8.6	8.4	8.5	8.7	8.7	8.6	8.4
ANAH	...	7.5	7.8	8.9	8.3	8.3	8.5	...	8.2
RUTBAH	7.7	7.8	8.0	8.7	8.9	9.0	8.2	7.9	8.2
HABBANIYA	8.5	8.5	9.5	9.5	9.2	10.1	9.6	9.5	9.3
BAGHDAD	8.5	7.9	9.3	9.3	8.8	9.5	9.3	9.1	9.0
NUKHAIB	...	...	7.3	7.3	6.7	7.4	7.6	...	7.3
HAI	10.2	9.8	10.9	11.9	11.0	12.4	11.7	10.9	11.1
NAJAF	9.8	9.6	9.7	10.1	9.7	10.1	10.5	10.3	10.0
DIWANIYA	9.3	9.0	9.9	10.8	10.4	10.9	10.9	10.1	10.2
NASIRIYA	10.4	9.8	10.2	10.1	9.5	10.4	11.2	11.0	10.3
BASRAH	12.4	11.7	12.6	13.3	13.4	13.7	13.7	13.3	13.0

TABLE 5. DEW POINT (°C)

SINJAR	...	0.6	1.7	2.9	3.4	3.6	3.1	...	2.6
MOSUL	4.5	3.8	4.7	6.5	5.1	5.2	6.3	5.3	5.3
SALAHADDIN	...	0.2	1.0	2.3	2.5	2.2	2.4	...	1.8
KIRKUK	4.1	3.3	4.4	4.0	4.1	4.6	4.7	4.5	4.2
ANAH	...	2.6	3.2	4.9	3.8	3.9	4.4	...	3.8
RUTBAH	3.0	2.5	3.5	4.3	4.4	4.7	3.7	3.3	3.7
HABBANIYA	4.5	6.3	6.0	6.1	5.6	6.9	6.3	6.0	6.0
BAGHDAD	4.4	3.9	5.7	5.1	4.8	6.0	6.1	5.3	5.2
NUKHAIB	...	...	2.3	2.2	1.1	2.3	2.8	...	2.1
HAI	7.1	8.4	8.1	9.0	7.9	9.9	9.2	8.1	8.2
NAJAF	6.7	6.2	6.4	6.7	6.0	6.7	7.3	7.2	6.7
DIWANIYA	8.2	7.4	6.6	7.8	7.3	8.0	7.9	6.9	7.5
NASIRIYA	7.3	6.3	6.7	6.2	5.3	6.9	8.3	8.1	6.9
BASRAH	9.9	9.0	10.2	10.9	10.8	11.4	11.4	10.9	10.6

FEBRUARY 1970 TABLE 6.

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	71	58	54	51	57	65	...	59
MOSUL	85	85	78	59	46	50	75	81	71
SALAHADDIN	...	73	69	60	60	64	74	...	67
KIRKUK	73	73	65	45	40	52	63	70	60
ANAH	...	79	73	52	39	44	60	...	58
RUTBAH	77	82	69	50	44	51	64	71	64
HABBANIYA	77	81	69	48	42	56	63	72	64
BAGHDAD	78	82	67	46	38	48	66	73	62
NUKHAIB	...	...	61	39	30	39	51	...	44
HAI	80	82	72	49	42	60	73	76	67
NAJAF	76	82	70	49	39	48	62	69	62
DIWANIYA	75	78	66	48	41	52	65	69	62
NASIRIYA	71	73	64	45	37	45	60	68	58
BASRAH	83	84	76	53	48	61	75	81	70

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

SINJAR	....	20.1	19.7	19.1	17.6	17.1	18.4	....	1018.7
MOSUL	19.9	20.1	20.8	20.0	17.9	18.0	19.1	19.2	1019.4
SALAHADDIN	....	19.9	19.5	18.2	17.3	17.7	19.2	....	1018.6
KIRKUK	19.3	19.1	19.6	18.7	17.1	17.6	18.5	19.0	1018.6
ANAH	....	18.9	20.4	19.6	17.3	17.3	18.7	....	1018.7
RUTBAH	17.2	17.7	18.5	17.8	16.2	16.5	17.3	17.0	1017.3
HABBANIYA	18.0	18.3	19.3	18.8	17.1	17.7	17.9	17.8	1018.1
BAGHDAD	18.1	18.3	19.3	18.9	17.2	17.1	17.9	18.1	1018.1
NUKHAIB	....	....	19.7	18.6	17.1	17.1	18.0	....	1018.1
HAI	17.5	17.8	19.0	18.6	16.9	16.8	17.6	17.5	1017.7
NAJAF	18.0	18.3	19.4	18.8	16.9	16.9	17.8	17.9	1018.0
DIWANIYA	17.2	18.4	19.4	18.8	17.0	17.2	17.9	17.8	1018.0
NASIRIYA	17.0	17.4	18.7	18.1	16.2	16.3	17.1	17.2	1017.3
BASRAH	17.2	17.4	18.7	18.1	16.5	16.5	17.1	17.2	1017.3

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	...	4.2	4.4	4.3	4.9	5.1	3.9	...	4.5
MOSUL	2.9	3.0	4.3	4.4	4.4	4.1	2.6	2.8	3.6
SALAHADDIN	...	4.4	4.4	4.6	4.9	4.4	2.8	...	4.3
KIRKUK	2.4	2.8	3.3	3.7	3.5	3.1	2.2	1.8	2.9
ANAH	...	2.5	3.2	3.1	3.6	3.4	2.3	...	3.0
RUTBAH	1.8	2.4	3.3	3.4	3.8	3.6	1.2	1.0	2.6
HABBANIYA	2.5	2.5	3.2	3.2	3.1	3.0	2.5	2.7	2.8
BAGHDAD	2.2	2.0	3.1	3.7	3.8	3.6	2.6	2.6	2.9
NUKHAIB	...	...	3.1	3.2	3.7	3.4	2.7	...	3.2
HAI	1.8	1.7	1.9	2.4	3.4	3.0	1.7	1.6	2.2
NAJAF	1.9	1.9	3.5	4.0	4.1	3.4	2.5	2.1	2.9
DIWANIYA	1.7	1.9	2.9	2.7	3.1	2.9	1.4	1.7	2.3
NASIRIYA	1.1	2.1	2.8	3.4	3.4	3.2	2.2	1.2	2.4
BASRAH	2.4	2.0	2.9	2.6	3.0	3.1	2.1	2.2	2.5

LOW CLOUD (OKTAS) TABLE 9.

SINJAR	...	1.5	1.3	1.3	3.1	2.3	1.3	...	1.8
MOSUL	2.3	2.6	2.7	2.6	2.5	2.6	1.7	2.1	2.4
SALAHADDIN	...	3.0	2.8	2.9	3.7	3.0	2.0	...	2.9
KIRKUK	1.2	1.2	1.4	1.7	2.0	1.5	1.3	1.1	1.4
ANAH	...	0.7	1.7	1.5	1.8	1.6	1.0	...	1.4
RUTBAH	0.4	0.5	1.0	1.3	1.5	1.5	0.5	0.3	0.9
HABBANIYA	0.5	0.4	0.3	0.2	0.5	0.6	0.6	0.6	0.5
BAGHDAD	0.7	0.3	0.3	0.7	0.8	0.5	0.6	0.8	0.9
NUKHAIB	...	...	0.5	0.7	1.2	1.4	1.0	...	1.0
HAI	0.4	0.5	0.6	0.3	0.7	0.6	0.5	0.7	0.5
NAJAF	0.6	0.8	0.9	0.8	0.8	0.6	0.9	0.9	0.8
DIWANIYA	1.0	0.8	0.9	0.4	0.8	0.5	1.0	0.9	0.7
NASIRIYA	0.6	1.1	1.0	0.7	0.8	0.7	0.8	0.6	0.8
BASRAH	0.6	0.5	1.1	0.8	0.6	0.8	0.3	0.5	0.7

FEBRUARY 1970 TABLE 10a

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

FEBRUARY 1970 TABLE 10c. (8)

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	30 KNOTS.	270	1500	18th
MOSUL	21	140	0300	18th
SALAHADDIN	40	210	1200	13th
KIRKUK	25	330	1800	18th
ANAH	30	250	1200	18th
RUTBAH	34	280	1500	18th
HABBANIYA	28	140	0000	18th
BAGHDAD	20	330	0900	19th
NUKHAIB	33	270	1800	18th
HAI	26	330	0600	19th
NAJAF	20	330	0000	19th
DIWANIYA	26	310	0000	19th
NASIRIYA	26	090	0000	13th
BASRAH	21	170	1200	13th

FEBRUARY 1970 TABLE 12a.

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1	0.8						
2	tr.	2.4	tr.				
3							
4							
5						5.7	6.2
6							1.6
7							
8							
9							
10		tr.	13.5				
11	3.0	2.4		tr.	tr.	0.3	
12	1.1	4.1	1.0	0.7	3.2		0.3
13							
14							
15							
16							
17		tr.	3.6	tr.			
18		0.5	5.6	tr.	tr.		
19							
20							
21			1.0	1.5			
22						tr.	
23				tr.	tr.	tr.	
24			4.0	tr.		tr.	
25	1.4	4.8	6.0	1.1	tr.		
26			4.4				
27							
28			2.7				
TOTAL	6.3	14.2	39.1	3.3	3.2	6.0	8.1
NORMAL	67.2	66.7	84.7	21.5	66.1	12.6	17.0

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

FEBRUARY 1970 TABLE 12b.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							tr.
3							
4							
5	2.1	12.0	19.0	26.7	24.7	5.5	2.3
6	tr.		8.2	tr.			0.3
7							
8							
9							
10							
11							
12	tr.	tr.	tr.	tr.	tr.		3.8
13							
14							
15							
16							
17							
18							
19							
20							
21	0.8	1.0			0.4	tr.	3.5
22							
23							
24							
25					tr.	tr.	tr.
26							
27							
28							
TOTAL	2.9	13.0	27.2	26.7	25.1	5.5	9.9
NORMAL	24.8	8.3	21.9	8.0	14.3	14.6	17.1

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	47.7 mms.	27th	1962
NUKHAIB	21.5	27th	1966
HAI	26.9	8 th	1941
NAJAF	26.7	5 th	1970
DIWANIYA	38.2	1 st	1953
NASIRIYA	33.5	25th	1957
BASRAH	29.9	28th	1938

FEBRUARY 1970 . TABLE 12c.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	AMA-DIYA	ASL-UBI	TEL-ABTA	THARI-QARAH	ZAKHO	HAMAM-ALIL	AQRA	BASHI-QA	IF-RAZ	RAB-IAA	JALA-WLA
1											
2						3.0					
3										4.0	
4											
5											
6											
7											
8											
9											
10											
11						1.1	12.2				
12		3.0				2.1		5.0	1.7		
13			5.0	2.4						4.0	5.1
14											
15											
16										4.0	
17							7.8				
18									1.0		
19											
20											
21											
22											
23							tr.				
24	5.0						1.9				
25	11.0	1.0			48.0	1.7	12.8	4.5			
26					5.2				1.7		
27											
28											
29											
30											
31											
TOTAL	16.0	4.0	5.0	2.4	53.2	9.7	34.7	9.5	4.4	12.0	5.1

FEBRUARY 1970. TABLE 12 d. (12)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	MAN-DILI	HAD-ITHA	MAW-LAWI	TEL-AFAR	HALA-BJA	BAQ-UBA	TEK-RIT	NUMA-NIYA	SAMA-RRA	UR
1										
2				1.5						
3										
4										
5						2.3				
6	3.5							31.4		11.4
7							13.1			
8										
9										
10										
11		1.1		3.0					4.4	
12			4.0	1.0						
13			4.0							
14		0.3								
15										
16										
17										
18			4.8							
19										
20										
21			6.4							
22							8.7			
23										
24			8.0		20.0					
25			4.0	1.0						
26										
27										
28										
TOTAL	3.5	1.4	31.2	6.5	20.0	2.3	21.8	31.4	4.4	11.4

FEBRUARY 1970. TABLE 12 e. (13)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SAMA-WA	ABU-QRAIB	DUJAIL	HILLA	MAN-SOOR	MAHM-ODIYA	KUT	BAIJI	BADRA	MIQAL
1										
2										
3										
4				7.6		4.8				
5	10.2			12.7						
6		1.5							31.0	
7										
8										
9										
10										
11										
12					1.0			3.2		
13			5.0							
14										
15							3.4			
16										
17										
18										
19										
20										
21										8.9
22										
23										
24										
25										
26										
27										
28										
TOTAL	10.2	1.5	5.0	20.3	1.0	4.8	3.4	3.2	31.0	8.9

FEBRUARY 1970 TABLE 13.

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

	MOSUL	KIRKUK			HABBANIYA			BAGHDAD		NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	0.6	-0.4	9.7	15.4	0.0	13.5	18.0	11.8	18.3	10.0	16.0	5.5	14.7	20.5	3.7
2	1.0	2.0	10.0	15.4	0.0	13.5	18.0	12.3	18.4	10.0	15.8	2.9	15.0	20.5	0.0
3	1.4	0.5	10.0	15.2	0.6	13.3	18.0	12.0	18.2	10.1	15.9	4.5	14.8	20.2	0.2
4	2.2	1.2	10.2	15.1	2.3	13.7	17.7	12.4	18.2	10.8	15.8	3.2	14.7	20.4	0.7
5	3.2	4.5	10.5	15.0	6.4	13.8	17.6	12.8	18.0	12.5	15.8	10.8	15.7	20.2	0.6
6	3.8	3.8	10.7	15.1	8.9	14.0	17.6	13.5	18.0	12.4	15.8	11.4	16.3	20.0	9.9
7	0.8	3.0	11.1	15.0	4.5	14.2	17.7	12.8	18.0	12.0	16.0	8.6	15.7	20.1	4.5
8	2.0	4.1	11.1	15.0	3.6	14.5	17.6	13.5	18.0	12.2	16.0	8.0	15.8	20.6	6.0
9	4.5	7.3	11.6	15.0	5.6	15.0	17.7	14.3	17.9	12.4	16.4	5.7	16.0	20.5	2.3
10	4.0	6.7	12.1	15.1	4.3	15.0	17.8	14.2	18.0	12.8	16.0	10.9	16.8	20.0	5.0
11	3.2	6.0	12.2	15.1	6.1	15.4	17.5	15.0	18.1	13.0	16.0	9.5	16.8	20.1	2.5
12	8.4	7.9	12.8	15.0	6.1	15.4	17.7	14.9	17.9	13.3	16.3	10.7	17.0	20.0	5.0
13	3.2	5.5	12.3	15.4	4.0	14.8	17.7	14.5	18.1	13.4	16.4	14.2	17.9	20.0	12.6
14	3.4	7.8	13.0	15.5	6.7	15.8	17.8	15.4	18.2	14.5	16.4	12.3	18.6	20.1	9.1
15	1.8	6.0	13.3	15.5	7.2	16.3	17.8	16.0	18.2	14.7	16.6	12.1	19.0	20.1	8.0
16	2.2	2.9	13.1	15.5	9.5	16.8	17.8	16.4	18.3	14.7	16.7	12.0	19.0	20.4	6.6
17	2.4	4.6	12.8	15.5	6.1	17.0	18.0	16.3	18.8	15.0	16.8	9.9	19.0	20.3	5.7
18	6.0	11.0	13.3	15.6	12.2	17.4	17.8	16.8	18.5	15.4	17.0	10.7	18.5	20.2	3.0
19	1.6	2.4	13.1	15.5	7.2	17.5	18.0	16.5	18.5	15.0	16.7	13.8	19.2	20.4	10.1
20	-0.8	-0.3	12.1	15.6	0.0	16.7	18.2	15.1	19.0	15.2	21.0	4.6	17.4	20.5	xxx
21	1.2	1.0	11.8	15.6	2.8	16.2	18.2	14.8	18.8	13.8	17.4	6.9	16.8	20.6	-0.3
22	3.0	5.6	12.3	15.7	2.2	15.9	18.2	14.8	18.8	13.9	17.6	12.0	17.4	20.6	8.0
23	1.6	3.8	12.2	15.6	3.6	16.0	18.0	15.5	18.5	14.7	17.4	7.5	17.4	20.8	3.1
24	2.0	2.5	12.2	15.5	7.8	16.6	18.2	15.0	18.6	14.9	17.6	7.1	17.5	20.7	1.9
25	1.6	5.0	12.2	15.5	3.9	16.8	18.1	15.7	18.8	15.6	17.5	7.5	17.6	20.5	2.0
26	4.5	8.0	13.1	15.6	6.7	17.0	18.0	17.0	19.2	15.7	17.7	10.8	18.3	20.5	7.4
27	3.4	8.3	13.3	15.5	7.8	17.3	18.3	16.8	18.9	15.8	17.8	9.0	18.7	20.6	4.4
28	2.8	8.4	13.8	15.6	7.8	17.8	18.2	17.6	19.0	17.3	17.7	9.7	19.0	20.6	4.0
MEANS	2.7	4.6	12.0	15.4	5.2	15.6	17.9	14.8	18.4	13.6	16.8	9.0	17.2	20.4	4.7

FEBRUARY 1970. TABLE 14. (15)

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	4	1	2	2	3	3	2	1	2	3
2	3.4	2	1	2	2	3	1	1	2	2
3	2	2	2	4	2	4	1	1	2	3
4	2	2	3	4	2	5	2	2	1	1
5	2	2	2	3.7	0.1	3	4	2.7	1.5	1.3
6	3	3	2	4	4	6	2	1	2	2.3
7	3	2	2	2	3	3	1	2	3	3
8	2	2	2	3	3	4	2	2	3	2
9	2	2	3	4	2	5	1	1	2	1
10	2	2	2	4	3	5	2	2	2	3
11	2.4	3	3	2.7	2	3	2	2	1	3
12	2.1	0.7	1.2	4	2	2	2	3	4	2.8
13	4.8	2	2	4	4	6	2	2	2	4
14	4.8	2	3	4	2	5	2	2	2	2
15	4.0	4	3	4	5	4	2	3	2	2
16	4	3	3	4	4	5	3	2	4	3
17	4	4	4	6	5	7	3	3	4	3
18	7.5	4	9	10	6	10	3	4	6	7
19	3	3	4	5	7	6	4	3	5	2
20	3	3	4	4	4	4	2	4	2	2
21	2	3.5	2	4	2.8	2.0	3	2.4	3	1.5
22	2	2	3	4	4	4	3	3	3	2
23	3	3	3	4	4	4	3	3	1	4
24	4	2	2	4	4	5	3	2	2	2
25	4.8	3.1	3	4	5	4	4	2	3	4
26	5	2	2	4	4	5	4	3	4	3
27	4	3	3	4	1	5	4	3	3	3
28	4	3	5	5	4	5	2	3	3	4
TOTAL	92.2	70.3	80.2	113.4	93.9	127.0	69.0	65.1	74.5	75.9
MEAN	3.3	2.5	2.9	4.0	3.4	4.6	2.5	2.3	2.7	2.7

CLIMATOLOGICAL SUMMARY

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

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	SUNSHINE DURATION-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	4	0	0	0	0	2	0	0	0	1	0	4	4	-	-	-	-
MOSUL	5	0	0	0	0	9	0	0	1	0	0	6	3	182.5	10.8	15th	2
SALAHADDIN	8	1	0	0	1	1	0	1	1	0	2	6	5	-	-	-	-
KIRKUK	3	0	0	0	0	2	5	2	1	0	0	8	1	-	-	-	-
ANAH	1	0	0	0	1	1	0	4	0	1	0	11	1	-	-	-	-
RUTBAH	2	0	0	0	0	0	0	5	1	1	0	9	0	-	-	-	-
HABBANIYA	3	0	0	0	0	15	2	2	2	1	0	11	0	201.0	11.1	8th	0
BAGHDAD	2	0	0	0	0	8	5	1	1	1	1	10	1	189.9	10.3	20th	0
NUKHAIB	2	0	0	0	0	0	0	1	0	1	0	8	5	-	-	-	-
HAI	2	0	0	0	1	2	0	3	1	1	0	11	2	-	-	-	-
NAJAF	1	0	0	0	0	2	1	2	1	0	0	7	1	-	-	-	-
DIWANIYA	2	0	0	0	1	0	2	2	2	2	0	11	0	-	-	-	-
NASIRIYA	1	0	0	0	1	3	4	2	4	1	0	10	1	-	-	-	-
BASRAH	4	0	0	3	1	8	2	1	1	1	0	9	0	115.5	5.4	28th	2

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

STATION	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1027.8	0300	3rd	1002.1	1500	18th	1031.3	1800	4th	1968	1000.3	1200	23rd	1967	93	1500	12th	28	1500	6th
MOSUL	1028.0	0600	3rd	1004.6	1500	18th	1035.8	0600	8th	1950	1000.8	1500	22nd	1952	96	0300	2nd	26	1200	21st
SALAHADDIN	1026.6	0600	3rd	1005.5	1200	18th	1030.2	0600	2nd	1969	1001.2	1500	23rd	1967	97	0600	26th	25	1200	21st
KIRKUK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1950	1000.3	0300	26th	1949	95	0000	4th	21	0900	21st
ANAH	1027.6	0600	3rd	1006.4	1200	18th	1032.3	0600	2nd	1969	[illegible]	[illegible]	29th	1968	99	0300	13th	15	1200	19th
RUTBAH	1026.1	0600	7th	1007.6	1200	18th	1037.9	0600	8th	1950	999.0	1300	9th	1941	[illegible]	[illegible]	[illegible]	[illegible]	1200	28th
HABBANIYA	1026.5	0600	3rd	1007.5	1200	18th	1030.5	0600	2nd	1967	1003.0	1500	22nd	1965	93	0300	14th	30	1200	17th
BAGHDAD	1026.3	0900	3rd	1005.7	0900	18th	1033.7	0600	8th	1950	998.4	1800	2nd	1956	96	0300	6th	22	1200	19th
NUKHAIB	1027.3	0600	3rd	1009.8	1200	18th	1034.3	0600	2nd	1967	1003.8	1500	22nd	1965	90	1800	5th	12	0900	28th
HAI	1025.3	0600	3rd	1008.2	1500	18th	1032.4	0600	8th	1950	1000.3	0000	29th	1956	100	0600	6th	26	1200	20th
NAJAF	1026.0	0900	3rd	1008.1	1200	18th	1029.9	0600	2nd	1967	1002.8	0000	25th	1963	95	0300	10th	23	1200	27th
DIWANIYA	1025.5	0600	3rd	1009.0	1500	18th	1034.9	0600	8th	1950	997.9	2100	28th	1956	96	0300	9th	26	1200	27th
NASIRIYA	1025.0	0600	3rd	1008.1	1200	18th	1033.3	0600	8th	1950	993.1	2100	28th	1956	96	0600	10th	14	1200	20th
BASRAH	1024.3	0600	3rd	1010.0	1200	22nd	1031.7	0600	8th	1950	990.8	1200	5th	1951	97	2100	15th	23	1200	21st

FEBRUARY 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	28	149	192	107	28	12.5	19.0	5.8	28	4.8	22	300	01	310	13	000	00
850	28	1502	1539	1456	28	6.5	13.2	1.0	28	-4.9	21	260	08	230	23	210	05
700	28	3066	3126	3000	28	-3.1	11.9	-8.0	28	-16.7	21	270	18	230	47	300	13
500	28	5546	5723	5535	28	-20.1	-15.0	-24.7	28	-34.2	10	200	31	250	46	270	20
300	28	9237	9363	9037	28	-45.4	-40.8	-50.2	28	-56.8	-	-	-	-	-	-	-
200	28	11864	12018	11651	28	-55.9	-47.3	-67.1	26	-66.3	-	-	-	-	-	-	-
150	28	13684	13915	13471	28	-59.3	-53.0	-60.0	24	-69.6	-	-	-	-	-	-	-
100	28	16181	16356	15982	28	-61.3	-59.5	-73.0	20	-74.6	-	-	-	-	-	-	-
70	26	18347	18681	18145	26	-67.0	-56.6	-77.4	14	-75.2	-	-	-	-	-	-	-

NOTE: n = Total number of observation

FEBRUARY 1970. TABLE 17.

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

STATION: BAGHDAD RADIOSONDE STATION.

TIME OF OBS. G.M.T.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
		AVERAGE			MAXIMUM			LOWEST				AVERAGE			MAXIMUM			LOWEST						
	N	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	N	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED "KNOTS"
0001	28	2501	755	-10.4	3500	838	25.0	1580	670	-35.1	28	11413	219	-57.7	16194	330	-48.2	8400	100	-69.2	-	-	-	-

NOTE: N = Total number of observations.

الجمهوريـــة العراقيـــــة

وزارة المواصـــــلات

مديرية الديوان المدني العامـة

مديرية الانواء الجويـة

مديرية المناخ

بغداد

تقرير المناخ الشهـري

المجلد : ٣٣

العدد : ٣

الشهر : اذار

السنة : ١٩٧٠

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

MINISTRY OF COMMUNICATION

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 33

No. : 3

Month : MARCH

Year : 1 9 7 0

MARCH 1970.

GENERAL SITIUATION : UNSTABLE AND WINDY

MAIN FEATHURE : Depressions of the previous month from the western disturbances continued on persisting upto the third with frontal systems during the first and second days. Remarkable low pressure waves were more frequent. Basrah gulf through pentrated to the Country four times, at 6th, 7th, 25th and 27th. Two more depressions from the Med. and Saudi with fromtal systems crossed on 10th and 31st. Senae depressions were passing through Basrah gulf far of the Country.

PRESSURE ; The pressure was generally arround normal, the highest pressure reading was 1024.1 mb at Rutbah, and is 9 mb above normal, the lowest pressure reading was 999.4 mb at Najaf, and is 14 mb below normal.

TEMPERATURE : Extreme temperatures were highly abovenormal, highest maximum temperature was 37.4 °C at Najaf, and is 19 °C above normal, the lowest minimum temp. was 0.6 °C at Ana, and is 15 °C below normal.

SURFACE WIND : Prevaling surface wind direction was Northwesterly and occasions Southesterly in the Central area, while was generally Southerly in the mountain regions. Wind speed was generally fresh, and exceeded 35 Kt four times in the mountain regions and twice in the Central area.

RELATIVE HUMIDITY : The relative humidity was normal

PRECIPITATIONS : Total amount of rainfall was normal, and highest total rainfall was 100.1 mm at Salaheddin.

OTHER PHENOMENAE : Thunderstorm were frequent, and abnormal.
Dust was more frequent than normal.
No Fog reported.
Hail accure once at Kirkuk.

MARCH 1970 TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	18.6	7.[illegible]	21.6	7.6	14.4	8.4	23.0	11.4	27.2	9.7
2	15.6	6.1	19.6	10.6	13.2	9.1	21.0	13.1	21.0	9.4
3	14.8	7.[illegible]	20.4	7.2	14.0	7.1	20.6	11.9	19.6	7.1
4	17.5	8.[illegible]	21.3	5.3	14.6	5.7	22.5	9.4	21.2	4.0
5	18.6	8.[illegible]	23.3	8.5	16.8	5.8	23.3	8.7	22.9	7.5
6	19.7	6.[illegible]	24.3	5.3	17.6	6.7	23.0	9.8	24.3	5.2
7	21.7	8.[illegible]	24.6	8.4	16.6	7.4	23.6	10.4	25.2	6.6
[illegible]	20.6	7.[illegible]	25.0	4.4	18.0	7.7	24.3	9.2	25.3	6.1
9	1[illegible].5	6.[illegible]	22.2	8.6	15.8	7.3	23.3	13.4	25.9	9.6
10	10.8	6.[illegible]	13.3	11.8	7.8	6.4	14.1	11.5	15.8	13.6
11	11.8	6.[illegible]	14.8	10.4	9.8	5.4	17.0	11.0	20.1	10.3
12	14.5	7.[illegible]	20.4	8.3	14.0	5.4	19.3	10.6	18.2	11.4
13	15.2	6.[illegible]	19.5	1[illegible].3	14.3	6.7	20.0	9.4	20.2	11.3
14	15.7	7.[illegible]	21.0	9.2	11.8	4.7	19.8	9.6	22.2	9.5
15	16.0	5.[illegible]	17.8	7.3	11.2	4.6	18.4	8.3	21.6	10.3
16	16.8	7.[illegible]	19.5	8.6	13.3	4.8	21.0	8.6	28.8	10.0
17	19.2	8.[illegible]	23.2	7.6	18.5	7.0	24.5	11.0	27.3	10.7
18	16.8	9.[illegible]	19.0	13.8	15.0	7.7	23.1	17.8	24.5	14.6
19	15.5	5.[illegible]	20.6	10.4	12.0	6.1	19.6	11.6	21.1	10.4
20	15.6	5.[illegible]	20.[illegible]	7.2	12.4	4.4	20.4	8.5	23.6	9.0
21	17.5	6.[illegible]	21.6	5.6	14.5	4.6	22.1	8.7	22.7	8.2
22	15.8	7.[illegible]	20.7	9.2	14.3	7.8	21.5	13.0	20.5	12.0
23	12.6	6.3	17.2	10.4	9.3	5.1	17.4	10.8	19.2	7.4
24	15.[illegible]	6.[illegible]	19.2	6.2	10.4	3.0	18.0	7.1	21.6	6.7
25	17.3	7.[illegible]	22.5	6.4	14.4	4.8	22.4	7.5	22.8	6.5
26	19.5	8.7	23.6	6.6	16.4	7.0	23.2	9.0	24.0	5.7
27	21.8	1[illegible].6	24.5	7.3	18.0	7.0	24.4	8.9	25.8	6.0
28	22.6	1[illegible].5	24.8	6.6	17.5	9.0	25.0	9.5	27.3	5.6
29	24.6	7.3	25.6	9.0	17.5	10.2	25.3	12.5	29.3	7.6
30	25.6	9.6	27.3	10.4	21.4	11.5	27.2	13.6	32.5	10.5
31	22.7	1[illegible].0	28.2	10.4	24.0	13.7	30.7	15.1	33.4	13.4
MEANS	17.8	7.6	21.5	8.4	14.8	6.8	21.9	10.7	24.0	8.6
NORMAL	....	...	19.1	5.7	....	....	18.7	7.8	....	...
HIGHEST	26.7	15.2	30.6	16.6	24.0	13.7	34.4	19.7	33.4	15.7
DAY	3 rd	[illegible]th	24th	14th	31st	31st	24th	22nd	31st	18th
YEAR	1962	1965	1962	1944	1970	1970	1962	1958	1970	1969
LOWEST	5.7	[illegible].0	5.0	-3.9	1.7	-1.5	5.0	-5.6	15.6	1.0
DAY	7 th	[illegible]th	1 st	3 rd	27th	28th	2 nd	14th	15th	16&17
YEAR	1967	[illegible]963	1928	1948	1967	1967	1959	1945	1968	1968

MARCH 1970 TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	23.8	8.1	26.6	10.6	26.2	9.0	27.5	10.0	25.6	10.6
2	19.7	5.1	23.2	12.0	24.5	9.2	21.0	6.6	26.8	13.0
3	17.6	4.3	22.5	9.6	23.6	14.0	21.2	6.5	24.7	11.4
4	19.0	5.0	23.0	7.5	23.6	7.3	21.5	6.6	23.5	14.0
5	22.5	4.0	23.4	8.9	25.0	6.8	23.0	7.2	24.3	10.8
6	23.4	6.0	25.0	8.5	24.8	7.0	23.0	7.6	26.6	7.5
7	24.7	7.4	24.5	10.5	25.2	9.9	24.0	6.2	23.5	10.8
8	27.0	6.0	25.6	7.5	25.4	5.5	25.9	8.6	25.6	7.0
9	20.7	12.5	27.0	10.5	26.0	9.2	22.2	10.2	26.6	11.1
10	17.0	9.0	14.5	13.0	17.4	13.0	20.2	9.4	23.5	16.0
11	19.8	8.5	22.0	13.0	22.0	12.1	20.2	9.6	25.6	10.7
12	15.5	9.1	21.0	12.5	21.8	13.0	20.2	9.4	25.1	13.4
13	18.5	7.9	20.0	13.0	21.3	11.5	19.8	11.4	24.0	12.0
14	19.0	6.4	21.4	11.0	22.2	10.0	21.0	8.4	24.3	11.4
15	21.0	8.0	21.4	9.2	21.5	8.0	22.2	9.4	22.7	9.6
16	27.4	8.1	26.6	10.8	25.6	7.3	28.0	9.2	26.2	10.0
17	30.6	9.4	30.4	11.5	28.0	9.5	31.6	11.2	28.7	11.8
18	25.6	15.3	28.5	12.0	29.2	17.5	30.9	15.6	27.7	16.6
19	18.7	9.0	22.5	13.4	22.6	15.6	22.0	12.0	28.5	17.2
20	19.0	5.1	23.6	10.4	23.8	7.6	22.2	9.5	26.2	13.4
21	21.8	6.7	24.5	10.0	24.0	7.9	24.0	10.2	26.4	10.3
22	17.3	7.8	23.6	12.4	24.2	7.6	21.2	12.2	23.6	16.6
23	17.2	6.1	20.5	10.0	22.0	9.9	20.2	8.6	23.8	12.0
24	17.5	7.1	20.5	9.0	21.6	7.0	21.0	7.4	23.4	10.0
25	20.0	3.1	22.5	9.0	22.7	7.8	21.2	7.8	24.5	9.6
26	22.2	4.1	24.4	9.5	25.6	9.5	23.0	11.4	26.9	10.7
27	23.7	5.3	25.0	10.0	25.8	8.2	24.0	7.8	27.7	12.0
28	26.0	5.2	26.7	9.9	27.3	8.0	25.9	8.6	29.0	10.8
29	29.0	9.2	29.9	11.0	29.3	10.0	29.2	8.6	28.9	10.8
30	31.3	12.8	31.0	12.0	31.5	14.3	29.2	11.6	30.8	15.0
31	33.2	12.5	35.5	16.0	33.5	12.9	29.4	11.5	34.6	15.5
MEAN	22.3	7.6	24.4	11.0	24.8	9.9	23.8	9.4	26.1	12.1
NORMAL	17.2	5.4	20.8	7.8	22.2	9.2	....	....	23.5	11.4
HIGHEST	36.2	18.0	36.1	20.0	34.2	21.2	35.2	17.5	35.0	20.5
DAY	25th	31st	24th	22nd	24th	30th	27th	25th	24th	28th
YEAR	1962	1954	1962	1957	1962	1969	1969	1969	1962	1944
LOWEST	4.2	-6.1	10.4	-2.8	10.0	-2.8	8.1	-1.4	11.7	0.0
DAY	19th	14th	12th	1st	1st	5th	10th	12th	12th	4th
YEAR	1963	1939	1964	1938	1938	1952	1963	1963	1964	1959

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	28.0	13.[illegible]	28.3	12.0	26.7	11.[illegible]	29.6	11.3
2	24.7	11.[illegible]	28.0	11.9	27.7	16.2	28.2	14.1
3	24.9	12.[illegible]	27.0	15.0	24.8	17.8	25.7	16.5
4	22.5	10.[illegible]	23.1	10.9	23.7	15.1	25.5	13.7
5	23.0	11.[illegible]	23.3	11.0	22.5	12.7	22.3	15.2
6	25.0	11.[illegible]	25.0	9.9	24.8	10.8	24.5	12.6
7	25.2	9.8	22.0	10.1	23.4	10.0	26.9	11.0
8	26.4	11.[illegible]	26.7	6.0	25.8	0.2	28.0	10.9
9	27.2	11.[illegible]	27.6	9.5	25.2	14.3	27.7	12.4
10	21.5	13.[illegible]	23.2	15.8	26.3	17.8	24.4	16.0
11	24.2	13.[illegible]	24.9	11.2	26.4	13.5	26.1	15.1
12	25.4	13.[illegible]	24.3	11.0	26.0	14.2	27.3	14.4
13	22.3	14.[illegible]	22.4	13.0	22.3	10.8	24.2	12.2
14	23.4	13.[illegible]	23.3	11.7	23.1	13.5	24.1	14.9
15	24.0	10.[illegible]	23.3	9.4	22.6	10.5	23.0	12.6
16	28.8	11.[illegible]	27.2	9.3	25.7	10.5	25.8	11.7
17	31.6	11.[illegible]	31.3	11.0	28.0	10.5	28.7	12.6
18	32.4	17.[illegible]	31.0	16.5	33.6	17.5	31.7	17.7
19	25.8	17.4	24.4	19.0	26.4	18.1	29.4	20.4
20	26.5	12.5	25.2	12.7	25.4	15.8	25.0	15.0
21	25.8	12.0	25.7	12.8	25.7	14.2	26.1	13.9
22	24.3	11.8	23.7	14.4	24.6	15.5	29.5	16.5
23	23.0	12.8	22.7	12.2	22.9	13.8	26.3	15.4
24	19.2	11.5	19.8	10.2	23.5	13.0	24.6	13.0
25	24.2	2.[illegible]	23.0	8.8	23.5	10.0	23.6	11.7
26	25.5	11.4	25.1	10.3	25.0	14.0	25.5	12.9
27	27.2	11.6	26.5	11.6	26.1	13.2	26.7	13.5
28	28.0	10.8	27.6	10.2	27.7	13.2	27.6	14.5
29	30.4	11.0	28.9	11.2	28.8	12.7	28.2	13.2
30	33.0	11.4	31.0	13.5	31.1	16.9	28.7	16.8
31	37.4	17.8	34.4	13.0	34.0	15.5	32.1	15.1
MEANS	26.2	12.3	25.8	11.8	25.9	13.6	26.7	14.1
NORMAL	....	....	23.9	8.9	24.5	10.9	24.5	12.6
HIGHEST	37.4	20.6	36.1	21.1	39.3	23.4	37.6	23.4
DAY	31st	28th	14th	28th	16th	22nd	27th	22nd
YEAR	1970	1969	1944	1944	1959	1958	1962	1958
LOWEST	13.0	2.2	11.2	-3.2	11.0	0.0	12.5	1.9
DAY	10th	20th	12th	1 st	11th	4 th	11th	9 th
YEAR	1963	1963	1961	1959	1961	1959	1961	1959

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	9.3	13.1	15.6	17.3	15.8	13.3	...	14.1
MOSUL	10.2	9.4	12.0	18.0	20.4	19.0	14.4	11.9	14.6
SALAHADDIN	...	8.5	10.4	13.1	13.2	12.0	9.7	...	11.2
KIRKUK	12.6	11.7	15.5	20.0	21.0	19.5	15.2	13.9	16.1
ANAH	...	9.8	12.9	20.0	22.7	21.2	16.3	...	17.2
RUTBAH	9.8	8.6	13.5	19.5	21.5	19.0	15.0	12.1	15.0
HABBANIYA	13.0	11.9	16.3	21.9	23.8	21.3	17.2	15.7	17.6
BAGHDAD	12.1	10.8	16.6	22.0	24.0	22.0	16.8	14.6	17.4
NUKHAIB	...	...	14.7	21.4	23.5	21.0	17.9	...	19.9
HAI	13.7	12.5	18.2	24.6	25.5	22.0	17.7	15.8	19.8
NAJAF	15.0	12.8	17.2	23.8	25.0	23.9	19.7	17.3	19.5
DIWANIYA	14.6	12.3	17.0	23.2	25.2	22.9	18.2	15.8	18.7
NASIRIYA	16.0	14.3	18.4	23.9	25.5	23.3	20.0	18.0	19.9
BASRAH	16.1	14.7	19.4	24.8	25.9	22.6	19.3	17.6	20.1

TABLE 3. WET BULB TEMPERATURES (°C)

SINJAR	...	6.5	8.8	10.2	10.8	10.4	9.0	...	9.3
MOSUL	8.7	8.1	10.3	13.4	13.8	13.3	11.3	9.8	11.1
SALAHADDIN	...	5.9	7.	9.1	9.1	8.3	6.8	...	7.7
KIRKUK	9.3	8.6	11.1	12.9	13.0	12.3	10.9	10.0	11.0
ANAH	...	7.5	9.4	12.8	14.0	13.1	11.0	...	11.3
RUTBAH	7.0	6.2	9.6	12.5	13.6	12.8	10.0	8.7	10.1
HABBANIYA	10.0	9.4	11.8	13.9	14.3	13.6	12.6	11.6	12.2
BAGHDA	9.1	8.4	11.8	13.7	14.1	13.7	11.7	10.5	11.6
NUKHAIB	...	...	10.0	14.0	14.6	14.0	11.9	...	12.9
HAI	11.2	10.5	14.0	16.5	16.3	15.2	13.3	12.3	12.4
NAJAF	10.5	9.3	11.3	14.4	14.8	14.0	12.7	11.6	12.3
DIWANIYA	10.6	9.7	12.9	14.8	15.1	14.5	12.8	11.8	12.8
NASIRIYA	12.1	11.1	13.3	15.1	15.4	15.3	14.7	13.5	13.8
BASRAH	13.8	13.0	15.7	17.3	17.8	16.7	15.8	14.8	15.6

TABLE 4. VAPOUR PRESSURE (MBS.)

SINJAR	...	7.6	8.1	8.0	8.2	7.7	8.0	...	7.9
MOSUL	10.0	9.7	10.5	11.2	10.5	10.8	10.9	10.4	10.5
SALAHADDIN	...	7.3	7.6	8.4	8.3	8.0	7.6	...	7.9
KIRKUK	9.3	8.9	9.0	9.3	8.6	9.5	9.0	9.3	9.3
ANAH	...	8.9	8.0	9.1	9.3	8.7	9.1	...	9.0
RUTBAH	7.9	7.6	8.9	9.1	9.5	9.3	8.4	8.6	8.7
HABBANIYA	10.0	9.7	10.4	9.7	8.8	9.5	10.7	10.5	9.9
BAGHDAD	9.3	9.3	10.0	9.1	8.3	9.1	9.9	9.5	9.3
NUKHAIB	...	...	8.6	10.1	10.0	9.8	9.2	...	9.6
HAI	11.4	11.1	12.7	12.5	11.2	11.8	11.7	11.3	11.7
NAJAF	9.1	9.0	8.8	9.1	8.2	8.2	9.2	9.3	8.8
DIWANIYA	10.2	10.1	11.3	10.2	9.3	9.9	10.6	10.5	10.3
NASIRIYA	11.2	10.6	11.3	10.1	9.6	11.1	12.6	11.9	11.1
BASRAH	12.8	13.8	14.9	13.9	14.0	14.3	15.2	14.7	14.2

TABLE 5. DEW POINT (°C)

SINJAR	...	2.8	3.5	3.6	3.1	3.3	3.5	...	3.3
MOSUL	6.9	6.5	7.6	8.5	7.3	7.8	8.0	7.7	7.5
SALAHADDIN	...	2.2	2.9	4.2	4.0	3.7	2.8	...	3.3
KIRKUK	5.4	4.9	6.5	5.3	4.3	5.7	6.3	5.6	5.5
ANAH	...	4.8	5.0	5.1	5.3	4.5	5.2	...	5.0
RUTBAH	3.3	2.9	5.2	5.3	5.8	5.4	4.2	4.4	4.6
HABBANIYA	6.7	6.5	7.2	6.0	4.3	5.7	7.5	7.3	6.4
BAGHDAD	5.7	5.6	6.7	4.9	3.4	5.0	6.5	5.8	5.5
NUKHAIB	...	...	4.5	6.5	6.1	6.3	5.5	...	5.8
HAI	9.6	8.6	10.4	10.4	8.5	9.3	9.3	8.9	9.4
NAJAF	5.4	5.2	5.0	5.0	3.7	3.5	5.3	5.5	4.8
DIWANIYA	7.1	7.0	8.3	7.1	5.6	6.5	7.6	7.5	7.1
NASIRIYA	8.3	7.6	8.4	6.8	5.9	8.2	10.1	9.4	8.1
BASRAH	11.9	11.5	12.7	11.5	11.7	12.1	13.0	12.6	12.1

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

STATIONE	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	66	55	46	42	46	54	,,	52
MOSUL	81	83	71	54	46	51	67	76	66
SALAHADDIN	,,	67	62	58	57	60	64	,,	61
KIRKUK	65	67	58	43	38	47	59	61	55
ANAH	,,	72	61	41	36	37	51	,,	50
RUTBAH	66	70	59	42	38	42	51	61	54
HABBANIYA	68	72	58	39	32	40	55	60	53
BAGHDAD	66	71	54	36	29	36	52	57	50
NUKHAIB	,,	,,	52	40	33	37	46	,,	42
HAI	73	77	61	42	35	45	58	64	57
NAJAF	54	61	46	32	26	29	41	48	42
DIWANIYA	65	71	55	37	30	36	51	59	51
NASIRIYA	62	65	54	35	30	39	54	58	50
BASRAH	76	82	66	45	42	53	68	73	63

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

SINJAR	,,,,	16.0	15.6	15.1	13.8	13.5	14.8	,,,,	1014.8
MOSUL	15.6	15.9	16.6	15.9	14.2	14.0	15.2	15.6	1015.4
SALAHADDIN	,,,,	15.6	15.2	14.4	13.5	13.8	15.3	,,,	1014.6
KIRKUK	15.1	15.2	15.6	14.9	13.4	13.6	14.6	15.2	1014.7
ANAH	,,,,	15.5	16.6	15.5	13.2	13.0	14.7	,,,,	1014.8
RUTBAH	13.9	14.5	15.4	14.5	13.2	13.3	14.1	14.2	1014.1
HABBANIYA	13.6	14.2	15.2	14.7	13.0	12.9	13.7	13.8	1014.0
BAGHDAD	13.8	13.9	15.1	14.9	13.0	13.2	13.8	14.0	1014.0
NUKHAIB	,,,,	,,,,	16.7	15.7	14.5	14.1	15.0	,,,,	1015.3
HAI	13.3	13.6	14.9	14.8	12.8	12.9	13.8	13.9	1013.8
NAJAF	13.5	13.8	15.1	14.7	13.1	12.8	13.9	13.9	1013.9
DIWANIYA	13.5	14.0	15.1	14.8	13.2	13.1	14.0	14.0	1014.0
NASIRIYA	13.1	13.5	14.7	14.3	12.5	12.6	13.7	13.8	1013.5
BASRAH	13.5	13.7	15.1	14.7	13.1	13.1	14.1	14.2	1013.9

TABLE 8 TOTAL CLOUD AMOUNT(OKTAS)

SINJAR	,,,,	4.7	4.8	5.1	5.6	5.6	2.6	,,,	4.7
MOSUL	3.7	5.0	5.2	5.0	5.2	5.3	4.0	3.6	4.6
SALAHADDIN	,,,	4.7	4.0	5.3	5.5	5.3	3.7	,,,	4.9
KIRKUK	3.0	4.1	4.8	4.7	5.1	5.0	3.5	3.2	4.2
ANAH	,,,	3.8	3.0	4.1	4.0	5.1	3.3	,,,	4.2
RUTBAH	2.5	3.9	3.3	3.5	4.6	4.4	2.3	2.2	3.3
HABBANIYA	3.2	3.9	3.7	4.0	4.0	3.9	3.0	3.3	3.6
BAGHDAD	2.4	3.2	4.2	4.4	4.8	4.7	2.9	2.2	3.6
NUKHAIB	,,,	,,,	3.5	3.4	3.4	3.7	2.9	,,,	3.4
HAI	2.2	3.0	3.3	3.6	4.5	4.0	2.5	2.3	3.2
NAJAF	3.1	3.1	4.5	4.7	5.0	4.6	3.2	2.5	3.8
DIWANIYA	2.1	2.9	3.6	3.5	4.0	4.0	2.3	2.2	3.1
NASIRIYA	1.7	2.3	3.3	3.7	4.2	4.6	1.9	1.8	2.9
BASRAH	2.5	2.5	2.9	2.9	3.5	3.7	3.0	2.4	2.9

TABLE 9 LOW CLOUD(OKTAS)

SINJAR	,,,	1.3	1.0	2.3	2.8	2.5	0.7	,,,	1.8
MOSUL	2.8	3.4	3.1	3.3	3.5	3.2	2.2	2.6	3.0
SALAHADDIN	,,,	3.4	3.9	3.7	4.1	3.7	2.3	,,,	3.5
KIRKUK	2.1	2.6	2.4	2.6	3.0	3.1	2.4	2.4	2.6
ANAH	,,,	0.8	0.6	1.4	1.8	1.7	1.2	,,,	1.3
RUTBAH	0.6	0.9	0.7	1.5	2.5	1.6	0.8	0.8	1.2
HABBANIYA	0.4	0.6	0.6	1.2	1.5	1.2	0.8	0.6	0.9
BAGHDAD	0.6	0.9	1.2	1.5	2.0	3.2	0.6	0.5	1.3
NUKHAIB	,,,	,,,	0.7	1.3	1.6	1.3	0.1	,,,	1.0
HAI	0.7	0.5	0.4	0.9	1.6	0.7	0.4	0.7	0.7
NAJAF	0.5	0.3	0.9	1.1	1.9	1.3	1.0	0.9	1.0
DIWANIYA	0.7	0.6	0.6	1.3	1.6	1.2	0.5	0.6	0.9
NASIRIYA	0.7	0.5	0.6	1.3	1.5	1.7	0.7	1.1	1.0
BASRAH	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.7	0.8

MARCH 1970 TABLE 10a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CA-LM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0300	12	0	8	2	3	0	0	6	0	31	0	0	0	4
	0600	7	3	7	2	2	0	2	3	5	26	0	0	0	3
	0900	0	2	3	0	5	2	4	3	4	25	2	0	0	5
	1200	1	1	3	5	6	1	9	3	2	23	6	0	0	6
	1500	1	0	4	3	5	0	6	9	3	25	3	0	0	5
	1800	5	0	1	1	5	2	9	6	2	27	2	0	0	5
MOSUL	0000	0	2	0	0	0	0	5	3	21	8	2	0	0	2
	0300	0	0	2	1	2	0	4	2	20	8	3	0	0	3
	0600	3	1	2	3	2	0	4	8	8	22	1	0	0	3
	0900	2	2	3	6	3	0	4	5	6	23	2	0	0	4
	1200	0	0	3	5	5	0	6	6	6	25	0	0	0	4
	1500	0	0	1	6	2	1	5	6	10	20	1	0	0	3
	1800	0	0	2	4	1	0	4	5	15	14	2	0	0	3
	2100	0	0	0	1	3	0	0	3	24	5	2	0	0	2
SALAHADDIN	0300	2	5	3	2	11	0	2	0	6	20	3	1	1	6
	0600	1	4	1	3	11	1	3	0	7	19	3	1	1	6
	0900	2	0	0	1	15	3	5	1	4	20	4	1	2	8
	1200	4	4	1	1	12	2	4	0	3	22	3	3	0	8
	1500	3	2	0	5	8	3	5	0	5	22	3	1	0	6
	1800	3	3	0	4	4	3	3	2	9	14	7	1	0	7
KIRKUK	0000	0	3	4	1	0	0	0	0	23	8	0	0	0	2
	0300	1	5	4	2	1	0	0	0	18	12	1	0	0	2
	0600	0	1	2	4	1	0	0	0	23	7	0	1	0	2
	0900	0	5	1	1	6	0	10	0	8	20	2	0	1	6
	1200	0	4	0	2	4	2	4	1	9	18	3	1	0	5
	1500	0	6	0	0	4	0	6	0	15	15	1	0	0	3
	1800	0	0	3	1	2	0	0	0	25	5	0	1	0	2
	2100	1	3	3	3	0	0	0	0	21	8	2	0	0	2
ANAH	0300	2	1	2	0	2	1	8	2	13	12	6	0	0	5
	0600	1	0	7	0	1	1	16	1	4	14	11	2	0	10
	0900	6	1	4	0	1	1	15	3	0	21	8	2	0	11
	1200	5	0	5	0	3	2	12	3	1	18	11	1	0	10
	1500	2	2	5	0	2	3	14	3	0	22	9	0	0	9
	1800	1	2	5	1	1	1	7	3	10	14	5	2	0	7

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.
RUTBAH	0000	0	0	1	1	0	10	9	7	3	21	7	0	0	8
	0300	0	0	1	0	0	15	9	5	1	24	5	1	0	9
	0600	1	0	0	0	3	12	10	5	0	17	11	3	0	12
	0900	5	0	0	2	0	7	6	11	0	11	15	5	0	14
	1200	6	1	0	1	1	6	10	6	0	10	17	4	0	14
	1500	7	2	0	3	2	4	7	6	0	9	19	3	0	14
	1800	7	1	5	1	4	1	4	8	0	19	10	2	0	11
	2100	3	0	4	1	0	5	6	8	4	17	10	0	0	9
HABBANIYA	0000	0	0	5	1	1	0	6	4	14	13	3	1	0	6
	0300	1	0	5	2	1	0	6	7	9	17	5	0	0	6
	0600	1	2	1	3	3	1	12	7	1	21	7	2	0	9
	0900	3	0	1	2	5	0	6	11	3	15	12	1	0	10
	1200	3	1	1	2	5	1	5	13	0	17	13	1	0	10
	1500	5	0	3	3	0	2	3	9	6	18	7	0	0	6
	1800	1	0	5	3	1	1	0	5	15	10	5	1	0	5
	2100	0	0	4	2	2	0	1	6	16	11	2	2	0	5
BAGHDAD	0000	7	1	2	3	1	1	2	11	3	25	3	0	0	6
	0300	4	1	1	6	0	1	2	11	5	21	5	0	0	6
	0600	6	3	0	6	4	2	2	6	2	21	8	0	0	8
	0900	10	1	0	6	4	0	5	5	0	20	9	2	0	11
	1200	7	1	0	6	2	2	4	0	1	14	15	1	0	11
	1500	5	4	2	4	1	2	2	11	0	25	6	0	0	8
	1800	4	1	2	7	2	1	2	10	2	25	4	0	0	6
	2100	5	2	1	7	1	0	4	9	2	24	5	0	0	7
NUKHAIB	0600	3	0	1	0	2	3	10	4	0	17	14	0	0	11
	0900	2	0	1	2	0	1	19	6	0	19	12	0	0	10
	1200	0	1	1	3	1	1	15	6	1	19	10	1	0	9
	1500	2	2	1	1	3	0	14	6	2	23	6	0	0	8
	1800	2	1	1	1	2	0	11	7	6	10	17	0	0	6
HAI	0000	3	1	3	4	4	0	3	6	7	19	3	2	0	7
	0300	3	0	6	4	1	0	7	5	5	21	3	2	0	7
	0600	0	0	2	9	1	0	5	5	1	23	5	1	1	8
	0900	5	0	3	3	4	2	3	6	0	23	5	2	1	9
	1200	5	0	3	1	4	0	12	5	1	16	9	5	0	10
	1500	7	0	3	3	2	0	8	7	1	26	4	0	0	5
	1800	6	1	2	4	1	0	6	5	5	19	4	2	0	7
	2100	3	1	6	3	1	1	5	9	2	24	5	0	0	6

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)		DIRECTION	TIME GMT.	DAY
SINJAR	18	KNOTS.	270	1800	13th
MOSUL	20		150	0300	18th
SALAHADDIN	40		150	0600	18th
KIRKUK	40		160	0900	18th
ANAH	30		250	0900	22nd
RUTBAH	28		200	0600	31st
HABBANIYA	22		120	2100	31st
BAGHDAD	28		270	0900	22nd
NUKHAIB	22		270	1200	22nd
HAI	36		090	0900	10th
NAJAF	20		290	0900	10th
DIWANIYA	32		110	0600	10th
NASIRIYA	30		130	0600	10th
BASRAH	32		160	1200	10th

MARCH 1970 TABLE 12a.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2				6.0			
3				tr.			
4							
5							
6							
7							
8							
9		6.4	4.8	6.0	1.5	0.3	0.8
10	15.7	42.6	28.0	22.4	7.0	0.3	13.0
11	15.7	5.2	14.2	1.1	3.3	0.6	
12	tr.	2.3	1.3	28.6	3.9	tr.	7.6
13	tr.	0.6	21.2	2.7			0.2
14			4.5	5.0			
15			tr.				
16							
17				tr.			
18	tr.	1.2	0.7	3.6			tr.
19			tr.		tr.		
20							
21							
22	5.2		1.0			tr.	tr.
23	1.3	4.3	6.8	3.4	tr.	0.9	
24			17.6	tr.	tr.		
25			tr.				
26							
27							
28							
29							
30							
31		tr.	[illegible]	1.1	1.6		0.2
TOTAL	37.9	62.6	100.1	79.9	17.3	2.1	21.8
NORMAL	65.6	65.0	155.1	85.3	19.9	19.7	26.0

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	76.0 mms.	4 th	1939
MOSUL	53.2	6 th	1954
SALAHADDIN	80.8	15th	1961
KIRKUK	97.6	1 st	1953
ANAH	26.0	20th	1951
RUTBAH	17.8	11th	1961
HABBANIYA	35.4	23rd	1954

MARCH 1970. TABLE 12b.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2			3.0			0.8	6.2
3			2.0				
4							-
5							
6							
7							
8							
9	1.4	1.0	tr.	1.9	0.3	0.6	9.0
10	3.0	tr.					1.6
11		tr.		tr.	tr.		
12	0.5		1.5			4.5	tr.
13		tr.		tr.		0.5	
14							
15							
16							
17							
18	tr,		tr.	tr.	tr.	4.1	tr.
19							5.0
20							
21							
22							
23	tr.						
24			tr.	tr.	0.1	tr.	3.0
25							
26							
27							
28							
29							
30							
31							
TOTAL	5.7	1.0	6.5	1.9	0.4	10.5	24.8
NORMAL	28.5	6.2	25.7	1.1	19.3	19.2	24.9

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	55.6 mms.	16th	1938
NUKHAIB	15.7	15th	1938
HAI	49.1	13th	1946
NAJAF	5.8	10th	1953
DIWANIYA	66.2	27th	1955
NASIRIYA	35.6	14th	1946
BASRAH	50.9	5 th	1946

MARCH 1970. TABLE 12c. (11)

DAILY PRECIPITATION(MILLIMETERS) tr. < 0.05mm

DAYS	AMA-DIYA	AS-LUBI	TEL-ADTA	THARI-QARAH	ZAK-HO	HAMAM-ALIL	QU-AIR	AQ-RAH	SHIR-QAT	BASH-IQA	MAK-HMOOR
1											
2											
3											
4											
5											
6											
7											
8											
9	12.5	tr.			7.8	0.9		16.4		7.5	7.0
10	12.0	20.0	5.0		14.8	45.0	30.0	42.6	43.6	32.0	42.0
11		9.0	15.0	10.0	4.4	3.6	15.0	54.8	4.0	8.0	
12		1.0		0.1		0.8				6.0	2.0
13				11.0		0.4	10.0	3.5		4.0	7.0
14	39.0			29.0				5.3		4.0	
15	5.0				7.8	0.6		3.4			
16											
17											
18	4.0										
19								4.2			
20											
21	13.0										
22	6.0				30.5			5.2			
23		2.0	54.0		15.7			14.8	4.8	1.5	3.0
24				0.1		0.3					
25											
26											
27											
28											
29											
30											
31											
TOTAL	91.5	32.0	74.0	50.2	81.0	59.6	55.0	161.2	53.2	63.0	73.0

MARCH 1970. TABLE 12 d.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	RABI-AA -	JALA-ULA -	BALA-DROZ -	MAN-DILI	HIT	IFT-IKHAR	HAW-IJA	MAW-LAWI	TEL-AFAR	HALA-BJA	BAQ-UBA
1											
2								8.0			
3			6.0	6.2				4.0		35.0	36.5
4											
5											
6											
7											
8							.7				
9				7.5			8.7	24.0	7.0		
10	8.0			38.0	37.0	68.6	33.4	4.0	25.0		6.5
11	16.0	25.4	9.0	6.5	2.7				9.0	25.0	
12			6.0				7.5		1.0	5.0	1.0
13	12.0								2.0		
14								12.0		12.0	
15											
16											
17											
18										20.0	2.5
19		10.4									
20											
21											
22									2.0		
23	16.0						1.3	16.0			
24				3.5				4.0		12.0	
25											
26											
27											
28											
29											
30											
31					0.7		11.5			3.0	
TOTAL	52.0	35.0	21.0	63.7	40.4	68.6	62.4	72.0	46.0	167.0	46.5

MARCH 1970 TABLE 12 e. (13)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	TEK-RIT	SAMA-RRA	HADI-THA	BAI-JI	KUT	MAN-SOOR	DUJ-AIL	MISH-KHAB	AQRA	IFR-AZ	QA-IM
1											
2					2.3						
3					1.2						
4									1.6		
5											
6											
7											
8									tr.		
9		0.7	12.0	6.1		5.0					
10	21.3	27.0	10.0	45.0		20.0	22.0	15.0		2.3	
11		0.1	12.0	1.4		4.0	5.0	28.8		14.6	
12	21.8	1.4		8.0			3.0			5.7	10.9
13				1.2						1.4	
14					2.2					2.5	
15									tr.	3.9	
16											
17		tr.									
18						1.0					
19											
20											
21											
22											
23											
24		0.1									
25											
26											
27											
28											
29					1.1						
30											
31											
TOTAL	43.6	29.3	34.0	69.0	6.8	30.0	30.0	43.8	1.6	30.4	10.9

MARCH 1970 . TABLE 13.

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRA
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	5.0	8.8	9.0	13.9	15.6	8.4	18.2	18.2	5.3	17.8	18.8	17.6	17.9	10.6	19.2	20.6	4.8
2	7.2	9.5	8.4	14.0	15.9	11.1	18.5	18.5	6.8	17.9	19.1	18.2	18.2	15.6	19.7	20.6	10.7
3	3.5	9.0	7.9	14.4	15.9	9.5	18.6	18.6	13.0	18.2	19.2	18.8	18.4	16.9	20.5	20.7	14.2
4	3.0	9.2	7.6	14.7	16.0	6.7	18.5	18.8	5.2	18.7	19.2	18.4	18.3	14.1	21.0	20.7	8.0
5	3.8	9.5	6.5	14.5	16.1	8.4	18.8	18.8	8.4	18.3	19.4	18.1	18.7	12.0	20.3	20.6	11.1
6	4.5	9.5	6.5	14.4	16.1	7.8	18.5	19.0	6.5	18.0	19.4	18.0	18.5	10.0	19.7	21.0	8.2
7	6.0	9.8	7.0	14.3	16.1	9.2	18.6	18.8	8.1	17.9	19.5	18.2	18.6	9.3	19.5	20.9	4.5
8	2.0	8.4	4.1	13.9	16.1	6.1	18.6	19.0	2.8	17.7	19.6	17.2	19.0	5.5	19.2	26.4	2.8
9	4.5	9.2	10.8	14.5	16.1	9.1	18.7	19.0	6.3	18.3	19.8	18.2	19.0	13.0	19.8	21.0	5.6
10	7.2	8.5	10.3	15.1	16.4	12.2	19.0	19.0	12.2	18.8	19.7	19.3	19.2	13.2	21.0	20.0	14.0
11	6.5	8.5	10.0	14.1	16.4	12.5	18.0	19.0	11.5	17.4	19.1	19.0	19.2	12.2	20.0	21.0	8.5
12	5.8	8.0	8.5	14.4	16.3	11.7	18.8	19.0	12.0	18.5	19.8	19.4	19.4	12.9	21.4	21.0	8.0
13	6.5	8.4	7.0	14.4	16.3	12.8	18.8	19.0	9.2	18.3	19.8	19.3	19.3	10.7	20.8	21.0	6.3
14	6.2	8.0	5.7	14.9	16.5	10.4	19.0	19.3	8.6	18.8	19.8	19.4	19.7	13.0	20.6	21.0	8.8
15	5.2	7.8	5.0	14.5	16.4	8.9	19.2	19.2	5.4	18.5	20.0	19.2	19.8	9.7	20.5	21.1	5.6
16	6.2	10.0	5.6	14.4	16.1	9.4	19.0	19.0	5.7	18.2	20.0	19.0	20.2	9.5	20.2	21.2	4.4
17	5.4	10.8	8.6	15.0	16.5	11.1	19.7	19.3	5.6	19.0	20.0	20.2	20.0	11.2	20.8	21.1	5.3
18	9.0	11.2	15.8	15.7	16.5	17.8	20.5	19.4	17.3	20.0	21.0	21.9	20.4	13.8	22.3	21.2	10.6
19	7.8	9.2	10.6	15.5	16.4	13.2	20.8	19.5	15.0	20.1	20.5	21.7	20.4	15.6	22.2	21.1	17.6
20	4.8	6.8	5.6	15.1	16.6	8.4	20.7	19.7	5.5	20.0	20.5	21.3	20.6	13.3	22.0	21.3	12.5
21	4.2	8.5	6.4	15.0	16.6	8.9	20.9	19.7	5.0	20.2	20.4	21.4	20.8	12.4	22.2	21.3	5.8
22	7.4	9.5	11.2	15.4	16.6	11.3	20.0	20.0	6.6	20.2	20.5	21.3	20.7	15.0	22.6	21.3	10.1
23	8.5	10.2	9.0	15.6	16.6	8.9	21.0	20.0	8.4	20.0	20.5	21.0	20.0	12.5	21.9	21.4	10.1
24	5.5	10.5	4.0	15.0	16.7	8.7	20.6	20.0	6.0	20.2	20.6	20.8	21.4	12.0	21.6	21.3	5.4
25	6.0	10.5	4.7	14.7	16.8	8.4	20.8	20.0	5.4	20.0	21.0	18.4	21.2	7.0	21.1	21.4	5.7
26	5.8	10.8	4.5	15.5	17.0	8.4	21.0	20.2	6.4	20.3	21.0	19.8	21.1	12.5	21.4	21.5	xxx
27	5.7	12.5	4.5	15.5	16.8	9.3	21.4	20.2	5.0	20.4	20.8	20.7	21.0	12.5	21.8	21.7	5.0
28	5.0	13.0	4.2	16.0	16.8	8.2	21.7	20.5	5.8	20.7	20.8	21.0	21.0	13.4	21.9	21.7	5.4
29	7.2	10.8	8.7	16.8	16.3	9.5	22.0	20.5	6.5	21.4	21.6	21.6	21.1	11.7	22.4	21.8	5.1
30	8.5	14.5	10.5	16.5	17.0	11.1	22.3	20.5	8.2	21.6	21.0	22.5	21.4	14.5	22.7	21.8	11.4
31	8.0	15.2	11.0	16.9	17.2	13.6	22.7	20.6	8.2	22.3	21.1	23.3	21.7	13.8	23.4	22.1	7.3
MEANS	5.9	9.9	7.7	15.0	16.4	10.0	19.8	19.4	7.8	19.3	20.1	19.8	19.9	12.2	21.1	21.3	8.1

MARCH 1970. TABLE 14.

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	5	5	8	8	6	7	4	4	7	3
2	5	4	4	7	6	7	5	4	5.8	5.2
3	5	3	3	7	3	8	4	3	4	7
4	6	3	4	5	6	8	4	5	6	4
5	4	6	4	5	5	7	5	3	5	4
6	5	5	5	4	9	7	4	5	6	3
7	5	4	4	6	10	8	4	3	3	3
8	6	4	5	6	5	9	4	3	4	3
9	6.4	5	1.5	4.3	8.4	6.8	4.9	2.3	6.6	7.0
10	4.6	3.4	3.0	5.3	2.8	7.0	4	5	4	4.6
11	5.2	2.1	1.3	4.6	5	6	4	3	4	2
12	5.3	6.6	2.9	4	3.5	7	4	4	4.5	3
13	5.6	2.7	4	2	5	6	5	4	3.5	3
14	6	4	5	3	7	8	3	4	3	5
15	4	2	1	7	3	7	3	3	3	3
16	4	2	5	6	6	9	4	4	3	3
17	5	7	5	8	11	10	4	5	6	3
18	5.2	5.6	7	8	3	10	4	4	8.1	8
19	6	6	5	8	8	8	5	4	4	4
20	5	4	3	6	13	8	6	5	5	6
21	6	4	4	9	8	8	5	4	5	3
22	6	5	3	13	6	7	5	4	5	7
23	8.3	9.4	4	8.9	7	7	4	5	4	6
24	6	3	5	6	6	7	4	4.1	5	5
25	7	5	5	7	7	7	5	4	5	4
26	6	4	5	8	9	8	4	4	4	4
27	7	5	4	7	7	8	5	4	4	5
28	7	5	5	8	7	9	6	5	5	5
29	8	5	6	10	9	9	5	6	5	6
30	8	5	6	9	11	9	5	6	6	5
31	6	6.1	7.6	10	10	9	8	7	6	6
TOTAL	180.6	131.9	134.3	210.1	214.7	241.8	140.9	133.4	149.5	141.8
MEANS	5.8	4.4	4.3	6.8	6.9	7.8	4.5	4.3	4.8	4.6

CLIMATOLOGICAL SUMMARY

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	4	0	0	1	0	2	1	1	0	0	0	3	8	-	-	-	-
MOSUL	7	0	0	2	0	0	0	0	0	0	0	2	7	209.3	12.0	26th	4
SALAHADDIN	10	0	0	4	0	0	1	4	0	2	0	3	10	-	-	-	-
KIRKUK	10	0	1	9	0	2	4	1	4	1	0	6	7	-	-	-	-
ANAH	5	0	0	2	0	0	0	8	1	0	0	3	2	-	-	-	-
RUTBAH	4	0	0	0	0	0	1	9	2	0	0	7	2	-	-	-	-
HABBANIYA	5	0	0	2	0	3	2	6	2	1	0	7	3	257.6	11.5	28th	0
BAGHDAD	3	0	0	4	0	3	1	2	4	1	0	6	2	248.7	11.2	28th	0
NUKHAIB	1	0	0	0	0	0	0	5	0	1	0	6	2	-	-	-	-
HAI	3	0	0	3	0	0	0	5	2	0	0	6	2	-	-	-	-
NAJAF	1	0	0	2	0	0	0	7	5	0	0	3	3	-	-	-	-
DIWANIYA	2	0	0	1	0	0	3	10	10	1	0	6	1	-	-	-	-
NASIRIYA	5	0	0	3	0	0	1	9	4	2	0	7	2	-	-	-	-
BASRAH	5	0	0	6	1	5	0	2	4	1	0	11	2	279.5	11.6	24th	0

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

STATIONS	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL RECORDS - mbs. HIGHEST	TIME GMT.	DAY YEAR	LOWEST	TIME GMT.	DAY YEAR	RELATIVE HUMIDITY % for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1024.0	1800	4th	1003.4	1500	10th	1028.3	0600	3rd 1962	995.4	0300	12th 1964	99	1800	10th	21	0900	28th
MOSUL	1023.9	0600	4th	1003.5	1500	18th	1032.6	0600	3rd 1961	996.1	0300	12th 1964	97	0300	12th	24	1200	6th
SALAHADDIN	1022.1	1800	25th	1003.3	1800	10th	1025.9	0300	9th 1967	999.8	1200	20th 1969	100	1800	15th	23	1200	6th
KIRKUK	1022.4	0000	5th	1001.5	1500	10th	1030.6	0600	3rd 1961	997.4	0300	12th 1964	99	0000	11th	16	0900	6th
ANAH	1024.3	0300	5th	1002.4	1200	12th	1024.3	0300	5th 1970	998.6	1200	20th 1969	97	1800	10th	11	0900	31st
RUTBAH	1024.1	0600	5th	1004.0	1200	10th	1032.2	0600	3rd 1961	995.8	2100	11th 1964	95	2100	23rd	9	1500	30th
HABBANIYA	1022.3	0900	4th	1001.5	1200	15th	1031.5	0600	3rd 1961	995.4	0000	12th 1964	95	0300	13th	9	0900	31st
BAGHDAD	1021.9	0900	25th	999.9	0900	10th	1031.4	0600	3rd 1961	996.1	1200	22nd 1964	93	0300	13th	10	1200	6th
NUKHAIB	1024.4	0600	5th	1004.2	1200	10th	1025.8	0600	11th 1967	998.0	1500	19th 1969	94	0600	10th	14	1200	1st
HAI	1021.7	0900	25th	1002.7	0900	10th	1028.0	0600	3rd 1961	998.9	1500	19th 1969	93	0300	4th	23	1200	31st
NAJAF	1021.9	0900	4th	999.4	0600	10th	1024.6	0600	16th 1965	995.8	0600	12th 1964	88	0000	14th	9	1200	30th
DIWANIYA	1021.6	0900	25th	1000.9	0900	10th	1030.1	0900	3rd 1961	995.8	1300	22nd 1941	86	0000	26th	12	1200	30th
NASIRIYA	1021.3	0600	25th	1000.0	0300	10th	1029.1	0600	9th 1959	998.8	1200	19th 1969	88	0300	4th	14	0900	18th
BASRAH	1021.0	0900	25th	1000.4	1200	15th	1028.4	0600	9th 1959	995.9	1300	22nd 1941	99	0300	3rd	22	0900	22nd

MARCH 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	31	117	171	45	31	15.6	27.0	10.9	31	6.3	26	340	04	160	20	100	04
850	31	1486	1539	1422	31	8.8	19.4	3.9	31	-2.3	26	280	07	180	30	000	00
700	31	3060	3163	2993	31	-2.9	6.6	-8.5	31	-13.2	26	280	11	240	34	260	05
500	31	5653	5979	5508	31	-19.5	-10.3	-32.2	30	-30.0	25	270	20	220	57	320	09
300	31	9239	9566	8896	31	-45.9	-37.8	-52.0	30	-54.7	19	310	44	250	102	180	14
200	31	11850	12202	11439	31	-56.5	-46.6	-64.0	30	-66.0	18	270	52	250	95	310	20
150	31	13678	14031	13234	31	-57.5	-51.1	-65.3	29	-65.1	16	260	65	250	122	300	29
100	29	16212	16591	15992	29	-62.7	-67.3	-58.0	22	-71.3	12	260	49	260	90	240	18
70	28	18400	18736	18154	28	-64.1	-58.3	-70.7	21	-73.1	10	300	37	280	97	230	24

NOTE: N= Total number of observation.

MARCH 1970. TABLE 17.

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

STATION: BAGHDAD RADIOSONDE STATION. TIME GMT. 0000

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST						
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
00004	31	2727	733	-10.1	4320	800	-1.2	1960	608	-28.0	16	17399	84	-62.8	19190	135	-63.0	14380	62	-72.4	10200	256	240	142

NOTE: N = Total number of Observation.

الجمهورية العراقية

وزارة المواصلات

مديرية الديوان المدني العامة

مديرية الانواء الجوية

مديرية المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٣

العدد : ٤

الشهر : نيسان

السنة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 33

No. : 4

Month : APRIL

Year : 1 9 7 0

APRIL 1970.

GENERAL SITUATION : DRY AND UNSTABLE

MAIN FEATURES : The pronounced system during the month was the low pressure waves, Four systems from the western disturbances were associated with fronts on the first, 6th, 17th and 18th. Some of the Med. depressions trended towards Turkey. An increase in the number of depressions from Saudi Arabia, with respect to the number of depressions of the previous month. 7 cases of Basrah gulf through pentrated to the Country. Sense depression crossed the country twice.

PRESSURE : Pressure reading was 1022.8 mb at Mosul, and is above normal 10 mbs, lowest pressure reading was 996.3 mb, at Ana, and is below normal 15 mb.

TEMPERATURE : Highest maximum temperature was 44.2 °C at Basrah and is 20 °C above normal and 14 °C above normal max., the lowest minimum temperature was 5.2 °C at Salaheddin, and is 7 °C below normal and 3 °C above normal min.

WIND : Prevailing surface wind direction was Northwesterly, and Southerly in the mountain regions, speed was generally fresh and strong in the Central area, it is exceeded 35 Kts twice in the Central area and once in the Southern regions.

RELATIVE HUMIDITY : Relative humidity was generally below normal

PRECIPITATION : Number of days were below normal, and total amount of rainfall was below normal too,, except Baghdad was 5 mm above normal. Highest total amount of rainfall was 34.5 mm at Salaheddin .

OTHER PHENOMENAE : T hunderstorms were generally below normal. Dust occured frequently in the Central area and was slightly above normal.

APRIL 1970 TABLE 1a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	22.6	1[illegible].3	23.5	1[illegible].1	1[illegible].3	13.4	27.0	14.9	27.6	15.3
2	22.1	1[illegible].2	26.2	12.1	20.[illegible]	12.0	25.7	14.4	2[illegible]	1[illegible].5
3	24.1	9.2	25.2	[illegible]	20.1	10.3	27.2	13.3	29.5	1[illegible].0
4	23.2	9.[illegible]	28.0	12.[illegible]	22.0	10.6	31.0	14.3	32.1	11.6
5	25.1	[illegible].2	2[illegible].6	1[illegible].5	22.0	13.4	29.5	2[illegible].9	31.1	14.5
6	22.0	15.1	23.6	15.3	1[illegible].0	14.0	2[illegible].1	17.5	30.4	19.2
7	22.8	1[illegible].2	25.0	14.4	21.4	13.6	2[illegible].3	21.6	26.6	16.1
8	20.7	1[illegible].0	24.7	15.4	1[illegible].0	[illegible].9	24.9	11.4	25.7	12.4
9	24.8	10.8	25.5	[illegible].3	20.1	[illegible].5	26.2	11.2	27.0	[illegible].6
10	27.8	14.4	26.4	10.5	22.3	11.7	2[illegible].7	13.4	31.0	10.0
11	30.0	17.6	29.9	9.0	24.7	14.0	31.3	15.6	36.5	10.0
12	30.8	16.4	32.9	14.4	27.4	15.4	35.0	1[illegible].3	37.6	13.6
13	32.9	15.4	33.5	14.5	28.0	16.4	35.0	1[illegible].9	37.0	14.0
14	33.5	17.0	36.0	14.5	29.1	17.3	37.9	20.0	39.0	17.0
15	29.5	17.9	32.0	20.5	25.0	14.2	36.6	23.0	34.1	20.9
16	29.5	17.4	32.5	14.4	25.6	16.4	34.8	19.7	34.5	17.0
17	27.6	17.5	34.0	1[illegible].5	21.4	16.5	37.1	23.0	32.5	17.2
18	24.6	16.1	28.3	16.4	21.4	13.3	30.2	21.4	24.0	16.8
19	16.5	11.9	20.5	14.4	13.5	11.5	24.4	18.6	22.0	14.5
20	18.8	[illegible].4	24.0	6.7	13.4	5.2	22.7	11.0	24.2	9.3
21	18.8	[illegible].5	25.0	1[illegible].3	15.0	6.6	25.7	11.7	24.7	10.6
22	22.8	1[illegible].2	26.0	9.4	17.1	7.3	27.4	11.8	26.6	10.6
23	24.7	12.5	28.2	11.2	20.0	10.4	26.5	16.4	29.9	12.4
24	25.6	12.2	28.1	11.5	20.0	9.0	27.4	12.4	31.2	11.1
25	27.5	15.4	30.0	11.4	22.0	12.4	30.2	14.7	32.8	13.0
26	28.6	15.2	31.7	11.4	24.3	14.0	33.2	16.5	33.5	13.4
27	27.2	16.4	32.7	13.4	24.2	19.0	33.6	17.9	33.2	16.4
28	24.5	15.2	23.4	17.3	17.4	15.0	21.6	19.4	29.6	22.0
29	25.1	15.4	30.6	14.8	21.0	14.0	27.4	15.6	31.0	17.8
30	25.3	17.3	27.0	16.2	21.0	13.0	28.5	17.5	32.0	14.2
MEANS	25.4	13.6	28.1	12.9	21.3	12.6	29.4	16.5	30.6	13.6
NORMAL	....	....	25.3	9.7	....	....	25.5	13.0	....	....
HIGHEST	33.5	23.0	40.0	23.3	29.1	19.0	39.6	23.7	39.0	22.2
DAY	14th	28th	?	29th	14th	27th	26th	24th	14th	16th
YEAR	1970	1966	1928	1958	1970	1970	1950	1959	1970	1968
LOWEST	7.0	0.0	11.1	-1.6	6.0	1.0	10.0	1.0	18.0	2.0
DAY	4th	5th	13th	1st	13th	13th	4th	5th	16th	13th
YEAR	1965	1965	1939	1956	1969	1969	1965	1965	1969	1969

APRIL 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	26.5	13.2	28.6	17.5	27.2	20.4	29.1	18.1	34.0	16.5
2	26.6	9.2	27.0	14.0	29.4	14.4	27.3	12.7	31.3	15.2
3	28.4	11.3	30.2	15.0	30.0	13.2	30.1	13.4	32.5	14.9
4	30.8	14.0	33.4	16.0	33.7	14.2	32.0	14.8	35.5	18.0
5	33.2	15.3	32.4	20.0	33.7	15.0	34.7	17.2	36.3	18.8
6	33.0	16.3	32.3	18.5	36.1	16.0	38.4	18.8	36.8	17.3
7	25.8	13.6	29.2	22.0	30.3	24.4	28.3	19.5	34.0	20.5
8	23.5	1[illegible].4	26.0	13.5	28.0	13.4	24.8	13.9	31.0	18.0
9	26.8	6.[illegible]	27.0	10.9	29.0	10.8	29.1	10.2	28.5	13.2
10	32.0	6.7	32.9	12.7	32.6	11.7	32.9	10.2	30.5	13.6
11	35.8	12.5	34.0	13.8	35.4	14.2	36.4	13.5	35.2	16.8
12	35.6	15.6	37.0	16.8	37.0	15.2	37.5	16.7	35.2	20.0
13	37.6	15.0	36.4	17.0	38.2	17.0	38.1	16.9	37.7	17.0
14	37.0	12.9	38.0	18.5	38.6	16.0	39.1	18.1	38.5	18.1
15	32.2	17.7	38.6	22.0	39.4	17.6	36.8	19.9	38.5	19.5
16	32.0	14.8	35.4	19.0	37.6	20.0	35.8	18.6	38.2	21.0
17	26.6	14.6	38.0	19.0	38.0	18.6	36.1	20.5	32.5	21.5
18	22.2	13.5	31.0	21.5	34.2	22.0	26.6	20.2	34.0	21.6
19	18.5	10.0	24.2	16.5	25.9	18.0	22.6	15.5	29.5	23.0
20	20.2	8.6	24.5	13.0	25.9	13.5	24.0	10.6	27.2	15.8
21	19.3	10.1	28.0	13.0	27.5	11.8	22.0	10.9	29.0	12.7
22	32.8	8.4	26.7	12.0	27.0	12.0	24.0	9.7	25.4	17.6
23	27.0	9.8	28.0	15.0	26.2	15.0	29.0	12.2	24.3	15.0
24	29.0	12.2	30.5	14.2	30.0	12.4	30.1	11.6	28.5	14.0
25	29.7	11.0	32.0	13.5	31.6	12.6	31.0	12.5	31.6	14.8
26	30.6	14.0	34.2	14.0	34.0	12.8	32.0	13.1	34.6	15.0
27	31.8	17.6	33.2	16.0	33.4	12.7	33.7	16.7	33.4	16.0
28	29.1	16.8	31.4	18.6	29.3	20.5	31.7	20.0	32.8	23.0
29	27.2	14.9	21.2	16.5	21.4	17.0	28.9	18.9	35.0	20.0
30	29.0	14.0	29.2	14.5	29.7	13.5	32.4	18.4	33.6	19.0
MEANS	28.7	13.0	31.0	16.2	31.7	15.6	31.2	15.1	33.1	17.6
NORMAL	25.7	9.9	29.3	14.9	29.0	14.6	....	....	30.0	15.6
HIGHEST	39.0	22.8	41.1	29.5	41.7	25.0	39.5	22.0	40.3	25.7
DAY	23rd	8th	30th	30th	28th	28th	30th	16th	23rd	29th
YEAR	1959	1952	1944	1965	1958	1969	1956	1966	1959	1969
LOWEST	9.4	-2.0	15.2	2.2	15.8	1.2	16.5	4.0	16.6	1.9
DAY	8th	1st	4th	2nd	7th	1st	4th	5th	5th	1st
YEAR	1937	1956	1965	1956	1957	1956	1965	1965	1964	1956

APRIL 1970. TABLE 1b.

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	32.2	7.6	33.0	17.0	33.0	19.5	35.6	19.6
2	31.6	6.0	30.6	16.9	32.6	18.3	32.5	19.2
3	32.2	7.0	32.6	17.1	33.5	18.5	33.4	18.9
4	35.0	7.0	34.4	17.9	33.4	19.4	35.5	21.9
5	37.5	17.0	35.6	18.1	35.0	20.2	35.9	20.7
6	39.0	1[illegible].0	36.4	17.4	38.0	20.3	36.5	20.9
7	32.0	26.0	31.3	21.0	37.6	22.5	38.0	21.9
8	20.5	17.2	27.5	17.3	29.6	19.0	30.6	22.5
9	29.6	13.0	29.1	14.2	20.2	17.7	29.7	20.1
10	32.3	15.4	32.0	13.5	30.0	15.4	30.3	15.6
11	36.0	1[illegible].5	34.5	15.4	34.1	17.2	32.6	17.2
12	37.0	19.3	36.4	19.1	35.2	20.0	34.3	21.0
13	38.6	21.7	37.5	17.0	37.4	20.5	36.1	19.6
14	40.2	20.0	39.3	18.2	38.0	19.6	36.6	19.0
15	42.5	22.2	40.6	19.0	35.0	20.7	39.0	19.1
16	38.2	23.4	37.0	20.3	37.1	23.0	39.5	21.5
17	39.0	24.0	39.7	22.4	36.7	24.0	40.9	19.6
18	33.8	22.0	33.0	23.0	34.5	23.5	44.2	24.4
19	25.5	10.5	25.2	22.6	30.5	23.5	31.0	24.9
20	26.5	16.7	26.3	13.4	26.7	16.1	28.2	18.2
21	29.0	15.6	29.0	11.0	28.4	17.7	29.1	17.0
22	24.6	15.2	23.6	11.0	24.5	18.2	28.3	17.9
23	28.5	14.6	27.0	15.2	26.6	14.5	27.7	15.2
24	31.0	15.0	30.6	13.2	29.4	15.5	29.4	14.9
25	32.2	16.4	31.9	13.1	31.0	15.7	30.0	16.2
26	35.0	18.0	34.1	14.0	32.8	17.0	33.4	17.0
27	32.5	18.0	33.0	16.0	32.1	17.2	33.5	18.5
28	36.5	22.2	34.0	21.9	33.6	23.2	36.4	23.6
29	29.2	20.3	31.3	20.6	34.1	22.2	35.4	24.4
30	33.0	17.0	32.6	17.4	33.5	22.0	31.6	20.2
MEANS	33.4	18.6	32.0	17.4	32.9	19.5	34.0	19.7
NORMAL	....	....	30.2	14.1	29.6	15.7	30.0	18.2
HIGHEST	42.5	26.0	42.0	27.0	42.0	27.2	44.2	26.0
DAY	15th	7 th	10th	28th	20th	30th	18th	28th
YEAR	1970	1970	1958	1958	1942	1959	1970	1969
LOWEST	17.0	7.0	16.4	1.6	17.0	3.6	16.1	2.0
DAY	4th	5th	6th	2nd	5th	2nd	4th	4th
YEAR	1965	1965	1959	1946	1969	1956	1944	1944

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	16.9	21.0	23.3	24.5	23.4	20.6	....	21.6
MOSUL	15.1	14.1	19.7	25.1	27.1	24.6	19.6	16.8	20.1
SALAHADDIN	....	16.0	17.3	19.1	19.6	18.2	15.2	....	17.4
KIRKUK	18.8	19.2	22.0	26.2	28.3	25.9	21.7	19.9	22.7
ANAH	....	14.7	19.7	27.2	29.0	27.9	22.2	....	23.6
RUTBAH	15.2	13.7	19.7	25.0	27.9	26.9	21.4	18.0	21.1
HABBANIYA	18.5	18.5	23.3	28.4	30.5	27.5	23.3	20.8	23.7
BAGHDAD	17.8	16.4	24.1	29.1	30.9	28.6	22.6	20.0	23.7
NUKHAIB	....	....	22.5	28.4	30.5	28.0	23.9	....	26.0
HAI	19.0	18.3	25.5	30.7	32.4	29.0	23.0	21.6	25.1
NAJAF	20.7	18.9	25.2	30.7	33.2	30.7	25.7	23.0	26.1
DIWANIYA	18.2	18.2	25.1	30.3	32.3	29.7	24.4	21.9	25.0
NASIRIYA	21.9	21.2	25.1	30.5	32.0	30.4	26.5	23.8	26.3
BASRAH	21.9	21.2	25.1	31.3	32.4	29.2	25.5	24.0	26.3

TABLE 3. WET-BULB TEMPERATURES (°C)

SINJAR	....	10.6	12.7	13.7	14.1	13.7	12.5	....	12.9
MOSUL	11.8	11.3	13.7	16.5	17.0	16.0	14.3	12.9	14.2
SALAHADDIN	....	10.1	11.6	13.0	13.1	12.4	10.5	....	11.8
KIRKUK	12.6	13.1	14.9	15.9	16.3	15.9	14.4	13.3	14.4
ANAH	....	13.1	13.0	16.1	17.0	16.4	14.0	....	14.4
RUTBAH	10.3	9.6	12.9	15.3	16.4	15.9	13.3	11.7	13.2
HABBANIYA	13.4	13.0	15.8	17.3	17.6	17.2	15.5	14.6	15.6
BAGHDAD	12.7	12.0	15.8	17.4	17.5	16.9	15.1	13.8	15.2
NUKHAIB	....	....	12.5	14.7	15.4	14.9	13.1	....	14.1
HAI	15.0	14.4	12.8	19.7	19.8	19.4	17.1	16.2	16.8
NAJAF	13.9	13.0	16.0	17.5	18.1	17.5	16.2	15.0	15.9
DIWANIYA	13.3	13.6	17.0	18.6	19.0	18.3	16.6	15.3	16.5
NASIRIYA	15.9	14.8	17.3	19.0	19.4	19.2	19.0	17.6	17.8
BASRAH	17.9	16.8	19.9	21.6	21.8	21.0	20.0	19.0	19.8

TABLE 4 VAPOUR PRESSURE (MBS.)

SINJAR	....	7.2	8.3	8.1	7.4	8.0	7.8	....	7.8
MOSUL	11.3	11.3	11.6	12.3	11.8	11.4	12.2	11.8	11.7
SALAHADDIN	....	8.5	9.2	10.8	8.9	10.1	9.2	....	9.5
KIRKUK	9.8	9.4	10.0	10.0	9.1	10.4	10.8	10.1	10.1
ANAH	....	8.8	9.0	9.5	9.2	9.5	9.6	....	9.4
RUTBAH	8.7	8.7	9.5	9.4	9.7	9.3	9.8	8.8	9.1
HABBANIYA	11.4	11.6	12.2	11.0	9.9	11.5	11.8	11.9	11.4
BAGHDAD	10.7	10.6	11.7	10.6	9.4	10.5	11.2	11.0	10.7
NUKHAIB	....	....	6.6	5.9	5.5	5.9	6.5	....	6.1
HAI	13.4	13.3	15.0	14.4	13.2	15.0	14.5	14.2	14.1
NAJAF	10.6	10.4	10.9	9.5	9.2	9.7	11.8	10.8	10.3
DIWANIYA	11.5	12.7	13.1	12.2	11.5	12.2	12.8	12.2	12.3
NASIRIYA	13.4	12.7	13.7	13.8	12.7	13.5	16.1	15.3	13.8
BASRAH	17.4	16.5	18.5	18.3	17.9	18.6	19.1	18.2	18.1

TABLE 5. DEW-POINT (°C)

SINJAR	....	3.3	3.8	3.7	3.1	3.4	3.3	....	3.4
MOSUL	8.5	8.6	9.0	9.5	8.6	8.7	9.7	9.2	9.0
SALAHADDIN	....	4.5	5.7	6.8	6.7	6.8	5.4	....	6.0
KIRKUK	6.4	5.8	7.7	6.2	5.1	7.0	7.7	7.0	6.6
ANAH	....	4.9	6.3	5.9	5.5	5.8	5.9	....	5.7
RUTBAH	4.6	4.4	5.5	4.8	5.4	5.0	4.7	4.6	4.9
HABBANIYA	8.6	8.8	9.5	7.8	6.2	8.5	9.1	9.2	8.5
BAGHDAD	7.7	7.6	8.7	7.3	5.6	6.2	8.3	8.0	7.4
NUKHAIB	....	....	0.6	-1.7	-2.2	-1.3	0.4	....	-0.7
HAI	11.0	11.0	12.8	12.1	10.9	12.6	12.2	11.0	11.8
NAJAF	7.4	7.2	7.8	5.8	5.3	6.1	7.9	7.6	6.9
DIWANIYA	8.8	9.5	10.6	9.5	8.7	9.8	10.3	9.6	9.6
NASIRIYA	10.9	10.1	11.3	10.4	10.1	11.1	13.8	13.0	11.3
BASRAH	15.0	14.3	15.9	15.8	15.4	16.0	16.5	15.8	15.6

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	42	34	29	26	29	34	...	32
MOSUL	66	7[illegible]	54	39	33	3[illegible]	54	63	52
SALAHADDIN	...	51	48	4[illegible]	46	51	54	...	50
KIRKUK	47	47	40	33	26	33	43	45	39
ANAH	...	53	43	27	22	2[illegible]	36	...	35
RUTBAH	52	5[illegible]	43	31	22	29	37	44	40
HABBANIYA	55	59	44	30	24	32	43	50	42
BAGHDAD	34	57	41	2[illegible]	23	27	41	47	37
NUKHAIB	...	...	25	17	13	1[illegible]	23	...	19
HAI	56	[illegible]4	46	33	27	37	47	56	46
NAJAF	44	4[illegible]	35	22	19	22	34	39	33
DIWANIYA	55	57	41	29	25	30	43	47	4[illegible]
NASIRIYA	51	[illegible]3	43	30	27	31	47	52	42
BASRAH	66	7[illegible]	54	44	3[illegible]	46	59	[illegible]1	54

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

SINJAR	...	14.2	13.3	13.1	12.0	11.7	12.7	...	1012.8
MOSUL	13.8	14.1	15.0	14.1	12.3	12.2	13.4	14.0	1013.6
SALAHADDIN	...	13.0	13.4	13.1	12.2	12.4	14.0	...	1013.2
KIRKUK	12.6	13.4	13.4	12.9	11.4	11.4	12.3	12.0	1012.6
ANAH	...	13.0	14.0	13.7	11.9	11.5	12.0	...	1013.1
RUTBAH	11.8	12.5	13.3	12.6	11.2	10.9	11.8	11.9	1012.0
HABBANIYA	11.6	12.0	12.9	12.5	10.9	10.8	11.7	11.6	1011.7
BAGHDAD	11.1	11.6	12.7	12.4	10.8	10.4	11.7	11.6	1011.5
NUKHAIB	...	...	13.6	12.7	11.3	11.1	12.3	...	1012.2
HAI	10.2	10.8	12.1	11.8	10.2	9.5	10.7	10.8	1010.8
NAJAF	10.7	11.2	12.4	12.0	10.2	9.9	11.2	11.2	1011.1
DIWANIYA	12.3	11.3	12.4	12.1	10.3	10.1	11.2	11.3	1011.4
NASIRIYA	10.0	10.6	12.0	11.4	9.6	9.2	10.5	10.6	1010.5
BASRAH	10.3	10.9	12.3	11.9	10.2	9.9	11.0	11.0	1010.9

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	...	4.9	4.7	4.5	5.3	5.5	3.2	...	4.7
MOSUL	3.0	4.6	5.2	5.6	5.8	5.2	3.8	3.0	4.5
SALAHADDIN	...	4.7	5.0	5.4	5.4	5.3	3.2	...	4.7
KIRKUK	3.5	4.1	4.5	5.5	5.3	5.4	3.5	3.3	4.4
ANAH	...	4.0	4.3	4.6	5.3	4.7	3.0	...	4.3
RUTBAH	1.9	3.6	3.3	3.9	4.4	4.3	2.4	1.8	3.2
HABBANIYA	3.6	4.2	3.6	4.8	4.3	4.2	3.2	3.3	3.9
BAGHDAD	2.4	4.2	4.7	5.1	5.5	4.9	3.1	2.5	4.1
NUKHAIB	...	...	3.2	3.6	4.3	4.3	2.7	...	3.6
HAI	1.5	2.8	3.5	3.6	4.5	4.8	1.9	1.4	3.0
NAJAF	3.2	3.8	4.3	4.9	5.1	4.8	3.6	3.8	4.1
DIWANIYA	1.4	3.6	4.1	4.0	4.5	4.3	1.9	1.6	3.2
NASIRIYA	1.0	3.0	3.6	3.5	3.8	4.2	2.3	1.4	2.9
BASRAH	1.7	3.1	3.2	3.1	3.2	4.0	3.1	2.9	3.0

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

SINJAR	...	0.6	0.5	0.8	1.6	2.0	0.3	...	1.0
MOSUL	2.2	2.5	2.8	3.2	2.7	2.1	2.5	1.9	2.5
SALAHADDIN	...	3.0	3.0	3.4	3.1	3.0	1.9	...	2.9
KIRKUK	2.0	2.0	2.0	2.9	2.6	3.0	2.1	1.6	2.3
ANAH	...	1.5	1.5	1.6	2.1	1.6	1.1	...	1.6
RUTBAH	0.9	0.9	0.7	1.2	2.2	2.1	1.0	0.9	1.2
HABBANIYA	0.7	0.9	0.6	1.5	0.7	0.7	0.4	0.5	0.8
BAGHDAD	0.7	0.8	1.1	1.3	1.4	0.9	0.7	0.4	0.9
NUKHAIB	...	...	0.5	0.7	1.2	1.2	0.6	...	0.8
HAI	0.4	0.5	0.5	1.2	1.0	0.9	0.3	0.3	0.7
NAJAF	0.5	0.9	1.5	1.9	1.5	1.5	1.0	0.7	1.2
DIWANIYA	0.5	1.3	1.3	1.1	1.6	1.3	0.5	0.5	1.0
NASIRIYA	0.0	0.5	0.6	1.0	1.6	0.9	0.6	0.4	0.7
BASRAH	0.2	0.6	0.6	0.6	1.0	1.1	1.3	0.7	0.8

APRIL 1970. TABLE 10a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

APRIL 1970. TABLE 10c. (8)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	25 knots	310	1500	19th
MOSUL	17	330	0000	8 th
SALAHADDIN	25	160	0600	7 th
KIRKUK	30	290	1200	19th
ANAH	28	060	0900	28th
RUTBAH	38	060	1500	28th
HABBANIYA	25	260	1200	18th
BAGHDAD	30	120	1500	28th
NUKHAIB	25	250	0900	19th
HAI	28	120	0600	28th
NAJAF	25	180	0000	28th
DIWANIYA	24	310	0900	19th
NASIRIYA	35	120	1500	28th
BASRAH	[illegible]	[illegible]	[illegible]	[illegible]

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1		tr.	5.0	6.7			0.9
2							tr.
3							tr.
4			tr.				
5		tr.	tr.			tr.	
6		0.[illegible]	tr.	tr.		tr.	tr.
7							
8							
9							
10							
11							
12							
13							
14		tr.	tr.			tr.	
15							
16		0.2	tr.				
17			3.0				
18		[illegible].5	7.5	1.[illegible]	0.4	tr.	
19		[illegible].2	0.0	2.6			tr.
20		tr.	tr.				
21	2.0	[illegible].2	11.[illegible]		tr.	0.3	
22				tr.	tr.		
23							
24							
25							
26							
27		tr.		1.[illegible]		tr.	tr.
28			tr.	4.9			0.6
29	tr.		tr.	tr.			24.5
30			tr.				
TOTAL	2.0	2.5	34.5	17.[illegible]	0.4	0.3	26.0
NORMAL	70.0	58.9	130.4	47.6	22.3	19.9	16.9

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

APRIL 1970, TABLE 12b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1	tr.			tr.			
2		tr.		tr.			tr.
3	tr.						0.1
4							
5							
6	tr.	2.4		tr.			
7				tr.			
8				tr.	tr.	tr.	tr.
9							
10							
11							
12							
13							
14							
15							
16							
17							
18		tr.		tr.			
19				tr.			0.1
20							
21		tr.		tr.	tr.		
22		tr.		tr.		tr.	
23	tr.						
24							
25							
26							
27					0.5	tr.	0.1
28	19.0	tr.	6.4		0.5	2.0	
29	7.0						8.4
30					1.4		1.5
TOTAL	26.0	2.4	6.4	tr.	2.4	2.0	10.2
NORMAL	15.5	5.5	11.9	1.6	10.0	20.6	21.9

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	71.0 mms.	18th	1968
NUKHAIB	20.0	18th	1968
HAI	88.6	10th	1963
NAJAF	28.4	19th	1968
DIWANIYA	48.7	19th	1968
NASIRIYA	33.6	10th	1963
BASRAH	87.5	9 th	1941

APRIL 1970. TABLE 12 c. (11)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	HIT	IFTI-KHAR	HAWI-JA	TEL-AFAR	BAQ-UBA	SAMA-RRAA	BAD-RA	KUT	MAN-SOOR	ABU-QRAB	BAIJI
1											2.8
2											
3										1.0	
4											
5											
6											
7											
8											
9								5.2			
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20										tr.	
21	1.3			3.0							
22											1.6
23								10.7			
24											
25											
26											
27			2.5			1.4					
28			6.0			10.0	3.0	8.5	2.0		
29	18.2	44.5			9.0		15.0		8.0	1.0	
30								6.4		0.3	
TOTAL	19.5	44.5	8.5	3.0	9.0	11.4	18.0	30.9	10.0	2.3	4.4

APRIL 1970. TABLE 12d. (12)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	AMA-DIYA	SLU-BI	ZA-KHO	HAMAM-ALIL	AQ-RA	BASH-IQA	MAKH-MOOR	ARB-IL	RAB-IAA	JALA-WLA	BALA-ROOZ	MAN-DILI
1					14.2		10.0	2.0				
2												
3												
4					5.3							
5												
6			13.0	0.3					4.0			
7												
8												
9												
10												
11												
12												
13												
14				0.4								
15												
16												
17					tr.							
18				1.4	12.8	3.0		3.3				
19		12.0	8.7	1.2	7.8	7.0		4.7				
20	93.0		23.5	1.0	1.2							
21								5.2				
22												
23												
24		3.6										
25												
26												
27		1.6		0.4								
28								1.6		17.8		5.0
29		1.6									20.0	15.0
30				4.0				1.9				
TOTAL	93.0	18.8	46.1	8.7	41.2	10.0	10.0	18.7	4.0	17.8	20.0	20.0

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRA
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	9.2	13.5	14.6	18.2	17.1	14.7	23.4	20.7	19.0	23.2	21.0	25.0	21.5	18.2	24.4	22.0	11.2
2	9.0	13.5	9.2	17.0	17.2	13.4	23.5	20.8	12.3	23.0	21.3	25.0	22.0	17.6	24.7	22.0	11.5
3	7.2	13.0	9.0	17.6	17.5	14.0	23.2	21.0	10.5	23.0	21.5	25.0	22.4	17.4	25.2	22.4	12.1
4	10.4	18.0	11.1	17.9	17.5	14.5	23.6	21.0	12.6	23.2	21.8	25.4	22.7	18.2	25.7	22.2	15.6
5	10.4	18.0	16.9	18.9	17.7	10.4	24.2	21.2	11.4	24.4	21.9	26.3	22.8	18.0	26.0	22.3	11.2
6	12.0	15.2	11.5	19.0	17.0	17.7	25.3	21.5	13.4	25.0	22.2	26.8	23.0	18.4	26.5	22.6	12.0
7	12.0	17.0	19.2	18.9	17.9	21.7	25.6	21.7	22.0	26.0	22.0	27.0	23.2	21.0	27.2	22.8	12.4
8	13.5	16.2	8.5	18.6	18.1	13.4	25.6	21.7	11.5	25.2	22.5	26.0	23.6	19.7	27.3	22.9	16.2
9	6.2	17.5	7.9	18.4	18.2	10.3	25.2	22.0	7.2	24.0	22.6	24.5	24.0	17.3	26.3	23.0	13.6
10	9.0	17.5	8.7	18.2	18.2	11.7	25.0	22.0	7.6	23.5	23.0	24.8	24.2	15.0	25.8	23.3	11.2
11	7.5	15.0	13.0	18.3	18.4	12.2	25.4	22.4	9.2	23.1	23.0	25.5	24.0	16.2	25.6	23.4	12.3
12	12.0	17.2	13.1	18.9	18.4	15.6	25.8	22.5	13.0	24.5	23.1	26.5	24.0	20.0	26.4	23.5	11.7
13	11.5	18.0	15.5	19.9	18.4	16.7	26.5	22.7	14.5	25.2	23.3	27.4	24.2	19.5	27.0	23.6	10.9
14	13.0	18.6	16.3	20.5	18.5	16.7	27.0	22.8	14.7	26.1	23.3	28.0	24.4	18.5	28.0	25.6	10.0
15	19.6	22.0	19.4	21.1	18.6	20.0	27.4	24.8	13.9	26.5	23.6	29.0	24.6	19.5	28.7	23.8	13.4
16	12.2	19.0	17.0	21.1	18.9	17.4	27.8	23.0	17.5	27.0	23.0	29.8	25.0	21.2	29.1	23.9	13.6
17	13.0	19.5	18.7	21.7	19.2	18.9	27.9	25.2	15.0	27.9	24.2	30.0	25.2	22.3	29.3	23.9	14.0
18	14.0	19.5	19.9	21.3	19.3	21.5	27.8	23.0	15.6	27.3	24.3	30.0	25.3	22.3	29.8	24.2	20.0
19	10.0	16.5	16.6	20.5	19.4	15.9	27.0	23.7	16.7	26.6	24.4	28.4	25.8	22.5	29.2	24.3	21.6
20	4.5	15.5	8.8	18.4	19.5	12.2	26.0	23.8	11.5	24.4	24.8	26.2	26.0	15.0	27.0	24.7	xxxx
21	6.2	16.8	9.5	18.7	19.5	12.5	26.0	24.0	9.2	24.2	24.8	26.3	26.0	15.3	27.0	24.6	9.8
22	7.5	16.0	9.6	18.9	19.6	11.7	25.8	24.0	9.5	24.0	24.8	26.6	25.8	17.4	27.4	24.6	11.3
23	9.0	18.0	13.0	19.1	19.8	14.0	26.4	24.0	14.4	24.3	24.8	25.4	25.8	14.2	25.7	24.9	7.0
24	10.0	18.0	9.4	19.3	19.5	14.2	26.0	24.0	9.7	24.2	24.7	25.8	25.8	14.6	26.0	25.0	6.9
25	10.4	18.0	12.5	19.5	19.5	13.1	27.0	24.2	9.1	25.0	24.7	26.8	25.6	16.8	27.2	24.4	8.3
26	9.5	18.5	15.0	20.0	19.7	13.8	27.4	24.3	9.0	25.4	24.8	27.5	25.8	14.9	27.6	24.0	8.5
27	10.8	18.5	15.3	20.8	19.8	15.0	27.7	24.2	11.2	26.3	24.9	28.2	25.9	18.0	28.3	24.9	8.4
28	10.4	18.5	12.4	21.0	19.9	18.0	27.5	24.5	18.8	26.1	24.9	28.0	25.8	22.3	28.0	25.1	19.3
29	11.5	18.5	13.5	19.4	20.0	15.0	26.9	24.5	16.0	24.4	24.7	28.3	26.0	21.0	28.0	25.0	20.0
30	14.0	18.5	14.8	20.0	20.0	13.9	25.2	24.6	11.5	23.5	24.8	28.0	26.3	21.5	29.2	25.0	15.1
MEANS	10.6	17.5	13.3	19.4	18.8	15.3	26.0	22.9	13.0	24.9	23.5	26.9	24.6	18.5	27.1	23.8	12.7

APRIL 1970. TABLE 14. (14)

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	7	3.7	5	10	8	11	8	6	5	5
2	8	4	5	10	11	10	7	6	7	5
3	7	5	5	10	9	12	8	7	7	7.1
4	8	6	5	11	10	12	8	7	6	5
5	7	6	8	13	10	14	5	7	6	5
6	8.4	7	9	13	12	12.4	4	8	8	6
7	6	6	7	11	13	10	4	8	7	9
8	7	5	8	10	10	10	6	7	8	5
9	7	6	5	12	12	13	7	7	7	7
10	7	5	7	8	11	12	8	8	7	6
11	8	6	7	8	12	9	7	7	7	6
12	8	6	9	10	13	11	8	7	9	5
13	8	7	12	10	13	11	9	9	7	6
14	9	7	8	10	12	10	9	8	6	8
15	8	8	10	12	16	12	8	6	8	8
16	8.2	8	10	11	10	12	8	7	8	6
17	9	12	5	11	15	11	7	9	11	5
18	7.5	4.8	5.4	11	14	12	7	7	7	10
19	6.2	3.6	9	10	11	13	6	9	6	7.1
20	8	4	7	8	5	12	4	5	7	5
21	8.2	5	6	5.3	9	10	5	7	7	6
22	8	7	6	3	7	9	5	3	6	6
23	9	6	6	7	5	8	6	7	5	8
24	8	6	8	8	6	9	5	7	7	9
25	9	9	7	10	7	10	8	8	6	6
26	10	8	8	11	11	12	9	7	6	6
27	10	7.8	6	10	14	11	11	7.5	8	8.1
28	12	1.9	8	10	8.3	10	7	7.5	10	12
29	12	5	8	10	9	9	7	8	6	5.4
30	13	6	7	10	5	11	6	7.4	7	4.5
TOTAL	251.5	181.8	219.4	293.3	305.3	328.9	207.0	214.4	214.0	197.2
MEANS	8.4	6.1	7.3	9.8	10.2	10.9	6.9	7.1	7.1	6.6

CLIMATOLOGICAL SUMMARY

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	1	0	0	1	0	0	0	0	0	0	0	3	8	-	-	-	-
MOSUL	5	0	0	2	0	0	0	0	1	0	0	3	5	225.2	12.8	26th	1
SALAHADDIN	5	0	0	2	0	0	0	2	0	0	0	0	5	-	-	-	-
KIRKUK	5	0	0	3	0	0	3	4	9	0	0	3	4	-	-	-	-
ANAH	1	0	0	1	0	0	0	6	3	0	0	3	4	-	-	-	-
RUTBAH	1	0	0	0	0	0	2	6	3	1	0	5	1	-	-	-	-
HABBANIYA	3	0	0	4	0	2	2	8	7	2	0	3	0	252.1	13.4	24th	0
BAGHDAD	2	0	0	3	0	1	12	4	6	1	0	4	1	228.5	12.2	25th	2
NUKHAIB	1	0	0	4	0	0	0	6	1	2	0	5	3	-	-	-	-
HAI	1	0	0	2	0	0	0	11	12	0	0	7	2	-	-	-	-
NAJAF	0	0	0	0	0	0	0	6	6	0	0	4	5	-	-	-	-
DIWANIYA	3	0	0	1	0	0	2	7	11	0	0	7	2	-	-	-	-
NASIRIYA	1	0	0	0	0	0	4	9	12	2	0	9	2	-	-	-	-
BASRAH	2	0	1	4	0	2	0	5	5	2	0	6	3	277.3	12.3	25th	0

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

STATIONS	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1970 HIGHEST %	TIME GMT.	DAY	LOWEST %	TIME GMT.	DAY
SINJAR	1021.2	0600	9th	1000.0	1500	19th	1024.7	0300	24th	1964	999.8	0900	17th	1963	71	0300	20th	15	1200	10th
MOSUL	1022.1	0600	19th	1001.6	0600	19th	1027.9	0300	2nd	1956	995.6	0900	17th	1964	94	0300	11th	17	1200	25th
SALAHADDIN	1021.3	1800	21st	1000.1	0600	19th	1021.3	1800	21st	1970	1000.1	0600	19th	1970	95	0900	19th	23	1200	16th
KIRKUK	1020.3	0600	9th	1000.9	0300	19th	1026.5	2100	1st	1956	994.4	1200	17th	1964	87	0000	2nd	7	1200	17th
ANAH	1023.1	0600	9th	1000.0	1000	19th	1023.1	0600	9th	1970	999.1	0300	1st	1969	74	0300	30th	12	1500	27th
RUTBAH	1021.7	0600	9th	1003.6	1500	27th	1028.7	0600	1st	1956	998.2	0000	1st	1969	97	0300	21st	6	0900	11th
HABBANIYA	1020.6	0600	9th	1000.0	0000	19th	1022.8	0600	6th	1965	994.0	0900	17th	1964	94	0300	30th	12	1500	15th
BAGHDAD	1019.9	0600	9th	999.5	0000	19th	1026.6	0900	26th	1956	991.5	0900	17th	1964	95	0300	30th	10	1200	26th
NUKHAIB	1020.9	0600	9th	1005.2	1500	18th	1023.1	0900	24th	1964	999.0	1200	23rd	1963	50	1800	21st	4	1200	14th
HAI	1017.7	0600	9th	998.5	0300	19th	1024.8	0900	1st	1956	996.8	0900	19th	1964	86	0300	29th	15	0900	17th
NAJAF	1019.6	0600	9th	1001.0	1500	17th	1023.2	0600	6th	1965	994.6	0900	17th	1964	82	0300	30th	10	1200	11th
DIWANIYA	1020.0	0000	26th	999.7	0000	19th	1025.7	2100	1st	1956	995.6	0900	17th	1964	86	0000	26th	14	1200	26th
NASIRIYA	1017.7	0600	9th	997.6	0300	19th	1025.9	2100	1st	1956	997.6	0300	19th	1970	77	2100	24th	14	1500	26th
BASRAH	1017.1	0600	9th	998.4	0300	19th	1024.7	1800	1st	1956	998.4	0300	19th	1970	91	0300	26th	18	1200	18th

APRIL 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	30	97	154	18	29	20.1	27.0	15.7	29	8.6	24	010	02	110	17	000	00
850	30	1499	1540	1430	30	16.4	22.6	6.0	30	0.7	25	310	07	150	27	060	06
700	30	3122	3177	3025	30	3.7	8.6	-6.5	30	-8.7	24	280	10	240	28	150	06
500	30	5739	5852	5621	30	-16.5	-11.8	-21.8	30	-25.2	23	270	18	300	42	340	07
300	30	9374	9510	9156	30	-43.4	-38.8	-48.7	30	-52.4	22	280	26	250	82	270	11
200	30	12011	12115	11803	30	-57.1	-44.8	-66.7	30	-65.8	21	270	37	280	107	250	18
150	30	13816	13964	13650	30	-59.9	-50.7	-79.0	28	-67.5	20	270	41	260	120	300	16
100	30	16325	16503	16089	30	-64.2	-58.9	-73.0	26	-72.6	18	270	37	290	87	290	19
70	27	18499	18683	18167	27	-65.6	-59.7	-75.4	23	-74.3	15	280	35	280	70	060	09

NOTE: N = Total number of observations.

APRIL 1970. TABLE 17.

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

STATION: BAGHDAD RADIOSONDE STATION.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED "KNOTS"
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	30	3536	666	-10.7	4290	786	-1.5	2130	612	-27.5	30	11874	212	-59.6	14320	350	-43.0	8180	140	-79.0	12570	184	260	124

NOTE: N = Total number of observations .

الجمهوريـــة العراقيـــــة

وزارة المواصـــــلات

مديرية الديوان المدني العامـة

مديرية الانواء الجويـــة

مديرية المنـــاخ

بغـــداد

======

تقرير المناخ الشهـــري

المجـلد : ٣٣

العـــدد : ٥

الشهر : مايـــس

السنـــة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

==========

MONTHLY CLIMATOLOGICAL DATA

VOLUME : 33

No. : 5

MONTH : MAY

YEAR : 1 9 7 0

MAY 1970.

GENERAL SITIUATION : DRY UNSTABLE AND HOT.

MAIN FEATURE : From the first till the 3rd, the western disterbances Caused high unstability all over the country. Some of the Med. depressions began to track along northern border and Turkey, and some of the Saudi Arabia depressions moves along Basrah gulf most of the western disterbances were of low pressure waves,. The seasonal trough from Basrah gulf is well defined and was more over Iran. No marked frontal systems crossed.

PRESSURE : Highest pressure reading was 1017.2 mb at Ana, and is 5 mb above normal, the lowest pressure reading was 999.8 mb at Basrah and is 8 mb below normal.

TEMPERATURES : Highest maximum temperature was 44.2 °C at Najaf and is 16 °C above normal, and is 8 °C above normal maximum. The lowest minimum temperature was 9.8 °C at Salaheddin and is 6 °C below normal minimum.

SURFACE WIND : Prevailing surface wind was generally Northwesterly and was Southerly in the Northern region, speed was fresh and once strong in the Central area speed exceeded 40 Kt at Rutba on 14th.

RELATIVE HUMIDITY : The relative humidity was slightly below normal.

PRECIPITATIONS : Tote-l amount of rainfall was generally below normal, the highest total was 20.8 mm at Mosul and is normal.

OTHER PHENOMENAE : Thunderstorms, total number of days occured was below normal.

Dust , number of day of dust was normal .

MAY 1970 TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	26.8	18.3	30.4	12.2	22.0	13.4	31.0	18.6	33.5	15.8
2	28.6	18.3	32.0	16.4	24.2	13.0	32.4	19.5	35.7	20.5
3	29.9	19.4	33.9	15.4	26.6	13.0	34.1	18.0	37.4	18.7
4	29.2	17.4	32.0	18.4	24.6	17.4	33.5	18.9	31.7	20.7
5	22.3	16.4	28.6	18.6	26.0	16.0	32.0	22.3	26.5	16.5
6	23.3	14.4	27.4	14.4	20.2	[illegible]	27.6	14.1	26.4	13.8
7	22.9	14.2	26.8	12.2	18.8	2.5	27.4	14.2	27.0	14.0
8	25.6	15.2	29.2	11.4	21.8	11.0	29.0	14.7	31.7	11.6
9	27.8	16.2	31.4	13.6	24.0	13.5	32.5	17.8	33.2	18.4
10	27.6	18.1	31.3	16.4	22.4	15.0	31.0	23.6	32.9	19.8
11	28.2	15.0	31.1	11.2	22.9	12.8	32.0	14.8	32.8	15.6
12	32.5	19.5	34.5	14.4	26.1	15.7	34.2	17.9	35.7	12.8
13	34.2	17.5	37.4	14.4	28.4	18.2	37.3	19.6	39.5	15.0
14	34.5	21.2	37.0	22.4	26.4	18.3	35.7	23.4	37.7	22.5
15	28.3	16.6	31.7	19.4	23.8	15.4	31.8	25.0	32.6	21.5
16	27.5	14.6	32.0	14.4	23.7	14.0	32.1	18.9	32.5	18.0
17	30.2	19.6	33.0	14.8	25.8	14.8	33.9	18.2	33.8	14.6
18	33.2	21.0	35.4	16.4	26.6	15.7	35.4	19.3	37.6	13.2
19	22.8	20.2	32.0	17.2	26.6	18.4	36.0	21.4	39.1	17.6
20	29.8	18.1	33.0	17.3	25.1	16.4	34.1	21.2	35.7	18.8
21	31.4	19.2	34.7	16.4	26.4	21.0	34.8	19.8	36.5	16.3
22	36.5	21.2	39.3	17.4	31.4	19.4	39.7	22.1	44.2	19.3
23	32.6	19.1	35.3	22.2	28.4	20.0	36.7	24.0	33.2	22.0
24	30.6	18.6	35.8	20.1	28.1	18.4	35.5	18.6	33.2	16.1
25	31.6	18.1	36.1	19.2	28.3	17.0	36.8	20.0	34.3	18.5
26	29.4	15.6	33.3	21.3	26.0	19.9	32.7	23.8	30.9	19.2
27	29.2	17.0	33.3	16.0	26.4	14.5	34.3	19.2	31.3	12.7
28	30.0	17.6	33.5	19.4	27.0	14.5	34.0	17.7	33.4	16.0
29	29.8	18.7	34.4	17.0	26.4	15.5	34.5	20.7	34.5	14.5
30	29.8	18.6	35.0	18.4	28.0	18.1	35.5	18.9	34.3	15.5
31	30.2	19.1	34.4	19.6	26.4	14.6	34.4	19.0	33.8	17.8
MEANS	29.2	17.9	33.1	16.8	25.4	15.7	33.7	19.5	34.0	17.0
NORMAL	....	....	33.1	14.3	....	....	33.4	18.8	....	....
HIGHEST	38.1	28.2	44.1	26.5	31.5	23.0	43.3	30.9	44.4	24.3
DAY	31st	31st	31st	21st	23rd	24th	7 th	26th	13th	26th
YEAR	1962	1962	1955	1959	1967	1967	1942	1960	1969	1968
LOWEST	14.1	4.3	16.2	6.1	18.2	8.3	17.3	6.7	26.4	11.6
DAY	1 st	1 st	1 st	1 st	7 th	8 th	10th	1 st	6 th	14th
YEAR	1963	1964	1963	1948	1969	1969	1963	1964	1970	1970

MAY 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	31.9	13.9	33.0	19.0	32.4	18.5	34.5	17.0	31.7	20.5
2	33.1	20.2	35.0	20.5	34.6	18.0	35.0	20.5	34.5	20.0
3	34.3	17.2	36.6	19.0	36.4	18.0	35.5	18.5	35.8	21.7
4	30.0	17.0	37.2	22.0	37.5	21.4	35.0	20.5	38.4	20.0
5	23.9	13.4	30.0	19.5	30.7	20.3	29.5	19.0	37.6	22.4
6	25.4	18.9	30.0	14.9	29.4	14.7	29.2	14.0	30.5	18.0
7	25.9	18.7	29.2	15.8	30.4	14.5	29.5	13.5	31.5	17.0
8	30.0	18.0	32.0	15.5	31.6	16.2	32.6	14.0	33.0	17.9
9	31.0	15.3	35.5	20.0	36.2	18.0	38.0	18.0	37.4	18.0
10	29.1	16.7	35.6	20.0	36.5	20.4	34.5	19.5	38.0	25.1
11	30.7	13.9	34.0	18.7	34.4	16.0	33.2	16.0	35.0	21.8
12	34.0	13.0	36.4	17.8	36.4	15.0	35.6	16.0	36.0	18.4
13	38.0	16.1	39.0	18.6	38.6	17.8	39.0	16.4	38.5	22.7
14	37.1	19.8	40.0	20.5	40.7	19.7	40.0	20.0	41.2	23.2
15	31.0	19.9	35.6	25.9	36.5	25.4	34.5	25.0	4[illegible].5	27.4
16	27.5	14.0	33.0	18.5	35.4	16.3	32.5	17.0	37.4	23.5
17	30.6	13.2	34.0	18.5	35.3	16.8	33.5	16.5	35.5	22.7
18	35.6	13.9	37.0	17.6	37.2	17.2	36.0	14.5	37.4	18.8
19	39.1	17.1	39.4	22.0	41.7	16.0	42.0	18.5	39.8	19.8
20	33.0	18.2	35.0	23.0	35.8	24.6	35.2	22.0	38.6	24.2
21	36.3	16.3	37.0	19.6	37.0	18.2	37.4	18.4	37.0	21.7
22	42.2	20.2	41.0	20.4	41.2	19.0	38.0	20.0	42.2	23.0
23	34.5	19.4	35.5	24.0	38.4	21.8	37.0	21.5	42.4	25.5
24	32.0	17.0	35.6	19.0	37.3	18.6	36.5	19.5	38.6	22.6
25	33.1	16.6	37.0	20.6	38.4	19.0	37.5	18.0	39.6	23.0
26	26.4	16.7	33.0	21.0	38.0	19.5	31.6	23.2	42.5	23.6
27	26.8	14.0	34.0	22.0	38.0	20.6	33.0	20.0	38.5	25.0
28	32.1	14.2	33.7	19.4	36.0	19.5	34.5	16.0	37.0	24.2
29	31.7	15.9	35.5	18.5	37.7	16.7	36.5	16.5	39.0	19.0
30	32.6	16.0	36.5	22.2	38.4	19.2	34.5	16.5	39.0	22.0
31	31.7	14.6	35.0	20.8	35.5	20.2	35.0	17.0	37.5	23.0
MEANS	32.0	15.7	35.2	19.9	36.2	18.7	35.0	18.0	37.5	21.9
NORMAL	31.5	15.8	36.3	20.0	35.8	19.9	....	....	37.0	21.1
HIGHEST	42.4	27.4	46.7	29.4	44.6	30.8	43.0	26.2	46.1	30.5
DAY	7 th	26th	7 th	29th	28th	29th	13th	13th	26th	31st
YEAR	1942	1960	1960	1960	1964	1966	1969	1969	1941	1945
LOWEST	9.4	5.6	22.1	8.3	21.1	10.0	21.6	9.8	22.0	11.0
DAY	6th	1st	1st	4th	8th	4th	2nd	4th	2nd	2nd
YEAR	1944	1948	1963	1940	1950	1965	1963	1964	1963	1964

MAY 1970. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	35.2	17.8	34.4	22.0	33.2	23.7	31.0	23.2
2	37.2	20.0	36.0	19.7	34.0	23.3	33.5	19.9
3	38.0	23.0	36.6	22.6	36.1	22.2	34.9	22.6
4	39.4	22.2	38.1	21.0	37.7	22.4	36.7	22.6
5	31.5	19.5	32.4	23.1	30.9	25.3	41.0	25.7
6	30.8	17.8	32.3	17.6	30.7	20.0	30.2	22.5
7	31.9	17.0	31.4	17.0	31.3	19.0	31.0	17.9
8	33.5	17.0	33.0	20.4	32.4	20.5	33.0	20.2
9	38.6	18.2	37.0	19.0	34.7	19.5	35.2	19.6
10	38.2	24.8	36.8	25.0	38.2	27.0	39.2	25.3
11	36.4	19.6	35.6	21.6	36.2	22.0	35.9	23.4
12	36.6	20.6	35.7	20.1	35.4	21.0	34.0	22.7
13	40.4	20.0	38.0	20.0	36.3	21.5	36.2	21.9
14	43.1	20.8	42.4	21.2	41.1	21.7	37.3	22.4
15	37.4	20.5	36.5	22.5	41.4	23.3	40.5	22.2
16	36.2	22.4	35.6	22.1	38.0	25.9	41.7	27.2
17	34.8	20.2	34.6	19.8	35.4	23.3	35.9	23.9
18	38.5	21.0	36.0	20.1	36.3	22.3	35.2	22.2
19	42.9	21.5	41.0	19.4	40.0	22.5	36.7	21.2
20	37.8	21.6	38.0	22.4	37.8	22.5	37.5	22.9
21	38.0	22.0	36.0	18.2	36.5	24.2	35.5	25.1
22	44.2	22.4	41.5	23.0	42.3	25.0	38.5	24.9
23	39.4	27.4	39.1	25.0	42.3	25.4	40.5	24.4
24	38.4	22.4	37.2	20.1	38.0	23.5	37.0	25.0
25	39.0	22.2	38.3	20.8	38.8	24.6	36.9	24.4
26	39.5	24.2	39.4	23.0	42.8	24.6	41.0	25.0
27	36.4	24.0	35.5	23.6	39.5	24.9	38.6	25.9
28	36.8	22.0	35.3	20.6	35.5	24.2	36.0	25.6
29	38.4	22.0	37.9	20.2	38.5	23.0	37.6	25.2
30	39.4	21.8	38.1	21.5	39.0	23.0	37.7	25.0
31	37.9	23.0	36.3	22.5	37.8	23.0	35.9	21.9
MEANS	37.6	21.3	36.6	21.1	37.4	23.1	36.5	23.3
NORMAL	....	....	36.7	19.5	36.9	22.4	35.9	23.9
HIGHEST	44.1	28.9	45.6	30.0	46.2	30.6	45.6	30.6
DAY	24th	23rd	12th	21st	24th	20th	23rd	30th
YEAR	1966	1965	1941	1962	1962	1955	1951	1945
LOWEST	16.6	13.0	23.5	7.8	22.5	11.6	20.5	8.9
DAY	1st	2nd	2nd	1st	5th	1st	2nd	1st
YEAR	1964	1964	1963	1948	1963	1948	1963	1952

MAY 1970. TABLE 2. (4)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	20.5	24.0	27.2	29.5	26.9	25.0	...	25.4
MOSUL	19.0	17.8	24.4	30.7	32.6	30.7	25.9	22.0	25.4
SALAHADDIN	...	19.1	21.5	23.2	24.6	23.5	19.4	...	21.9
KIRKUK	21.8	20.9	27.3	31.3	32.9	31.5	26.2	23.7	27.1
ANAH	...	17.9	23.7	30.7	33.1	32.6	26.6	...	27.[illegible]
RUTBAH	18.0	16.2	23.1	28.7	31.1	30.4	25.2	20.8	24.[illegible]
HABBANIYA	22.1	21.0	27.5	32.6	34.6	33.0	27.6	24.8	28.[illegible]
BAGHDAD	20.9	19.2	28.2	33.8	35.4	34.0	26.2	23.4	27.[illegible]
NUKHAIB	...	...	27.5	31.8	34.0	33.5	29.9	...	31.5
HAI	23.6	22.4	31.6	36.2	36.9	34.3	28.5	25.7	29.9
NAJAF	23.6	21.7	29.6	35.0	37.2	35.2	29.9	26.7	29.9
DIWANIYA	22.8	21.6	30.2	34.6	36.2	34.2	28.2	25.2	29.[illegible]
NASIRIYA	24.2	23.8	29.2	35.2	36.9	34.6	29.7	27.2	30.1
BASRAH	25.0	23.9	30.0	34.2	35.9	33.2	28.7	26.9	29.7

TABLE 3. WET-BULB TEMPERATURES (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	12.5	14.2	15.5	15.8	15.5	14.7	...	1[illegible]
MOSUL	12.9	12.4	15.1	17.3	17.3	16.8	15.4	14.0	1[illegible]
SALAHADDIN	...	12.0	13.4	14.2	14.8	14.1	12.0	...	13.[illegible]
KIRKUK	13.1	12.7	15.7	16.5	17.0	16.4	15.0	13.9	15.0
ANAH	...	11.4	14.7	17.4	17.7	17.4	15.5	...	15.7
RUTBAH	11.6	10.9	14.4	16.4	17.4	17.1	15.1	12.9	14.5
HABBANIYA	15.5	15.0	17.3	18.5	19.3	18.8	17.3	16.4	17.[illegible]
BAGHDAD	14.1	13.3	16.8	18.3	18.6	18.2	16.3	15.1	1[illegible]
NUKHAIB	...	...	15.3	17.1	17.9	17.8	16.4	...	1[illegible]
HAI	15.5	15.1	19.2	20.5	20.4	19.5	17.9	16.4	18.1
NAJAF	14.9	13.9	16.8	18.5	19.2	18.5	17.3	16.1	16.9
DIWANIYA	15.0	14.6	18.3	19.4	19.9	19.3	17.4	16.1	17.5
NASIRIYA	17.1	16.6	19.4	21.3	22.2	22.0	20.4	18.7	19.7
BASRAH	19.2	18.6	21.4	23.2	23.7	23.2	21.6	20.2	21.4

TABLE 4. VAPOUR PRESSURE (MBS.)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	8.0	8.5	8.6	7.8	8.2	8.4	...	8.3
MOSUL	10.2	10.1	10.0	9.1	7.5	8.0	9.1	9.7	9.2
SALAHADDIN	...	8.2	9.0	9.0	9.1	8.5	8.1	...	8.7
KIRKUK	8.3	8.3	8.4	7.2	6.9	6.8	8.4	8.2	7.8
ANAH	...	8.4	9.1	9.4	8.2	8.0	8.0	...	8.7
RUTBAH	8.6	8.4	9.5	8.9	9.0	8.9	9.2	8.8	8.9
HABBANIYA	12.6	10.9	11.6	10.0	10.5	10.5	11.7	12.0	11.2
BAGHDAD	10.7	10.4	10.0	8.8	8.1	8.4	10.7	10.7	9.7
NUKHAIB	...	...	7.7	7.9	7.7	7.9	7.7	...	7.8
HAI	11.3	11.4	12.2	11.7	11.0	11.1	12.0	11.4	11.5
NAJAF	10.1	9.7	9.0	8.3	7.8	7.9	9.9	9.9	9.1
DIWANIYA	10.8	11.1	11.4	10.2	10.2	10.8	11.5	11.0	10.8
NASIRIYA	13.3	13.2	14.7	14.3	15.0	16.4	16.2	14.7	14.7
BASRAH	17.6	17.4	18.9	19.8	19.6	20.6	20.2	18.4	19.1

TABLE 5. DEW-POINT (°C)

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	3.9	4.3	4.4	3.0	3.6	4.3	...	3.9
MOSUL	6.8	6.7	6.4	5.1	2.4	3.2	4.7	6.8	5.2
SALAHADDIN	...	4.1	5.2	5.3	4.8	3.7	3.8	...	4.5
KIRKUK	3.7	3.7	3.8	1.5	1.0	1.2	4.0	3.6	2.8
ANAH	...	4.1	5.8	5.7	3.7	3.1	4.7	...	4.5
RUTBAH	4.5	4.7	5.6	4.6	4.7	4.6	5.5	4.7	4.9
HABBANIYA	10.1	9.9	8.8	6.6	6.9	7.4	9.1	9.3	8.5
BAGHDAD	7.7	7.1	5.4	4.5	3.6	4.0	7.7	7.6	6.0
NUKHAIB	...	...	2.9	3.0	2.6	3.0	3.2	...	2.9
HAI	8.4	8.5	9.7	8.8	8.1	8.2	9.4	8.8	8.7
NAJAF	6.9	6.3	5.0	3.7	3.0	3.1	6.0	6.5	5.1
DIWANIYA	7.8	8.2	8.6	7.4	7.0	7.6	8.6	8.2	7.9
NASIRIYA	10.8	10.7	12.5	11.8	12.6	14.0	13.9	12.5	12.4
BASRAH	15.2	15.0	16.3	17.0	16.8	17.6	17.4	15.9	16.4

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	..	35	30	25	21	23	27	..	27
MOSUL	49	50	33	21	16	19	28	38	32
SALAHADDIN	..	38	36	33	30	30	36	..	34
KIRKUK	34	35	23	16	15	15	25	29	24
ANAH	..	42	32	22	16	16	26	..	26
RUTBAH	42	48	34	24	21	21	29	36	32
HABBANIYA	48	51	32	21	19	21	33	39	33
BAGHDAD	44	46	27	17	14	16	32	37	29
NUKHAIB	..	..	21	17	15	16	20	..	18
HAI	40	43	27	20	18	21	31	35	29
NAJAF	35	38	22	15	13	14	24	29	24
DIWANIYA	39	43	27	20	17	20	30	35	29
NASIRIYA	42	45	37	26	25	31	39	41	36
BASRAH	56	59	45	37	33	40	51	52	47

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

SINJAR	...	10.5	10.2	9.6	8.6	8.1	8.8	...	1009.3
MOSUL	10.4	10.8	11.3	10.2	8.3	7.7	9.1	9.9	1009.7
SALAHADDIN	...	9.5	9.2	9.3	8.0	7.9	9.9	...	1009.0
KIRKUK	09.7	10.2	10.3	9.3	8.1	7.2	9.3	9.7	1009.2
ANAH	...	11.6	12.3	11.2	9.3	8.5	9.7	...	1010.4
RUTBAH	9.7	10.5	10.9	10.5	9.2	8.7	9.3	9.6	1009.8
HABBANIYA	9.1	9.6	10.5	10.1	8.5	7.8	8.7	8.8	1009.1
BAGHDAD	8.3	9.1	10.4	10.0	8.5	7.7	8.6	8.8	1008.9
NUKHAIB	...	...	12.1	10.8	10.0	9.3	9.8	...	1010.4
HAI	7.3	7.8	8.8	8.3	7.3	6.8	7.6	7.6	1007.7
NAJAF	8.0	8.0	10.0	9.5	8.0	7.2	8.5	8.5	1008.6
DIWANIYA	8.2	8.8	9.8	9.6	8.1	10.7	8.5	8.6	1009.0
NASIRIYA	7.3	7.7	8.9	8.5	7.0	6.5	7.7	7.7	1007.7
BASRAH	6.6	7.2	8.3	8.1	6.7	6.1	7.0	7.1	1007.1

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	...	2.6	2.7	3.5	3.8	3.7	2.9	...	3.2
MOSUL	1.8	2.7	2.4	2.8	3.4	3.4	2.1	1.9	2.6
SALAHADDIN	...	2.1	2.6	3.2	2.9	2.8	1.9	...	2.6
KIRKUK	1.7	2.0	2.5	2.5	3.1	2.3	0.9	1.3	2.0
ANAH	...	2.7	2.7	2.9	3.1	2.7	2.0	...	2.7
RUTBAH	1.1	1.7	1.6	2.0	2.5	2.7	1.6	1.1	1.8
HABBANIYA	1.7	2.1	2.2	1.9	2.2	1.8	1.3	1.5	1.8
BAGHDAD	1.1	2.2	2.7	2.6	3.1	2.5	1.4	1.0	2.1
NUKHAIB	...	...	1.0	1.1	1.9	2.1	1.0	...	1.4
HAI	0.8	1.3	1.9	1.9	2.0	2.3	1.1	0.8	1.5
NAJAF	1.2	1.6	1.9	2.2	2.5	2.7	2.0	1.5	2.0
DIWANIYA	0.8	1.6	1.5	1.7	2.6	2.6	1.1	0.9	1.6
NASIRIYA	0.5	1.3	1.2	1.2	1.8	1.9	0.6	0.6	1.1
BASRAH	0.8	1.3	1.3	1.1	1.2	1.5	1.0	0.3	1.1

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

SINJAR	...	0.4	0.4	0.3	0.8	1.0	0.6	...	0.6
MOSUL	1.2	1.6	1.2	1.4	1.4	1.9	1.4	1.4	1.4
SALAHADDIN	...	1.6	1.9	2.1	1.6	1.7	0.6	...	1.6
KIRKUK	1.1	1.0	1.1	1.0	1.4	0.9	0.4	0.8	1.0
ANAH	...	0.5	0.0	0.1	0.4	0.5	0.6	...	0.4
RUTBAH	0.2	0.3	0.2	0.3	1.0	0.8	0.8	0.4	0.5
HABBANIYA	0.0	0.3	0.3	0.2	1.0	0.1	0.0	0.0	0.2
BAGHDAD	0.0	0.4	0.5	0.2	0.5	0.2	0.0	0.0	0.2
NUKHAIB	...	...	0.1	0.3	0.7	0.5	0.3	...	0.4
HAI	0.0	0.2	0.2	0.5	0.5	0.2	0.0	0.0	0.2
NAJAF	0.1	0.3	0.4	0.4	0.9	0.6	0.5	0.2	0.4
DIWANIYA	0.0	0.4	0.4	0.4	0.7	0.7	0.1	0.1	0.4
NASIRIYA	0.1	0.4	0.1	0.2	0.4	0.2	0.0	0.0	0.2
BASRAH	0.3	0.3	0.5	0.3	0.4	0.2	0.2	0.0	0.3

MAY 1970. TABLE 10a

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

MAY 1970. TABLE 10b.

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

MAY 1970. TABLE 10c. (8)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	30 knots	260	0600	14th
MOSUL	25	090	1800	19th
SALAHADDIN	30	240	0600	4 th
KIRKUK	20	070	1800	14th
ANAH	34	180	1800	14th
RUTBAH	40	300	1800	14th
HABBANIYA	24	290	1200	5 th
BAGHDAD	23	270	0300	4 th
NUKHAIB	27	330	0600	5 th
HAI	23	330	1200	29th
NAJAF	18	340	1200	5 th
DIWANIYA	23	350	1200	29th
NASIRIYA	26	340	1500	15th
BASRAH	24	360	1200	30th

MAY 1970 . TABLE 12a. (9)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1	2.5	2.4		tr.		tr.	tr.
2			0.5			tr.	
3		tr.	tr.				tr.
4	tr.		1.7	0.6			
5							
6							
7							
8							
9					tr.		
10			1.0				
11							
12							
13							
14	0.5	0.4	1.6	tr.	tr.		
15				tr.			
16							
17							
18							
19							
20							
21							
22							
23							
24							
25						tr.	
26				tr.	tr.	tr.	
27							
28							
29							
30							
31							
TOTAL	3.0	2.8	4.8	0.6	tr.	tr.	tr.
NORMAL	28.6	20.3	76.5	16.5	6.8	2.7	3.7

STATIONS	HIGHEST RAIN FALL DURING A DAY	DAY	YEAR
SINJAR	78.5 mms.	20th	1959
MOSUL	40.4	11th	1965
SALAHADDIN	80.0	8 th	1961
KIRKUK	45.1	10th	1963
ANAH	30.0	13th	1950
RUTBAH	46.6	12th	1957
HABBANIYA	17.7	1 st	1963

MAY 1970. TABLE 12b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							tr.
2		tr.					
3							
4				tr.	tr.		
5						1.3	1.5
6			tr.				
7							
8							
9							tr.
10							tr.
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	tr.	tr.	tr.	tr.	0.0	1.5
NORMAL	7.1	2.1	6.9	1.5	9.0	5.4	7.3

STATIONS	HIGHEST RAINFALL DURING A DAY	DAY	YEAR
BAGHDAD	65.0 mms.	9 th	1959
NUKHAIB	9.2	23rd	1936
HAI	58.7	5 th	1949
NAJAF	45.8	15th	1968
DIWANIYA	27.7	5 th	1963
NASIRIYA	40.2	15th	1945
BASRAH	35.6	8 th	1950

MAY 1970. TABLE 12a.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	AQRA	BASHIQA	IFRAZ	MAWLAWI	TEL-AFAR	SAMARRA.
1		5.0		12.0	2.5	
2						1.3
3						
4	1.6		3.8			
5						
6						
7						
8	tr.					
9						
10						
11						
12						
13						
14					1.5	
15	tr.					
16						
17						
18						
19						
20				16.0		
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL	1.6	5.0	3.8	28.0	4.0	1.3

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRA
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	10.2	18.5	16.8	21.1	20.3	19.4	26.0	24.7	16.0	23.8	24.8	29.0	26.3	23.0	29.8	25.2	18.5
2	11.5	20.5	17.3	21.9	20.3	19.5	27.2	24.6	14.5	24.4	24.7	29.8	26.4	18.7	30.8	25.5	14.4
3	12.8	21.0	13.5	22.1	20.3	18.9	28.0	24.6	14.5	25.0	24.5	30.6	26.6	21.5	31.0	25.5	17.2
4	12.0	21.5	15.6	22.7	20.4	19.5	29.2	24.8	14.5	28.0	24.1	31.2	27.0	21.7	31.3	25.6	15.1
5	13.0	21.5	17.1	22.7	20.5	17.2	28.0	24.6	16.6	27.6	24.7	30.4	27.0	25.3	30.0	25.6	18.7
6	13.5	20.3	12.0	21.5	20.6	14.7	29.0	25.0	11.7	26.7	24.7	29.6	27.4	19.2	31.4	26.0	16.9
7	11.2	21.0	9.7	21.1	20.9	15.0	28.0	25.2	10.7	26.5	25.0	29.3	27.8	18.5	30.4	26.0	10.0
8	10.0	20.5	10.8	21.1	20.9	14.7	29.0	25.4	10.6	27.0	25.0	29.4	27.6	19.5	30.3	26.1	12.0
9	11.6	20.0	12.5	21.8	21.1	18.9	29.0	25.5	13.5	27.7	25.2	27.6	29.8	18.5	30.5	26.2	11.6
10	11.8	22.5	21.5	22.2	21.0	19.7	29.0	25.6	15.6	28.3	25.4	30.0	27.8	26.4	30.0	26.4	17.2
11	10.2	22.3	10.5	21.6	21.2	16.7	29.5	25.7	14.4	28.4	25.4	27.8	31.0	21.1	31.2	26.4	15.1
12	12.5	23.4	14.3	21.6	21.2	16.1	29.6	25.5	11.8	28.4	25.5	31.0	28.0	19.0	31.5	26.4	12.0
13	12.6	23.2	16.0	22.1	21.2	17.5	29.7	25.0	14.5	28.5	25.7	31.0	28.3	20.4	31.3	26.7	13.6
14	13.2	23.8	18.5	23.1	21.4	20.0	30.3	26.0	14.6	29.6	26.0	31.4	28.5	20.7	31.4	26.7	16.6
15	14.0	24.2	23.0	22.8	21.4	20.0	31.0	26.2	20.5	30.6	26.0	32.6	28.4	22.1	32.3	26.8	14.2
16	11.0	23.4	14.5	21.5	20.8	17.5	30.3	25.4	14.2	29.8	26.1	31.4	28.6	26.0	33.3	26.8	21.9
17	10.5	23.6	14.5	22.1	21.2	17.8	30.2	26.5	14.3	29.6	26.4	31.4	28.8	22.7	33.0	27.0	17.0
18	11.0	24.5	15.5	22.7	21.8	16.8	30.2	26.6	15.4	29.0	26.8	31.0	28.8	21.0	33.0	27.2	15.6
19	15.6	24.4	16.5	21.6	21.4	21.2	30.5	26.8	14.1	30.0	26.6	31.4	28.8	21.1	32.0	27.2	14.7
20	15.6	24.4	17.0	22.6	21.9	22.0	31.0	26.8	22.1	30.8	26.7	32.7	29.0	22.4	32.5	27.3	14.7
21	12.0	25.0	12.5	22.8	22.2	18.9	31.0	27.0	15.2	30.4	26.8	32.4	29.2	23.0	32.4	26.4	20.1
22	15.0	23.7	19.1	23.9	22.5	19.5	31.0	27.0	14.0	30.5	27.0	32.4	29.2	24.3	32.2	27.5	18.7
23	16.0	24.0	19.5	24.4	22.5	23.9	31.5	27.0	14.0	31.5	27.0	33.4	29.4	24.1	33.0	27.5	15.7
24	15.5	23.8	11.9	23.3	22.6	17.0	31.5	27.0	14.0	31.0	27.2	32.7	29.5	23.2	33.5	27.6	15.8
25	15.6	24.2	16.7	23.4	22.7	20.0	31.5	27.5	16.2	30.7	28.3	29.7	27.8	23.7	33.3	27.7	17.8
26	15.2	23.8	16.3	24.0	22.8	20.6	31.5	27.5	15.0	31.5	27.5	33.2	29.8	22.5	33.5	27.8	17.6
27	15.8	22.5	15.2	23.0	23.0	22.0	31.2	27.5	15.3	31.2	27.6	33.0	30.0	24.0	34.3	27.8	17.6
28	16.8	22.8	15.2	23.7	22.9	18.0	31.0	27.8	14.4	31.0	27.5	32.2	30.0	23.2	33.5	28.2	21.1
29	16.0	21.5	15.4	24.4	23.3	17.2	31.0	27.7	11.5	30.8	27.7	32.3	30.2	22.0	32.7	28.1	22.0
30	16.4	25.0	13.9	24.9	23.3	19.7	31.2	27.8	14.4	31.3	27.8	32.4	30.0	22.0	35.0	28.4	21.2
31	16.5	25.0	12.2	24.1	23.3	19.5	31.5	28.0	14.8	31.4	27.8	32.7	30.1	21.9	33.0	28.4	16.0
MEANS	13.3	22.8	15.3	22.6	21.6	18.7	30.0	26.9	14.6	29.1	[illegible]	31.2	28.6	22.0	32.1	[illegible]	[illegible]

MAY 1970. TABLE 14.

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	15.	6	6	10	15	14	6	5	7	4
2	13.	7	7	10	20	13	7	6	6	5
3	12.	8	10	10	17	13	8	7	7	8
4	12	8.5	8	10	17	12	10	9	9	9
5	12	9	10	10	16	13	6	8	10	7.5
6	10	9	9	11	13	14	7	9	9	7
7	10	8	8	10	9	12	6	9	8	9
8	11	8	8	11	10	11	7	7	7	9
9	9	8	7	11	18	10	8	9	9	7
10	11	7	11	10	15	11	6	11	10	5
11	12	9	9	10	13	12	8	10	9	12
12	12	9	10	10	15	13	6	9	9	7
13	10	9	10	10	13	14	6	9	9	9
14	13	10	15	10	15	14	7	8	8	7
15	13	7	10	10	14	12	8	9	11	8
16	12	9	10	11	15	12	7	10	13	7
17	12	9	11	11	13	13	6	10	10	8
18	12	8	12	10	17	12	6	8	10	7
19	12	10	13	13	20	13	7	8	10	8
20	13	11	13	12	16	12	7	11	10	8
21	14	10	10	13	15	11	7	8	10	12
22	14	11	12	13	14	11	8	10	10	8
23	14	10	13	13	20	11	10	11	13	10
24	15	10	12	13	16	12	10	9	10	11
25	15	10	12	10	14	11	12	9	10	8
26	14	10	9	10	17	10	9	11	11	7
27	13	7	10	10	17	12	8	10	12	11
28	13	10	12	10	17	13	8	11	10	10
29	9	10	12	10	14	13	10	11	12	14
30	11	11	12	11	21	13	11	13	14	9
31	13	11	12	10	18	13	12	12	13	11
TOTAL	381.0	279.6	323.0	333.0	484.0	380.0	244.0	287.0	306.0	262.5
MEANS	12.3	9.0	10.4	10.7	15.6	12.3	7.9	9.3	9.9	8.5

CLIMATOLOGICAL SUMMARY

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

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	MAX. DAY	NO. OF DAYS WITHOUT
SINJAR	2	0	0	0	0	0	3	4	2	1	0	10	3	-	-	-	-
MOSUL	2	0	0	1	0	0	9	2	3	1	0	12	2	337.8	13.7	11th	1
SALAHADDIN	4	0	0	3	0	0	2	2	2	0	0	11	1	-	-	-	-
KIRKUK	1	0	0	1	0	0	2	1	8	0	0	15	2	-	-	-	-
ANAH	0	0	0	0	0	0	0	14	6	1	0	10	1	-	-	-	-
RUTBAH	0	0	0	0	0	0	1	9	4	2	0	16	0	-	-	-	-
HABBANIYA	0	0	0	0	0	1	4	9	4	0	0	12	0	361.3	14.0	31st	0
BAGHDAD	0	0	0	0	0	0	7	8	8	0	0	13	0	337.5	13.2	30th	0
NUKHAIB	0	0	0	1	0	0	0	4	4	0	0	17	0	-	-	-	-
HAI	0	0	0	1	0	0	0	13	6	0	0	19	0	-	-	-	-
NAJAF	0	0	0	1	0	0	2	7	7	0	0	16	1	-	-	-	-
DIWANIYA	0	0	0	0	0	0	0	13	10	0	0	18	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	2	14	22	0	0	13	0	-	-	-	-
BASRAH	1	0	0	2	0	0	0	8	13	1	0	24	0	332.9	12.8	30th	0

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

STATION	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL -RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1015.4	0300	8th	1002.9	1500	4th	1021.5	0600	4th	1965	996.7	1500	24th	1962	63	0300	16th	10	1200	13th
MOSUL	1015.9	0600	12th	1002.5	1500	15th	1022.0	0600	4th	1965	994.8	1500	15th	1966	85	0300	3rd	8	1200	23rd
SALAHADDIN	1014.9	0300	12th	1002.4	1500	15th	1017.6	0900	2nd	1967	998.5	1200	30th	1967	73	1800	1st	16	1500	23rd
KIRKUK	1014.6	0600	12th	1002.7	1500	15th	1020.9	0600	4th	1965	994.4	1500	25th	1962	68	0300	1st	6	1200	30th
ANAH	1017.2	0600	12th	1003.9	1800	19th	1017.2	0600	12th	1970	1000.9	1500	2nd	1968	65	0300	1st	8	1200	19th
RUTBAH	1016.6	0600	12th	1003.7	1500	4th	1023.3	0600	6th	1944	997.4	1200	1st	1946	73	0300	28th	5	0900	22nd
HABBANIYA	1015.6	0900	15th	1001.5	1500	4th	1021.0	0600	4th	1965	997.8	0000	25th	1962	86	0300	1st	10	1200	19th
BAGHDAD	1015.3	0900	12th	1001.7	1500	4th	1021.0	0600	4th	1965	996.8	0000	25th	1962	76	0300	1st	6	0900	19th
NUKHAIB	1017.0	0600	12th	1003.5	1500	3rd	1017.0	0600	12th	1970	999.7	1800	3rd	1969	32	0600	7th	4	1200	19th
HAI	1013.7	0600	8th	1000.1	1500	26th	1020.8	0600	4th	1965	997.5	1500	31st	1958	90	0300	2nd	12	1200	12th
NAJAF	1015.1	0600	12th	1000.8	1500	4th	1020.7	0600	4th	1965	997.7	1200	28th	1963	63	0000	1st	6	1500	19th
DIWANIYA	1015.2	0900	12th	1002.0	1200	26th	1020.9	0600	4th	1965	996.2	0000	3rd	1946	70	0300	2nd	9	1200	14th
NASIRIYA	1014.1	0600	12th	1000.1	1500	26th	1019.8	0600	4th	1965	997.2	0000	31st	1948	75	0000	2nd	11	0900	31st
BASRAH	1013.7	0900	8th	999.8	1500	26th	1019.2	0600	4th	1965	997.7	0000	31st	1959	95	0000	2nd	18	1200	5th

MAY 1970. TABLE 15 (15)

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

PRESSURE SURFACE MB.	HEIGHT "OF PRESSURE" (GPM)				TEMPERATURE °C				DEW POINT °C		WIND						
												AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	31	73	120	25	27	23.1	29.0	18.5	27	8.5	27	340	05	340	13	000	00
850	31	1497	1537	1451	31	19.3	28.7	10.2	31	-1.4	31	290	09	270	26	290	04
700	31	3124	3198	3076	31	6.8	14.8	-0.7	31	-10.8	31	260	17	290	54	150	06
500	31	5786	5913	5687	31	-12.8	-8.5	-17.8	31	-27.9	31	260	27	260	65	110	06
300	31	9473	9655	9306	31	-40.2	-31.9	-44.8	30	-51.0	30	250	39	260	75	290	16
200	30	12180	12367	11915	30	-53.9	-48.0	-59.2	28	-65.1	28	260	54	290	120	150	18
150	30	13948	14187	13742	30	-57.8	-50.5	-63.4	27	-68.5	25	260	50	260	110	200	17
100	29	16499	16636	16347	29	-65.7	-59.3	-73.2	20	-73.2	24	250	43	270	100	250	18
70	26	18650	18792	18545	26	-66.1	-60.0	-72.8	26	-75.0	17	250	38	270	100	200	15

N = Total number of observation.

MAY 1970. TABLE

( )

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

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

TIME OF OBS. GMT.	FREEZING LEVEL,										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT " GPM "	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	31	3994	631	-15.3	4790	722	-1.4	2850	576	-27.9	30	13050	184	-58.3	17920	250	-46.5	10545	82	-77.4	15600	114	250	135

N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

مديرية المناخ

بغداد

=======

تقرير المناخ الشهري

المجلد : ٣٣

العدد : ٦

الشهر : حزيران

السنة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

==========

VOLUME : 33

NO. : 6

Month : JUNE

Year : 1 9 7 0

JUNE 1970.

GENERAL SITIUATION : STABLE MONTH.

MAIN FEATURE : The seasonal trough of low pressure from Basrah gulf is well marked, and pentra-ted to the country several times, some with Cells of low pressure deducted, and lies over the northern border, and or over Syprus,. The axis of the trough was Oscillating eastword to the border in some occassions.

PRESSURE ; Mean pressure was generally below normal, and highest pressure reading was 1010.9 mbs at Ana and is 4 mbs above normal, and the lowest pressure reading was 995.3 mbs at Kirkuk,and is 7 mbsbelow Normal.

TEMPERATURE : Highest maximum temperature was 45.6 °C at Najaf and is 12 °C above normal, and 4 °C above normimax. The lowest minimum temperature was 10 °C at Salaheddin and is 9 °C below normal minimum .

SURFACE WIND : Prevailing surface wind was Northwesterly in general and Southerly in mountain regions, speed was generally light, except Central area was fresh and exceeded 35 Kts once at Ana.

PRECEPITATIONS : No precipitations reported.

OTHER PHENOMENAE : Thunderstorms reported once at Ana .
Dust was normal in general ,except Nasiriya number of days occured were slightly above normal.

RELATIVE HUMIDITY : Relative humidity was normal.

JUNE 1970. TABLE [illegible]. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	32.6	19.6	37.0	[illegible]	28.4	[illegible]	36.5	[illegible]	35.0	17.1
2	32.8	21.7	41.3	[illegible]	32.3	[illegible]	40.2	22.1	36.9	17.5
3	[illegible]	[illegible]	36.0	19.4	28.0	[illegible]	36.0	22.6	33.3	19.4
4	34.2	[illegible]	38.1	20.5	30.8	[illegible]	38.4	21.0	38.5	15.7
5	36.7	24.6	40.0	18.5	32.5	19.0	39.7	22.2	40.7	22.0
6	37.5	24.4	40.2	23.0	32.6	20.7	40.0	24.8	40.8	25.0
7	35.6	23.2	40.2	23.5	31.3	20.2	39.0	23.6	38.3	22.5
8	35.4	19.8	39.0	24.2	30.2	20.3	38.5	23.2	37.0	22.5
9	33.4	20.2	37.9	21.2	29.5	18.9	37.8	22.4	35.5	19.5
10	33.8	22.1	36.8	23.2	28.5	18.1	37.3	23.8	37.2	20.3
11	34.3	20.8	37.1	23.7	28.0	17.3	36.2	23.9	36.2	16.5
12	35.8	22.8	38.0	24.4	29.8	17.4	37.8	23.0	39.7	18.2
13	38.3	24.8	40.8	19.0	31.7	21.0	40.0	24.9	41.2	19.5
14	39.3	25.1	42.5	20.3	33.2	22.3	42.0	25.0	42.2	19.2
15	36.3	23.3	41.8	24.0	32.2	20.8	41.5	25.8	38.9	23.1
16	38.4	25.2	41.0	19.8	32.4	21.4	40.0	26.4	40.5	24.0
17	38.3	25.8	41.6	20.4	33.4	23.4	41.1	24.8	40.8	25.8
18	36.8	25.6	41.6	21.0	33.1	22.5	41.2	26.3	40.8	24.6
19	38.3	25.6	40.6	20.6	33.0	23.8	40.5	27.5	40.8	23.7
20	37.4	25.6	41.4	19.5	33.1	22.4	40.0	24.8	40.5	24.5
21	36.2	22.1	41.2	23.4	32.4	22.8	40.6	24.4	39.4	24.6
22	33.8	20.8	39.5	21.0	31.6	21.0	39.6	24.8	37.1	20.7
23	33.3	22.2	38.0	24.0	30.5	20.1	37.7	23.4	35.8	21.5
24	34.8	22.8	39.0	23.2	31.4	18.4	38.5	23.3	36.0	22.5
25	37.4	22.3	39.5	20.0	32.4	20.7	39.4	24.0	38.5	21.4
26	36.8	22.6	41.4	20.4	32.4	22.4	41.0	24.8	40.1	25.8
27	38.2	25.1	42.4	23.0	33.4	23.1	42.4	26.0	41.2	20.0
28	38.7	24.2	43.0	25.0	34.4	24.0	43.0	26.7	42.0	20.3
29	37.8	22.2	41.5	26.4	34.4	23.6	41.5	25.5	40.6	25.4
30	38.2	24.1	42.4	24.0	35.4	23.1	42.5	25.0	40.0	26.1
MEANS	36.0	22.6	40.0	21.8	31.7	20.7	39.6	24.2	39.0	21.6
NORMAL	....	....	39.6	18.6	....	....	39.2	23.6	....	....
HIGHEST	41.7	32.2	47.6	31.6	35.5	24.3	47.8	32.8	45.0	27.2
DAY	7th	9th	23rd	30th	27th	10th	23rd	22nd	5th	5th
YEAR	1965	1966	1961	1926	1968	1969	1961	1942	1969	1969
LOWEST	26.0	13.0	25.9	11.1	22.2	10.0	29.6	13.9	32.0	15.7
DAY	5th	5th	3rd	1st	5th	5th	5th	2nd	22nd	4th
YEAR	1967	1967	1963	1952	1967	1967	1967	1943	1968	1970

JUNE 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	35.0	14.5	39.5	20.5	39.5	21.5	37.0	19.2	39.0	23.0
2	34.0	19.8	41.6	21.5	41.2	20.0	40.5	18.2	41.3	23.0
3	34.0	16.0	35.5	23.6	39.2	19.6	36.4	19.3	41.0	23.4
4	36.1	19.6	39.5	22.3	41.5	22.4	39.3	20.0	41.6	26.0
5	38.4	17.9	40.5	23.2	43.0	24.0	40.6	21.5	42.0	26.6
6	38.6	20.5	41.5	24.4	43.4	24.0	41.0	22.0	43.2	26.4
7	35.6	19.0	39.5	24.5	42.0	23.0	40.0	22.5	42.3	26.9
8	33.4	19.0	38.3	23.8	38.5	24.0	37.5	21.0	39.3	27.4
9	33.0	19.4	38.4	21.0	38.0	20.9	37.6	22.5	38.6	22.4
10	33.0	19.2	37.5	22.0	39.2	20.5	36.5	20.4	39.4	23.0
11	35.5	19.0	38.3	21.0	40.0	18.9	38.3	19.7	39.0	20.8
12	38.5	19.7	39.2	21.6	40.6	18.5	40.0	21.5	40.0	23.0
13	40.5	19.2	42.0	22.0	42.7	20.6	41.5	20.5	41.2	23.6
14	39.3	20.3	42.0	23.5	43.8	21.0	43.4	21.6	43.5	23.5
15	36.5	20.0	41.0	25.5	43.8	23.2	40.5	24.2	45.0	25.5
16	37.6	21.0	41.0	24.5	41.8	21.6	40.6	22.4	41.7	27.3
17	39.3	19.4	42.0	24.0	43.1	21.1	41.6	23.0	43.0	27.2
18	37.5	19.5	42.0	24.0	43.5	22.5	41.8	24.0	44.7	27.2
19	37.1	21.0	41.4	26.5	42.4	24.8	40.5	24.4	43.5	28.0
20	37.0	22.1	41.7	25.5	42.0	25.1	40.6	23.0	42.7	23.8
21	37.8	20.3	41.6	25.0	43.0	22.8	41.0	24.5	42.4	26.6
22	36.0	18.3	41.4	22.0	41.9	20.4	40.0	20.0	42.5	26.7
23	34.5	17.5	39.7	23.0	40.2	21.5	37.5	21.4	41.6	27.2
24	34.0	18.0	37.7	24.5	38.4	21.6	36.7	20.4	38.0	26.0
25	34.6	19.1	39.5	23.0	39.8	23.0	39.0	19.9	39.5	25.0
26	36.3	20.3	41.0	24.9	42.0	20.6	39.6	21.2	41.0	23.5
27	39.5	17.6	42.1	23.5	43.5	23.0	41.6	21.2	42.3	23.2
28	39.0	20.0	42.0	23.6	44.0	21.5	42.5	21.4	44.6	26.7
29	36.5	21.4	41.5	25.6	42.2	23.0	40.0	21.0	42.0	30.4
30	36.5	21.6	41.3	25.6	42.2	26.2	38.4	23.2	41.5	25.7
MEANS	36.4	19.2	40.3	23.5	41.5	22.0	39.7	21.5	41.7	25.3
NORMAL	36.1	18.7	40.9	23.3	41.0	23.3	....	....	41.5	24.8
HIGHEST	44.5	26.1	48.9	30.9	48.3	32.2	44.5	31.0	49.5	33.0
DAY	17th	10th	24th	5 th	10th	6 th	9th	5th	26th	8 th
YEAR	1949	1932	1942	1965	1949	1958	1966	1965	1942	1966
LOWEST	25.4	7.0	30.3	15.6	30.4	13.5	30.3	12.8	32.0	16.4
DAY	5 th	22nd	5th	3 rd	5 th	7 th	5 th	6 th	5 th	6 th
YEAR	1967	1936	1967	1943	1967	1967	1967	1967	1967	1967

JUNE 1970. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMU M TEMPERATURES(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	38.8	22.0	37.5	20.6	35.7	22.3	35.5	22.9
2	42.7	22.0	40.6	19.9	40.2	22.7	37.6	24.1
3	40.0	22.4	39.1	24.0	39.7	24.3	39.1	25.3
4	41.7	24.2	40.3	22.7	38.0	24.3	38.0	24.5
5	43.0	26.0	41.9	23.3	41.7	24.6	40.2	26.4
6	44.4	26.5	42.0	22.5	40.5	24.7	37.6	26.4
7	42.5	26.5	41.7	23.7	41.0	24.7	38.2	26.2
8	39.9	25.8	39.4	23.0	39.3	24.2	37.0	23.8
9	39.2	24.5	38.0	23.6	38.0	22.8	36.9	24.8
10	39.4	23.8	37.6	22.1	36.6	24.2	36.1	25.9
11	40.6	23.4	39.0	21.3	39.0	22.7	38.5	22.0
12	40.9	22.6	39.6	20.6	39.8	23.0	38.6	23.8
13	43.2	26.6	41.5	22.7	40.9	23.0	39.1	24.4
14	44.4	25.0	43.0	23.4	44.3	25.2	41.4	25.7
15	45.6	26.2	43.4	26.0	45.0	26.8	41.8	25.5
16	44.2	27.4	41.3	25.0	42.8	26.2	41.6	27.4
17	44.2	26.5	42.2	22.0	43.0	24.4	40.4	25.6
18	44.9	26.5	44.5	29.2	44.3	27.5	43.4	26.4
19	43.5	26.5	43.0	25.7	44.0	27.5	42.0	27.6
20	43.3	26.0	41.5	25.5	43.0	27.7	42.0	27.0
21	44.2	26.3	42.2	24.1	42.8	25.7	39.5	27.5
22	42.9	25.8	41.2	25.5	42.0	25.9	40.5	27.1
23	41.5	25.2	39.6	23.7	41.0	23.0	38.9	27.1
24	38.4	23.4	38.3	23.1	38.0	23.0	36.9	25.4
25	40.4	24.4	39.6	22.0	39.9	22.7	37.9	24.2
26	42.0	23.8	40.2	22.2	40.6	24.2	39.5	22.8
27	43.6	26.2	42.5	24.5	42.0	24.5	40.7	24.2
28	44.4	26.4	43.7	22.6	42.5	24.8	41.3	24.9
29	43.2	27.8	42.0	22.9	42.5	24.7	40.1	26.9
30	42.5	23.4	41.1	27.7	41.1	26.5	40.2	25.7
MEANS	42.3	25.4	40.9	23.7	40.9	24.6	39.4	25.5
NORMAL	....	....	41.0	22.5	40.2	24.9	38.8	27.1
HIGHEST	47.5	30.7	47.0	31.1	48.3	32.6	48.2	36.0
DAY	9th	30th	2nd	5th	27th	8th	26th	21st
YEAR	1966	1963	1962	1964	1955	1969	1957	1959
LOWEST	31.3	17.8	31.2	14.4	31.1	18.2	24.5	18.2
DAY	5th	6th	5th	1st	5th	6&7th	9th	7th
YEAR	1967	1967	1967	1942	1943	1967	1957	1957

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	29.5	30.6	33.2	34.8	34.5	31.1	....	31.8
MOSUL	24.2	23.3	30.5	37.5	39.4	37.9	31.9	28.1	34.6
SALAHADDIN	....	23.2	28.0	30.2	31.3	30.5	25.4	....	28.4
KIRKUK	26.5	23.1	34.0	37.1	39.3	37.0	31.7	28.7	32.7
ANAH	....	22.3	28.5	35.8	38.4	37.8	31.5	....	32.4
RUTBAH	21.5	19.9	28.0	33.0	35.6	35.1	29.2	24.8	28.4
HABBANIYA	25.1	24.5	31.9	35.0	39.7	37.7	32.0	28.6	32.2
BAGHDAD	24.6	23.8	33.0	39.1	41.0	39.6	34.8	27.2	32.3
NUKHAIB	....	....	31.3	36.6	39.1	38.5	32.3	....	35.6
HAI	27.1	26.0	35.6	40.4	44.2	39.1	32.5	29.7	34.0
NAJAF	27.6	25.9	34.7	39.9	41.9	40.3	34.3	30.9	34.0
DIWANIYA	25.6	24.5	33.6	38.9	40.6	38.7	34.8	28.1	32.7
NASIRIYA	26.9	25.2	32.4	39.4	40.5	37.0	31.8	29.5	32.8
BASRAH	27.3	26.0	32.6	36.6	38.9	36.2	31.7	29.3	32.4

TABLE 3. WET-BULB TEMPERATURES (°C)

SINJAR	....	15.2	16.9	17.2	17.5	17.4	16.3	....	16.8
MOSUL	15.1	14.5	18.0	20.2	20.1	19.2	17.4	15.9	17.6
SALAHADDIN	....	15.4	17.0	17.5	17.7	17.3	15.1	....	16.7
KIRKUK	14.8	14.9	17.9	18.5	18.8	18.3	17.0	15.6	17.0
ANAH	....	14.2	17.3	19.4	20.0	19.6	17.7	....	18.0
RUTBAH	14.0	13.5	16.6	18.4	19.3	19.2	17.0	15.3	16.7
HABBANIYA	17.0	17.1	20.0	20.7	21.1	21.1	19.6	18.6	19.4
BAGHDAD	15.7	15.5	19.4	20.8	21.0	20.6	18.4	16.8	18.5
NUKHAIB	....	....	16.8	18.2	18.9	18.5	16.6	....	17.9
HAI	16.4	16.1	20.5	21.5	21.6	21.1	18.9	17.7	19.2
NAJAF	16.4	15.6	19.1	20.7	21.1	20.4	19.2	18.0	18.8
DIWANIYA	16.6	16.6	20.5	21.9	22.2	21.5	19.5	18.3	19.6
NASIRIYA	17.5	16.7	20.0	22.0	22.5	22.6	20.5	18.9	20.1
BASRAH	20.3	19.5	22.7	24.9	25.4	25.1	23.1	22.8	22.9

TABLE 4. VAPOUR PRESSURE (MBS.)

SINJAR	....	8.4	7.9	7.8	6.8	6.2	7.1	....	7.1
MOSUL	9.4	9.5	10.6	9.[illegible]	[illegible].2	7.5	8.2	8.3	9.0
SALAHADDIN	....	8.8	10.7	10.0	9.5	9.3	8.9	....	9.7
KIRKUK	7.7	8.0	7.8	6.1	5.4	5.7	7.6	7.4	7.0
ANAH	....	9.6	10.8	9.6	8.7	9.4	9.2	....	9.4
RUTBAH	9.9	10.3	9.9	9.6	9.4	9.5	9.8	9.8	9.8
HABBANIYA	13.9	13.7	13.0	11.0	10.2	11.9	13.0	13.5	12.6
BAGHDAD	10.9	11.1	11.8	10.0	9.0	9.1	11.4	10.8	10.5
NUKHAIB	....	....	7.4	6.4	5.8	6.0	6.3	....	6.4
HAI	10.8	10.1	12.1	10.6	10.4	10.8	11.0	10.6	10.7
NAJAF	9.7	8.6	9.8	9.2	8.5	8.2	10.3	10.4	9.3
DIWANIYA	11.7	12.6	13.7	12.5	12.2	11.[illegible]	12.9	13.2	12.6
NASIRIYA	12.2	12.3	13.5	12.8	12.9	15.8	15.0	13.7	13.5
BASRAH	18.4	17.7	19.9	22.4	21.8	23.1	21.6	20.4	20.7

TABLE 5. DEW-POINT TEMPERATURES (°C)

SINJAR	....	4.1	4.8	1.6	0.6	0.6	1.1	....	1.8
MOSUL	5.9	5.9	7.6	6.5	3.8	2.7	3.7	4.3	5.1
SALAHADDIN	....	6.4	7.7	6.6	5.7	5.3	5.0	....	6.1
KIRKUK	2.9	3.5	3.1	-0.3	-1.9	-1.4	2.4	2.4	1.3
ANAH	....	6.5	7.6	6.0	4.6	4.1	5.4	....	5.7
RUTBAH	6.5	7.1	6.4	5.8	5.4	5.7	6.3	6.3	6.2
HABBANIYA	11.3	11.3	11.5	8.1	7.2	8.9	10.6	11.1	10.0
BAGHDAD	7.9	8.1	9.0	6.3	4.7	5.0	8.5	7.8	7.2
NUKHAIB	....	....	2.6	-0.1	-1.4	-0.9	0.1	....	0.1
HAI	7.6	7.5	9.6	7.7	7.3	8.0	8.3	7.5	7.9
NAJAF	6.4	6.1	6.4	5.3	4.4	3.8	6.9	7.2	5.8
DIWANIYA	9.3	10.3	11.6	10.1	9.7	9.3	10.6	11.0	10.2
NASIRIYA	9.8	9.9	11.4	10.3	10.5	13.7	12.9	11.6	11.3
BASRAH	15.9	15.3	17.1	19.1	18.7	19.6	18.5	17.7	17.7

JUNE 1970. TABLE 5.

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	24	19	14	12	11	16	,,	16
MOSUL	32	34	24	16	11	12	18	23	21
SALAHADDIN	,,	31	29	24	21	21	28	,,	26
KIRKUK	23	24	15	10	8	9	17	19	16
ANAH	,,	37	28	17	13	13	20	,,	21
RUTBAH	39	45	27	20	16	17	24	31	27
HABBANIYA	44	44	30	17	14	18	28	35	29
BAGHDAD	36	38	24	14	12	13	25	31	24
NUKHAIB	,,	,,	17	11	8	9	13	,,	13
HAI	28	31	21	14	13	15	22	28	21
NAJAF	27	29	18	13	11	11	19	25	19
DIWANIYA	36	42	26	18	16	17	28	35	27
NASIRIYA	35	38	28	18	17	26	32	34	29
BASRAH	51	53	41	36	31	39	46	50	43

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

SINJAR	,,,,	04.4	04.0	03.4	02.4	02.0	03.3	,,,,	1003.0
MOSUL	04.5	04.9	05.0	03.9	02.1	01.4	02.7	03.6	1003.5
SALAHADDIN	,,,,	03.4	02.7	02.3	01.3	01.0	03.2	,,,,	1002.3
KIRKUK	04.3	04.6	04.0	03.1	02.0	01.5	03.2	03.9	1003.3
ANAH	,,,,	06.2	06.6	05.6	04.1	03.3	04.2	,,,,	1005.0
RUTBAH	05.4	06.6	06.2	05.0	04.8	04.4	04.8	05.0	1005.4
HABBANIYA	03.5	03.0	04.5	04.2	03.0	02.3	03.4	03.1	1003.5
BAGHDAD	02.7	03.3	04.1	03.9	02.5	01.9	02.6	02.9	1003.0
NUKHAIB	,,,,	,,,,	06.4	05.4	04.7	03.9	04.8	,,,,	1005.0
HAI	00.5	00.6	01.6	01.5	00.7	00.2	01.1	01.0	1000.9
NAJAF	02.4	03.2	04.0	03.6	02.5	01.7	02.7	02.5	1002.8
DIWANIYA	02.4	02.9	03.6	03.4	02.5	02.1	02.6	02.6	1002.8
NASIRIYA	01.0	01.4	02.2	02.1	01.0	00.6	01.4	01.3	1001.4
BASRAH	00.0	00.4	01.3	01.3	00.3	999.8	00.5	00.5	1000.5

TABLE 8. TOTAL CLOUD AMOUNTS (OKTAS)

SINJAR	,,,,	0.2	0.2	0.1	0.2	0.2	0.1	,,,	0.2
MOSUL	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
SALAHADDIN	,,,,	0.0	0.0	0.1	0.4	0.3	0.2	0.0	0.2
KIRKUK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANAH	,,,	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	0.1	0.1	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	,,,	,,,	0.1	0.0	0.0	0.0	0.0	,,,	0.0
HAI	0.0	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.1
NAJAF	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
DIWANIYA	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.0	0.0	1.9	2.7	1.1	0.0	0.0	0.7
BASRAH	0.1	0.2	0.2	0.9	0.6	1.3	0.2	0.1	0.5
SINJAR	,,,	0.2	0.2	0.1	0.2	0.2	0.1	,,,,	0.2
MOSUL	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
SALAHADDIN	,,,	0.0	0.0	0.1	0.4	0.3	0.2	,,,	0.2
KIRKUK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANAH	,,,	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	0.1	0.0	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	,,,	,,,	0.0	0.0	0.0	0.0	0.0	,,,	0.0
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.0	0.0	1.9	2.7	1.1	0.0	0.0	0.7
BASRAH	0.0	0.0	0.0	0.8	0.5	1.3	0.0	0.0	0.3

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	21 knots.	310	0900	9 th
MOSUL	18	290	1200	18th
SALAHADDIN	25	030	0600	11th
KIRKUK	15	300	0300	10th
ANAH	36	270	1200	9 th
RUTBAH	22	350	1200	9 th
HABBANIYA	22	280	1200	25th
BAGHDAD	23	330	0900	9 th
NUKHAIB	25	330	0600	19th
HAI	25	340	1200	13th
NAJAF	20	290	0000	10th
DIWANIYA	23	290	0900	10th
NASIRIYA	25	320	1200	5 th
BASRAH	22	320	0600	25th

JUNE 1970. TABLE 12a. (9)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMAL	tr.	0.0	2.0	0.0	0.0	tr.	tr.

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	6.1 mms.	13th	1957
MOSUL	5.4	5 th	1959
SALAHADDIN	3.3	2 nd	1957
KIRKUK	2.7	12th	1957
ANAH	xxx	xxx	xxx
RUTBAH	1.7	2 nd	1954
HABBANIYA	0.5	1 st	1953

JUNE 1970. TABLE 12b. (10)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

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

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	2.5 mms.	2 nd	1955
NUKHAIB	tr.	3 th	1965
HAI	0.3	4 th	1957
NAJAF	tr.	1 st	1953
DIWANIYA	tr.	11 th	1944
NASIRIYA	tr.	6 th	1968
BASRAH	tr.	2 nd	1952

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			NAJAF		NASIRIYA			BASRAH
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	16.6	26.8	14.4	24.2	23.3	19.5	31.5	28.0	19.0	31.0	28.0	32.5	30.2	21.5	32.6	27.3	18.6
2	15.4	26.6	17.5	24.1	23.3	19.9	31.5	28.0	14.4	31.4	28.0	32.9	30.3	21.5	32.2	28.4	19.6
3	17.0	27.5	20.2	24.5	23.4	22.9	32.0	28.0	18.0	32.4	28.0	33.8	30.4	23.5	32.7	28.4	18.5
4	17.2	27.8	13.2	25.0	23.4	21.1	32.0	28.0	17.6	32.4	28.3	33.6	30.2	23.0	32.8	28.5	20.4
5	17.0	27.8	17.6	25.6	23.9	22.7	32.2	28.0	19.0	32.4	28.2	33.7	30.5	23.0	32.3	28.4	21.8
6	19.5	27.5	19.6	26.1	23.9	22.2	32.5	28.3	19.3	32.9	28.4	34.7	30.7	23.7	32.5	28.6	24.5
7	21.0	28.0	19.6	25.3	23.9	23.8	34.7	28.5	20.8	33.4	28.5	33.2	30.6	23.3	32.7	28.6	21.7
8	18.0	28.5	17.6	25.0	24.0	22.8	33.0	28.6	19.1	29.4	28.6	33.6	30.5	23.5	33.0	28.9	18.2
9	18.0	28.2	15.1	25.4	24.1	19.5	32.8	28.7	19.6	29.5	28.6	31.0	34.4	21.7	32.7	28.6	xxxx
10	18.4	28.5	15.2	25.7	24.4	21.1	32.6	28.8	19.0	29.7	28.8	34.3	31.4	23.4	32.6	28.9	22.3
11	18.2	28.5	16.0	26.4	24.4	20.3	32.6	28.8	15.6	32.8	28.8	34.4	31.5	21.4	32.6	28.7	18.0
12	18.5	28.5	19.1	26.9	24.5	20.6	32.7	29.0	15.7	32.8	29.1	34.2	31.2	22.0	32.4	29.0	16.9
13	18.2	28.5	23.6	27.5	24.7	21.0	32.7	29.0	16.5	33.2	29.1	34.1	31.4	23.0	33.4	28.9	23.4
14	18.0	28.5	19.0	27.8	24.7	21.2	33.0	29.0	17.0	33.7	29.2	35.2	31.7	23.4	32.9	28.8	20.9
15	19.0	28.8	20.0	27.2	25.0	23.5	33.2	29.0	18.8	34.2	29.2	35.6	31.7	24.9	34.7	29.0	19.0
16	18.7	28.8	23.0	27.4	25.1	23.1	33.4	29.1	18.0	34.4	29.4	35.9	31.8	24.5	35.2	29.0	21.6
17	18.5	30.0	19.7	27.8	25.3	22.7	33.4	29.2	18.2	34.3	29.3	36.0	31.8	24.0	35.5	29.3	18.1
18	18.8	29.4	21.6	28.3	25.5	21.7	33.5	29.3	19.5	34.8	29.6	36.3	32.0	25.9	36.0	29.2	18.9
19	18.6	27.5	23.8	28.9	25.5	25.0	33.7	29.4	22.1	35.1	29.7	36.5	32.4	26.5	35.5	30.6	19.6
20	18.0	27.5	20.7	29.2	25.8	23.4	33.7	29.5	19.8	34.8	29.8	36.4	32.4	26.0	36.5	29.5	19.1
21	18.5	28.5	19.6	29.6	25.8	23.4	33.8	29.7	20.0	35.0	29.8	36.4	32.5	24.3	36.3	29.9	21.0
22	18.2	28.0	22.0	29.4	26.0	20.8	33.7	29.6	18.2	35.2	29.8	36.5	32.7	24.3	36.6	29.7	20.4
23	20.2	29.0	19.6	29.5	26.1	21.1	33.8	29.7	18.8	34.8	30.1	32.4	35.6	22.5	34.5	30.4	23.1
24	19.2	28.5	20.0	29.4	26.1	22.2	33.5	29.5	18.6	34.6	30.3	35.8	33.8	22.5	34.8	29.9	21.6
25	18.0	28.8	17.5	30.0	26.5	21.7	33.5	30.0	19.4	34.2	30.4	32.8	35.4	21.5	33.2	30.5	20.0
26	18.2	29.0	20.5	29.9	26.8	22.4	33.5	30.0	17.3	34.0	30.2	35.4	33.0	22.5	33.7	30.1	15.7
27	18.0	28.5	22.0	28.3	26.7	21.1	33.5	30.0	19.0	35.3	30.3	35.8	33.0	23.3	33.5	30.7	16.8
28	23.2	30.7	20.6	28.2	26.7	22.2	33.7	30.0	18.3	34.5	31.0	35.7	33.0	23.1	34.3	30.7	18.3
29	22.4	30.0	19.7	28.3	26.7	23.9	34.0	30.0	18.1	34.4	30.5	36.3	32.8	23.3	34.5	30.8	21.5
30	21.6	29.5	18.0	28.8	26.9	24.5	34.0	30.0	21.4	35.0	30.4	36.2	32.6	24.1	34.5	30.8	21.6
MEANS	18.9	28.5	19.2	27.3	25.1	22.0	33.1	29.1	18.4	33.4	29.3	34.7	32.1	23.4	33.9	29.8	19.3

JUNE 1970. TABLE 14.

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	12	10	10	11	16	10	12	11	8
2	12	11	12	12	20	12	12	12	10
3	14	11	10	13	22	11	10	12	10
4	15	12	12	13	20	8	12	12	8
5	15	12	14	13	16	10	13	14	8
6	15	14	14	15	19	9	12	11	13
7	16	13	10	15	18	11	14	12	7
8	16	11	16	16	21	8	15	13	10
9	16	14	18	15	23	10	12	11	9
10	16	14	14	15	23	7	10	11	7
11	15	12	10	14	16	8	10	10	8
12	16	14	12	15	13	10	10	11	10
13	16	11	15	16	16	10	10	13	11
14	16	11	12	16	15	11	9	12	7
15	17	11	14	15	14	9	12	12	10
16	17	12	18	15	14	10	10	10	8
17	17	12	18	15	18	10	12	10	7
18	17	14	16	16	16	9	10	11	11
19	17	13	18	16	18	8	10	12	8
20	18	12	18	16	17	10	10	12	7
21	18	13	17	15	12	8	10	12	12
22	18	13	16	15	19	12	10	14	11
23	18	13	13	15	18	10	10	14	10
24	18	13	16	14	17	10	9	10	8
25	18	12	16	15	15	12	11	12	7
26	20	12	18	15	15	10	10	11	10
27	20	12	18	16	13	11	12	15	11
28	21	13	20	16	15	12	13	13	10
29	20	12	23	16	16	10	15	13	7
30	20	12	18	15	17	10	14	13	9
TOTAL	504	369	456	444	513	296	341	359	272
MEANS	16.8	12.3	15.2	14.8	17.1	9.9	11.3	12.0	8.8

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST SEEN	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	No. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	0	3	1	0	29	0	-	-	-	-
MOSUL	0	0	0	0	0	0	16	2	1	0	30	0	374.8	13.8	11th	0
SALAHADDIN	0	0	0	0	0	0	0	0	0	0	30	0	-	-	-	-
KIRKUK	0	0	0	0	0	0	14	2	7	0	30	0	-	-	-	-
ANAH	0	0	0	0	0	0	0	14	1	0	30	0	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	2	0	0	30	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	0	8	3	2	30	0	404.9	14.0	28th	0
BAGHDAD	0	0	0	0	0	0	7	7	4	0	30	0	385.3	13.3	23rd	0
NUKHAIB	0	0	0	0	0	0	0	7	0	0	30	0	-	-	-	-
HAI	0	0	0	0	0	0	0	18	1	0	30	0	-	-	-	-
NAJAF	0	0	0	0	0	0	0	5	3	0	30	0	-	-	-	-
DIWANIYA	0	0	0	0	0	0	0	17	7	0	30	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	0	19	23	3	30	0	-	-	-	-
BASRAH	0	0	0	0	0	0	0	4	19	4	26	0	326.4	13.0	15th	0

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

STATION	PRESSURE AT MSL - 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL-RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1009.6	1800	19th	996.9	1500	30th	1016.1	0300	2nd	1967	995.1	1500	30th	1967	41	0300	3rd	4	1500	21st
MOSUL	1010.3	0000	4th	995.4	1500	30th	1017.3	0300	1st	1952	992.8	1800	29th	1960	53	0300	13th	6	1200	15th
SALAHADDIN	1008.5	1800	4th	995.9	1500	30th	1014.9	0300	2nd	1967	994.4	1500	30th	1967	49	0300	3rd	12	1500	30th
KIRKUK	1009.0	0300	4th	996.5	1500	30th	1014.4	0300	1st	1952	991.2	1500	1st	1951	40	0300	8th	3	1500	8th
ANAH	1010.9	0600	4th	998.0	1500	29th	1014.5	0600	2nd	1968	998.8	1500	29th	1970	59	0300	24th	6	1500	19th
RUTBAH	1010.5	0600	3rd	[illegible]	[illegible]	[illegible]	1018.3	0300	1st	1952	997.3	1200	30th	1944	67	0300	3rd	6	1200	26th
HABBANIYA	1008.1	0900	4th	998.2	1500	29th	1015.0	0600	1st	1967	994.4	1500	29th	1960	73	0000	23rd	9	1200	14th
BAGHDAD	1007.6	0000	1st	997.8	1500	30th	1014.4	0600	1st	1967	991.1	1800	24th	1963	55	0900	28th	6	1200	8th
NUKHAIB	1010.4	0600	1st	998.6	1500	14th	1016.7	0600	1st	1967	995.8	1500	30th	1963	36	0600	24th	3	1200	21st
HAI	1004.8	0600	21st	996.6	0000	30th	1012.6	0300	1st	1952	992.3	1500	29th	1960	40	0300	12th	8	1200	29th
NAJAF	1007.3	0600	4th	997.7	1500	18th	1014.6	0600	1st	1967	992.9	1500	30th	1963	49	2100	2nd	7	1500	13th
DIWANIYA	1006.6	0600	1st	998.3	1500	18th	1013.8	0900	1st	1967	992.9	1500	29th	1960	59	0300	2nd	10	0900	15th
NASIRIYA	1005.6	0600	21st	996.9	1500	3rd	1012.6	0600	1st	1967	993.2	1500	29th	1960	51	0000	12th	7	0900	14th
BASRAH	1005.1	0900	21st	996.8	1500	29th	1012.6	0600	2nd	1968	992.4	1500	29th	1960	87	0300	27th	13	0600	19th

JUNE 1970. TABLE 16a.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE GPM.				TEMPERATURE °C				DEW POINT °C		WIND						
												AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	29	27	64	-19	9	27.1	29.2	24.1	9	8.1	9	330	11	330	20	000	00
850	29	1468	1513	1441	29	24.2	28.0	19.0	29	-1.3	28	320	16	310	29	360	10
700	29	3125	3190	3085	29	11.7	15.9	8.7	29	-12.2	28	290	19	310	38	330	10
500	29	5851	5955	5799	29	-5.5	0.2	-10.5	29	-30.5	26	260	22	270	48	230	09
300	29	9670	9854	9550	29	-29.5	-26.3	-37.8	29	-50.9	24	260	44	270	75	220	22
200	29	12464	12676	12307	29	-47.8	-44.2	-52.4	27	-65.9	24	250	45	250	98	260	15
150	29	14314	14546	14193	29	-60.1	-54.8	-63.0	20	-74.6	21	250	46	260	82	230	20
100	29	16768	17021	16613	29	-72.2	-62.9	-76.9	-	-	20	240	29	230	88	230	19
70	29	18856	19111	18717	29	-71.4	-66.7	-75.8	-	-	17	240	23	250	47	240	10

N = Total number of observations.

JUNE 1970. TABLE 1 Cb.

STATION: BAGHDAD RADIOSONDE STATION. TIME 1200 GMT. UPPER AIR CLIMATOLOGICAL DATA.

PRESSURE SURFACE MB.	HEIGHT PRESSURE (GPM)				TEMPERATURE °C				DEW POINT °C		W I N D						
												AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS
1000	29	27	61	-11	11	39.7	42.5	38.3	11	8.4	11	320	14	310	24	280	07
850	29	1479	1520	1445	29	24.0	28.0	20.8	29	-1.7	29	310	16	320	27	310	09
700	29	3129	3183	3096	29	11.9	16.2	8.3	29	-12.0	29	290	19	300	36	040	05
500	29	5863	5911	5794	29	-4.9	1.0	-10.0	29	-29.3	29	260	23	290	55	250	16
300	29	9693	9804	9549	29	-29.1	-24.9	-35.5	25	-43.0	29	250	46	260	86	270	22
200	29	12476	12627	12310	29	-47.9	-43.0	-51.6	23	-66.0	27	250	54	270	90	260	22
150	29	14333	14509	14132	29	-60.3	-51.6	-67.1	21	-73.3	23	240	50	260	132	240	16
100	29	16758	17009	16582	29	-72.1	-61.0	-77.0	-	-	21	240	37	230	93	220	15
70	27	18869	19145	18704	27	-72.1	-64.8	-77.3	--	-	17	230	23	240	58	230	10

N = Total number of observations.

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

STATION: BAGHDAD RADIOSONDE STATION. TIME GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMEPRATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	29	5018	555	-24.9	6030	596	-11.8	4400	498	-35.2	28	17336	92	-74.8	19320	122	-69.0	15546	65	-79.2	12790	199	260	118
1200	29	5082	553	-24.3	6090	625	-9.0	4040	490	-35.2	28	17131	96	-70.8	19700	130	-67.7	15000	78	-78.7	15000	130	240	125

N=Total number of observations.

الجمهورية العراقية

وزارة المواصلات
مديرية الطيران المدني العامة
مديرية الانواء الجوية
مديرية المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٣
العدد : ٧
الشهر : تموز
السنة : ١٩٧٠

I R A Q R E P U B L I C
MINISTRY OF COMMUNICATIONS
DIRECTORATE GENERAL OF CIVIL AVIATION
METEOROLOGICAL DEPARTMENT
CLIMATOLOGICAL DEPARTMENT
B A G H D A D

Volume : 33
No. : 7
Month : JULY
Year : 1 9 7 0

JULY 1970.

GENERAL SITIUATION	:	Normal summer Climate.
MAIN FEATURE	:	The seasonal trough of low pressure from Basrah gulf extended to the country the whole period , and shellow cells of low pressure deduct over the northern border .The axis of the trough ascillating eastword and lies over Iran in some cases . A trough line cold type from the western disturbances crossed the country on 25th and 26th, causing thunder and rain in the northern half of the country.
PRESSURE	:	Normal pressure was slightly above normal,highest pressure reading was 1005.7 mb at Rutbah and is 3 mb above normal, and the lowest pressure reading was 992.8 mbs at Hai and is 5 mb below normal .
TEMPERATURES	:	Temperatures were normal.The highest maximum temperature was 46.2 °C at Baghdad and is 3 °C above normal max. The lowest minimum temperature was 18.9 °C at Rutbah and is 3 °C below normal minimum .
RELATIVE HUMIDITY	:	The relative humidity was normal.
SURFACE WIND	:	Prevailing surface wind was Northwesterly direction in general, and speed was light in general and was fresh in southern half of the Country.
PRECIPITATION	:	Few drops inthe northern half of the country, during 15th and 25th.
OTHER PHENOMENAE	:	Thunderstorms reported in the northern regions once at Sinjar and twice at Kirkuk . Dust was frequent and abnormal in Southern half of the Country.

JULY 1970. TABLE 1a (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	39.4	23.[illegible]	42.5	21.4	36.2	24.[illegible]	42.2	25.3	41.3	25.0
2	39.2	22.[illegible]	43.3	24.4	35.6	23.4	42.7	24.7	40.9	23.8
3	36.8	22.4	42.2	26.0	35.5	24.4	42.5	24.6	39.5	24.6
4	36.4	24.[illegible]	41.2	25.5	33.2	20.4	40.5	25.5	38.3	22.7
5	40.8	25.[illegible]	42.7	22.4	34.7	22.4	42.0	25.2	42.7	25.7
6	40.8	25.5	43.2	25.[illegible]	35.3	24.4	43.5	29.3	43.1	26.7
7	40.4	25.[illegible]	43.7	26.5	36.2	24.5	44.0	32.0	43.[illegible]	26.4
8	40.2	27.[illegible]	44.0	28.9	36.3	24.2	45.4	28.[illegible]	43.5	27.5
9	38.6	25.[illegible]	43.4	31.2	36.3	24.6	45.0	25.6	40.3	26.4
10	35.3	22.4	40.1	26.4	32.3	21.2	40.2	26.5	37.0	23.0
11	35.6	22.[illegible]	40.3	22.2	34.2	21.7	41.0	25.[illegible]	38.4	21.6
12	37.8	25.[illegible]	42.5	22.4	34.7	22.5	41.0	26.8	38.4	21.8
13	35.2	25.[illegible]	40.4	25.2	32.6	20.2	41.0	26.0	37.2	23.5
14	38.3	25.[illegible]	40.7	24.1	34.4	21.7	41.2	26.2	41.6	25.5
15	38.6	24.[illegible]	42.4	28.0	34.5	23.2	43.4	28.[illegible]	43.0	28.5
16	40.0	25.[illegible]	42.5	25.1	35.3	23.1	43.1	29.0	41.0	26.7
17	41.2	25.[illegible]	42.8	27.4	36.4	23.4	43.7	29.1	41.7	25.6
18	41.2	27.[illegible]	43.3	25.0	36.1	24.2	44.1	32.6	43.7	26.4
19	41.3	25.3	45.0	21.2	37.3	23.2	45.4	29.3	42.8	26.7
20	37.3	24.3	44.9	27.4	34.6	22.4	42.0	28.5	39.3	25.0
21	39.2	24.[illegible]	42.0	27.5	35.2	21.2	42.4	26.5	41.4	23.0
22	39.0	26.2	43.6	22.2	36.3	23.3	43.1	25.4	42.0	25.3
23	35.6	21.[illegible]	41.5	23.8	34.3	22.4	40.5	26.9	40.6	22.6
24	37.1	23.2	41.5	24.5	33.7	22.0	40.9	28.1	39.4	25.2
25	37.3	23.4	41.0	26.0	34.0	22.3	39.0	26.9	36.4	23.0
26	36.3	23.[illegible]	40.0	24.4	32.6	25.0	41.0	28.7	40.0	25.3
27	33.4	24.[illegible]	41.0	22.4	33.4	24.0	42.0	27.1	39.2	22.3
28	37.3	24.[illegible]	41.7	25.2	34.6	23.4	42.0	25.6	40.3	24.3
29	37.[illegible]	25.[illegible]	42.9	22.4	37.2	24.0	43.9	29.6	42.0	22.5
30	39.6	25.[illegible]	43.6	25.3	35.4	24.3	43.[illegible]	25.7	42.2	26.2
31	38.9	25.2	43.9	23.5	36.4	25.4	43.9	25.6	42.3	26.7
MEANS	38.4	24.4	42.3	25.0	34.9	23.1	42.3	27.3	40.8	25.0
NORMAL	....	....	43.4	22.2	....	....	42.6	26.5	....	....
HIGHEST	44.7	3[illegible].2	51.1	32.8	38.4	28.4	49.5	35.5	47.6	28.6
DAY	19th	1[illegible]th	21st	[illegible] th	24th	19th	16th	21st	24th	26th
YEAR	1962	1934	1937	1938	1968	1968	1965	1940	1968	1968
LOWEST	35.0	1[illegible].3	34.4	13.8	31.1	20.2	34.0	22.0	36.2	20.6
DAY	5th	27th	5th	12th	6th	25th	11th	13th	1st	1st
YEAR	1966	1969	1926	1958	1968	1970	1958	1950	1969	1969

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HIT	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	36.4	23.9	41.5	25.0	42.4	23.5	40.0	22.0	44.0	24.6
2	36.2	21.2	41.4	25.0	42.2	25.0	40.0	22.5	41.5	26.6
3	37.1	21.3	41.4	24.5	42.0	23.0	39.2	23.0	42.0	24.2
4	36.6	20.0	40.0	23.0	41.1	21.1	39.0	23.5	41.4	26.4
5	39.6	23.0	41.0	23.5	43.2	20.0	41.0	24.5	40.0	23.0
6	38.0	23.1	43.0	27.5	45.0	25.2	42.0	24.0	44.0	27.2
7	39.1	22.5	43.5	27.0	45.0	27.2	43.0	25.2	45.1	29.5
8	39.0	22.5	44.4	29.0	46.2	29.0	41.2	24.4	45.0	29.0
9	36.6	22.3	42.6	29.5	44.5	28.0	40.2	24.0	43.5	29.0
10	36.9	19.5	40.0	25.5	40.6	24.0	39.0	23.4	40.3	27.5
11	37.5	19.9	39.7	23.4	41.0	22.1	39.4	23.0	41.5	23.5
12	37.3	21.2	40.6	23.5	41.0	21.6	39.6	23.0	42.3	23.5
13	34.7	22.0	40.5	24.5	42.4	23.4	39.0	25.0	43.0	25.0
14	37.0	23.0	41.7	26.0	41.6	24.2	40.0	24.4	40.7	27.4
15	39.0	25.4	43.2	28.0	44.2	27.0	42.6	27.0	42.7	27.6
16	38.4	23.1	43.0	27.5	43.0	27.2	42.0	26.2	43.0	29.5
17	38.4	21.[illegible]	42.7	27.5	43.0	26.0	41.4	24.2	43.4	29.0
18	39.7	23.6	44.0	27.5	46.0	24.6	42.5	24.2	45.0	29.0
19	40.2	25.1	44.0	28.5	45.4	25.2	42.9	26.5	45.0	26.0
20	37.0	21.3	41.6	28.0	41.5	26.5	40.0	25.5	45.4	30.0
21	37.0	19.9	40.4	24.0	40.0	25.5	41.0	24.2	40.0	29.2
22	36.0	21.2	42.4	26.0	43.0	26.0	41.0	24.2	42.3	24.7
23	35.9	21.0	42.0	24.4	42.0	21.5	39.9	22.6	42.6	26.3
24	35.4	20.8	41.5	27.0	42.3	21.6	39.0	23.5	42.0	26.3
25	35.0	23.1	40.6	25.5	41.[illegible]	19.0	39.0	23.2	42.5	25.5
26	36.5	24.4	40.6	22.5	41.2	20.5	40.2	24.2	42.0	25.2
27	35.4	19.9	40.6	26.5	41.5	24.3	40.0	24.0	42.0	25.7
28	36.0	20.2	39.5	24.0	41.0	22.2	41.0	24.5	41.4	26.7
29	37.0	21.9	42.7	25.0	44.0	22.6	40.1	24.4	43.2	24.0
30	3[illegible].3	22.3	42.3	27.0	44.2	25.5	40.3	23.8	43.0	26.2
31	39.0	21.9	42.0	26.5	44.4	24.4	39.4	23.0	43.5	25.7
MEANS	37.5	22.8	41.8	25.9	43.1	24.1	40.6	24.1	42.7	26.5
NORMAL	38.6	24.8	43.9	25.7	43.4	25.2	....	....	43.6	26.3
HIGHEST	46.1	31.4	50.6	33.9	50.0	30.2	47.2	30.0	50.0	32.4
DAY	22nd	31st	3rd	22nd	31st	25th	23rd	17th	22nd	16th
YEAR	1940	1959	1948	1953	1957	1957	1967	1965	1943	1967
LOWEST	29.3	14.4	36.0	21.1	35.5	16.6	36.3	20.2	35.0	20.7
DAY	11th	5th	5th	2nd	5th	[illegible]th	13th	29th	12th	13th
YEAR	1958	1933	1959	1948	1940	1946	1965	1963	1958	1965

JULY 1970. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	43.4	27.2	40.0	27.0	39.0	25.0	39.5	27.9
2	42.2	27.4	40.5	24.1	40.0	24.5	40.2	24.4
3	42.2	26.4	41.0	25.0	41.0	24.3	41.0	23.7
4	41.0	25.2	41.5	23.2	42.0	24.1	41.5	25.0
5	41.0	25.4	41.4	23.0	41.5	24.0	40.7	24.7
6	45.4	29.4	44.4	25.2	45.0	26.4	40.7	25.1
7	45.2	29.5	43.2	27.0	45.0	27.7	41.2	27.9
8	45.4	29.0	44.0	27.0	45.3	29.1	41.7	28.2
9	44.2	30.0	43.9	27.0	44.9	30.1	42.3	27.3
10	41.4	27.0	40.5	25.9	41.9	27.9	41.5	27.5
11	42.2	25.3	41.0	23.3	41.3	26.0	39.2	25.5
12	43.0	27.4	41.4	24.4	43.0	26.5	40.9	25.0
13	42.4	26.4	42.4	25.0	43.4	26.0	40.9	26.6
14	42.4	27.5	41.9	26.2	43.4	27.0	41.4	28.2
15	44.0	27.5	43.0	28.0	44.3	26.9	42.3	27.1
16	44.0	30.0	42.9	26.4	43.0	27.1	40.2	28.4
17	43.0	29.5	42.5	27.0	41.0	27.2	40.6	28.0
18	45.3	27.5	43.7	25.1	45.1	26.0	40.9	27.4
19	45.7	30.3	44.0	26.0	45.7	26.2	42.0	29.2
20	44.3	29.7	43.7	26.4	45.0	27.5	42.0	29.1
21	41.5	27.0	40.0	25.6	41.3	26.7	40.0	29.4
22	43.4	28.0	41.7	25.9	42.0	26.3	40.4	25.9
23	42.0	26.3	41.5	23.7	42.0	24.0	41.0	25.3
24	42.6	28.3	42.3	23.0	42.6	26.3	40.0	25.2
25	41.4	26.0	40.7	23.4	42.0	27.2	41.0	26.1
26	42.0	28.0	40.4	21.7	40.7	24.2	40.1	27.5
27	41.9	29.4	40.0	26.0	41.6	26.0	40.6	27.3
28	41.0	24.0	39.2	22.3	41.0	25.5	40.6	26.2
29	43.2	26.7	42.0	23.1	43.5	24.4	40.3	24.7
30	43.5	29.4	42.7	26.6	44.0	24.5	40.5	27.3
31	43.0	29.4	43.4	26.7	43.6	26.5	41.7	29.0
MEANS	43.2	28.0	41.9	25.3	42.9	26.1	41.0	26.0
NORMAL	....	....	42.4	23.7	42.7	25.5	40.3	27.6
HIGHEST	50.4	34.7	49.5	33.0	49.5	32.1	50.5	30.0
DAY	14th	29th	4th	24th	19th	22nd	26th	19th
YEAR	1964	1960	1940	1967	1962	1960	1951	1962
LOWEST	37.5	19.4	35.5	16.5	32.0	20.0	32.2	22.2
DAY	26th	30th	5th	12th	0th	15th	0th	15th
YEAR	1965	1965	1959	1950	1942	1952	1942	1952

JULY 1970. TABLE 2. (4)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	29.2	32.7	35.5	37.1	37.2	33.7	....	34.2
MOSUL	27.6	25.[illegible]	33.3	39.[illegible]	41.7	40.1	34.3	30.4	34.1
SALAHADDIN	....	26.5	29.7	32.6	34.[illegible]	33.[illegible]	28.4	....	30.7
KIRKUK	29.7	2[illegible]	35.7	40.3	41.9	40.5	34.4	31.5	35.4
ANAH	....	23.[illegible]	29.[illegible]	36.6	39.9	39.7	33.[illegible]	....	34.3
RUTBAH	24.2	22.3	2[illegible].2	34.[illegible]	36.7	36.4	31.5	27.4	30.1
HABBANIYA	27.2	26.4	32.9	39.1	41.3	40.[illegible]	34.[illegible]	30.[illegible]	34.[illegible]
BAGHDAD	26.5	25.[illegible]	33.9	40.1	42.4	41.[illegible]	32.4	28.[illegible]	33.9
NUKHAIB	....	....	31.9	37.[illegible]	40.2	39.9	34.6	....	36.7
HAI	28.6	27.1	34.9	41.[illegible]	42.2	40.[illegible]	34.2	31.1	34.[illegible]
NAJAF	30.3	2[illegible].5	35.7	40.[illegible]	42.7	41.6	35.[illegible]	32.7	35.[illegible]
DIWANIYA	27.2	25.9	34.2	39.3	41.5	39.9	32.[illegible]	29.7	33.[illegible]
NASIRIYA	29.6	28.[illegible]	34.2	41.4	42.5	39.[illegible]	34.2	31.2	34.[illegible]
BASRAH	29.[illegible]	27.3	33.6	39.1	40.4	37.9	33.4	31.5	33.9

TABLE 3. WET-BULB TEMPERATURES (°C)

SINJAR	....	17.1	19.9	19.4	19.6	19.7	19.5	....	19.9
MOSUL	17.5	16.9	20.1	22.1	21.9	21.2	19.5	1[illegible].3	19.7
SALAHADDIN	....	15.9	17.9	22.6	24.8	18.2	16.2	....	17.6
KIRKUK	16.8	16.9	19.6	20.7	20.6	20.1	18.7	17.7	19.9
ANAH	....	1[illegible].2	20.1	21.9	21.9	21.7	19.6	....	20.6
RUTBAH	16.7	16.1	17.[illegible]	19.3	19.7	19.6	1[illegible].8	16.6	18.0
HABBANIYA	18.5	18.2	22.1	23.2	23.7	23.[illegible]	21.9	20.4	21.4
BAGHDAD	17.[illegible]	17.7	21.5	22.9	23.6	22.3	20.1	18.6	20.4
NUKHAIB	....	....	17.9	20.3	21.1	20.6	19.9	....	19.8
HAI	17.[illegible]	17.3	21.[illegible]	22.7	22.[illegible]	22.2	20.4	18.9	20.4
NAJAF	17.3	17.1	20.9	21.7	21.5	21.[illegible]	19.7	18.4	19.7
DIWANIYA	17.[illegible]	17.6	21.3	23.6	22.6	22.1	20.6	19.2	20.5
NASIRIYA	17.[illegible]	16.9	20.6	22.5	22.9	22.9	20.7	19.3	20.5
BASRAH	22.7	21.[illegible]	24.[illegible]	26.6	27.6	27.3	25.3	23.9	24.9

TABLE 4. VAPOUR PRESSURE (MBS.)

SINJAR	....	9.9	10.[illegible]	9.6	9.4	8.9	9.2	....	9.6
MOSUL	11.9	12.2	13.1	12.5	1[illegible].5	10.1	11.[illegible]	11.3	11.6
SALAHADDIN	....	9.6	11.[illegible]	10.1	9.6	9.[illegible]	8.6	....	9.7
KIRKUK	[illegible].9	9.9	10.1	8.9	7.4	7.3	9.1	9.3	[illegible].9
ANAH	....	14.9	15.4	14.5	12.9	11.7	11.6	....	13.4
RUTBAH	13.9	13.4	12.1	10.6	9.5	9.4	9.9	10.4	11.[illegible]
HABBANIYA	14.4	16.4	16.2	15.9	15.4	14.8	16.6	15.8	15.7
BAGHDAD	13.5	14.1	15.9	13.7	11.3	12.1	13.7	13.4	13.5
NUKHAIB	....	....	9.3	9.9	9.0	9.7	9.3	....	9.6
HAI	11.8	12.1	13.[illegible]	13.9	12.2	12.7	13.9	12.9	12.6
NAJAF	9.5	10.5	12.9	10.6	[illegible]	[illegible]	10.3	9.9	10.1
DIWANIYA	13.1	13.6	15.1	13.9	12.2	12.3	14.4	14.9	13.6
NASIRIYA	11.7	11.3	13.5	12.1	12.3	14.4	13.7	13.3	12.9
BASRAH	22.9	2[illegible].1	24.1	25.7	26.[illegible]	27.[illegible]	25.[illegible]	23.[illegible]	24.6

TABLE 5. DEW - POINT (°C)

SINJAR	....	6.4	7.9	5.9	5.6	5.1	5.2	....	6.[illegible]
MOSUL	9.3	9.6	10.7	9.9	7.2	6.7	7.[illegible]	[illegible].4	[illegible].7
SALAHADDIN	....	6.3	8.3	7.9	6.3	5.3	4.6	....	6.3
KIRKUK	4.9	6.5	6.7	4.[illegible]	2.3	2.1	5.4	5.5	4.[illegible]
ANAH	....	12.[illegible]	13.6	12.3	[illegible].2	[illegible].6	11.6	....	11.4
RUTBAH	10.6	11.1	9.5	7.4	5.5	5.2	6.3	7.8	7.[illegible]
HABBANIYA	12.1	12.3	15.9	13.5	13.9	12.3	14.5	13.5	13.4
BAGHDAD	11.3	11.[illegible]	1[illegible].5	11.2	9.9	9.6	11.5	11.1	11.1
NUKHAIB	....	....	5.[illegible]	6.5	6.7	6.4	5.9	....	6.3
HAI	9.2	9.7	11.6	10.7	9.7	1[illegible].3	1[illegible].7	9.5	1[illegible].2
NAJAF	5.7	7.1	10.5	7.5	4.5	4.1	6.6	6.9	6.5
DIWANIYA	10.[illegible]	11.3	13.1	11.6	9.7	9.[illegible]	12.2	11.9	11.3
NASIRIYA	9.[illegible]	9.3	11.2	9.6	9.5	12.2	11.3	10.[illegible]	1[illegible].2
BASRAH	19.4	17.2	2[illegible].2	21.3	22.1	22.7	21.4	2[illegible].1	2[illegible].6

JULY 1970 . TABLE 6. (5)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,,,	25	22	17	15	14	18	,,	19
MOSUL	33	37	26	17	13	14	20	27	23
SALAHADDIN	,,	29	27	21	18	18	22	,,	22
KIRKUK	22	26	19	12	9	10	17	21	17
ANAH	,,	45	36	24	17	17	22	,,	27
RUTBAH	43	59	32	20	16	15	21	21	28
HABBANIYA	40	42	37	23	20	20	32	36	31
BAGHDAD	39	44	30	19	14	16	2	34	29
NUKHAIB	,,	,,	20	15	13	14	17	,,	16
HAI	30	34	25	17	15	17	24	27	24
NAJAF	22	27	22	14	10	10	18	20	18
DIWANIYA	36	41	28	19	15	17	29	34	27
NASIRIYA	30	32	25	15	15	20	26	30	24
BASRAH	58	56	46	30	36	42	51	52	47

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

SINJAR	,,,,	999.7	999.6	999.2	998.7	997.6	998.5	,,,,	998.8
MOSUL	999.7	00 .4	00 .4	999.5	997.7	997.1	998.3	999.4	999.1
SALAHADDIN	,,,	999.9	999.1	998.1	997.0	996.9	999.1	,,,,	998.4
KIRKUK	999.5	00 .0	999.6	998.6	997.4	997.0	998.8	999.6	998.8
ANAH	,,,,	02 .0	02 .5	01 .6	01 .1	999.1	00 .2	,,,,	1001.1
RUTBAH	01 .9	02 .7	02 .0	02 .1	01 .3	01 .0	01 .5	01 .6	1001.9
HABBANIYA	999.3	999.9	00 .6	00 .1	999.0	998.2	999.1	999.2	999.4
BAGHDAD	998.5	999.3	00 .1	00 .0	998.5	997.7	998.6	998.0	999.1
NUKHAIB	,,,,	,,,,	02 .0	01 .7	01 .9	00 .5	01 .5	,,,,	1001.5
HAI	997.2	997.7	998.5	998.2	997.4	996.9	997.7	997.7	997.2
NAJAF	999.1	00 .0	01 .1	00 .0	999.4	998.7	999.4	999.4	999.7
DIWANIYA	998.7	999.4	00 .1	00 .0	999.0	998.3	999.0	999.1	999.2
NASIRIYA	997.9	998.5	999.2	999.0	998.0	997.5	998.4	998.4	998.4
BASRAH	997.3	997.9	998.0	998.7	997.8	997.0	997.7	997.8	997.9

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	,,,,	0.4	0.4	1.2	1.1	1.3	0.6	,,,	0.2
MOSUL	0.4	0.6	0.6	0.7	1.3	0.9	0.6	0.4	0.7
SALAHADDIN	,,,	0.3	0.3	0.7	1.0	1.1	0.6	,,,	0.7
KIRKUK	0.2	0.3	0.1	0.3	0.6	0.3	0.1	0.2	0.3
ANAH	,,,	0.3	0.3	0.4	0.6	0.5	0.1	,,,	0.4
RUTBAH	0.2	0.4	0.1	0.1	0.3	0.2	0.1	0.1	0.2
HABBANIYA	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1
BAGHDAD	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.1
NUKHAIB	,,,	,,,	0.2	0.1	0.2	0.2	0.2	,,,	0.2
HAI	0.0	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.2
NAJAF	0.0	0.1	0.1	0.1	0.3	0.3	0.2	0.0	0.1
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	.0	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.1
BASRAH	0.0	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.3

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

SINJAR	,,,	0.4	0.3	1.1	1.2	1.3	0.4	,,,	0.2
MOSUL	0.4	0.5	0.5	0.7	1.1	0.7	0.3	0.4	0.6
SALAHADDIN	,,,	0.4	0.4	0.6	1.0	1.0	0.6	,,,	0.7
KIRKUK	0.2	0.3	0.1	0.3	0.6	0.3	0.1	0.2	0.3
ANAH	,,,	0.1	0.1	0.1	0.4	0.3	0.0	,,,	0.2
RUTBAH	0.2	0.2	0.0	0.1	0.3	0.2	0.1	0.1	0.1
HABBANIYA	0.1	0.0	0.0	0.1	0.3	0.2	0.1	0.0	0.1
BAGHDAD	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
NUKHAIB	,,,	,,,	0.2	0.0	0.1	0.2	0.2	,,,	0.1
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
DIWANIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BASRAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

JULY 1970. TABLE 10a. (6)

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

JULY 1970. TABLE 10b.

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

JULY 1970. TABLE 10c. (8)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	234	MEAN V.K.
NAJAF	0000	2	0	0	0	1	1	4	23	0	22	0	0	0	10
	0300	3	0	0	0	0	4	3	21	0	17	14	0	0	10
	0600	5	0	0	0	0	1	1	24	0	6	21	4	0	10
	0900	2	0	0	0	0	1	2	26	0	3	24	4	0	10
	1200	3	0	0	0	0	0	5	23	0	3	22	6	0	10
	1500	3	0	0	0	0	0	6	22	0	11	20	0	0	10
	1800	3	1	0	0	0	2	3	10	4	25	2	0	0	7
	2100	1	0	0	0	3	1	5	10	2	21	0	0	0	0
DIWANIYA	0000	5	0	0	0	0	1	16	6	3	24	4	0	0	7
	0300	1	0	0	0	1	0	17	12	0	27	4	0	0	0
	0600	5	0	0	0	0	0	12	13	1	13	16	1	0	11
	0900	5	0	0	0	0	0	14	12	0	11	19	1	0	13
	1200	5	0	0	0	0	1	12	13	0	9	18	4	0	14
	1500	6	0	0	0	0	1	9	15	0	17	14	0	0	10
	1800	6	0	0	0	0	0	12	10	3	24	4	0	0	6
	2100	4	0	0	0	0	1	11	10	5	24	2	0	0	6
NASIRIYA	0000	0	0	0	0	0	1	17	12	1	10	12	0	0	9
	0300	0	0	0	0	1	2	17	11	0	24	7	0	0	9
	0600	0	0	0	0	0	0	13	10	0	17	14	0	0	10
	0900	0	0	0	0	0	0	5	25	0	4	25	2	0	15
	1200	0	0	0	0	0	0	0	23	0	6	25	0	0	15
	1500	0	0	0	0	0	0	11	20	0	22	9	0	0	10
	1800	0	0	0	0	0	0	11	17	3	24	4	0	0	10
	2100	0	0	0	0	0	0	14	15	2	21	0	0	0	0
BASRAH	0000	3	0	0	0	0	1	9	19	0	27	4	0	0	0
	0300	1	0	0	0	0	0	10	12	0	29	2	0	0	7
	0600	3	0	0	0	0	0	7	21	0	19	12	0	0	10
	0900	5	0	0	0	0	0	1	25	0	11	20	0	0	12
	1200	3	0	0	0	0	0	0	28	0	14	17	0	0	12
	1500	4	0	0	0	0	0	2	25	0	22	9	0	0	8
	1800	2	1	0	0	0	0	7	21	0	17	14	0	0	9
	2100	4	0	0	0	1	0	9	17	0	23	0	0	0	9

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED. DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	18 knots	300	0300	20th
MOSUL	22	340	0300	20th
SALAHADDIN	20	230	1500	9th
KIRKUK	20	250	1200	13th
ANAH	28	270	0600	7 th
RUTBAH	26	320	0300	17th
HABBANIYA	20	290	0600	17th
BAGHDAD	20	310	0900	16th
NUKHAIB	22	310	1200	23rd
HAI	24	320	0000	21st
NAJAF	25	310	1200	16th
DIWANIYA	26	300	1200	17th
NASIRIYA	25	320	0900	16th
BASRAH	19	330	0600	17th

JULY 1970. TABLE 12a. (9)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

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

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	TR	26	1970
MOSUL	2.3	8th	1943
SALAHADDIN	tr	15th	1970
KIRKUK	0.3	11th	1947
ANAH	tr	25th	1970
RUTBAH	tr.	25th	1970
HABBANIYA	tr.	3rd	1954

JULY 1970. TABLE 12b. (10)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

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

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

JULY 1970. TABLE 13.

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			HAI	NAJAF		DIW-ANIYA	NASIRIYA			BASRAH
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	GRASS	0.3M	1.2M	GRASS
1	19.7	30.5	17.5	29.2	27.0	23.4	34.0	30.0	21.0	35.0	30.6	23.0	36.4	33.0	22.0	22.3	34.7	30.7	22.0
2	20.4	30.5	19.6	29.5	27.1	23.4	34.2	30.2	22.2	34.6	31.0	23.0	36.4	33.2	21.7	22.7	34.3	30.8	19.7
3	19.5	30.0	17.5	29.9	27.2	22.2	34.0	30.3	21.4	34.7	30.7	21.7	36.2	33.0	21.5	21.3	34.3	30.[illegible]	1[illegible].7
4	20.0	31.2	22.0	30.1	27.2	22.2	34.0	30.3	19.6	34.0	30.7	24.4	31.6	32.4	20.0	22.5	34.5	30.0	21.5
5	20.0	31.5	21.5	30.1	27.3	21.7	34.0	30.4	19.4	34.0	30.0	21.5	31.0	32.0	22.6	22.7	34.0	30.0	20.0
6	20.5	32.0	23.6	29.4	27.5	22.0	34.3	30.5	22.2	35.2	31.4	25.0	34.4	31.0	22.5	23.5	35.2	31.0	19.9
7	20.0	32.4	26.5	29.6	27.7	26.1	34.5	30.5	23.6	35.4	30.0	26.7	34.7	31.0	24.5	26.5	35.7	31.0	23.2
8	24.2	32.0	26.0	30.1	27.7	26.4	34.0	30.5	23.3	35.0	31.0	25.0	35.2	32.0	24.0	26.6	36.2	30.8	23.5
9	27.0	33.0	24.0	31.1	27.0	25.1	35.2	30.7	24.5	36.2	31.0	25.4	35.0	32.2	24.5	27.2	36.7	30.9	20.4
10	25.2	33.4	23.0	31.6	27.0	24.0	35.0	30.7	20.6	35.5	30.0	26.2	35.6	32.4	21.5	25.1	36.9	31.0	22.5
11	25.0	32.0	22.4	31.4	28.1	21.1	34.0	30.6	17.0	35.7	32.2	21.6	32.7	35.0	20.1	23.7	36.3	31.1	20.6
12	22.0	31.0	21.5	31.0	28.3	21.1	34.7	31.0	17.4	35.5	31.3	23.4	35.0	32.6	20.0	24.3	35.0	31.2	19.9
13	22.5	31.0	22.5	32.2	28.3	23.4	34.5	31.0	19.4	35.7	31.4	24.5	35.4	32.7	20.7	21.0	36.0	31.2	20.5
14	22.3	32.0	22.3	32.5	28.5	25.0	34.6	31.0	21.2	36.2	31.5	25.3	35.6	32.0	22.0	22.0	36.3	31.3	21.0
15	22.5	32.5	25.1	32.0	28.4	22.0	35.0	31.0	23.0	37.0	31.4	25.6	36.0	32.7	21.0	23.4	36.0	31.4	21.3
16	22.5	32.5	23.7	33.3	28.0	26.1	35.0	31.0	23.4	36.0	31.3	27.7	36.3	35.0	22.0	24.0	37.0	31.5	24.1
17	20.4	32.5	25.0	31.1	28.9	26.1	35.0	31.0	22.0	36.4	31.7	26.6	35.0	33.1	25.5	24.7	36.3	31.5	24.6
18	20.5	33.0	30.0	31.0	28.9	24.5	35.1	31.1	20.6	36.4	31.7	26.2	35.5	33.0	20.6	23.5	35.5	31.6	24.0
19	20.0	32.2	25.7	30.6	29.1	27.2	35.3	31.1	22.2	36.5	31.0	25.0	36.0	33.1	24.4	23.6	36.4	31.7	22.2
20	21.0	33.2	25.7	30.0	29.0	26.6	35.2	31.2	21.0	36.0	31.0	27.2	36.4	33.2	20.5	26.6	37.3	31.7	22.0
21	21.2	33.5	20.2	30.4	29.0	22.2	35.3	31.3	21.0	36.7	32.0	25.4	36.0	33.1	20.4	23.9	37.5	31.7	23.7
22	21.0	33.0	19.4	31.0	29.3	24.6	35.0	31.3	22.5	36.0	32.0	23.0	35.7	33.4	20.5	24.0	36.5	31.0	19.0
23	21.2	32.0	21.6	31.5	29.4	22.0	34.0	31.4	19.5	36.0	32.0	24.6	35.4	33.4	16.6	21.4	36.3	31.0	17.0
24	21.0	31.5	24.3	30.0	29.3	23.4	36.0	31.2	17.6	36.0	32.5	22.0	33.4	35.0	18.6	24.4	36.5	31.0	19.2
25	21.0	31.5	20.9	29.1	29.4	21.1	34.0	31.5	12.0	36.0	32.1	23.5	35.5	33.1	18.0	26.0	36.7	31.9	20.0
26	22.0	31.5	34.1	29.0	29.3	21.1	34.7	31.5	19.5	35.0	32.1	22.4	35.6	33.2	16.0	23.0	37.0	32.0	20.5
27	19.0	31.0	23.0	29.6	29.4	25.0	34.7	31.5	20.5	36.0	33.2	24.0	35.5	33.3	17.2	25.0	35.7	32.1	22.4
28	20.0	31.2	22.2	29.4	29.4	22.4	34.5	31.5	20.0	35.0	32.3	25.3	35.0	33.4	19.2	23.2	36.2	32.1	22.2
29	19.5	31.5	24.5	29.0	29.5	23.9	34.5	31.5	18.7	35.4	32.3	22.0	34.0	33.2	19.5	20.7	35.0	32.1	1[illegible].0
30	23.0	31.5	19.4	29.0	29.4	25.6	34.0	31.6	23.0	35.9	32.2	24.2	35.4	33.2	21.5	22.5	36.3	32.2	21.2
31	22.4	31.0	19.0	29.4	29.3	25.0	35.0	31.5	22.2	36.0	32.2	23.4	35.6	33.2	23.0	24.4	36.3	32.2	21.7
MEANS	21.6	32.0	22.0	30.4	28.5	23.0	34.7	31.0	20.7	35.0	31.6	24.4	35.2	33.1	21.2	23.0	36.1	31.4	21.3

JULY 1970. TABLE 14.

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	20	12	24	15	18	12	15	13	9
2	18	13	21	15	19	12	13	13	9
3	18	14	13	16	18	11	13	12	9
4	18	13	13	16	18	8	12	12	6
5	19	13	13	18	20	10	11	12	9
6	18	15	12	19	20	15	11	14	9
7	19	14	16	17	20	14	12	15	9
8	18	13	16	18	19	12	12	15	13
9	20	15	11	16	18	13	12	13	8
10	20	14	16	16	19	14	12	13	8
11	19	15	13	17	19	15	12	15	10
12	20	13	17	17	19	13	13	15	11
13	19	13	16	15	20	14	10	13	11
14	19	10	17	15	19	12	11	13	7
15	20	11	16	18	20	15	11	11	10
16	20	13	18	17	21	13	12	14	11
17	21	15	17	17	22	12	13	20	10
18	22	13	16	18	22	11	13	12	10
19	24	13	18	18	23	14	13	13	9
20	22	15	17	16	22	15	11	13	9
21	23	13	16	16	23	14	10	12	9
22	23	12	17	15	22	15	12	13	13
23	23	11	19	15	23	14	11	13	12
24	23	12	15	16	22	14	9	9	8
25	20	12	12	16	21	10	11	10	8
26	22	11	12	15	22	17	9	10	10
27	22	12	17	16	23	13	11	10	8
28	22	12	10	17	22	15	12	13	12
29	22	12	18	18	22	13	12	14	8
30	23	12	17	16	23	12	10	14	7
31	22	12	15	18	22	12	11	13	8
TOTAL	639	398	526	513	641	404	360	402	290
MEANS	206	12.8	17.0	16.5	20.7	13.0	11.6	13.0	9.4

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHIN E-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	1	0	0	0	1	0	0	0	22	0	-	-	-	-
MOSUL	0	0	0	0	0	0	17	0	3	0	0	26	0	395.5	13.7	31st	0
SALAHADDIN	0	0	0	1	0	0	0	0	0	0	0	26	0	-	-	-	-
KIRKUK	0	0	0	0	0	0	21	4	3	0	0	30	0	-	-	-	-
ANAH	0	0	0	0	0	0	0	2	5	0	0	29	0	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	0	0	0	0	28	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	0	11	6	0	0	31	0	411.3	14.0	21st	0
BAGHDAD	0	0	0	0	0	0	6	10	4	0	0	31	0	400.0	13.5	25th	0
NUKHAIB	0	0	0	0	0	0	0	4	1	0	0	30	0	-	-	-	-
HAI	0	0	0	0	0	0	0	12	4	0	0	31	0	-	-	-	-
NAJAF	0	0	0	0	0	0	0	5	2	0	0	31	0	-	-	-	-
DIWANIYA	0	0	0	0	0	0	0	15	4	0	0	31	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	1	20	28	1	0	24	0	-	-	-	-
BASRAH	0	0	0	0	0	0	0	8	18	1	0	30	0	357.9	12.9	5th	0

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

STATION	PRESSURE AT MSL - for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL-RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY, for 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1003.0	0300	27th	995.0	1500	5th	1007.2	0600	15th	1969	991.3	1500	8th	1964	43	0300	11th	7	1500	22nd
MOSUL	1003.9	0300	27th	995.0	1500	7th	1015.0	0600	23rd	1941	990.2	1300	22nd	1939	58	0300	12th	5	1200	31st
SALAHADDIN	1001.5	0600	26th	994.9	1500	5th	1005.6	0600	15th	1969	992.1	1200	26th	1967	35	0300	26th	11	1200	31st
KIRKUK	1003.2	0300	27th	994.4	1500	18th	1009.2	2100	4th	1957	990.3	1800	26th	1950	36	0000	14th	6	1200	29th
ANAH	1005.5	0600	20th	996.1	1500	10th	1009.3	0600	15th	1969	990.9	1500	10th	1968	60	0300	12th	7	1200	22nd
RUTBAH	1005.7	0300	27th	996.5	1500	5th	1013.0	0600	2nd	1969	991.0	1500	10th	1968	69	0300	20th	5	1500	27th
HABBANIYA	1004.1	0600	27th	995.1	1500	18th	1006.0	0600	15th	1969	992.0	1500	10th	1968	56	0000	14th	11	1200	18th
BAGHDAD	1004.2	0600	27th	993.3	1500	18th	1008.5	2100	4th	1957	990.0	0600	19th	1944	67	0300	11th	10	1200	29th
NUKHAIB	1005.1	0600	20th	998.2	1500	18th	1007.8	0600	15th	1965	993.7	1500	21st	1964	28	0600	1st	10	1200	7th
HAI	1001.6	0600	25th	992.8	1500	18th	1006.8	0900	4th	1957	990.0	1500	25th	1967	45	0300	15th	10	1200	27th
NAJAF	1004.5	0900	27th	994.6	1500	18th	1004.7	0900	2nd	1969	991.6	1500	26th	1967	42	0300	29th	5	1500	27th
DIWANIYA	1003.5	0900	27th	994.3	1500	18th	1008.1	2100	4th	1957	991.1	1500	26th	1954	62	0300	5th	10	1200	27th
NASIRIYA	1002.5	0600	27th	993.7	1500	18th	1006.7	0600	4th	1957	991.3	1500	26th	1967	47	0300	15th	7	1200	29th
BASRAH	1002.1	0900	25th	993.3	1500	8th	1006.0	0900	4th	1957	990.7	1500	3rd	1959	59	0300	25th	25	0900	5th

JULY 1970. TABLE 16a.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE (GPM)				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	31	-12	10	-38	-	-	-	-	-	-	-	-	-	-	-	-	-
850	31	1442	1477	1422	31	26.2	29.5	21.5	31	2.2	31	310	13	350	23	000	00
700	31	3106	3149	3076	31	12.2	16.0	6.4	31	-7.1	31	300	09	280	30	060	05
500	31	5848	5911	5813	31	-1.7	2.9	-5.3	31	-28.5	31	260	14	260	27	270	06
300	31	9733	9815	9627	31	-26.2	-22.9	-28.7	30	-50.0	30	260	22	230	49	260	05
200	31	12545	12654	12421	31	-46.4	-43.8	-49.5	27	-65.9	30	260	27	260	54	260	09
150	31	14401	14517	14314	31	-59.0	-56.0	-62.9	19	-75.5	29	260	21	270	55	260	10
100	31	16845	16989	16724	31	-73.6	-68.0	-77.9	-	-	26	260	13	270	52	240	08
70	31	18928	19089	18888	31	-71.7	-59.5	-79.5	-	-	24	140	02	180	28	240	04

N = Total number of observations.

STATION: BAGHDAD RADIOSONDE STATION. TIME 1200 GMT. UPPER AIR CLIMATOLOGICAL DATA.

PRESSURE SURFACE MB.	HEIGHT PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		W I N D						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	31	-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
850	31	1456	1498	1417	30	26.0	28.8	22.0	30	3.3	30	300	15	300	29	300	07
700	31	3123	3178	3078	31	12.9	16.8	9.5	31	-7.1	31	300	13	280	24	320	08
500	31	5871	5936	5821	31	-1.6	3.8	-7.2	31	-26.6	31	260	16	210	45	270	03
300	31	9761	9870	9659	31	-26.2	-23.0	-30.4	28	-49.3	31	260	26	280	50	240	12
200	31	12570	12724	12474	31	-46.4	-42.9	-50.1	26	-66.2	30	250	27	260	52	250	15
150	31	14425	14614	14299	31	-59.6	-54.2	-62.5	18	-75.6	29	240	24	230	65	220	07
100	31	[illegible]	16960	16728	31	-74.0	-67.7	-77.2	-	-	27	240	15	270	48	060	04
70	30	18955	19235	18833	29	-71.0	-66.4	-76.4	-	-	16	100	12	190	50	250	08

N = Total number of observations.

JULY 1970. TABLE 17

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

STATION: BAGHDAD RADIOSONDE STATION. TIME GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	34	5574	515	-24.8	6390	602	-6.8	4350	472	-37.0	34	17480	91	-76.5	18895	120	-69.0	15700	70	-81.1	12710	244	240	68
1200	34	5576	52[illegible]	-24.1	6400	620	-4.[illegible]	4720	463	-35.2	30	17702	95	-76.1	18650	120	-72.6	15680	75	-81.5	15440	126	280	75

N = Total number of observations.

الجمهوريـــة العراقيـــــــة

وزارة المواصـــــلات

مديرية الطيران المدني العامـــة

مديرية الانواء الجويـــة

مديرية المنـــاخ

بغداد

تقرير المنـــاخ الشهـــري

المجـــلد : ٣٣

العـــدد : ٨

الشهـــر : آب

السنـــة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT
CLIMATOLOGICAL DEPARTMENT

B A G H D A D

Volume : 33

No. : 8

Month : AUGUST

Year : 1 9 7 0

AUGUST 1970.

GENERAL SITIUATION : Normal summer climate.

MAIN FEATURE : The axis of the seasonal of low pressure from Basrah gulf penetrates through the Country, and deduct shellow low pressure cells over northern regions and Syria. Series of low pressure trough lies from the western disturbances crossed the country during ,3rd,5th,6th,and 13th, during that the axis of the seasonal trough was out of the country eastwords. Shellow depressions from Saudi Arabia crossed the country during 28th and 29th .

PRESSURE : Mean pressure was arround normal, the highest pressure reading was 1009.0 mb at Rutba, and is 5.4 mbs above normal, the lowest pressure reading was 992.3 mb at Mosul and is 8.6 mb below normal .

TEMPRETURE : Mean temperature was slightly below normal except Mosul was above normal. The highest maximum temp. was 47.4 °C at Baghdad, it is 13°C above normal, the lowest minimum temperature was 16.5 °C at Rutba ,it is 13.7 °C below normal.

RELATIVE HUMIDITY : The relative humidity was slightly below normal .

SURFACE WIND : Prevaling surface wind was northwesterly direction, and light to fresh speed, while it was southerly direction in mountain regions.

PRECIPITATIONS : Rainless month.

OTHER PHENOMENAE : Rising dust was widespread in the southern half of the Country, and rare elsewhere .

No other phenomenae reported .

AUGUST 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	40.2	24.0	44.6	21.0	36.4	24.7	45.0	25.6	41.9	25.2
2	39.2	24.3	44.0	26.5	37.1	25.0	43.6	26.6	41.1	25.3
3	38.4	22.0	42.0	22.4	35.4	24.3	41.5	27.5	42.3	26.7
4	39.2	24.4	42.5	24.2	35.2	24.2	42.3	28.1	42.0	22.8
5	37.0	23.4	42.7	25.3	35.0	24.3	41.6	30.0	40.3	2[illegible].3
6	36.4	21.2	41.3	27.6	34.1	22.0	40.4	27.0	39.4	24.0
7	37.5	23.3	40.7	23.2	35.0	22.4	41.4	26.7	41.1	26.4
8	38.6	26.0	42.6	26.2	35.4	24.4	42.9	25.0	41.6	25.5
9	39.6	25.1	43.7	27.0	36.4	24.4	44.0	27.0	41.4	25.6
10	41.2	26.0	45.4	27.0	38.4	25.3	45.4	26.7	43.3	26.0
11	44.6	26.0	46.5	27.5	38.4	26.1	47.0	29.1	44.0	27.0
12	41.9	26.[illegible]	46.0	28.4	38.2	26.3	47.1	30.6	46.5	27.0
13	42.0	2[illegible].1	46.7	28.2	38.1	27.1	46.5	28.0	44.3	27.4
14	38.7	25.2	44.0	27.0	36.1	25.3	43.4	29.7	40.7	25.5
15	38.2	21.2	40.0	23.3	34.7	23.3	41.0	26.4	39.5	25.2
16	37.6	22.2	41.4	22.0	34.0	22.3	41.0	26.1	39.9	25.6
17	38.6	22.1	41.9	22.0	35.0	23.2	41.1	27.0	41.0	21.3
18	37.2	22.3	41.3	21.1	34.3	22.3	41.6	25.3	40.1	19.5
19	35.7	22.2	41.4	21.6	35.0	22.4	41.5	24.2	40.1	22.0
20	37.8	22.0	42.7	22.6	36.2	23.2	42.6	24.1	40.6	21.3
21	40.2	23.4	43.6	19.4	36.3	24.7	43.5	25.5	43.0	23.2
22	38.6	24.2	43.6	22.0	37.1	23.1	44.0	25.5	41.4	24.0
23	38.6	22.0	42.7	22.4	35.1	23.3	41.1	25.7	42.0	24.9
24	38.0	20.1	42.0	20.4	35.2	23.0	42.0	25.3	41.4	24.2
25	38.2	23.2	41.0	19.4	35.0	23.2	42.2	25.2	41.4	21.6
26	37.5	23.1	42.1	19.0	34.7	23.7	41.4	24.7	40.4	23.2
27	33.0	19.6	39.1	24.2	33.4	23.2	39.6	24.6	36.0	23.0
28	34.6	20.2	38.7	22.2	32.3	20.3	39.0	23.0	39.7	1[illegible].2
29	38.2	21.2	44.0	21.2	36.4	23.0	44.6	28.1	40.3	21.0
30	33.6	19.0	39.0	23.5	32.4	22.0	38.5	23.4	36.0	20.5
31	33.9	17.6	38.5	19.4	32.4	20.0	38.5	22.4	35.6	20.5
MEANS	38.1	23.0	42.5	23.5	35.5	23.6	42.5	26.3	41.0	24.0
NORMAL	....	....	43.4	21.1	....	....	42.3	26.2	....	....
HIGHEST	45.2	34.0	49.0	32.2	40.0	28.0	48.2	35.5	46.5	27.4
DAY	17th	22nd	6th	25th	20th	12th	20th	14th	12th	13th
YEAR	1965	1965	1957	1958	1969	1969	1969	1951	1970	1970
LOWEST	31.6	17.6	33.3	12.0	29.7	19.0	34.0	19.4	35.6	16.2
DAY	31st	31st	10th	26th	3rd	3rd	25th	26th	31st	31st
YEAR	1965	1970	1960	1952	1960	1960	1960	1941	1970	1958

AUGUST 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		NUKHAIB		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	38.2	22.2	42.6	24.6	43.5	22.2	42.5	22.4	42.5	27.5
2	37.3	21.1	42.3	24.5	43.3	22.6	41.3	22.0	42.6	25.0
3	37.0	22.6	42.0	25.5	42.7	20.6	41.0	24.6	44.0	26.2
4	37.0	22.3	42.3	25.6	43.0	21.5	40.6	25.1	43.4	26.0
5	35.0	22.0	42.5	26.0	42.6	22.0	39.6	25.0	44.3	25.6
6	35.0	21.1	40.3	25.0	41.0	26.0	38.4	23.7	42.0	27.0
7	35.6	21.3	41.0	26.3	41.0	26.0	39.5	24.4	40.7	25.4
8	36.0	21.0	41.0	27.0	41.7	25.4	39.3	24.4	41.4	26.6
9	36.0	21.0	42.4	25.6	42.9	23.0	40.5	24.5	43.2	24.4
10	37.6	21.9	44.0	25.7	44.2	23.7	41.2	23.7	43.6	25.1
11	39.0	21.0	45.7	27.	46.6	26.5	43.1	23.5	45.4	26.0
12	41.4	25.3	45.0	27.3	47.4	25.0	44.3	25.5	46.0	27.4
13	40.3	23.0	41.6	26.5	45.6	23.6	43.6	26.3	46.2	25.0
14	40.0	22.6	43.6	27.5	44.2	24.4	43.7	24.0	44.0	27.0
15	36.2	21.0	41.0	24.6	41.4	22.0	39.9	23.5	42.0	23.4
16	36.0	21.1	41.6	25.4	41.2	23.0	39.7	23.6	41.5	25.1
17	37.5	19.7	41.0	22.0	41.4	20.1	40.0	21.5	41.5	25.2
18	36.0	19.6	41.0	22.5	42.7	19.7	40.7	20.6	42.2	23.5
19	38.5	19.5	40.2	24.0	42.0	19.6	40.3	21.5	42.3	27.0
20	38.3	19.4	41.3	23.0	42.1	20.0	41.0	21.7	41.6	26.5
21	38.2	19.5	42.5	22.3	42.6	20.5	41.5	22.1	42.0	23.0
22	38.0	19.4	42.7	24.5	43.7	21.7	42.3	23.4	44.2	24.2
23	38.0	21.2	42.5	25.0	42.0	20.2	40.6	23.7	41.6	24.0
24	37.6	21.3	41.5	25.0	42.3	22.5	41.0	23.3	42.0	24.6
25	38.6	19.4	41.7	23.3	42.4	19.0	41.5	20.4	43.0	24.5
26	36.5	19.5	42.0	23.5	42.7	20.0	42.5	21.5	41.5	24.5
27	34.0	19.3	39.0	22.3	38.7	19.5	39.1	22.9	43.6	23.4
28	37.5	17.0	41.3	21.0	41.5	19.7	41.5	20.7	43.0	26.3
29	34.5	17.0	42.0	25.4	43.2	21.5	39.9	23.0	45.0	26.0
30	32.5	17.3	37.5	24.0	37.0	26.5	38.5	21.3	39.0	25.4
31	32.6	16.5	36.0	22.0	37.6	19.5	35.6	19.3	37.7	23.3
MEANS	37.1	20.5	41.0	24.0	42.5	22.2	40.7	23.1	42.0	25.5
NORMAL	38.9	21.1	43.7	24.0	43.5	24.7	....	....	43.9	25.9
HIGHEST	45.6	32.0	50.0	32.0	50.2	32.0	47.6	31.2	48.9	32.0
DAY	10th	19th	1&8	5th	5th	1st	16th	22nd	26th	6th
YEAR	1930	1965	1938	1952	1957	1957	1965	1965	1943	1952
LOWEST	32.2	15.0	35.6	19.4	35.5	17.0	37.3	19.3	36.4	18.9
DAY	10th	25th	25th	29th	27th	27th	17th	31st	25th	30th
YEAR	1928	1949	1960	1941	1941	1937	1968	1970	1960	1941

AUGUST 1970. TABLE 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	44.6	25.4	42.6	22.6	42.5	24.7	41.0	27.0
2	43.0	25.2	41.2	23.6	42.0	25.5	41.2	25.7
3	43.6	25.5	43.6	23.4	45.6	25.0	42.5	23.9
4	43.6	27.0	42.0	22.6	44.2	26.5	41.0	26.6
5	42.0	27.0	41.4	24.0	43.5	27.2	43.2	27.3
6	45.7	27.2	41.0	25.0	42.0	26.6	41.1	26.5
7	41.0	26.4	40.3	23.3	41.0	24.7	40.4	24.0
8	41.0	25.2	40.3	24.0	41.0	26.9	41.1	26.2
9	43.2	26.0	42.2	23.6	43.4	25.7	41.7	24.7
10	43.2	27.2	42.2	24.0	43.2	25.7	41.7	26.0
11	45.7	29.0	43.6	24.2	45.0	25.9	42.7	26.4
12	47.2	28.2	44.7	25.4	46.0	26.0	42.5	27.5
13	45.0	30.0	44.7	25.4	46.0	27.0	45.0	27.4
14	44.0	27.7	43.5	25.0	45.0	25.0	43.5	27.1
15	41.4	27.5	41.0	24.0	43.0	25.2	42.7	25.7
16	42.0	27.0	40.5	24.5	41.7	25.2	40.2	24.7
17	42.0	26.0	39.6	24.0	42.2	23.6	41.1	24.9
18	43.4	25.3	43.1	23.0	43.0	24.5	40.0	23.1
19	43.0	26.2	42.2	24.2	42.0	23.5	41.0	23.0
20	42.0	25.6	41.0	23.6	42.5	23.7	40.6	25.0
21	43.4	24.0	42.1	21.0	42.6	23.5	41.5	24.3
22	44.4	25.4	43.0	21.6	44.5	24.5	42.0	22.4
23	43.0	26.3	41.4	23.0	43.0	25.0	43.4	24.0
24	42.2	25.4	42.1	21.0	42.0	24.5	42.5	24.2
25	42.6	27.2	41.9	23.0	43.0	25.2	42.1	24.2
26	42.0	24.0	40.4	21.6	42.2	24.5	41.0	24.1
27	39.0	22.4	41.3	19.4	43.4	24.0	41.4	24.0
28	43.0	23.0	43.0	23.1	44.7	26.7	42.7	25.0
29	43.4	23.0	43.4	22.0	46.2	25.6	43.5	24.3
30	37.4	25.5	37.9	24.7	39.5	27.3	39.5	23.0
31	37.1	23.0	37.2	22.0	38.1	22.3	37.5	24.3
MEANS	42.0	26.4	41.0	23.5	43.2	25.3	41.0	25.3
NORMAL	....	....	42.7	22.9	44.1	24.7	41.2	26.1
HIGHEST	51.2	33.0	48.3	30.0	49.4	31.3	48.9	32.2
DAY	20th	22nd	26th	4th	15th	15th	9th	7th
YEAR	1965	1965	1943	1963	1951	1965	1938	1954
LOWEST	34.5	22.2	35.5	16.1	36.6	16.1	34.6	20.0
DAY	14th	6th	27th	29th	25th	24th	26th	20th
YEAR	1964	1964	1941	1941	1960	1946	1959	1941

AUGUST 1970. TABLE 2. (4)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	29.0	32.5	35.3	37.1	36.[illegible]	33.3	...	34.0
MOSUL	26.7	24.3	31.7	39.5	42.0	39.[illegible]	33.[illegible]	29.5	33.4
SALAHADDIN	...	27.4	30.5	33.3	34.7	33.3	2[illegible].2	...	31.2
KIRKUK	26.[illegible]	27.4	35.1	40.1	41.[illegible]	39.9	33.[illegible]	30.[illegible]	34.7
ANAH	...	24.9	29.2	36.9	40.3	39.[illegible]	32.9	...	34.0
RUTBAH	23.4	21.5	27.2	34.2	36.4	35.[illegible]	30.4	2[illegible].2	29.4
HABBANIYA	26.3	23.2	31.9	39.[illegible]	41.3	39.9	33.1	29.6	33.3
BAGHDAD	24.4	23.2	32.9	39.7	42.0	40.1	3[illegible].3	27.[illegible]	32.5
NUKHAIB	...	...	31.3	37.[illegible]	39.9	39.2	32.0	...	36.0
HAI	27.2	2[illegible].2	34.[illegible]	41.4	42.4	39.2	32.9	30.0	34.2
NAJAF	2[illegible].0	2[illegible].7	34.4	40.4	42.4	40.9	34.3	31.4	34.9
DIWANIYA	25.7	24.1	33.0	39.5	41.4	39.2	31.[illegible]	27.[illegible]	32.[illegible]
NASIRIYA	27.[illegible]	26.[illegible]	34.2	41.5	43.0	40.4	33.5	30.4	34.6
BASRAH	27.9	25.[illegible]	33.2	39.0	41.1	37.9	32.5	29.9	33.4

TABLE 3 WET-BULB TEMPERATURES (°C)

SINJAR	...	17.4	19.1	19.7	20.1	20.[illegible]	1[illegible].5	...	19.1
MOSUL	16.7	15.8	1[illegible].7	21.9	21.7	21.3	19.3	17.8	19.2
SALAHADDIN	...	1[illegible].2	17.[illegible]	1[illegible].[illegible]	1[illegible].9	1[illegible].3	1[illegible].1	...	17.7
KIRKUK	16.7	1[illegible].2	19.6	20.[illegible]	21.1	20.3	1[illegible].7	17.6	18.9
ANAH	...	17.7	19.7	22.3	22.7	22.2	19.[illegible]	...	20.7
RUTBAH	15.6	15.0	17.4	19.2	19.3	19.0	17.2	15.9	17.3
HABBANIYA	18.1	17.6	21.[illegible]	23.4	24.1	23.9	21.[illegible]	19.9	21.3
BAGHDAD	16.5	16.0	21.0	22.3	22.0	21.[illegible]	19.[illegible]	17.5	19.5
NUKHAIB	...	...	16.9	18.[illegible]	19.3	19.4	16.8	...	18.2
HAI	17.3	16.[illegible]	20.[illegible]	22.4	22.3	22.0	19.6	18.2	19.9
NAJAF	16.9	15.9	20.2	21.3	21.3	21.0	20.0	19.3	19.4
DIWANIYA	17.3	16.6	20.[illegible]	22.3	22.4	21.9	20.1	1[illegible].5	20.0
NASIRIYA	18.6	17.2	21.[illegible]	24.7	24.6	24.2	21.5	20.1	21.0
BASRAH	21.0	19.1	23.2	25.4	25.6	25.4	24.0	22.6	23.3

TABLE 4 VAPOUR PRESSURE (MBS.)

SINJAR	...	10.7	11.5	10.6	10.0	9.9	9.5	...	10.4
MOSUL	11.0	11.2	11.3	12.1	9.9	10.5	11.[illegible]	11.0	11.0
SALAHADDIN	...	9.5	10.3	10.2	9.3	8.1	9.[illegible]	...	9.5
KIRKUK	9.5	9.6	10.6	9.4	8.5	8.4	9.[illegible]	9.8	9.4
ANAH	...	14.6	15.5	15.3	13.6	12.9	12.7	...	14.1
RUTBAH	11.5	11.[illegible]	12.3	10.3	9.7	9.7	9.2	9.9	10.3
HABBANIYA	14.2	14.2	16.1	16.7	16.7	17.7	17.1	15.6	16.3
BAGHDAD	12.6	12.6	15.5	13.2	10.6	11.6	12.0	12.0	12.6
NUKHAIB	...	...	7.0	6.6	6.0	6.7	7.0	...	6.8
HAI	11.8	11.6	14.3	12.3	11.1	12.7	12.2	11.5	12.2
NAJAF	9.9	9.5	12.4	10.1	8.8	9.0	11.9	10.6	10.3
DIWANIYA	13.0	13.0	14.7	13.2	11.9	12.5	14.3	13.8	13.3
NASIRIYA	14.2	12.7	16.4	16.0	16.7	17.5	16.1	15.4	15.9
BASRAH	19.4	16.9	20.5	21.7	20.5	22.4	23.2	21.7	20.8

TABLE 5 DEW-POINT (°C)

SINJAR	...	7.3	8.5	7.3	6.5	6.3	6.0	...	7.0
MOSUL	8.1	8.5	8.5	9.4	6.6	7.4	7.9	8.2	8.1
SALAHADDIN	...	6.0	7.3	7.1	5.0	5.4	5.0	...	6.1
KIRKUK	6.0	6.0	7.4	5.6	4.2	4.0	6.4	6.1	5.7
ANAH	...	12.4	13.4	13.1	11.1	10.[illegible]	10.1	...	11.8
RUTBAH	8.7	9.1	9.8	7.0	4.2	4.3	5.2	6.4	6.8
HABBANIYA	12.0	12.0	15.6	14.2	14.2	15.0	14.7	13.3	13.9
BAGHDAD	10.1	10.1	13.1	10.1	7.2	8.3	10.5	9.4	9.8
NUKHAIB	...	...	3.3	0.9	-0.3	1.0	1.9	...	1.4
HAI	9.4	9.1	12.2	9.9	8.4	10.3	9.8	8.9	9.8
NAJAF	6.5	5.9	9.6	6.6	4.2	4.8	9.0	8.1	5.8
DIWANIYA	10.7	10.5	12.6	10.8	9.1	10.0	12.1	11.7	11.0
NASIRIYA	12.2	10.2	13.9	14.8	13.4	14.6	13.7	13.1	13.2
BASRAH	16.9	14.5	17.7	18.6	17.6	19.2	19.6	17.7	17.9

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	....	28	24	19	16	16	19	...	20
MOSUL	32	37	24	17	12	14	22	27	23
SALAHADDIN	...	25	24	20	17	18	23	...	21
KIRKUK	24	26	19	13	11	11	19	22	18
ANAH	..	46	38	25	18	18	26	..	29
RUTBAH	40	46	34	19	14	15	22	29	27
HABBANIYA	41	45	39	24	21	25	34	38	33
BAGHDAD	41	44	31	18	13	15	29	33	28
NUKHAIB	..	..	17	10	8	10	15	..	12
HAI	33	34	27	16	13	18	25	27	24
NAJAF	25	27	23	13	11	12	22	23	20
DIWANIYA	39	43	30	19	15	18	31	37	29
NASIRIYA	39	39	31	23	19	23	31	36	30
BASRAH	52	51	41	31	26	34	48	51	42

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

SINJAR	....	999.9	999.6	999.5	998.0	997.8	998.7	....	998.9
MOSUL	999.8	00 .5	00 .7	999.5	997.4	996.9	998.4	999.4	999.1
SALAHADDIN	....	999.5	998.8	997.9	996.7	996.8	999.3	....	998.2
KIRKUK	00. 1	00 .5	999.8	998.8	997.5	997.3	998.2	999.9	999.1
ANAH	....	01 .5	02 .4	01 .4	999.8	999.2	00 .3	....	1000.8
RUTBAH	02 .4	02 .6	02 .9	02 .1	01 .3	01 .0	01 .7	01 .7	1001.9
HABBANIYA	999.8	00 .1	00 .8	00. 2	999.1	998.5	999.5	999.2	999.7
BAGHDAD	999.1	999.6	00 .5	00 .1	998.8	998.2	999.2	999.3	999.4
NUKHAIB	....	....	03 .1	01 .7	00 .9	00 .2	01 .6	....	1001.5
HAI	998.0	998.4	999.3	998.9	998.0	997.2	998.5	998.3	998.4
NAJAF	999.6	00 .4	01 .5	01 .0	999.6	999.0	999.8	999.8	1000.1
DIWANIYA	999.3	999.8	00 .6	00 .5	999.3	998.8	999.5	999.5	999.7
NASIRIYA	998.6	999.1	00 .0	999.6	998.4	998.1	999.1	998.9	999.0
BASRAH	998.1	998.6	999.8	999.4	998.3	997.7	998.6	998.7	998.7

TABLE 8. TOTAL AMOUNT CLOUD (OKTAS)

SINJAR	..	0.4	0.4	0.5	0.7	0.5	0.3	...	0.5
MOSUL	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
SALAHADDIN	....	0.0	0.0	0.3	0.5	0.3	0.1	...	0.2
KIRKUK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANAH	...	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0
RUTBAH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HABBANIYA	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1
BAGHDAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NUKHAIB	...	...	0.0	0.0	0.0	0.0	0.0	...	0.0
HAI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIWANIYA	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	2.0	0.1	0.1	0.1	0.0	0.0	0.0	0.3
BASRAH	0.0	0.4	0.3	0.1	0.0	0.1	0.0	0.0	0.1

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

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

AUGUST 1970. TABLE 10a.

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

AUGUST 1970. TABLE 10b. (7) SURFACE WIND NUMBER OF OBS. OF:

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

AUGUST 1970 . TABLE 10c. (8)

SURFACE WIND-NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	18 knots.	350	0300	30th
MOSUL	15	160	0900	29th
SALAHADDIN	18	180	1500	3 rd
KIRKUK	13	290	0900	30th
ANAH	26	260	0600	7 th
RUTBAH	22	320	0300	12th
HABBANIYA	22	300	1200	30th
BAGHDAD	20	290	1200	30th
NUKHAIB	24	330	0900	10th
HAI	23	340	0900	31st
NAJAF	25	330	0900	1 st
DIWANIYA	18	330	0900	31st
NASIRIYA	23	290	1200	31st
BASRAH	20	340	1200	31st

AUGUST 1970. TABLE 12a. (9)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

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

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

AUGUST 1970. TABLE 12b. (10)

D ILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	NUKHAIB	HAI	NAJAF	DI ANIYA	NASIRIYA	BASRAH
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
TOTAL	0.0	0.0	0.	0.0	0.0	0.0	.0
NORMAL	0.0	0.0	0.0	0.0	0.0	0.0	.0

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

AUGUST 1970. TABLE 13.

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			HAI	NAJAF		DIWA.	NASIRIYA			BASRAH
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	GRASS	0.3M	1.2M	GRASS
1	23.5	32.0	19.3	29.6	29.4	22.7	34.5	31.5	19.0	35.8	32.3	26.0	35.2	33.4	19.0	23.5	36.3	32.3	19.6
2	24.3	33.0	19.9	29.4	29.4	22.0	34.8	31.5	19.6	35.7	32.3	23.4	35.3	33.2	19.6	23.5	36.0	32.2	19.4
3	20.2	32.0	23.5	30.6	29.4	22.0	34.7	31.5	15.9	35.6	32.4	23.0	33.2	35.4	19.4	19.0	36.2	32.2	16.2
4	22.1	32.5	23.2	29.3	29.4	22.3	34.6	31.6	19.5	36.0	32.4	20.7	35.5	33.4	16.9	19.5	36.0	32.2	19.5
5	22.0	32.0	26.7	28.9	29.4	22.5	34.8	31.6	19.3	36.0	32.4	21.2	35.4	33.4	19.0	19.7	37.2	32.3	19.0
6	23.0	33.0	22.6	29.3	29.4	22.8	35.0	31.5	20.0	36.2	32.3	24.0	35.7	33.4	22.3	23.5	37.1	32.3	22.6
7	21.5	31.5	20.6	29.5	29.4	22.4	35.2	31.6	22.0	36.2	32.4	23.0	35.4	33.4	19.0	20.4	36.0	32.3	19.6
8	22.5	32.0	19.6	30.0	29.5	24.2	35.3	31.8	21.6	36.2	32.4	25.4	35.4	33.4	21.0	23.7	36.7	32.4	20.1
9	23.0	32.0	25.7	29.4	29.4	23.9	35.3	31.8	19.2	36.0	32.4	23.8	35.2	33.4	19.5	22.6	36.1	32.4	21.0
10	23.5	33.4	20.0	29.3	29.4	22.0	35.4	31.8	19.0	36.0	32.5	24.0	34.7	33.4	20.5	22.4	36.3	32.5	19.9
11	25.5	33.5	22.0	29.8	29.5	22.0	35.5	31.8	22.5	36.0	32.4	24.4	34.2	33.4	20.0	22.6	36.5	32.5	21.7
12	25.0	33.0	23.0	30.5	29.5	25.6	35.8	31.8	19.7	36.2	32.6	25.2	34.8	33.2	21.5	23.6	37.0	32.5	22.2
13	25.8	33.5	22.5	31.1	29.7	26.7	36.2	32.0	19.2	36.6	32.5	20.9	35.8	33.4	22.0	22.5	37.3	32.5	19.6
14	25.0	33.5	24.5	31.3	29.8	23.4	36.1	32.0	19.2	36.0	32.7	27.0	35.0	33.4	20.6	23.0	37.3	32.5	19.5
15	20.6	33.0	20.5	31.1	30.0	22.0	35.8	32.0	17.2	36.2	32.5	22.0	35.4	33.4	18.4	19.7	37.0	32.6	19.7
16	21.0	31.5	17.5	31.1	30.0	22.2	35.5	32.0	17.7	36.0	32.7	24.0	35.2	33.4	19.0	22.0	36.9	32.7	19.4
17	19.0	31.5	18.2	31.4	30.1	20.0	35.5	32.0	15.0	35.6	32.6	23.0	35.2	33.5	19.5	19.0	36.7	32.5	17.3
18	20.0	31.5	17.9	31.3	30.0	20.0	35.0	32.2	15.5	35.4	32.0	23.0	35.0	33.4	15.2	21.6	36.5	32.5	16.7
19	19.0	31.0	17.0	31.5	30.0	21.0	35.0	32.0	16.5	35.5	32.0	24.6	35.0	33.4	20.3	18.5	36.5	32.7	16.6
20	20.2	31.3	18.6	29.4	30.1	20.2	35.0	32.0	16.5	35.4	32.0	24.0	35.0	33.4	20.7	19.4	36.1	32.7	19.5
21	18.5	30.0	19.0	29.5	30.1	20.0	34.8	32.2	16.0	35.0	32.7	21.5	34.5	33.4	17.0	19.5	35.6	32.8	17.9
22	18.5	30.0	21.1	30.0	30.1	21.3	35.0	32.2	17.6	35.3	32.7	21.0	34.0	33.4	16.9	21.7	35.0	32.0	16.9
23	20.0	30.2	19.7	30.5	30.1	22.7	35.0	32.0	14.0	35.3	32.7	22.3	35.0	33.4	19.2	20.6	36.1	32.0	19.9
24	19.0	30.5	20.3	29.7	30.2	23.2	34.8	32.2	17.9	35.4	32.3	23.0	34.8	33.4	17.2	18.1	36.2	32.7	18.3
25	18.5	30.0	19.5	29.9	30.2	21.1	34.8	32.2	15.8	35.1	32.7	21.9	34.5	33.4	19.4	21.5	36.3	32.0	19.4
26	18.2	29.5	19.6	29.4	30.1	21.1	34.8	32.0	16.2	34.8	32.2	22.0	34.4	33.4	21.0	21.7	35.9	32.8	18.7
27	18.5	29.6	20.6	28.9	30.0	20.6	34.6	32.2	15.3	34.8	32.0	22.4	34.1	33.2	14.6	16.9	35.8	32.0	16.4
28	18.8	29.0	19.9	29.0	30.0	20.2	34.5	32.2	15.7	34.6	32.7	23.1	34.3	33.4	18.2	21.6	35.0	32.0	19.2
29	18.0	29.2	23.1	29.4	30.0	22.7	34.5	32.2	16.1	34.9	32.7	22.3	33.0	34.2	17.4	20.3	36.4	32.0	18.0
30	18.0	29.2	17.6	29.9	30.0	23.4	34.6	32.0	16.2	35.4	32.0	25.0	34.4	33.2	22.0	22.5	36.5	32.0	17.0
31	18.2	29.5	16.6	27.0	30.0	20.1	34.2	32.0	16.2	34.4	32.7	22.1	33.4	33.2	19.0	19.0	35.5	32.0	20.5
MEANS	21.1	31.4	20.4	29.8	29.0	22.2	35.1	31.9	18.0	35.6	32.7	23.3	34.0	32.5	19.2	21.1	36.4	32.6	18.9

AUGUST 1970. TABLE 14.

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

DAYS	MO-SUL	KIR-KUK	ANAH	RUT-BAH	BAGH-DAD	NUK-HAIB	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	22	13	17	18	27	21	18	10	9	9
2	18	12	18	17	22	20	15	11	10	10
3	21	12	15	19	25	19	14	11	10	8
4	21	13	15	19	23	20	14	10	10	10
5	22	12	16	16	15	19	15	10	11	8
6	23	12	18	15	15	19	13	9	12	9
7	22	11	18	16	15	19	12	8	13	9
8	23	12	16	17	18	20	13	10	12	10
9	22	12	16	18	23	20	12	12	12	7
10	20	13	17	20	24	21	13	11	13	9
11	23	12	18	20	27	22	15	11	11	9
12	24	11	18	21	24	23	11	8	12	8
13	24	13	18	21	28	22	15	10	13	9
14	20	12	18	20	23	22	16	10	15	10
15	23	12	17	18	18	20	15	10	12	8
16	23	11	19	18	15	19	13	10	9	7
17	22	11	14	19	15	20	12	11	9	10
18	18	12	12	17	15	20	12	11	11	6
19	23	13	12	19	20	21	11	9	12	10
20	23	12	14	19	15	22	14	10	11	10
21	22	12	15	19	12	22	13	12	11	8
22	23	13	14	18	16	23	15	10	14	9
23	22	11	14	18	12	22	14	10	10	9
24	23	11	14	18	15	21	14	9	12	9
25	22	11	14	20	15	21	15	9	12	8
26	20	11	12	18	13	21	12	10	12	9
27	21	11	14	18	12	19	13	9	10	8
28	20	11	12	19	10	20	13	11	10	6
29	21	10	11	17	14	20	13	12	11	9
30	20	10	16	16	16	19	12	12	10	12
31	20	10	18	16	17	18	10	11	12	10
TOTAL	671	362	480	564	560	635	417	317	351	273
MEANS	21.7	11.7	15.5	18.2	18.1	20.5	13.5	10.2	11.3	8.8

CLIMATOLOGICAL SUMMARY

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

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	MONTH TOTAL	DURATION OF SUNSHINE MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	2	3	0	0	0	28	0	-	----	-	-
MOSUL	0	0	0	0	0	0	19	0	0	0	0	30	0	389.1	13.5	1st	0
SALAHADDIN	0	0	0	0	0	0	0	1	1	0	0	31	0	-	---	-	-
KIRKUK	0	0	0	0	0	0	18	0	3	0	0	31	0	-	---	-	-
ANAH	0	0	0	0	0	0	0	11	5	0	0	31	0	-	---	-	-
RUTBAH	0	0	0	0	0	0	0	5	0	0	0	31	0	-	---	-	-
HABBANIYA	0	0	0	0	0	0	0	12	3	0	0	31	0	392.1	13.5	1st	0
BAGHDAD	0	0	0	0	0	0	11	8	7	0	0	31	0	378.5	13.1	1st	0
NUKHAIB	0	0	0	0	0	0	0	6	0	0	0	31	0	-	---	-	-
HAI	0	0	0	0	0	0	0	8	2	0	0	31	0	-	---	-	-
NAJAF	0	0	0	0	0	0	0	1	0	0	0	31	0	-	---	-	-
DIWANIYA	0	0	0	0	0	0	0	9	4	0	0	31	0	-	---	-	-
NASIRIYA	0	0	0	0	0	0	0	13	20	0	0	31	0	-	---	-	-
BASRAH	0	0	0	0	0	0	0	3	4	0	0	31	0	363.4	12.7	3rd	0

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

STATION	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY 1970 % HIGH EST.	TIME GMT.	DAY	LOW EST.	TIME GMT.	DAY
SINJAR	1004.8	0300	31st	994.7	1500	12th	1011.8	0600	31st	1969	989.2	1500	16th	1961	67	0300	15th	9	1200	24th
MOSUL	1005.8	0600	30th	993.7	1800	2nd	1012.7	0300	31st	1969	990.9	1500	17th	1964	54	0300	25th	8	1200	25th
SALAHADDIN	1002.9	0300	30th	994.3	1500	16th	1011.8	0300	31st	1969	993.3	1200	19th	1967	35	0300	6th	11	1500	13th
KIRKUK	1006.3	0000	31st	993.8	1500	12th	1011.3	0300	31st	1969	990.1	1500	13th	1952	38	0300	30th	6	1500	31st
ANAH	1008.1	0600	30th	996.0	1500	12th	1011.7	0600	31st	1969	996.0	1500	12th	1970	57	0300	31st	9	1500	14th
RUTBAH	1009.0	0600	30th	998.0	1500	3rd	1013.7	0300	31st	1953	992.0	0000	2nd	1961	65	0300	29th	7	1200	26th
HABBANIYA	1006.8	0600	30th	995.2	1500	12th	1009.5	1200	31st	1965	994.1	1500	17th	1964	62	0300	4th	12	1200	26th
BAGHDAD	1006.5	0600	30th	993.9	1500	12th	1009.5	0600	30th	1968	992.7	1500	3rd	1954	60	0300	1st	6	1200	22nd
NUKHAIB	1007.0	0600	30th	997.5	1500	12th	1009.7	0600	31st	1965	995.4	1500	17th	1964	28	0600	31st	5	1200	26th
HAI	1004.7	0600	30th	994.8	1500	12th	1008.4	0600	30th	1953	992.2	1500	13th	1964	43	0000	17th	10	1200	23rd
NAJAF	1008.0	0600	30th	994.5	1500	12th	1009.0	0600	30th	1968	993.2	1500	12th	1963	37	0300	29th	5	1200	1st
DIWANIYA	1006.2	0600	30th	995.4	1500	12th	1009.0	0600	30th	1953	994.8	1500	3rd	1954	58	0300	31st	8	1200	18th
NASIRIYA	1005.1	0600	30th	995.6	1500	12th	1008.1	0600	31st	1953	992.1	2100	3rd	1954	56	0300	20th	9	1200	20th
BASRAH	1003.6	0600	30th	995.6	1500	22nd	1007.7	0600	30th	1969	992.4	1500	3rd	1954	71	0000	25th	19	1200	3rd

AUGUST 1970. TABLE ( )

STATION: BAGHDAD RADIOSONDE STATION. TIME 1200 GMT. UPPER AIR CLIMATOLOGICAL DATA.

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE (GPM)				TEMPERATURE °C				DEW POINT °C		WIND						
												AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS	DIRE-CTION	SPEED KTS
1000	31	-7	48	-50	-	-	-	-	-	-	-	-	-	-	-	-	-
850	31	1453	1485	1416	31	25.4	33.2	21.1	30	1.5	30	300	11	350	29	180	04
700	31	3117	3162	3064	30	12.7	15.8	8.3	30	-11.1	30	280	08	300	24	010	02
500	31	5870	5952	5798	30	-1.2	2.5	-5.1	29	-31.3	30	250	12	250	54	150	02
300	30	9745	9863	9651	30	-27.5	-22.7	-29.5	29	-53.4	30	260	19	240	44	320	07
200	30	12546	12690	12442	30	-48.9	-40.6	-50.2	29	-68.9	27	250	22	260	58	260	08
150	30	14394	14604	14272	30	-60.0	-51.3	-64.9	14	-76.8	24	250	20	240	40	320	05
100	29	16834	17162	16691	29	-73.3	-64.2	-77.7	-	-	22	220	13	210	36	310	04
70	27	18935	19302	18770	27	-69.0	-59.5	-74.0	-	-	20	150	07	180	30	140	04

N = Total number of observations.

AUGUST 1970. TABLE ( )

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		W I N D						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	31	-7	43	-32	-	-	-	-	-	-	-	-	-	-	-	-	-
850	31	1445	1488	1412	31	26.3	30.2	22.0	30	1.6	31	310	12	320	25	300	05
700	31	3044	3145	3077	31	10.3	17.4	6.5	30	-9.1	31	300	09	290	31	020	04
500	31	5862	5916	5795	31	-1.3	2.0	-6.0	30	-29.2	31	260	10	230	34	120	04
300	31	9738	9826	9643	31	-27.4	-25.0	-30.6	30	-51.1	30	250	18	230	52	280	06
200	31	12539	12625	12325	31	-47.2	-43.6	-52.0	29	-67.4	30	240	23	220	112	220	09
150	31	14386	14475	14075	31	-60.0	-57.0	-71.8	21	-76.4	28	250	18	220	50	230	06
100	30	16822	16910	16393	30	-73.5	-70.0	-79.0	-	-	25	220	09	200	50	240	03
70	30	18896	19006	18416	30	-68.1	-64.0	-75.5	-	-	25	220	06	160	38	090	04

NOTE: N = Total number of observations.

AUGUST 1970. TABLE 117 ( )

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

STATION : BAGHDAD RADIOSONDE STATION. TIME GMT.

TIME OF OBS. GMT.	FREEZING LEVEL,										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT " GPM "	PRESSURE MB.	DEW POINT °C		HEIGHT " GPM "	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	31	5439	495	-27.4	6260	594	-10.5	4460	482	-35.2	30	16357	100	-74.7	18420	120	-68.5	15350	80	-61.5	11800	223	220	120
1200	31	5598	518	-29.9	6200	590	-15.4	4530	478	-47.4	29	16839	101	-74.4	19430	125	-69.0	15470	72	-77.3	15790	125	230	70

N= Total number of observations.

الجمهوريـــة العراقيـــــة

وزارة المواصـــــلات

مديرية الطيران المدني العامـة

مديرية الانواء الجوية

مديرية المناخ

بغـداد

======

تقرير المنـاخ الشهـــري

المجلـــد : ٣٣

العـــدد : ٩

الشهـــر : ايلـــول

السنـــة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENTT

B A G H D A D

==========

Volume : 33

No. : 9

Month : SEPTEMBER

Year : 1 9 7 0

SEPTEMBER 1970.

GENERAL SITUATION : DRY UNSTABLE MONTH.

MAIN FEATURE : The seasonal trough from Basrah gulf was predominating with cells of low pressure lies over the northern border during, 1st, 2nd, 11th, 14th, 15th, 16th and 28th. On 12 th a weak trough line crossed the country. On 13th and 17th depressions from Saudi Arabia moved eastwerd to Basrah gulf On 18, 19, and 20th shellow Centres developed over Central Iraq. On 21st and 22nd depressions from the western disturbances moved across western region towords Turkey. On 24th and 25th lows from Senae Crossed the Country.

PRESSURE : Mean pressure in general was arround normal, the highest pressure reading was 1014.1 mb Rutbah, it is 5.5 mb above normal, and lowest pressure reading was 997.5 mb at Salaheddin it is 8 mb below normal.

TEMPERATURE : Mean temperature in general was arround normal, the highest maximum temperature was 43.4 °C at Hai, it is 11.6 °C above normal, and lowest mimimum temperature was 15.2 °C at Baghdad it is 15.4 °C below normal.

RELATIVE HUMIDITY : Relative humidity was normal

SURFACE WIND : Prevailing surface wind was WNW'ly high, and fresh in the Central regions.

PRECIPITATIONS : Rainless month. Salaheddin mountain station reported rain once trace

OTHER PHENOMENAE : Duststorms was fairly widespread in the southern region and locally in the northern distructs.

SEPTEMBER 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	34.5	19.2	39.5	20.0	32.6	20.6	39.0	21.5	36.7	18.2
2	32.0	20.0	38.0	21.5	31.5	21.4	37.6	20.2	36.0	20.8
3	32.8	19.6	38.5	20.0	31.7	21.2	37.9	24.6	35.6	21.8
4	32.1	19.8	36.5	23.0	31.3	20.5	37.6	22.0	35.6	20.4
5	35.2	20.5	37.0	20.2	31.2	19.5	37.5	22.2	37.5	21.0
6	35.6	21.4	40.2	22.0	33.7	21.7	39.7	22.8	37.3	23.0
7	36.2	21.6	40.0	20.0	34.3	22.8	40.0	23.2	38.0	22.1
8	34.7	20.1	38.0	19.0	32.6	22.0	39.1	22.6	38.0	23.5
9	36.6	21.6	40.3	20.3	33.8	21.9	41.0	22.4	37.7	20.3
10	35.1	20.2	40.2	25.4	33.0	21.7	40.2	27.4	38.0	19.6
11	34.6	20.1	39.4	17.3	32.4	20.9	38.4	22.9	37.5	16.8
12	33.8	18.0	38.5	16.4	31.5	19.1	38.0	22.4	39.5	15.1
13	33.6	17.5	37.4	20.4	31.8	18.0	38.4	25.0	38.0	15.0
14	34.0	19.7	39.2	17.1	32.6	20.5	39.1	20.5	38.4	16.5
15	34.8	19.6	39.0	17.0	32.8	21.9	38.7	22.0	39.1	18.0
16	34.5	18.6	39.4	18.6	32.3	21.2	39.7	23.4	38.6	19.4
17	35.2	17.0	39.0	21.3	31.8	18.4	38.0	26.4	39.6	18.1
18	35.8	18.5	39.0	20.4	32.6	19.5	39.4	24.4	39.2	18.8
19	35.0	19.0	38.6	20.2	32.2	20.2	37.6	25.4	39.0	18.3
20	34.8	16.6	38.2	16.1	31.0	20.3	38.4	25.6	39.6	17.0
21	35.2	20.3	38.0	19.5	33.2	22.2	39.0	25.2	39.2	17.0
22	35.6	20.1	40.6	17.4	33.6	22.3	40.1	24.2	38.2	19.0
23	33.0	19.1	36.5	19.3	31.1	22.2	38.3	22.8	37.5	19.2
24	32.7	21.2	38.2	19.2	30.8	21.5	37.1	22.7	37.6	20.7
25	32.7	21.3	37.5	19.6	31.6	19.0	38.0	23.7	38.2	18.2
26	32.5	21.6	39.0	21.0	31.0	20.6	38.1	22.3	37.3	21.0
27	33.5	20.8	38.2	17.2	32.1	20.2	39.0	21.0	39.0	19.8
28	35.4	21.8	40.8	16.7	33.5	22.1	41.1	24.1	37.2	20.2
29	38.5	20.4	37.0	23.0	33.2	21.4	39.4	22.0	34.6	19.9
30	27.8	18.2	37.4	18.5	20.8	18.4	36.5	22.1	31.0	17.4
MEANS	34.0	19.8	38.7	19.7	32.3	20.8	38.0	23.3	37.6	19.3
HIGHEST	40.3	30.3	47.2	28.3	36.8	26.3	46.1	31.1	44.4	25.4
DAY	5th	12th	?	7th	4th	5th	2nd	7th	6th	7th
YEAR	1966	1965	1935	1952	1959	1967	1945	1952	1969	1969
LOWEST	24.0	14.2	23.9	6.9	25.4	14.3	28.5	9.4	31.0	14.4
DAY	19th	25th	18th	26th	30th	13th	29th	30th	30th	24th
YEAR	1964	1964	1932	1956	1967	1969	1965	1930	1970	1968

SEPTEMBER 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	RUTBAH		HABBANIYA		BAGHDAD		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	33.6	15.4	39.2	19.0	39.[illegible]	16.4	39.3	22.2
2	34.[illegible]	15.4	37.3	2[illegible].3	39.5	17.[illegible]	38.2	22.[illegible]
3	33.[illegible]	17.[illegible]	38.4	22.5	39.4	19.9	39.4	23.[illegible]
4	34.6	17.[illegible]	36.4	21.5	39.4	19.4	39.5	23.4
5	33.6	1[illegible].6	37.[illegible]	21.5	37.5	1[illegible]	37.[illegible]	25.4
6	34.2	1[illegible].1	3[illegible].0	23.5	39.2	2[illegible].5	3[illegible].3	21.9
7	35.7	1[illegible].2	39.5	22.5	4[illegible].6	1[illegible].2	4[illegible].6	21.6
8	34.[illegible]	19.0	3[illegible].[illegible]	21.5	39.1	2[illegible].[illegible]	39.5	23.[illegible]
9	33.2	17.6	39.2	22.[illegible]	37.6	19.4	3[illegible].2	22.1
10	35.2	15.5	39.4	21.5	39.[illegible]	2[illegible].3	39.[illegible]	19.4
11	35.3	17.7	39.[illegible]	19.[illegible]	39.7	17.7	39.[illegible]	2[illegible].6
12	35.[illegible]	17.2	3[illegible].6	19.[illegible]	39.[illegible]	15.2	39.5	21.[illegible]
13	34.[illegible]	15.3	3[illegible].[illegible]	19.5	39.2	17.[illegible]	39.[illegible]	21.4
14	36.[illegible]	15.6	3[illegible].5	19.[illegible]	39.4	16.1	39.2	21.5
15	35.2	1[illegible].6	39.7	19.5	4[illegible].3	16.2	4[illegible].5	22.[illegible]
16	35.6	2[illegible].1	39.5	20.[illegible]	4[illegible].2	17.5	41.[illegible]	23.6
17	37.2	21.2	39.[illegible]	2[illegible].6	4[illegible].2	1[illegible].[illegible]	4[illegible].[illegible]	23.2
18	36.5	1[illegible].[illegible]	3[illegible].5	21.[illegible]	4[illegible].5	2[illegible].[illegible]	39.[illegible]	21.4
19	37.[illegible]	1[illegible].[illegible]	3[illegible].6	23.5	4[illegible].4	19.2	4[illegible].3	21.3
20	3[illegible].1	1[illegible].3	3[illegible].5	21.[illegible]	4[illegible].[illegible]	1[illegible].5	4[illegible].2	22.4
21	38.[illegible]	19.4	39.[illegible]	19.[illegible]	4[illegible].7	1[illegible].7	4[illegible].[illegible]	2[illegible].[illegible]
22	36.6	19.[illegible]	41.3	20.[illegible]	4[illegible].7	1[illegible].5	41.3	22.3
23	34.5	1[illegible].6	3[illegible].[illegible]	21.[illegible]	4[illegible].7	1[illegible].1	42.[illegible]	21.3
24	34.5	1[illegible].4	37.5	20.5	39.5	16.[illegible]	39.5	24.[illegible]
25	37.6	17.[illegible]	38.[illegible]	23.[illegible]	4[illegible].7	21.[illegible]	43.4	24.[illegible]
26	34.6	16.[illegible]	3[illegible].4	2[illegible].3	4[illegible].[illegible]	21.7	42.2	24.1
27	39.[illegible]	15.6	4[illegible].[illegible]	21.5	4[illegible].5	1[illegible].[illegible]	42.5	23.[illegible]
28	37.5	17.3	4[illegible].6	2[illegible].5	41.5	1[illegible].4	43.2	23.[illegible]
29	32.[illegible]	17.2	3[illegible].5	2[illegible].7	4[illegible].2	17.4	42.[illegible]	22.7
30	2[illegible].6	1[illegible].7	36.[illegible]	21.5	37.5	19.2	42.2	22.7
MEANS	35.2	17.4	3[illegible].5	20.9	39.7	18.3	4[illegible].2	22.4
HIGHEST	45.[illegible]	26.7	4[illegible].4	3[illegible].6	46.6	2[illegible].9	48.4	31.1
DAY	3rd	4th	2nd	7th	6th	13th	1[illegible]th	2nd
YEAR	1925	1929	1945	1940	1945	1957	1945	1940
LOWEST	25.[illegible]	[illegible].9	3[illegible].[illegible]	11.1	3[illegible].[illegible]	1[illegible].5	31.[illegible]	15.[illegible]
DAY	30th	21st	30th	30th	3[illegible]th	3[illegible]th	29th	2[illegible]th
YEAR	1928	1936	1938	1938	1938	1930	1955	1951

SEPTEMBER 1970. TABLE 1e(3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

DAYS	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	39.6	21.5	39.0	22.2	39.5	21.1	39.5	21.5
2	39.6	21.5	37.0	19.8	39.7	21.7	39.0	20.9
3	40.4	22.6	38.7	21.7	40.0	22.2	39.9	23.1
4	37.6	25.0	37.0	21.4	39.1	23.4	38.8	22.0
5	37.7	23.8	36.7	22.4	37.9	23.2	37.9	24.3
6	39.4	25.0	37.4	20.0	39.0	23.0	39.9	21.7
7	39.0	22.7	39.2	20.0	40.5	22.3	39.7	22.4
8	39.3	22.5	38.5	20.6	39.3	22.6	39.3	24.3
9	38.5	24.0	37.3	22.1	39.4	21.9	38.9	21.0
10	40.6	22.4	39.2	20.0	40.6	17.0	39.7	20.6
11	39.6	20.3	38.0	16.6	39.5	19.2	38.6	21.3
12	40.5	22.7	39.2	19.0	40.4	21.7	39.5	21.3
13	39.5	22.0	38.9	19.1	39.6	21.0	39.0	19.2
14	40.0	21.5	38.6	20.1	39.8	20.6	39.5	20.1
15	40.9	22.5	39.0	18.3	40.7	21.1	40.5	19.8
16	40.6	22.0	40.2	19.4	41.4	22.5	40.5	21.6
17	40.4	22.5	40.1	20.4	41.1	23.0	41.0	21.3
18	40.4	24.4	39.0	22.3	40.5	21.4	40.0	22.0
19	40.0	24.0	39.2	23.0	40.3	22.7	39.0	20.1
20	39.7	24.2	39.4	20.2	39.7	22.5	39.2	21.4
21	40.0	22.3	39.7	20.7	40.3	21.7	40.2	20.2
22	41.4	23.2	41.3	18.2	40.6	21.3	41.5	20.5
23	40.2	21.2	40.9	19.4	42.2	22.2	40.0	22.3
24	39.3	22.8	38.9	22.1	39.0	21.0	39.8	20.5
25	40.6	24.0	40.1	22.4	41.0	21.0	41.5	18.6
26	40.3	23.0	40.3	22.0	41.5	21.0	41.5	19.5
27	40.6	22.0	41.4	21.5	42.5	20.8	41.2	18.7
28	42.3	23.5	40.7	23.4	42.6	23.0	40.2	20.7
29	41.2	23.0	40.0	24.0	42.2	21.2	41.3	19.7
30	38.0	20.5	39.0	21.0	42.1	23.0	39.6	20.0
MEANS	39.9	22.8	39.2	20.8	40.4	21.7	39.8	21.0
HIGHEST	46.6	28.0	46.6	28.3	48.9	31.2	46.6	30.9
DAY	8th	9th	1st	14th	6th	3rd	9th	3rd
YEAR	1959	1969	1945	1951	1940	1956	1951	1956
LOWEST	34.4	16.3	32.6	11.6	32.6	13.9	31.1	13.1
DAY	26th	23rd	15th	26th	1st	23rd	29th	15th
YEAR	1966	1964	1959	1943	1953	1940	1955	1958

SEPTEMBER 1970. TABLE 2. (4)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	...	25.4	29.9	31.6	33.3	32.6	29.3	....	30.2
MOSUL	22.6	2[illegible].5	27.3	35.9	37.0	35.1	2[illegible] 5	24.9	29.1
SALAHADDIN	...	22.1	27.3	30.8	31.4	2[illegible].5	23.7	....	27.3
KIRKUK	25.7	24.4	31.2	37.1	38.1	35.0	29.5	27.2	31.0
ANAH	....	20.4	25.2	33.7	37.1	35.6	28.0	....	30.0
RUTBAH	20.1	1[illegible].2	24.7	32.1	34.6	32.9	26.9	22.7	26.5
HABBANIYA	22.6	21.2	28.0	36.1	38.1	34.0	2[illegible].3	25.5	29.3
BAGHDAD	21.3	1[illegible].7	29.5	37.4	39.2	35.4	26.7	23.4	29.9
HAI	25.2	22.8	30.2	38.3	39.7	35.2	29.8	27.0	31.0
NAJAF	25.4	23.2	30.7	37.8	39.5	36.7	30.3	27.3	31.4
DIWANIYA	23.6	21.3	30.2	37.4	38.9	34.6	29.3	26.7	30.3
NASIRIYA	24.2	22.2	30.7	39.0	40.3	35.0	30.3	26.9	31.3
BASRAH	24.1	21.6	29.5	37.1	39.2	34.3	28.9	26.4	30.1

TABLE 3. WET-BULB TEMPERATURES (°C)

SINJAR	....	15.2	16.8	18.8	18.2	17.8	15.6	....	17.1
MOSUL	14.8	13.0	17.2	20.7	20.8	20.1	17.1	15.9	17.6
SALAHADDIN	...	13.1	15.7	16.9	17.0	15.9	14.2	...	15.5
KIRKUK	14.5	14.1	17.3	18.9	19.0	18.1	16.5	15.3	16.7
ANAH	....	13.6	16.4	19.7	20.4	20.1	17.3	....	17.9
RUTBAH	12.7	12.2	15.4	17.9	18.5	17.9	15.4	13.6	15.5
HABBANIYA	15.9	16.2	20.9	23.3	23.9	22.9	20.2	18.8	20.4
BAGHDAD	13.8	12.7	18.2	2[illegible].5	2[illegible].6	19.9	16.5	14.9	17.1
HAI	15.9	14.8	19.3	21.6	21.7	21.0	18.4	17.0	18.7
NAJAF	15.4	14.3	18.0	2[illegible].1	2[illegible].5	19.6	17.6	16.6	17.8
DIWANIYA	15.7	14.7	19.5	21.7	21.7	20.7	18.5	17.0	18.7
NASIRIYA	15.3	13.9	1[illegible].2	2[illegible].3	20.6	2[illegible].3	17.7	16.4	17.8
BASRAH	1[illegible].4	16.3	20.9	23.7	23.9	23.1	21.3	20.0	21.0

TABLE 4. VAPOUR PRESSURE (MBS.)

SINJAR	....	9.3	9.6	9.8	8.8	8.6	9.0	...	9.2
MOSUL	10.6	1[illegible].5	11.6	12.2	1[illegible].7	11.5	1[illegible].3	1[illegible].9	11.0
SALAHADDIN	...	7.9	8.5	7.8	7.9	8.0	8.3	...	8.1
KIRKUK	7.7	7.9	8.9	7.5	6.9	7.4	8.5	8.0	7.9
ANAH	...	1[illegible].4	11.4	11.9	1[illegible].7	11.2	11.2	...	11.1
RUTBAH	8.8	9.5	10.1	9.2	8.4	8.6	8.4	8.2	8.9
HABBANIYA	15.4	15.5	18.6	18.6	18.3	19.3	17.3	16.6	17.3
BAGHDAD	9.8	9.9	12.0	10.8	9.5	10.9	11.1	10.3	10.5
HAI	10.7	10.4	13.6	12.4	11.5	13.4	12.1	11.3	11.9
NAJAF	9.6	9.3	10.5	9.4	9.0	9.1	10.1	10.5	9.7
DIWANIYA	11.6	11.4	14.1	13.5	12.3	12.7	12.8	11.9	12.5
NASIRIYA	10.2	9.3	11.0	8.9	8.6	10.7	10.1	10.3	9.9
BASRAH	16.7	14.4	17.8	18.6	17.4	19.3	19.2	1[illegible].3	17.7

TABLE 5. DEW-POINT TEMPERATURES (°C)

SINJAR	....	5.5	5.8	6.3	4.9	4.5	4.9	...	5.3
MOSUL	7.6	7.3	8.9	9.7	7.7	8.8	7.5	7.9	8.2
SALAHADDIN	...	3.4	4.6	3.8	3.3	3.5	4.2	...	3.8
KIRKUK	2.9	3.3	4.8	2.5	1.3	2.2	4.3	3.3	3.1
ANAH	...	7.0	8.4	9.2	7.7	8.1	8.3	...	8.1
RUTBAH	4.6	5.1	6.5	5.3	4.1	4.3	4.0	3.8	4.7
HABBANIYA	13.1	12.3	16.1	15.9	15.8	16.7	15.0	14.3	14.9
BAGHDAD	6.4	6.7	9.3	7.7	5.6	7.8	8.3	7.1	7.4
HAI	8.0	7.6	11.5	10.1	9.9	11.2	9.7	8.7	9.5
NAJAF	6.0	5.5	7.3	5.7	5.0	5.1	6.7	7.3	6.1
DIWANIYA	9.0	8.7	11.9	11.3	9.9	10.2	10.3	9.5	10.1
NASIRIYA	7.0	5.6	8.1	4.7	4.4	7.6	6.9	7.2	6.4
BASRAH	14.6	12.2	15.5	16.2	15.1	16.8	16.8	16.0	15.4

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	,,	29	24	21	13	18	22	,,	22
MOSUL	39	43	32	22	16	21	27	35	29
S LAHADDIN	,,	30	24	13	17	21	29	,,	23
KIRKUK	24	27	20	12	11	14	21	23	19
ANAH	,,	43	35	23	17	19	30	,,	28
RUTBAH	38	44	33	20	15	18	24	31	28
HABBANIYA	57	58	47	31	28	37	45	51	44
BAGHDAD	39	46	29	17	13	19	33	36	29
HAI	34	37	32	19	16	24	29	32	28
NAJAF	30	33	24	15	13	15	23	29	23
DIWANIYA	40	45	33	21	18	22	31	35	31
NASIRIYA	34	35	25	13	12	17	24	29	24
BASRAH	56	56	43	30	25	36	48	54	44

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

SINJAR	,,,,	06.6	06.3	05.9	04.6	04.4	05.6	,,,,	1005.6
MOSUL	06.8	07.2	07.5	06.1	04.4	04.3	06.0	06.7	1005.1
SALAHADDIN	,,,,	06.0	05.3	04.1	02.9	03.9	06.7	,,,,	1005.0
KIRKUK	06.1	05.4	06.2	05.0	03.8	04.1	06.0	06.4	1005.5
ANAH	,,,,	07.7	08.5	07.3	05.8	05.3	06.8	,,,,	1006.9
RUTBAH	06.3	07.3	07.9	07.1	05.7	05.8	06.6	06.6	1006.7
HABBANIYA	05.3	05.6	06.4	05.0	04.5	04.4	05.3	05.5	1005.4
BAGHDAD	04.5	05.0	06.1	05.6	04.3	04.1	05.1	05.1	1005.0
HAI	03.1	03.5	04.5	04.0	02.9	02.8	03.9	03.7	1003.6
NAJAF	04.9	05.6	06.7	06.2	04.8	04.6	05.7	05.5	1005.5
DIWANIYA	04.4	04.9	05.0	05.3	04.1	04.0	05.0	04.9	1004.8
NASIRIYA	03.4	03.9	04.8	04.3	02.9	02.9	04.0	03.9	1003.8
BASRAH	03.0	03.5	04.6	04.1	02.7	02.7	03.6	03.36	1003.5

TABLE 8. TOTAL AMOUNT CLOUD(OKTAS)

SINJAR	,,,	0.1	0.3	0.4	0.7	0.6	0.1	,,,	0.4
MOSUL	0.1	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3
SALAHADDIN	,,	0.2	0.2	0.3	0.5	0.8	0.6	,,,	0.4
KIRKUK	0.1	0.1	0.0	0.0	0.3	0.4	0.1	0.1	0.1
ANAH	,,,	0.2	0.1	0.1	0.2	0.1	0.1	,,,	0.1
RUTBAH	0.3	0.3	0.3	0.3	0.4	0.6	0.1	0.3	0.3
HABBANIYA	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1
BAGHDAD	0.0	0.1	0.0	0.0	0.2	0.2	0.1	0.0	0.1
HAI	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAJAF	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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	0.1	0.1	0.0	0.0	0.0	0.0	0.0
BASRAH	0.0	0.1	0.0	0.1	0.2	0.1	0.0	0.0	0.1

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

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

SEPTEMBER 1970 TABLE 10a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR(V.K.)	DIRECTION	TIME GM.T	DAY
SINJAR	18 knots	240	1200	30th
MOSUL	18	090	0600	12th
SALAHADDIN	16	020	0900	22nd
KIRKUK	15	050	0000	17th
ANAH	28	270	1200	9 th
RUTBAH	30	180	0900	21st
HABBANIYA	25	300	1200	8 th
BAGHDAD	20	340	1200	19th
HAI	25	340	1200	4 th
NAJAF	23	330	0900	9 th
DIWANIYA	18	360	0900	25th
NASIRIYA	23	300	1200	8 th
BASRAH	25	320	0900	3 rd

SEPTEMBER 1970. TABLE 12a. (9)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

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

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

SEPTEMBER 1970. TABLE 12b. (10)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

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

STATIONS	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	6.2 mms.	29th	1965
HAI	tr.	12th	1965
NAJAF	2.0	28th	1955
DIWANIYA	tr.	29th	1966
NASIRIYA	0.2	7 th	1951
BASRAH	0.4	12th	1938

SEPTEMBER 1970. TABLE 13.

(11)

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

	MOSUL		KIRKUK			HABBANIYA			BAGHDAD			HAI	NAJAF		DIWA.	NASIRIYA			BASRAH
DAYS	GRASS	0.3M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	GRASS	0.3M	1.2M	GRASS
1	15.6	28.0	17.8	27.2	30.0	17.8	33.8	32.8	13.3	33.6	32.8	21.0	32.6	33.0	14.2	17.9	34.3	32.9	18.0
2	15.8	28.0	14.9	27.3	29.9	18.9	33.4	32.6	13.2	33.4	32.3	21.4	32.4	33.2	16.9	18.5	34.0	32.8	17.1
3	15.5	28.2	22.1	27.8	29.0	20.9	33.3	32.0	17.3	33.4	32.6	22.5	31.4	32.8	19.2	20.0	33.9	32.7	19.9
4	15.0	28.4	18.6	28.3	29.6	19.5	33.5	32.0	14.8	33.8	32.6	22.2	32.6	32.8	19.4	21.0	34.0	32.7	19.5
5	11.0	28.6	16.2	28.6	29.5	20.6	33.3	32.0	15.2	33.5	32.5	24.0	32.5	32.5	19.9	20.0	33.8	32.7	20.2
6	11.2	28.8	17.4	28.9	29.5	21.7	33.2	32.0	17.0	33.5	32.4	21.0	32.2	32.7	18.6	20.3	33.6	32.7	18.1
7	11.3	28.8	16.2	29.0	29.5	19.5	33.0	31.8	14.0	33.4	32.3	20.3	32.0	32.5	17.4	19.9	33.6	32.5	17.2
8	11.5	28.5	17.0	27.6	29.6	19.5	33.0	31.9	15.5	33.4	32.4	21.5	32.2	32.4	17.5	18.8	33.8	32.5	20.0
9	11.2	28.2	19.5	27.1	29.5	20.5	33.0	31.8	15.4	33.2	32.3	21.0	32.0	32.3	20.5	17.5	33.4	32.5	15.5
10	17.0	29.6	24.0	28.2	29.4	19.6	32.7	31.7	16.5	32.8	32.3	19.0	31.6	32.5	19.2	13.2	33.1	32.4	15.1
11	10.8	28.6	21.0	28.7	29.4	16.1	32.5	31.7	13.3	32.8	32.3	19.2	31.4	32.0	16.6	14.4	33.2	32.3	17.4
12	9.0	28.3	18.5	28.5	29.4	16.7	32.3	31.6	11.2	32.7	32.2	19.3	31.2	31.6	14.4	12.7	33.5	32.4	17.5
13	12.2	28.0	23.6	28.4	29.4	17.5	32.0	31.8	12.8	32.8	32.0	20.0	31.6	32.0	16.8	13.7	34.0	32.3	13.4
14	9.6	27.8	16.2	27.8	29.4	16.7	32.0	31.5	12.0	32.5	32.0	21.2	31.5	32.0	15.0	15.7	34.0	32.3	14.4
15	9.4	27.7	16.9	26.6	29.4	17.2	32.0	31.5	12.3	32.4	31.8	20.5	31.5	32.0	14.7	13.5	34.0	32.2	14.7
16	9.5	27.5	19.6	25.9	29.3	17.2	31.8	31.3	12.8	32.7	31.9	21.0	31.7	31.8	16.1	13.9	34.7	32.2	17.4
17	11.6	28.5	22.1	25.5	29.4	17.0	31.8	31.4	12.9	32.7	31.8	19.9	31.6	31.8	15.2	15.5	34.4	32.2	15.2
18	10.8	28.4	18.2	26.0	29.2	15.6	31.8	31.8	14.7	32.8	31.8	18.6	31.8	31.8	16.4	15.7	34.2	32.2	15.7
19	8.2	28.0	21.6	25.5	29.0	19.2	31.8	31.3	12.2	32.6	31.8	20.0	31.8	31.8	18.0	19.7	34.0	32.0	14.7
20	5.8	27.2	21.5	25.5	28.9	18.6	31.8	31.1	13.0	32.8	31.7	21.0	31.4	31.8	18.2	19.1	33.7	32.2	15.7
21	6.4	26.4	19.0	25.6	28.9	16.7	31.5	31.0	12.5	32.3	31.7	19.6	31.1	31.7	17.0	17.7	33.4	32.2	14.9
22	6.0	26.9	20.6	25.5	28.9	17.2	31.6	31.0	11.8	32.2	31.6	19.5	29.4	31.8	15.6	11.5	33.3	32.0	14.3
23	6.4	27.1	19.6	25.4	28.8	18.4	31.5	31.0	14.3	32.3	31.6	18.7	29.0	31.5	14.0	16.5	33.5	32.1	16.2
24	10.4	27.3	18.0	25.5	28.8	18.1	31.5	31.0	12.7	32.3	31.5	20.7	29.0	31.6	19.4	14.0	33.4	32.0	15.5
25	15.3	27.0	18.5	25.0	28.6	21.1	31.5	31.0	13.7	32.1	31.5	22.6	25.6	31.2	16.8	18.7	32.9	32.0	13.1
26	9.2	27.5	18.4	26.0	28.7	18.4	31.5	31.0	13.8	32.0	31.8	22.4	25.8	31.2	18.2	14.2	33.2	32.0	13.2
27	13.2	27.0	15.5	26.1	28.6	17.8	31.4	30.6	12.6	32.1	31.4	21.7	25.5	31.0	17.7	14.7	33.0	31.9	12.6
28	13.0	26.5	21.5	26.6	28.6	18.4	31.3	30.8	12.2	32.3	31.9	21.4	26.5	30.8	16.6	18.5	33.3	32.0	14.8
29	20.5	27.6	19.6	26.6	28.5	17.8	31.3	30.8	13.2	32.2	31.4	21.0	28.0	30.5	15.4	14.2	33.0	31.8	13.1
30	13.4	27.0	19.1	26.7	28.4	18.6	31.2	30.8	14.2	31.9	31.3	18.8	28.3	30.6	16.6	14.5	33.2	32.0	13.2
MEANS	11.7	27.8	19.0	26.9	29.2	18.5	32.2	31.4	13.7	32.8	32.0	20.7	30.5	31.9	17.1	16.5	33.6	32.3	15.9

SEPTEMBER 1970. TABLE 14.

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

DAYS	SEN-JAR	MO-SUL	KIR-KUK	ANAH	BAGH-DAD	NAJAF	DIWA-NIYA	NASI-RIYA	BASRAH
1	14	20	10	18	12	12	10	15	10
2	15	21	10	17	13	12	10	12	9
3	16	20	10	12	14	12	10	10	9
4	16	20	11	9	14	10	9	11	9
5	17	18	10	10	19	14	10	13	7
6	14	18	10	11	17	13	9	10	10
7	15	19	11	12	17	12	10	11	6
8	14	18	11	13	17	12	10	12	9
9	13	18	12	12	17	15	11	12	8
10	14	19	11	15	17	10	10	11	7
11	13	15	11	14	15	10	10	10	7
12	12	17	12	14	12	9	11	9	7
13	12	16	10	12	12	10	10	9	6
14	14	10	10	12	14	10	10	8	8
15	13	10	9	10	12	11	9	6	6
16	14	10	10	10	17	10	10	8	7
17	15	11	10	9	12	10	10	10	5
18	16	9	10	9	15	11	10	10	7
19	13	10	10	9	13	11	10	10	8
20	12	7	10	8	10	10	11	10	8
21	12	7	10	8	13	12	9	9	6
22	13	8	9	9	10	15	11	7	5
23	13	9	8	12	12	12	11	7	5
24	12	6	8	10	14	10	11	8	8
25	11	9	8	8	15	12	10	7	8
26	12	7	8	6	12	10	10	9	6
27	10	5	8	8	11	11	10	8	4
28	11	6	8	9	10	10	10	9	5
29	12	7	8	10	10	8	11	8	6
30	10	8	10	9	10	8	8	9	6
TOTAL	398	378	293	325	406	332	301	287	212
MEANS	13.3	12.6	9.8	10.8	13.5	11.1	10.0	9.6	7.1

NUMBER OF DAYS FOR THE CASES OF PHENOMENA AND DURATION

STATION	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	CLEAR	CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	0	0	0	0	0	0	0	3	2	0	0	29	0	-	-	-	-
MOSUL	0	0	0	0	0	0	5	0	4	0	0	29	0	338.1	12.2	1st	0
SALAHADDIN	0	0	0	0	0	0	3	0	1	0	0	27	0	-	-	-	-
KIRKUK	0	0	0	0	0	0	18	4	7	0	0	29	0	-	-	-	-
ANAH	0	0	0	0	0	0	0	5	2	0	0	29	0	-	-	-	-
RUTBAH	0	0	0	0	0	0	0	2	0	0	0	28	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	1	3	1	0	0	30	0	355.8	12.8	1st	0
BAGHDAD	0	0	0	0	0	0	10	6	5	0	0	29	0	331.1	12.0	1st	0
HAI	0	0	0	0	0	0	0	6	0	0	0	30	0	-	-	-	-
NAJAF	0	0	0	0	0	0	0	2	1	0	0	30	0	-	-	-	-
DIWANIYA	0	0	0	0	0	0	0	6	5	0	0	30	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	0	12	12	0	0	27	0	308.7	11.3	11th	0
BASRAH	0	0	0	0	0	0	1	4	8	0	0	30	0	324.4	11.6	13th	0

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

STATION	PRESSURE AT MSL for 1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL. - RECORDS-mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % - 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1012.3	1800	23rd	999.0	1200	11th	1016.5	0900	29th	1964	992.6	1200	11th	1961	48	0300	23rd	9	1500	14th
MOSUL	1013.8	0600	24th	999.3	1200	11th	1018.7	0600	30th	1938	997.2	1500	1st	1955	74	0300	24th	9	1200	19th
SALAHADDIN	1013.6	1800	27th	997.5	1200	11th	1013.6	1800	27th	1970	997.5	1200	11th	1970	55	0300	30th	9	0600	22nd
KIRKUK	1012.8	0300	24th	998.5	1200	9th	1017.1	0300	29th	1962	995.5	1500	1st	1955	43	0300	5th	5	1200	15th
ANAH	1014.6	0600	24th	100[illegible]	1500	10th	1015.3	0600	30th	1969	1001.0	1500	10th	1970	67	0300	27th	9	1200	19th
RUTBAH	[illegible]	0600	23rd	100[illegible]	1200	11th	1021.2	0200	30th	1938	997.9	1200	1st	1955	76	0300	30th	6	1200	21st
HABBANIYA	1012.6	0600	24th	997.0	1500	10th	1016.1	0600	29th	1962	997.0	1500	10th	1970	79	0000	20th	13	1200	22nd
BAGHDAD	1011.8	0600	24th	999.1	1500	10th	1017.5	0600	30th	1938	996.5	1500	1st	1955	67	0300	2nd	5	1200	21st
HAI	1011.1	0600	23rd	998.3	1500	10th	1016.3	0600	29th	1962	995.5	1500	3rd	1956	50	0000	23rd	10	1200	28th
NAJAF	1012.3	0600	24th	999.7	1500	10th	1014.8	0600	25th	1966	996.0	1500	3rd	1963	54	0300	5th	7	1500	1st
DIWANIYA	1010.8	0600	23rd	999.5	1500	10th	1015.7	0600	29th	1962	995.2	1500	3rd	1956	59	0000	1st	10	1500	1st
NASIRIYA	1010.2	0600	23rd	998.6	1500	10th	1016.1	0600	29th	1962	995.1	0600	8th	1948	53	0300	1st	7	0900	11th
BASRAH	1011.5	0600	23rd	998.3	1500	1st	1016.7	0600	29th	1962	995.7	0300	1st	1955	72	0300	27th	17	1200	15th

SEPTEMBER 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE (GPM)				TEMPERATURE °C				DEW POINT °C		WIND						
												AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	30	41	86	-5	18	23.6	26.6	19.4	18	8.3	18	340	08	340	18	000	00
850	30	1482	1536	1433	30	23.3	26.0	20.9	30	0.0	30	330	13	290	34	240	03
700	30	3134	3199	3081	30	10.7	14.7	6.0	30	-11.3	30	300	14	320	40	230	05
500	30	5848	5911	5785	30	-6.1	-1.0	-11.2	30	-29.4	30	250	21	300	43	330	07
300	30	9659	9752	9553	30	-27.8	-27.5	-35.6	30	-52.2	30	260	37	280	81	250	10
200	30	12420	12539	12295	30	-50.1	-46.5	-54.8	30	-67.7	28	250	36	260	70	280	11
150	30	14243	14379	14110	30	-62.4	-60.0	-66.8	24	-77.0	28	250	32	230	62	280	10
100	30	16685	16807	16590	30	-72.3	-68.2	-74.5	-	-	27	250	24	200	52	210	10
70	30	18800	18951	18623	30	-67.1	-61.4	-70.4	-	-	26	230	09	170	35	110	08

NOTE : N = Total number of observation.

SEPTEMBER 1970. TABLE 16b

STATION: BAGHDAD RADIOSONDE STATION. TIME 1200 GMT. UPPER AIR CLIMATOLOGICAL DATA.

PRESSURE SURFACE MB.	HEIGHT PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		W I N D						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	18	43	92	-5	18	39.0	40.7	36.1	18	8.9	18	300	07	350	25	170	03
850	30	1491	1543	1444	30	23.4	26.0	19.9	30	1.5	30	300	13	290	30	300	04
700	30	3143	3200	3105	30	10.7	15.0	6.5	30	-9.6	30	300	15	330	30	300	08
500	30	5856	5927	5786	30	-6.3	1.8	-10.6	30	-28.1	30	260	19	300	39	250	06
300	30	9667	9757	9572	30	-30.4	-27.0	-35.3	30	-50.5	28	260	40	270	70	260	16
200	30	12425	12555	12289	30	-50.4	-47.0	-53.9	28	-66.9	27	260	42	270	73	230	15
150	30	14248	14397	14101	30	-63.1	-59.5	-66.1	22	-73.0	24	250	36	250	78	250	18
100	30	16681	16832	16551	30	-71.8	-64.0	-74.9	-	-	22	240	24	220	48	280	12
70	30	18809	18985	18669	30	-65.7	-60.6	-70.2	-	-	19	170	04	230	40	170	05

N = Total number of observations.

SEPTEMBER 1970. TABLE 17 .

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

STATION: BAGHDAD RADIOSONDE STATION. TIME GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT " GPM "	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
00004	30	4779	574	-21.8	5750	643	-10.4	3810	510	-30.4	30	16417	110	-72.1	17090	135	-68.4	14870	95	-76.0	10700	258	280	125
1200	30	4751	576	-21.3	5730	644	-5.6	3800	508	-35.3	30	16431	111	-74.3	17720	138	-66.7	14650	85	-77.0	11980	21.3	280	85

N = Total number of observations.

الجمهوريـــة العراقيـــــة

وزارة المواصـــــلات

مديرية الطيران المدني العامة

مديرية الانواء الجويـــة

مديرية المنـاخ

بغـداد

=======

تقرير المنـــاخ الشهـــري

المجلـــد : ٣٣

العـــدد : ١٠

الشهـــر : تشرين الاول

السنـــة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

Volume : 33

No. : 10

Month : OCTOBER

Year : 1 9 7 0

OCTOBER 1970.

GENERAL SITUATION	:	COLD DRY AND STABLE
MAIN FEATURE	:	The first Cold front passed the country was on the 2nd, on 11, 12, 13, and 14th frontal systems Crossed the country. Series of depression passed the Country few was shellow, all from the western disturbances on 9, 19, 24, and 26th. On 17th and . . t 31st Semas depressions passed. On 28th the Saudi Arabia depression crossed southern regions .
PRESSURE	:	Mean pressure in general is below normal the highest pressure reading was 1023.4 mbs at Mosul, it is 10.8 mb above normal, the lowest pressure reading was 999.9 mb at Mosul, itis 12.7 mb below normal.
TEMPERATURE	:	Mean temperature in general is below normal Baghdad has 2 °C below normal. The highest maximum temperature was 40.0 °C at Basrah, it is 14.1 °C above normal, lowest minimum temperature was 5.1 °C at Mosul, it is 15.2 °C below normal.
RELATIVE HUMIDITY	:	The relative humidity is slightly below normal
SURFACE WIND	:	Prevailing surface wind was NW'ly. fresh, except mountain regions, was southerly light.
PRECIPITATIONS	:	Widespread light rain, generally below normals, Highest total rainfall was 2.4 mm at Kirkuk, it is 1.7 mm below normal.
OTHER PHENOMENAE	:	Scatterd thunderstorms in northern regions and once at Hai Central area. Dust storm was locally in northern region and once at Nasiriya. Fog reported twice at Basrah.

OCTOBER 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	23.7	14.3	30.1	10.3	24.0	14.1	31.0	17.4	25.7	15.9
2	27.1	13.4	30.7	12.6	26.2	13.4	31.9	13.4	30.9	10.8
3	30.5	17.4	34.0	10.0	28.7	16.3	34.0	16.2	35.6	12.3
4	30.1	21.4	30.2	14.2	29.0	10.7	35.0	20.2	33.0	14.9
5	28.7	19.6	34.9	16.7	27.5	17.6	33.9	17.2	32.9	14.6
6	26.0	18.0	31.4	15.5	26.4	16.4	34.0	19.2	30.5	14.0
7	24.4	16.4	28.3	11.4	21.5	12.6	28.5	15.5	28.3	13.6
8	24.6	12.4	27.0	8.5	19.6	10.3	27.9	14.5	28.1	9.3
9	23.8	12.2	28.5	7.9	22.2	11.0	29.1	14.4	28.0	9.7
10	25.6	12.4	30.1	8.5	22.6	11.5	31.2	13.4	29.2	8.3
11	26.8	16.8	30.3	17.6	24.4	15.0	35.2	20.4	34.3	21.5
12	26.7	19.1	32.4	17.2	28.3	21.2	35.4	26.4	32.0	18.5
13	27.6	22.3	34.0	18.0	28.0	21.5	34.1	23.8	29.5	21.6
14	22.1	13.6	28.1	11.2	28.1	13.0	27.0	17.6	26.5	14.2
15	22.7	14.4	28.0	11.0	28.2	11.2	26.0	14.9	26.5	15.1
16	24.7	14.6	29.3	9.5	21.4	12.1	28.8	14.0	28.6	8.6
17	25.5	15.0	28.0	6.4	23.3	11.4	29.1	14.1	29.6	11.4
18	26.5	18.2	30.6	12.8	24.1	14.2	31.2	18.0	32.5	14.0
19	26.6	17.4	30.4	10.0	24.0	16.0	30.6	18.2	31.4	12.0
20	27.0	16.4	30.2	8.0	24.5	15.2	31.4	17.0	33.2	11.4
21	24.8	19.2	30.5	8.0	25.2	15.0	32.4	17.3	28.5	14.0
22	28.5	17.4	32.3	11.0	26.0	15.4	33.0	15.3	32.1	15.2
23	28.6	17.0	32.0	12.0	24.0	14.2	32.0	18.0	31.7	14.2
24	26.6	16.7	30.0	13.2	22.0	13.6	30.7	19.5	31.2	10.5
25	27.0	17.2	30.4	9.5	23.8	13.2	32.5	19.2	30.5	9.9
26	26.0	16.2	31.1	5.1	25.2	15.4	31.0	14.4	31.2	8.0
27	26.3	17.2	31.4	7.5	23.7	15.1	30.0	18.0	29.4	10.4
28	23.3	13.4	26.4	13.0	19.1	14.4	28.4	18.0	27.9	13.5
29	22.8	13.2	28.0	6.6	21.7	11.0	29.2	12.7	27.2	10.5
30	20.4	14.2	28.0	7.5	16.5	11.0	26.5	14.0	27.7	10.6
31	24.0	13.4	26.0	6.6	21.2	10.5	28.0	12.1	29.5	11.5
MEANS	25.9	16.1	30.1	11.2	23.7	14.3	31.0	16.9	30.1	12.9
NORMAL	....	....	31.6	10.8	....	....	31.6	17.0	....	....
HIGHEST	30.6	23.0	41.3	24.4	32.1	23.0	41.4	26.4	40.3	24.9
DAY	21st	17th	3&4	7th	2nd	8th	2nd	12th	1&2	2nd
YEAR	1962	1964	1952	1969	1969	1960	1953	1970	1969	1969
LOWEST	14.8	6.2	16.7	0.0	14.1	4.6	10.2	1.1	20.0	0.8
DAY	12th	31st	30th	25th	29th	30th	27th	29th	30th	31st
YEAR	1967	1969	1953	1947	1969	1969	1965	1946	1969	1969

OCTOBER 1970. TABLE 2b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	RUTBAH		HABBANIYA		BAGHDAD		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	25.4	12.9	29.0	21.5	32.2	19.5	35.6	23.6
2	28.4	10.5	30.0	13.3	33.1	14.4	34.2	19.0
3	33.0	14.5	34.2	16.5	36.0	14.0	37.0	19.5
4	30.0	13.6	34.5	17.0	36.4	14.9	37.8	21.2
5	34.5	11.3	34.5	17.0	35.3	10.0	35.7	20.0
6	27.4	15.0	32.0	17.0	34.8	14.3	37.0	19.8
7	28.6	10.3	32.0	15.0	31.1	13.5	33.0	20.4
8	28.6	9.1	29.0	13.5	30.0	10.6	31.2	16.2
9	27.2	9.0	30.1	12.5	30.0	10.3	31.5	14.6
10	28.3	9.0	32.0	12.0	32.4	10.5	35.6	17.0
11	32.0	14.5	37.0	14.0	36.1	15.4	38.0	18.4
12	32.3	19.8	39.0	21.6	39.3	21.2	38.0	18.0
13	24.6	17.1	35.0	22.5	36.5	23.0	38.0	20.5
14	25.5	12.2	27.7	16.5	28.0	15.0	30.4	20.6
15	23.0	13.4	27.0	15.0	28.5	13.2	30.6	17.0
16	28.6	8.6	27.5	13.0	29.2	10.5	30.3	17.5
17	29.6	14.2	30.5	13.0	30.7	10.1	32.5	13.4
18	27.8	10.0	32.5	14.5	33.8	13.0	36.0	18.2
19	29.5	9.2	32.0	15.0	33.0	12.5	34.0	17.6
20	31.5	11.0	32.5	14.5	32.0	12.1	33.7	17.0
21	29.4	11.4	30.0	15.4	31.0	11.8	34.0	18.0
22	30.3	10.4	31.0	15.0	31.6	14.6	31.0	18.0
23	29.0	11.5	31.6	15.0	33.7	15.5	33.3	15.0
24	29.5	13.0	29.0	14.4	31.8	13.0	32.2	14.4
25	30.6	9.9	30.2	14.4	31.6	12.2	32.5	13.3
26	31.5	14.0	30.0	11.0	31.4	9.5	34.2	14.4
27	26.3	12.7	33.0	15.0	32.6	10.2	33.0	15.6
28	23.0	11.5	30.0	10.0	32.1	16.0	33.5	14.3
29	24.2	7.1	28.5	14.0	29.0	14.3	34.5	13.5
30	25.6	14.6	27.5	14.0	30.0	11.3	33.6	14.0
31	26.2	10.6	30.0	15.6	30.7	13.5	34.0	14.5
MEANS	28.5	12.0	31.3	15.4	32.7	13.9	34.1	17.3
NORMAL	30.0	12.6	33.5	16.1	33.9	16.2	35.1	17.2
HIGHEST	40.5	24.5	42.2	25.7	42.0	25.0	43.9	26.7
DAY	1st	1st	2nd	7th	2nd	1st	3rd	2nd
YEAR	1969	1969	1953	1969	1969	1951	1947	1951
LOWEST	15.5	0.6	20.0	5.6	20.0	3.5	19.0	6.7
DAY	28th	19th	28th	29th	14th	31st	29th	15th
YEAR	1965	1948	1965	1946	1948	1969	1965	1948

OCTOBER 1970. TABLE 1c.

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	33.2	21.8	33.2	20.3	37.0	23.2	38.0	21.4
2	33.5	17.3	32.5	18.0	35.0	19.3	35.4	19.0
3	35.2	18.0	35.6	15.6	37.6	18.0	36.9	20.2
4	36.8	20.5	36.5	21.0	38.6	20.5	38.2	20.5
5	34.6	19.7	34.7	18.3	36.0	19.4	36.0	18.6
6	36.6	20.5	35.9	18.6	38.0	20.0	36.0	17.8
7	31.9	18.2	32.0	18.1	33.7	20.6	34.4	19.7
8	30.4	16.0	30.4	14.0	33.1	16.7	33.3	16.5
9	30.3	14.8	30.6	14.6	32.3	16.8	33.0	16.7
10	34.6	15.2	33.7	16.4	34.6	18.5	37.5	17.8
11	38.4	20.5	38.0	19.7	39.3	22.7	39.0	17.2
12	39.0	21.2	37.5	20.2	37.5	21.8	38.8	19.2
13	38.4	21.4	39.4	22.6	39.5	24.4	40.0	21.3
14	29.4	20.9	29.1	19.0	31.5	23.2	32.7	24.8
15	30.4	16.0	30.5	13.3	31.7	15.0	31.6	17.2
16	29.2	14.8	29.4	13.6	30.5	15.8	31.2	15.7
17	31.4	14.6	31.7	14.2	32.2	13.2	32.1	12.5
18	33.8	16.0	34.5	18.8	35.0	19.0	35.5	15.2
19	33.4	18.4	33.7	14.1	35.0	15.6	35.0	17.5
20	32.8	17.[illegible]	32.6	14.4	34.0	16.4	33.5	14.7
21	32.3	16.4	32.4	15.4	34.5	17.9	33.0	17.2
22	31.8	17.2	30.8	15.2	30.7	17.5	31.0	18.0
23	31.8	19.4	32.2	16.8	33.2	17.0	31.7	16.3
24	31.4	17.2	31.5	14.9	32.8	14.6	32.8	13.7
25	30.9	16.4	31.0	13.5	31.7	13.0	31.7	14.1
26	31.6	16.0	32.1	12.6	33.5	13.0	33.5	13.8
27	33.2	14.2	32.3	11.5	32.5	15.0	34.2	15.3
28	33.2	16.0	33.6	14.6	33.5	16.5	34.3	14.4
29	29.9	16.8	30.8	16.0	33.8	15.5	32.2	15.1
30	30.6	15.0	31.3	13.2	33.4	13.9	33.4	15.8
31	30.8	15.4	31.7	14.0	33.5	15.2	33.1	14.4
MEANS	32.9	17.5	32.9	16.3	34.4	17.8	34.5	17.2
NORMAL	....	....	34.6	15.1	35.6	16.5	34.8	17.7
HIGHEST	43.0	25.4	43.9	25.0	43.9	26.7	45.6	26.6
DAY	2nd	3rd	2nd	2nd	1st	3rd	1st	23rd
YEAR	1969	1969	1947	1969	1951	1940	1951	1963
LOWEST	22.8	7.0	23.6	2.8	19.0	7.8	21.6	6.1
DAY	28th	31st	29th	10th	29th	30th	27th	6th
YEAR	1965	1969	1965	1948	1965	1948	1965	1941

DRY - BULB TEMPERATURE(°C)	MONTHLY MEANS						TIME G. M. T.		
STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	19.2	19.3	20.6	23.8	24.9	23.7	21.2	20.2	21.5
MOSUL	15.6	14.[illegible]	19.1	27.1	29.[illegible]	25.2	2[illegible].1	17.0	20.9
SALAHADDIN	15.1	14.[illegible]	19.2	22.6	22.5	19.6	16.0	15.5	1[illegible].2
KIRKUK	19.2	1[illegible].0	23.4	2[illegible].1	30.1	26.[illegible]	22.4	20.4	23.6
ANAH	15.1	14.1	1[illegible].5	26.5	29.6	26.[illegible]	2[illegible].6	17.[illegible]	21.[illegible]
RUTBAH	14.6	12.9	19.4	25.9	28.[illegible]	25.4	2[illegible].3	16.7	2[illegible].4
HABBANIYA	17.3	16.1	22.3	29.2	30.6	25.8	21.7	19.4	22.8
BAGHDAD	16.1	14.6	22.[illegible]	3[illegible].2	31.8	27.0	2[illegible].3	1[illegible].[illegible]	22.6
HAI	19.6	17.0	24.6	32.4	33.2	27.0	23.[illegible]	21.3	25.1
NAJAF	19.8	1[illegible].1	23.7	3[illegible].5	32.6	2[illegible].7	23.9	21.4	24.8
DIWANIYA	1[illegible].9	17.[illegible]	24.9	3[illegible].9	32.5	2[illegible].2	23.4	2[illegible].[illegible]	24.5
NASIRIYA	19.9	1[illegible].3	24.[illegible]	32.5	34.1	29.4	24.4	21.6	25.6
BASRAH	19.9	1[illegible].[illegible]	24.7	32.0	34.[illegible]	2[illegible].0	24.3	21.5	25.3

TABLE 3. WET - BULB TEMPERATURE(°C)									
SINJAR	11.6	11.2	12.3	13.9	14.2	13.7	12.4	12.1	12.7
MOSUL	10.4	9.7	12.3	1[illegible].5	17.1	15.7	13.2	11.7	13.3
SALAHADDIN	9.6	9.6	11.8	13.4	13.2	11.[illegible]	9.9	9.7	11.0
KIRKUK	11.5	1[illegible].7	13.7	15.9	16.0	14.6	13.2	12.0	13.5
ANAH	10.2	9.5	12.2	15.7	17.0	16.1	13.2	11.2	13.1
RUTBAH	9.6	8.6	12.3	15.2	16.1	15.0	12.3	10.8	12.5
HABBANIYA	13.1	12.1	16.3	18.6	19.1	17.3	15.5	14.3	15.8
BAGHDAD	10.5	9.6	13.9	16.9	17.2	15.9	12.9	11.5	13.6
HAI	12.8	11.8	15.8	18.7	18.9	17.7	15.1	13.8	15.6
NAJAF	12.4	11.9	14.4	16.0	17.3	16.1	14.5	13.1	14.6
DIWANIYA	13.4	12.2	16.6	19.7	2[illegible].1	18.5	15.7	14.5	16.3
NASIRIYA	12.7	11.9	15.9	17.[illegible]	1[illegible].2	17.6	15.3	13.8	15.3
BASRAH	15.4	14.2	17.9	20.7	21.4	19.4	17.9	16.2	17.9

TABLE 4. VAPOUR PRESSURE (MBS.)									
SINJAR	7.6	7.4	7.7	8.9	7.7	7.9	7.4	7.7	7.7
MOSUL	8.4	8.5	9.0	1[illegible].5	1[illegible].1	1[illegible].2	9.4	9.2	9.4
SALAHADDIN	7.6	7.[illegible]	8.0	8.1	7.8	7.7	7.4	7.4	7.7
KIRKUK	7.6	7.1	8.0	7.6	6.9	7.7	7.7	7.5	7.5
ANAH	8.6	8.4	9.2	9.3	9.3	1[illegible].0	9.3	8.8	9.1
RUTBAH	8.0	7.9	8.8	8.8	8.8	8.7	8.[illegible]	8.2	8.4
HABBANIYA	11.9	1[illegible].8	13.9	12.8	13.2	13.1	12.9	12.3	12.6
BAGHDAD	8.3	8.8	8.8	8.6	8.0	9.2	9.0	8.4	8.5
HAI	9.3	9.1	1[illegible].9	1[illegible].7	1[illegible].5	12.2	1[illegible].2	9.8	1[illegible].3
NAJAF	8.6	9.1	9.1	8.3	7.6	8.3	9.0	8.6	8.5
DIWANIYA	11.0	1[illegible].4	13.1	14.0	13.7	13.7	11.8	11.5	12.4
NASIRIYA	9.1	8.9	9.4	8.7	8.3	1[illegible].7	1[illegible].2	9.6	9.4
BASRAH	14.1	13.2	15.1	15.5	15.5	15.8	15.5	14.3	14.9

TABLE 5. DEW - POINT TEMPERATURE(°C)									
SINJAR	2.7	2.5	2.8	3.4	2.8	3.9	2.3	2.8	2.8
MOSUL	4.1	4.3	5.1	7.3	6.9	6.6	6.0	5.5	5.7
SALAHADDIN	2.8	3.2	3.5	3.7	3.1	3.0	2.5	2.6	3.1
KIRKUK	2.6	1.6	3.2	2.4	1.2	2.7	2.8	2.4	2.4
ANAH	4.2	4.2	5.4	5.5	5.7	6.7	5.7	4.8	5.3
RUTBAH	3.3	3.2	4.9	4.8	4.9	4.6	3.4	3.9	4.1
HABBANIYA	9.1	8.1	11.4	9.9	10.1	1[illegible].5	1[illegible].4	9.8	9.9
BAGHDAD	4.0	3.5	4.8	4.1	3.5	5.6	5.3	4.3	4.4
HAI	5.8	5.4	8.0	7.6	7.2	9.6	7.1	6.5	7.2
NAJAF	4.5	5.2	5.1	3.7	2.8	3.9	5.1	4.4	4.3
DIWANIYA	8.2	7.4	1[illegible].5	11.6	11.3	11.7	9.3	8.9	9.9
NASIRIYA	5.3	4.8	5.5	4.4	4.0	7.5	7.0	6.1	5.6
BASRAH	11.6	1[illegible].7	12.7	13.3	13.3	13.7	13.4	12.0	12.6

OCTOBER 1970. TABLE 6.

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	35	38	32	27	25	27	30	33	31
MOSUL	49	52	41	30	26	33	41	49	40
SALAHADDIN	45	47	37	30	29	35	42	43	39
KIRKUK	35	36	29	20	17	24	30	32	28
ANAH	50	53	43	28	23	29	39	46	39
RUTBAH	48	53	40	27	24	27	34	43	37
HABBANIYA	59	61	52	31	30	40	52	55	48
BAGHDAD	46	48	32	20	17	26	38	42	34
HAI	41	45	35	22	21	33	35	40	34
NAJAF	37	44	31	19	16	21	31	34	29
DIWANIYA	50	54	44	31	28	35	41	47	41
NASIRIYA	39	43	30	18	16	26	35	37	31
BASRAH	60	64	48	33	29	42	52	56	48

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

SINJAR	14.7	14.8	15.6	14.5	12.9	12.7	14.3	14.9	1014.3
MOSUL	14.9	15.5	16.5	15.0	12.8	13.2	14.6	15.1	1014.7
SALAHADDIN	15.5	15.7	14.6	13.3	14.9	13.2	15.7	15.8	1014.5
KIRKUK	14.0	14.5	14.9	13.6	12.1	12.7	14.1	14.4	1013.8
ANAH	15.0	15.7	15.7	15.5	13.6	13.6	15.1	15.4	1015.1
RUTBAH	13.4	14.2	14.9	13.9	12.7	12.9	13.6	13.7	1013.7
HABBANIYA	13.3	13.7	14.7	13.7	12.6	12.4	13.4	13.5	1013.8
BAGHDAD	12.7	13.2	14.6	13.9	12.3	12.2	13.3	13.4	1013.2
HAI	11.5	11.9	13.4	12.7	11.5	11.4	12.2	12.1	1012.1
NAJAF	13.0	13.5	15.1	14.2	12.5	12.6	13.8	13.6	1013.5
DIWANIYA	12.4	13.0	14.2	13.4	11.8	11.9	12.9	13.0	1012.8
NASIRIYA	11.8	12.0	13.5	12.6	11.0	11.1	12.1	12.0	1012.0
BASRAH	11.2	11.7	13.2	12.4	11.1	11.2	12.0	12.0	1011.9

TABLE 8. TOTAL AMOUNT CLOUD (OKTAS)

SINJAR	0.9	1.5	1.7	1.6	2.2	1.0	0.7	0.7	1.4
MOSUL	1.0	1.4	1.6	1.8	1.4	1.7	0.9	0.7	1.3
SALAHADDIN	1.3	1.4	2.4	2.4	2.6	2.8	2.0	1.6	2.1
KIRKUK	0.6	1.4	1.4	1.5	1.5	1.6	1.2	0.9	1.3
ANAH	0.4	1.3	1.2	1.5	1.7	1.7	1.1	0.9	1.2
RUTBAH	0.9	1.0	1.1	0.9	1.2	1.5	1.1	1.0	1.1
HABBANIYA	0.7	1.0	1.0	1.0	1.2	1.3	0.8	0.8	0.9
BAGHDAD	0.6	1.0	1.1	1.1	1.4	1.8	1.0	0.8	1.1
HAI	0.3	0.6	0.5	0.5	1.0	0.7	0.5	0.5	0.6
NAJAF	0.8	1.1	1.0	0.7	1.1	1.5	1.5	1.1	1.1
DIWANIYA	0.3	0.6	0.7	0.6	0.8	1.0	0.5	0.4	0.6
NASIRIYA	0.0	0.5	0.3	0.5	0.8	1.1	0.4	0.6	0.5
BASRAH	0.2	0.3	0.2	0.3	0.5	0.6	0.5	0.1	0.3

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

SINJAR	0.8	1.1	1.0	1.0	1.2	0.6	0.4	0.5	0.8
MOSUL	0.6	1.1	1.1	1.3	2.0	1.1	0.7	0.5	1.1
SALAHADDIN	0.7	1.0	1.6	1.5	1.8	1.8	1.7	1.2	1.4
KIRKUK	0.4	0.9	0.9	0.9	1.0	0.8	0.9	0.6	0.8
ANAH	0.1	0.6	0.5	1.0	0.4	0.9	0.5	0.3	0.5
RUTBAH	0.5	0.4	0.3	0.4	0.5	0.6	0.5	0.5	0.5
HABBANIYA	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
BAGHDAD	0.1	0.1	0.0	0.3	0.1	0.2	0.1	0.2	0.1
HAI	0.1	0.2	0.2	0.0	0.2	0.1	0.1	0.2	0.0
NAJAF	0.3	0.4	0.4	0.2	0.2	0.5	0.7	0.6	0.4
DIWANIYA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NASIRIYA	0.0	0.1	0.0	0.0	0.4	0.5	0.2	0.0	0.2
BASRAH	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0

OCTOBER 1970. TABLE 10a.

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

OCTOBER 1970. TABLE 10c.

SURFACE - WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND-SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	30 knots	340	0000	1 st
MOSUL	26	200	1200	13th
SALAHADDIN	30	180	1200	13th
KIRKUK	30	150	0900	13th
ANAH	38	080	0900	11th
RUTBAH	30	160	0900	27th
HABBANIYA	25	150	1200	11th
BAGHDAD	25	120	0900	13th
HAI	18	360	0900	20th
NAJAF	25	360	0000	29th
DIWANIYA	26	170	1200	11th
NASIRIYA	25	320	1200	22nd
BASRAH	22	320	0900	22nd

OCTOBER 1970. TABLE 12a.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTBAH	HABBANIYA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10		tr.			tr.	tr.	
11			tr.		tr.		
12	tr.				tr.	0.8	
13		tr.	tr.	tr.		tr.	
14			2.4	2.4		tr.	
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28		tr.	0.6	tr.			tr.
29	1.0						
30		0.6	1.7				
31							
TOTAL	1.0	0.6	2.3	2.4	tr.	0.8	tr.
NORMAL	11.1	7.1	5.4	3.3	4.6	5.0	1.7

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

OCTOBER 1970. TABLE 12b. (10)

DAILY PRECIPITATION(MILLIMETERS) tr. < 0.05mm

DAYS	BAGHDAD	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	tr.	3.4	tr.	0.4	tr.	tr.
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
TOTAL	tr.	3.4	tr.	0.4	tr.	tr.
NORMAL	3.0	1.8	0.6	1.3	1.3	0.8

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	22.3 mms.	24th	1966
HAI	10.8	28th	1965
NAJAF	23.5	24th	1966
DIWANIYA	16.2	24th	1966
NASIRIYA	29.6	28th	1965
BASRAH	4.4	27th	1965

OCTOBER 1970. TABLE 12c. (11)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05MM

DAYS	HAD-AR	ZA-KHO	HAMAM ALIL	AQ-RA	BASHI-QAH	QUAISI-NJAQ	MAN-DILI	FAT-HA	DO-KAN	HAWI-JAH	DERB-INDI KHAN	TEL-AFAR
1												
2												
3												
4												
5												
6												
7												
8												
9												
10											tr.	
11												
12												
13							3.0				tr.	
14		10.9				tr.		tr.	2.0	4.6	tr.	
15	4.0											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27	1.0											
28				tr.								2.0
29												
30			tr.		1.0							
31												
TOTAL	5.0	10.9	tr.	tr.	1.0	tr.	3.0	tr.	2.0	4.6	tr.	2.0

OCTOBER 1970 TABLE 13a.

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

	MOSUL			KIRKUK			ANAH	HABBANIYA			BAGHDAD		
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M
1	16.0	27.0	24.8	16.0	26.6	28.6	15.8	19.6	30.8	30.8	14.6	31.8	31.4
2	9 .5	28.0	27.5	12.8	25.7	28.5	10.7	12.2	30.0	30.7	10.8	30.8	31.3
3	9 .2	27.3	27.5	15.0	25.3	28.5	12.0	14.5	29.5	30.5	10.6	28.5	31.2
4	9 .1	28.2	27.5	16.9	25.5	28.4	10.9	14.5	29.4	30.5	11.3	29.0	31.3
5	9 .0	24.1	27.4	13.8	25.8	28.2	13.2	13.4	29.3	30.5	14.3	29.0	31.0
6	9 .0	24.0	27.4	14.9	25.9	28.4	13.4	14.5	29.0	30.2	10.9	29.	31.0
7	5 .6	22.4	27.1	12.9	25.9	28.3	13.2	13.4	29.0	30.3	10.5	29.9	31.0
8	1 .8	20.5	27.0	10.9	25.0	28.2	8 .3	11.7	28.5	30.0	7 .0	27.5	30.8
9	1 .5	25.5	26.4	10.0	24.4	28.2	8 .0	11.0	26.5	29.5	7 .0	26.9	30.8
10	0 .5	19.9	27.0	10.4	24.0	27.9	6 .1	10.0	27.5	30.0	6 .3	26.7	30.6
11	10.0	21.4	26.5	17.9	23.3	27.8	20.6	13.2	27.4	29.7	11.3	28.0	30.5
12	14.2	23.0	26.4	23.2	23.3	27.8	17.5	17.8	28.0	29.6	16.0	28.7	30.5
13	12.2	24.6	26.9	19.2	23.6	28.1	18.0	20.5	28.5	29.5	19.5	29.2	30.0
14	10.0	22.8	26.0	14.9	23.3	27.6	11.6	14.0	28.3	29.5	10.6	29.1	30.2
15	9 .5	26.6	26.0	11.5	22.7	27.3	13.0	13.8	28.0	29.3	10.0	28.5	30.0
16	9 .2	20.2	25.9	12.0	21.9	27.2	6 .0	10.5	28.0	29.0	6 .4	27.3	30.0
17	9 .0	19.3	25.1	11.5	21.5	27.2	10.6	10.0	27.0	29.3	6 .0	27.6	30.0
18	9 .0	21.0	25.9	15.6	21.2	27.1	12.8	11.1	26.8	29.0	10.4	27.0	29.8
19	3 .9	20.4	25.6	15.7	21.4	26.8	11.4	12.2	26.8	29.0	9 .3	27.3	29.8
20	4 .2	20.4	25.4	13.6	21.5	26.6	8 .6	10.0	26.6	29.0	8 .8	27.0	29.6
21	5 .0	20.6	25.4	15.0	21.6	26.6	14.7	11.7	26.5	28.8	9 .8	26.8	29.7
22	5 .6	20.8	25.4	11.9	21.6	26.6	13.2	13.0	26.3	28.8	12.0	27.8	29.5
23	5 .8	20.5	25.0	14.0	21.8	26.4	13.4	13.8	26.0	28.5	11.8	26.5	29.4
24	8 .0	21.2	25.1	17.5	22.1	26.2	10.1	13.1	26.0	28.5	10.0	26.4	29.2
25	3 .6	20.0	24.8	14.2	22.1	26.3	9 .6	11.5	25.8	28.4	7 .5	26.1	29.2
26	1 .5	20.5	24.7	13.0	21.6	26.2	8 .6	8 .4	25.5	28.3	6 .1	25.7	29.0
27	1 .0	18.9	23.0	15.3	21.6	26.1	8 .0	11.0	25.2	28.0	6 .6	25.7	29.0
28	5 .0	19.5	24.5	15.5	21.9	26.0	12.1	16.7	25.4	28.0	12.4	25.8	28.8
29	1 .0	18.4	24.5	10.0	21.5	26.1	8 .3	11.1	25.2	28.0	10.4	25.8	28.7
30	0 .7	18.0	24.2	10.9	21.1	26.0	7 .6	10.3	25.0	27.8	7 .4	25.7	28.6
31	0 .5	17.6	24.1	10.1	21.1	25.9	9 .8	12.8	25.0	27.8	8 .8	25.4	28.5
MEANS	6 .5	22.0	25.9	14.1	23.1	27.3	11.5	13.3	27.3	29.3	10.1	27.6	30.0

OCTOBER 1970 TABLE 13b.

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

	HAI	NAJAF		DIWANIYA			NASIRIYA			BASRAH
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	22.6	28.4	30.5	17.7	29.2	28.6	18.5	33.0	31.8	16.1
2	18.3	26.4	30.4	15.6	27.0	27.8	15.9	32.2	31.8	xxx
3	18.0	26.0	30.2	13.9	27.3	28.8	15.3	31.2	31.7	17.2
4	17.8	26.7	30.0	17.0	27.4	28.6	16.7	31.1	31.9	16.1
5	18.2	26.8	29.0	15.4	22.7	28.5	16.2	31.0	31.8	14.1
6	18.5	27.0	29.7	15.5	27.5	28.3	16.5	30.7	31.6	12.9
7	19.0	27.2	29.6	14.6	27.4	28.4	15.6	31.0	31.6	12.8
8	16.0	25.8	29.4	11.7	26.8	28.6	11.8	30.2	31.4	12.5
9	13.2	25.2	29.4	10.2	26.4	28.2	10.5	29.7	31.4	11.4
10	15.0	24.9	29.2	13.0	26.1	28.4	14.1	29.3	31.2	13.5
11	16.7	25.8	29.0	16.9	26.5	28.2	19.0	29.0	31.3	11.7
12	18.4	26.7	28.8	17.1	26.8	28.1	17.0	30.2	31.1	12.8
13	19.4	27.0	28.8	20.7	27.2	28.3	21.5	30.5	31.0	18.4
14	19.4	27.3	28.8	19.2	27.2	28.0	20.1	30.7	30.8	20.6
15	15.9	25.6	28.7	10.0	26.5	28.0	9.3	29.8	30.4	11.5
16	16.5	24.8	28.8	11.0	26.2	28.0	11.8	29.0	30.6	10.0
17	12.6	24.2	28.5	11.4	25.7	27.8	9.4	27.3	30.7	7.2
18	14.5	24.5	28.4	16.4	25.7	27.8	10.9	28.5	30.7	10.2
19	16.0	25.0	28.1	10.4	25.9	28.0	10.0	28.6	30.6	11.6
20	15.4	24.0	28.0	11.1	25.7	27.9	11.0	28.5	30.4	9.0
21	16.6	24.4	27.8	12.6	25.6	27.6	14.0	28.3	30.4	13.1
22	16.8	24.4	27.8	13.2	25.0	27.5	15.5	28.0	30.4	15.1
23	14.9	24.6	27.9	15.1	25.0	27.5	15.0	27.5	30.3	xxx
24	14.0	24.2	27.6	15.4	25.2	27.4	12.3	27.0	30.1	9.6
25	12.3	23.8	27.5	11.5	24.7	27.3	10.0	26.7	30.0	9.0
26	11.0	23.4	27.4	9.4	24.4	27.4	5.7	26.4	29.9	7.5
27	11.8	23.2	27.2	7.6	24.1	27.2	7.5	26.2	29.8	8.6
28	12.6	23.7	27.2	9.5	24.0	27.0	11.0	26.3	29.7	7.9
29	11.5	24.0	27.2	13.6	24.3	27.0	6.9	26.4	29.5	10.2
30	11.4	23.3	27.0	9.7	24.1	26.6	7.5	26.3	29.5	8.8
31	11.1	23.0	26.8	10.6	23.9	26.5	7.0	25.7	29.3	8.0
MEANS	15.7	25.2	28.1	13.5	25.9	27.9	13.0	28.9	30.7	12.0

OCTOBER 1970. TABLE 14. (14)

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

DATS	SIN-JAR	MO-SUL	KIR-KUK	ANAH	BAGH-DAD	NAJAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	9	5	8	9	10	11	9	10	7
2	9	5	7	7	5	10	9	9	7
3	8	6	7	5	10	9	9	10	7
4	8	5	7	6	11	9	8	9	8
5	9	9	8	6	9	10	9	10	6
6	10	6	7	10	11	8	6	9	7
7	8	5	6	11	10	7	6	9	4
8	7	9	6	6	10	8	8	7	7
9	8	8	7	6	9	7	7	9	7
10	9	6	4	6	5	8	7	7	5
11	9	3	7	6	10	10	7	7	4
12	9	4	9	10	9	7	8	8	7
13	7	5	9	7	10	9	8.4	10	4
14	5	3	4.4	9	7	5	6	7	8
15	5	4	4	6	6	6	6	7	5
16	6	5	4	5	9	5	4	6	6
17	7	3	5	5	8	5	4	7	4
18	6	5	7	5	6	6	5	5	4
19	6	4	6	4	8	7	4	4	5
20	6	5	6	5	8	7	5	6	5
21	6	4	6	5	9	6	7	9	3
22	9	6	7	7	10	8	6	8	5
23	8	6	8	7	9	8	5	6	4
24	7	5	7	6	10	7	6	7	4
25	7	6	6	6	8	7	6	6	4
26	8	6	5	6	9	7	5	5	3
27	8	6	7	5	7	6	4	5	4
28	6	6	5	6	7	6	4	5	4
29	8	5	4	6	8	6	5	5	4
30	1	5.6	6	5	7	6	5	4	3
31	5	3	5	5	7	6	5	3	3
TOTAL	224	163.6	194.4	198	262	227	193.4	219	158
MEANS	7.5	5.3	6.3	6.4	8.5	7.3	6.2	7.1	5.1

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	1	0	0	0	0	0	1	4	0	0	0	19	0	-	-	--	-
MOSUL	0	0	0	0	0	0	3	3	1	2	0	27	1	278.2	11.6	12nd	0
SALAHADDIN	2	0	1	1	0	0	1	2	1	0	0	17	1	-	-	-	-
KIRKUK	1	0	1	1	0	0	10	3	7	1	0	22	0	-	-	-	-
ANAH	0	0	0	1	0	0	1	7	1	3	0	22	1	-	-	-	-
RUTBAH	1	0	0	1	0	0	0	6	0	0	0	22	0	-	-	-	-
HABBANIYA	0	0	0	0	0	0	3	7	5	3	0	22	0	314.6	11.7	5th	0
BAGHDAD	0	0	0	0	0	0	13	8	5	0	0	22	0	294.7	10.7	2nd	0
HAI	1	0	0	1	0	0	1	2	2	0	0	26	0	-	-	-	-
NAJAF	0	0	0	0	0	0	0	4	1	0	0	22	0	-	-	-	-
DIWANIYA	1	0	0	0	0	0	7	6	0	0	0	25	0	-	-	-	-
NASIRIYA	0	0	0	0	0	0	2	12	15	1	0	25	0	288.9	10.6	16th	0
BASRAH	0	0	0	0	1	2	3	7	8	0	0	29	0	311.1	10.9	17th	0

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

STATION	PRESSURE AT MSL - 1970- mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % - 1970 HIGHEST %	TIME GMT.	DAY	LOWEST %	TIME GMT.	DAY
SINJAR	1022.3	1800	31st	1003.3	1200	13th	1028.3	0600	28th	1962	1003.3	1200	13th	1970	69	0600	14th	12	1200	7th
MOSUL	1023.4	0600	31st	999.9	1200	23rd	1026.0	0600	26th	1950	999.9	1200	23rd	1970	88	0300	31st	15	0900	3rd
SALAHADDIN	1022.9	1800	31st	1003.0	1200	13th	1023.6	0300	27th	1967	1000.5	1500	20th	1969	76	1500	30th	15	1200	26th
KIRKUK	1022.2	0600	31st	1004.5	1200	13th	1024.4	0300	29th	1947	1002.5	1200	7th	1950	82	0600	15th	5	1200	7th
ANAH	1023.7	0600	31st	1005.7	0300	13th	1023.7	0600	31st	1970	1003.0	0600	13th	1969	77	2100	1st	12	1200	26th
RUTBAH	1022.7	0600	29th	1005.6	1800	12th	1027.3	0000	15th	1948	1000.0	1200	8th	1962	88	0300	14th	7	0900	26th
HABBANIYA	1021.1	0600	29th	1006.1	0900	13th	1022.3	0600	28th	1965	1002.8	1200	19th	1969	84	1800	30th	10	1200	12th
BAGHDAD	1021.1	0600	31st	1005.8	1200	13th	1023.4	0300	29th	1947	1003.8	1500	11th	1958	72	0300	17th	4	1200	2nd
HAI	1018.8	0900	31st	1005.2	1200	5th	1022.4	0600	29th	1947	1002.5	1800	19th	1969	64	1200	13th	9	0900	3rd
NAJAF	1020.8	0600	31st	1006.7	1200	13th	1021.6	0900	15th	1967	1002.1	1200	19th	1969	63	0300	16th	7	0900	2nd
DIWANIYA	1019.8	0600	31st	1006.5	1200	5th	1022.7	0600	29th	1947	1002.4	1200	19th	1969	70	0300	23rd	16	1200	28th
NASIRIYA	1018.6	0600	31st	1002.3	0000	22nd	1022.5	0600	29th	1947	1002.2	1500	19th	1969	68	0300	29th	5	0900	3rd
BASRAH	1019.2	0600	29th	1004.9	1200	5th	1019.2	0600	29th	1970	1002.9	0000	1st	1954	97	0300	12th	19	1200	18th

OCTOBER 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	30	108	153	51	30	19.9	25.3	17.2	30	6.3	28	360	06	340	22	000	00
850	30	1517	1566	1481	30	17.4	23.2	10.2	30	-1.8	29	290	10	300	27	160	02
700	30	3142	3202	3091	30	6.8	18.7	-0.8	30	-11.5	29	280	18	260	33	260	06
500	29	5812	5909	5741	29	-11.3	-6.5	-16.9	29	-28.0	27	260	29	290	50	190	06
300	29	9557	9719	9415	29	-37.3	-31.2	-42.4	29	-52.1	26	260	53	270	87	250	22
200	29	12249	12575	12086	29	-54.0	-48.8	-58.9	29	-66.9	25	260	64	260	108	260	31
150	29	14050	14397	13891	29	-61.9	-57.2	-65.5	25	-72.8	25	260	54	270	102	270	32
100	29	16513	16837	16372	29	-69.0	-64.5	-73.5	17	-77.5	24	260	41	260	105	290	22
70	29	18660	18929	18523	29	-66.0	-62.5	-71.9	19	-76.1	24	250	22	210	50	270	08

N = Total number of observations.

OCTOBER 1970. TABLE 17.

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

STATION: BAGHDAD RADIOSONDE STATION. TIME 0000 GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000 -360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT " GPM"	PRESSURE MB.	TEMPERATURE °C				
0000	29	4452	623	-17.0	4850	707	-2.1	3020	558	-25.9	29	14961	135	-66.7	17740	210	-55.3	11780	86	-74.8	10400	260	250	130

N = Total number of observations.

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية

مديرية المناخ

بغداد

تقرير المناخ الشهري

المجلد : ٣٣

العدد : ١١

الشهر : تشرين الثاني

السنة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

Volume : 33

No. : 11

Month : NOVEMBER

Year : 1 9 7 0

NOVEMBER 1970.

GENERAL SITIUATION : Wet, hot, and unstable

MAIN FEATURE : Series of depressions and low pressure cells crossed the Country from the western disturbances, most of it were from Senae and Saudi Arabia. Four times from the Meditterranean on 10, 14, 15 and 28th. Once acold front Crossed on 28th. The high pressure inflwence were on 9, 11, 12, 16, 17, 18, 19, 20, 21, 29 & 30. The rest were of the Saudi Arabia and Senae.

PRESSURE : Mean pressure in general was arround normal. The highest pressure reading was 1025.5 mb at Mosul, it is 6.7 mb above normal. The lowest pressure reading was 1004.4 mbs at Sinjar it is 13.5 mb below normal .

TEMPERATURE : Mean temperature in general was above normal by 1.1 °C to 2.9 °C . The highest maximum temperature was 34.6 °C at Basrah, it is 15.3 °C above normal, The lowest minimum temperature was 2.6 °C at Rutba, it is 11.4 °C below normal.

RELATIVE HUMIDITY : THE relative humidity was arround normal .

SURFACE WIND : Surface wind in general was Northwesterly Light, Southerly fresh in the mauntain regions, and South-east to Southwest fresh in the western districts.

PRECIPITATIONS : Widespread hight rainfall total amount is below normal. The highest total rainfall was 26.4 mm at Salaheddin.

OTHER PHENOMENAE : Thunderstorms were widespread .
Dust was scattered in the Central and Southern districts.

Fog reported once at Salaheddin and four times at Basrah.

NOVEMBER 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	24.6	15.0	28.4	8.0	22.4	10.0	29.3	14.5	28.7	9.4
2	26.6	16.0	29.0	7.5	24.0	12.4	31.1	14.9	29.0	10.5
3	26.0	16.4	28.4	11.0	23.5	15.5	27.9	16.0	29.2	13.2
4	26.5	16.7	30.0	11.4	23.4	14.1	32.4	15.7	29.9	9.5
5	27.2	15.0	30.6	8.0	23.	14.3	30.4	16.5	29.5	11.3
6	27.5	16.6	31.2	9.0	23.8	14.0	31.6	16.4	31.2	10.3
7	26.3	15.4	31.1	8.2	22.5	14.2	28.9	15.9	30.6	12.6
8	21.2	15.2	23.0	14.2	14.6	10.8	25.0	16.9	32.1	14.6
9	22.8	15.5	24.6	9.5	18.4	11.0	25.8	11.2	25.7	11.0
10	18.9	14.2	22.6	10.0	15.5	10.5	25.3	13.6	24.8	11.9
11	19.2	11.8	22.4	11.4	15.4	8.2	24.0	14.7	25.2	9.5
12	19.3	10.8	22.6	11.4	15.9	8.2	23.1	12.4	21.3	8.6
13	21.9	10.6	23.5	9.7	18.0	8.0	26.4	13.5	22.4	12.1
14	20.6	16.8	23.6	14.2	18.8	12.4	27.6	17.9	20.1	14.6
15	16.8	11.8	24.2	13.4	17.7	10.5	26.2	17.9	21.4	9.4
16	16.4	10.1	21.2	9.4	15.2	9.4	23.6	11.8	21.2	6.9
17	21.3	11.4	22.3	10.0	16.6	8.0	23.1	10.7	23.2	5.9
18	21.4	11.2	22.5	7.5	16.7	8.2	23.2	9.6	24.5	6.6
19	22.8	11.4	24.0	9.8	18.7	9.0	25.7	11.9	25.5	8.6
20	22.7	11.8	24.4	8.1	18.8	9.0	25.1	10.4	26.2	5.6
21	21.8	14.0	23.0	9.0	20.0	9.2	26.0	8.8	26.0	7.4
22	21.7	12.9	23.3	8.4	20.5	11.4	28.4	11.4	25.4	7.0
23	18.6	14.0	19.2	8.6	18.0	12.4	21.0	13.4	21.0	12.7
24	21.5	13.7	25.5	11.5	19.2	10.5	27.0	14.8	23.6	8.3
25	19.1	13.4	21.6	8.2	17.5	11.2	24.1	13.0	26.2	9.4
26	16.5	13.1	19.1	9.4	14.2	10.5	23.1	12.8	23.2	13.2
27	19.5	11.2	22.6	12.7	15.6	10.6	21.5	15.3	20.4	5.7
28	16.3	10.4	16.4	9.0	14.4	8.6	20.0	13.6	19.9	11.5
29	15.1	7.1	19.4	5.5	13.6	4.0	20.4	8.5	19.3	8.4
30	16.5	8.1	19.1	5.1	12.8	4.2	19.4	7.9	20.1	3.4
MEANS	21.2	13.1	24.0	9.6	18.3	10.3	25.6	13.4	24.9	9.5
NORMAL	....	....	22.2	6.8	....	....	22.6	11.2	....	....
HIGHEST	31.1	21.8	35.0	18.9	24.4	16.3	33.4	22.0	32.1	16.0
DAY	1st	1st	?	8th	4th	3rd	3rd	6th	8th	26th
YEAR	1966	1952	1932	1932	1967	1967	1966	1967	1970	1966
LOWEST	6.4	-2.4	5.1	-4.4	3.3	-3.2	6.6	-2.0	15.2	2.0
DAY	26th	29th	20th	24th	26th	20th	29th	30th	7th	10th
YEAR	1967	1967	1953	1958	1967	1967	1953	1953	1969	1969

NOVEMBER 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	RUTBAH		HABBANIYA		BAGHDAD		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	27.3	[illegible].6	2[illegible].5	14.[illegible]	3[illegible].7	11.6	31.[illegible]	14.5
2	26.5	9.4	29.5	14.3	29.2	12.6	32.[illegible]	16.9
3	27.[illegible]	14.2	3[illegible].5	14.5	3[illegible].[illegible]	11.6	26.2	16.[illegible]
4	27.5	[illegible].[illegible]	31.2	13.5	31.6	12.2	34.2	15.[illegible]
5	27.[illegible]	12.[illegible]	31.6	15.[illegible]	32.4	12.9	32.3	13.5
6	26.8	9.1	28.5	14.5	3[illegible].4	13.6	33.5	18.4
7	2[illegible].5	13.[illegible]	31.6	14.5	31.[illegible]	14.2	33.5	22.6
8	26.2	11.[illegible]	27.[illegible]	15.5	28.2	14.[illegible]	31.2	17.[illegible]
9	24.8	[illegible].6	2[illegible].[illegible]	13.[illegible]	27.7	11.[illegible]	3[illegible].3	15.7
10	22.6	9.4	26.[illegible]	13.5	2[illegible].2	11.6	30.[illegible]	15.5
11	23.[illegible]	7.5	25.[illegible]	12.[illegible]	26.2	1[illegible].7	3[illegible].[illegible]	14.5
12	22.2	6.6	25.5	12.[illegible]	25.7	[illegible].5	29.[illegible]	14.[illegible]
13	21.[illegible]	12.[illegible]	27.[illegible]	13.5	2[illegible].2	14.5	29.2	13.2
14	17.2	12.[illegible]	27.5	16.[illegible]	29.[illegible]	15.5	3[illegible].2	16.3
15	2[illegible].[illegible]	6.3	24.5	14.[illegible]	26.[illegible]	1[illegible].6	27.5	1[illegible].2
16	22.2	6.4	22.[illegible]	1[illegible].5	24.2	9.4	26.3	14.2
17	23.6	5.6	22.6	1[illegible].6	23.9	9.4	26.1	13.3
18	24.4	7.2	23.5	9.6	24.7	[illegible].7	25.3	11.[illegible]
19	23.5	9.5	24.[illegible]	1[illegible].5	26.[illegible]	1[illegible].5	27.[illegible]	13.5
20	22.4	6.5	24.5	9.4	25.9	[illegible].5	2[illegible].4	12.6
21	22.9	7.[illegible]	26.[illegible]	1[illegible].5	26.4	[illegible].[illegible]	29.2	12.4
22	25.5	6.[illegible]	26.1	1[illegible].3	27.4	[illegible].4	2[illegible].[illegible]	12.[illegible]
23	16.3	12.5	24.5	14.[illegible]	25.1	1[illegible].[illegible]	2[illegible].5	15.6
24	22.3	5.3	24.5	1[illegible].6	25.5	7.[illegible]	28.[illegible]	12.[illegible]
25	25.[illegible]	[illegible].3	25.[illegible]	9.[illegible]	26.3	7.3	27.[illegible]	11.5
26	21.5	1[illegible].[illegible]	23.[illegible]	15.[illegible]	24.3	11.2	28.2	12.[illegible]
27	1[illegible].2	4.7	24.[illegible]	12.5	25.2	14.4	22.4	19.[illegible]
28	15.2	5.[illegible]	23.[illegible]	12.[illegible]	22.2	15.6	25.[illegible]	15.5
29	1[illegible].1	2.6	2[illegible].5	[illegible].[illegible]	2[illegible].7	[illegible].2	23.3	12.3
30	19.6	3.7	21.[illegible]	[illegible].[illegible]	22.7	5.4	22.[illegible]	[illegible].1
MEANS	23.[illegible]	[illegible].4	26.[illegible]	12.4	26.9	11.2	2[illegible].7	14.6
NORMAL	21.3	7.4	24.4	1[illegible].1	24.5	1[illegible].6	26.2	11.[illegible]
HIGHEST	35.[illegible]	1[illegible].9	35.[illegible]	21.1	34.[illegible]	22.3	37.2	22.6
DAY	2nd	1st	1st	4th	1st	3rd	3nd	7 th
YEAR	1932	1938	1962	1960	1957	1957	1949	1970
LOWEST	4.6	-6.0	9.4	-3.3	11.1	-3.0	12.2	-0.6
DAY	20th	30th	30th	30th	20th	30th	21st	24th
YEAR	1953	1953	1953	1953	1952	1953	1952	1958

NOVEMBER 1970. TABLE 1c.

DAILY MAXIMUM AND MINIMUM TEMPERATURE(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	31.3	13.5	31.4	13.3	32.7	12.7	33.0	14.5
2	30.4	16.3	30.7	13.2	32.5	15.2	32.0	15.0
3	27.6	16.7	29.0	17.2	32.2	15.4	31.6	17.0
4	32.0	16.0	33.2	16.0	32.2	10.0	32.2	15.5
5	33.4	16.0	32.2	15.6	30.5	16.1	31.5	15.9
6	30.7	20.0	31.0	19.6	29.5	20.3	29.0	15.9
7	33.4	19.5	33.0	20.2	31.5	20.0	32.0	17.5
8	30.6	17.1	31.2	16.7	30.5	19.1	34.6	17.9
9	20.5	14.6	29.2	16.0	30.0	16.7	29.6	10.7
10	29.4	14.5	29.0	16.0	30.0	13.0	31.0	12.9
11	27.4	13.0	20.6	10.4	31.0	14.5	31.7	14.7
12	26.0	13.0	27.5	13.0	30.0	12.5	30.1	15.9
13	20.4	12.4	29.4	15.0	29.0	15.3	31.5	13.0
14	20.7	17.0	21.6	16.0	33.0	10.4	34.0	16.2
15	24.2	17.6	25.6	20.0	32.0	10.4	33.5	10.5
16	24.8	12.0	25.5	11.7	26.0	15.7	20.4	14.7
17	25.5	11.4	25.2	10.2	29.5	13.3	20.0	15.9
18	24.9	11.0	24.7	8.4	25.5	12.0	26.5	13.6
19	25.7	14.2	26.3	13.5	26.7	12.2	27.0	11.2
20	25.9	14.0	27.2	13.6	20.1	12.5	28.5	12.1
21	27.0	11.0	20.2	11.6	29.2	12.6	30.1	11.3
22	27.0	12.5	20.2	11.5	29.2	11.0	30.1	11.2
23	25.4	16.4	27.4	14.4	25.4	14.4	29.6	13.3
24	25.8	11.6	24.6	9.6	26.7	12.0	29.0	13.3
25	25.0	12.3	27.9	9.0	27.0	10.0	20.6	10.1
26	26.0	12.4	26.9	10.8	26.4	12.6	30.2	10.1
27	21.5	15.6	22.0	17.2	23.4	18.9	27.6	10.6
28	21.9	14.0	22.5	14.1	25.5	19.0	25.5	20.0
29	20.9	9.6	21.4	10.1	23.7	11.0	25.0	15.6
30	21.9	0.5	21.6	6.6	22.3	9.2	23.0	9.5
MEANS	27.1	14.3	27.8	13.7	28.6	14.9	29.9	14.7
NORMAL	....	....	25.6	9.9	26.4	11.7	26.7	13.2
HIGHEST	33.6	20.8	36.1	22.0	36.7	22.6	36.6	25.0
DAY	2nd	6 th	4th	1st	2nd	6th	10th	3rd
YEAR	1967	1970	1949	1967	1942	1967	1939	1947
LOWEST	12.6	0.2	10.5	-2.8	11.7	-1.6	12.2	1.0
DAY	28th	29th	20th	16th	30th	24th	29th	29th
YEAR	1967	1964	1952	1940	1953	1950	1953	1964

NOVEMBER 1970. TABLE 2.

DRY - BULB TEMPERATURE(°C) MONTHLY MEAN TIME G . M. T.

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	15.0	14.6	15.8	19.4	20.3	18.7	16.4	15.5	17.0
MOSUL	12.2	10.7	13.7	20.1	23.0	19.8	15.3	13.9	16.2
SALAHADDIN	11.2	10.8	13.5	17.2	17.0	13.9	11.9	11.0	13.4
KIRKUK	15.7	14.7	18.1	23.6	24.5	20.1	17.7	16.5	18.9
ANAH	11.7	10.5	12.7	21.1	24.1	20.6	15.8	13.2	16.2
RUTBAH	10.5	9.0	13.9	20.6	22.5	18.7	14.7	12.2	15.3
HABBANIYA	14.2	13.2	17.4	24.3	25.1	20.5	17.1	15.6	18.4
BAGHDAD	13.2	12.1	17.4	24.6	26.4	20.8	16.8	14.6	18.2
HAI	16.2	15.1	19.1	26.6	27.0	22.6	20.1	17.9	20.7
NAJAF	16.0	14.9	19.3	24.7	26.6	22.4	19.3	17.6	20.0
DIWANIYA	16.2	14.8	18.4	25.8	27.1	22.6	19.4	17.6	20.7
NASIRIYA	16.8	15.6	19.7	26.8	28.1	23.8	20.7	18.6	21.3
BASRAH	16.8	15.6	20.6	27.7	28.8	23.2	20.2	18.5	21.4

TABLE 3. WET-BULB TEMPERATURE(°C)

SINJAR	10.4	10.1	10.8	12.8	13.2	12.9	11.1	10.6	11.5
MOSUL	10.2	9.4	11.0	14.8	16.0	14.6	12.5	11.3	12.5
SALAHADDIN	8.4	8.2	9.7	11.6	11.4	10.0	8.8	8.6	9.6
KIRKUK	10.9	10.5	12.5	14.7	14.9	13.6	12.2	11.2	12.6
ANAH	8.7	8.0	9.8	14.8	15.8	14.2	11.5	9.8	11.6
RUTBAH	7.3	6.5	9.8	13.1	13.7	12.0	9.9	8.5	10.1
HABBANIYA	11.5	10.7	13.6	16.5	16.6	15.4	13.6	12.6	13.9
BAGHDAD	9.9	9.0	12.8	16.1	16.4	14.3	12.0	10.8	12.7
HAI	12.5	11.7	14.3	17.9	18.3	16.3	14.5	13.4	14.9
NAJAF	12.1	11.6	13.4	15.8	16.2	14.9	13.6	12.0	13.8
DIWANIYA	12.0	11.2	13.7	16.7	17.1	15.4	13.6	12.8	14.1
NASIRIYA	12.5	11.7	14.2	17.0	17.2	15.9	14.3	13.4	14.5
BASRAH	14.2	13.5	16.7	19.3	19.6	17.6	16.3	15.4	16.6

TABLE 4. VAPOUR PRESSURE(MBS.)

SINJAR	8.9	8.8	9.1	9.6	9.6	10.2	9.0	8.9	9.3
MOSUL	11.0	10.6	11.1	12.6	12.8	12.7	12.3	11.5	11.8
SALAHADDIN	8.7	8.7	9.3	8.9	9.1	9.1	8.9	9.0	8.9
KIRKUK	9.5	9.6	10.2	9.6	9.4	10.3	9.9	9.2	9.7
ANAH	9.0	8.9	9.8	11.9	11.3	11.2	10.2	9.5	10.2
RUTBAH	7.5	7.7	8.9	9.2	8.7	8.6	8.4	8.2	8.4
HABBANIYA	11.6	11.1	12.6	13.0	12.3	13.5	12.9	12.5	12.4
BAGHDAD	9.6	9.2	11.2	11.6	10.8	11.2	10.2	10.0	10.5
HAI	11.5	11.1	12.6	13.6	13.6	13.6	12.2	11.9	12.5
NAJAF	11.1	11.2	11.5	10.9	10.2	11.0	11.1	11.1	11.0
DIWANIYA	10.8	10.7	11.0	11.0	11.5	11.8	10.9	11.0	11.3
NASIRIYA	11.2	10.9	12.0	11.6	10.7	11.0	11.3	11.3	11.4
BASRAH	14.4	14.1	16.2	15.9	15.6	15.7	15.7	15.2	15.3

TABLE 5. DEW-POINT TEMPERATURE(°C)

SINJAR	5.0	5.0	5.3	6.1	6.1	7.0	5.0	4.9	5.5
MOSUL	8.1	7.6	8.2	10.3	10.5	10.3	9.9	8.7	9.2
SALAHADDIN	4.9	5.0	5.1	5.5	5.3	5.5	5.2	5.2	5.2
KIRKUK	5.7	5.8	6.8	5.9	5.6	7.0	6.3	5.3	6.1
ANAH	5.4	5.3	6.5	9.4	8.7	8.4	7.2	6.0	7.1
RUTBAH	3.0	2.9	5.0	5.4	4.6	4.4	4.3	3.8	4.2
HABBANIYA	9.0	8.3	10.3	10.6	9.8	11.3	10.6	10.0	10.0
BAGHDAD	6.0	5.5	8.4	8.7	7.7	8.5	7.1	6.8	7.3
HAI	8.9	8.3	10.1	11.5	11.3	11.4	14.5	9.7	10.7
NAJAF	8.2	8.3	8.6	7.9	5.8	8.1	8.2	8.3	8.1
DIWANIYA	8.0	7.8	9.4	9.2	8.8	9.2	8.1	8.1	8.6
NASIRIYA	8.3	7.4	9.2	8.8	7.8	9.2	8.6	8.5	8.5
BASRAH	12.0	11.5	13.6	13.6	13.4	13.5	13.4	12.9	13.0

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	53	55	52	44	42	48	50	52	50
MOSUL	77	80	71	55	47	57	72	73	67
SALAHADDIN	68	70	60	50	50	60	67	68	62
KIRKUK	55	59	51	35	33	46	52	52	48
ANAH	67	70	66	49	39	47	50	62	57
RUTBAH	62	68	58	40	33	45	52	60	52
HABBANIYA	73	74	65	46	40	57	68	72	62
BAGHDAD	63	64	57	38	32	46	54	61	52
HAI	63	65	57	40	38	51	53	59	53
NAJAF	62	67	55	37	31	42	51	57	50
DIWANIYA	59	65	56	36	33	45	50	55	50
NASIRIYA	58	61	52	34	29	41	47	52	47
BASRAH	74	78	66	43	40	55	66	71	62

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

SINJAR	19.1	19.0	19.5	18.1	17.1	17.1	18.4	18.8	1018.4
MOSUL	19.6	19.8	20.6	19.3	17.4	17.3	18.8	18.9	1019.0
SALAHADDIN	19.9	19.9	19.4	17.8	16.4	18.2	19.9	19.7	1018.9
KIRKUK	18.4	18.6	19.1	17.6	16.3	17.2	18.2	18.2	1018.0
ANAH	19.1	19.3	20.3	18.8	17.0	17.3	18.5	18.9	1018.6
RUTBAH	17.0	17.8	18.5	17.4	16.1	16.7	17.4	17.2	1017.3
HABBANIYA	17.3	17.5	18.5	17.3	16.1	16.4	17.1	17.1	1017.2
BAGHDAD	17.2	17.4	18.5	17.7	16.1	16.3	17.1	17.2	1017.2
HAI	16.2	16.8	18.0	17.2	15.8	15.9	16.5	16.6	1016.6
NAJAF	17.2	17.6	19.1	18.0	16.3	16.6	17.3	17.4	1017.4
DIWANIYA	16.7	17.2	18.4	17.4	15.9	16.8	16.9	16.8	1017.0
NASIRIYA	16.3	16.8	18.0	16.8	15.3	15.6	16.3	16.3	1016.4
BASRAH	16.5	16.9	17.2	17.1	15.8	16.0	16.6	16.6	1016.7

TABLE 8. TOTAL AMOUNT CLOUD (OKTAS)

SINJAR	2.2	2.3	3.5	3.8	4.8	4.7	2.7	2.0	3.3
MOSUL	2.2	2.3	3.4	3.4	3.6	3.6	2.8	2.6	3.0
SALAHADDIN	3.0	3.2	4.2	4.9	5.1	4.6	4.0	3.5	4.1
KIRKUK	2.2	2.8	4.2	3.9	4.1	3.8	2.6	2.4	3.3
ANAH	2.2	3.1	3.8	3.5	3.8	3.3	1.8	1.6	2.9
RUTBAH	2.6	2.9	3.6	3.6	4.5	3.5	2.3	2.3	3.2
HABBANIYA	2.7	3.4	3.3	3.7	3.9	3.5	2.9	2.5	3.2
BAGHDAD	3.1	3.4	4.3	4.0	4.5	4.4	3.2	3.0	3.7
HAI	2.3	3.5	4.1	3.7	4.0	4.1	3.3	2.6	3.5
NAJAF	4.1	4.4	4.6	4.1	4.5	5.0	3.7	3.6	4.3
DIWANIYA	2.2	3.4	4.0	3.6	4.0	4.2	2.7	2.5	3.3
NASIRIYA	2.3	3.6	4.1	4.2	4.3	4.2	2.4	2.1	3.4
BASRAH	2.7	3.8	4.2	3.9	4.2	3.9	2.7	2.2	3.5

TABLE 9. LOW CLOUD AMOUNT(OKTAS)

SINJAR	1.5	1.5	2.4	2.5	3.2	2.7	2.2	1.4	2.2
MOSUL	1.5	1.7	2.4	2.3	2.1	2.6	2.2	2.0	2.1
SALAHADDIN	2.0	2.0	2.4	3.1	3.2	2.3	2.8	2.5	2.5
KIRKUK	1.6	2.1	2.1	2.0	2.5	2.3	1.7	1.8	2.0
ANAH	0.6	1.1	1.2	1.5	1.4	1.5	0.7	0.6	1.1
RUTBAH	0.6	1.0	1.2	1.3	2.6	2.0	1.4	0.7	1.4
HABBANIYA	0.3	0.4	0.3	0.3	0.7	0.8	0.7	0.3	0.5
BAGHDAD	0.5	0.7	1.0	0.7	1.1	0.9	0.6	0.8	0.8
HAI	0.8	1.1	1.2	1.0	1.2	1.5	1.3	1.0	1.2
NAJAF	0.8	1.1	1.5	1.2	1.2	2.0	1.0	0.8	1.2
DIWANIYA	0.7	1.1	0.9	0.7	0.9	1.0	0.5	0.8	0.8
NASIRIYA	0.3	0.7	1.0	0.8	0.8	0.9	0.8	0.5	0.7
BASRAH	0.3	1.2	1.3	0.7	0.9	0.7	0.4	0.2	0.7

NOVEMBER 1970. TABLE 10a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

STATIONS	TIME GMT.	DIRECTION N	NE	E	SE	S	SW	W	NW	CALM	SPEED IN KNOTS 1-10	11-21	22-33	≥34	MEAN V.K.
SINJAR	0000	22	1	2	0	0	0	0	2	3	26	1	0	0	4
	0300	20	2	2	0	0	0	1	0	5	25	0	0	0	3
	0600	6	10	3	0	0	0	2	0	9	21	0	0	0	3
	0900	1	6	2	4	3	3	5	0	5	23	1	0	0	4
	1200	2	2	6	2	3	3	2	1	9	21	0	0	0	3
	1500	3	1	6	0	2	2	2	3	11	19	0	0	0	3
	1800	11	4	4	0	0	0	3	1	9	22	1	0	0	3
	2100	13	8	1	0	1	1	2	1	3	26	1	0	0	4
MOSUL	0000	2	0	1	0	2	0	0	3	22	8	0	0	0	1
	0300	2	0	1	0	2	0	0	2	23	7	0	0	0	1
	0600	8	0	2	0	0	0	2	1	17	13	0	0	0	1
	0900	5	1	2	0	4	0	3	5	9	20	1	0	0	3
	1200	4	1	4	2	3	0	0	4	12	18	0	0	0	3
	1500	3	0	2	0	2	0	3	2	18	12	0	0	0	2
	1800	1	0	1	1	0	0	2	0	25	5	0	0	0	1
	2100	4	0	1	0	1	0	1	2	21	9	0	0	0	1
SALAHADDIN	0000	6	4	3	4	6	2	2	1	37	27	0	0	0	4
	0300	6	1	3	2	10	0	1	0	7	22	0	1	0	4
	0600	3	2	4	4	7	0	4	2	4	25	1	0	0	4
	0900	2	1	2	3	12	6	1	3	0	20	2	0	0	6
	1200	2	2	2	4	8	6	4	2	0	28	1	1	0	5
	1500	0	2	1	2	7	3	8	4	3	26	1	0	0	4
	1800	6	1	3	1	6	4	7	1	1	26	2	1	0	5
	2100	2	4	3	3	7	0	2	2	7	23	0	0	0	3
KIRKUK	0000	0	5	4	0	0	0	0	0	21	9	0	0	0	2
	0300	0	6	3	0	0	0	0	0	21	9	0	0	0	2
	0600	0	4	3	0	0	0	0	0	23	7	0	0	0	1
	0900	3	1	3	0	3	0	7	0	13	16	1	0	0	3
	1200	1	4	1	0	3	0	7	1	13	16	1	0	0	3
	1500	1	0	1	0	1	1	1	0	25	5	0	0	0	1
	1800	0	2	2	0	1	0	0	0	25	5	0	0	0	1
	2100	0	5	3	0	1	0	0	0	21	8	1	0	0	2
ANAH	0000	1	1	2	1	1	0	3	0	21	6	3	0	0	3
	0300	2	1	3	2	0	0	2	0	20	7	3	0	0	3
	0600	1	2	2	0	2	2	6	0	15	15	0	0	0	4
	0900	3	2	4	0	1	1	0	0	11	11	7	1	0	6
	1200	4	4	3	1	0	1	7	1	9	16	3	2	0	7
	1500	0	0	3	1	1	5	3	0	17	11	2	0	0	4
	1800	1	1	1	1	0	0	3	0	23	4	3	0	0	3
	2100	0	1	0	1	4	1	1	0	22	6	2	0	0	2

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	16 knots	080	1800	14th
MOSUL	15	180	0900	14th
SALAHADDIN	25	160	0300	27th
KIRKUK	18	180	1200	15th
ANAH	25	270	1200	28th
RUTBAH	26	150	2100	25th
HADDANIYA	35	140	1200	26th
BAGHDAD	20	130	0900	26th
HAI	23	130	1200	14th
NAJAF	18	070	0000	14th
DIWANIYA	16	140	1200	26th
NASIRIYA	16	130	0900	14th
BASRAH	20	170	0900	27th

NOVEMBER 1970. TABLE 12a.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	RUTNAH	HABBANIYA
1							
2							
3						tr.	tr.
4							
5				0.7			
6							
7		8.4	0.9	5.4			
8			2.2				
9	tr.						
10	10.0	5.6	6.7				
11	tr.	1.4	0.4				
12					tr.		tr.
13				tr.			
14	1.1	6.6	9.7		1.3	1.2	2.5
15			0.3				
16							
17							
18							
19							
20	tr.					1.6	
21							
22	tr.					1.6	
23		tr.		0.3		1.4	
24							
25	1.2	tr.		1.1			
26	0.6	2.4	1.0	1.0			tr.
27				1.5	tr.	0.3	2.0
28		tr.	5.2	5.0		1.1	
29							
30							
TOTAL	12.9	24.4	26.4	15.0	1.3	6.1	4.5
NORMAL	44.5	43.3	37.1	41.5	9.6	15.6	18.7

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
SINJAR	48.8	28th	1953
MOSUL	86.3	27th	1929
SALAHADDIN	80.3	3rd	1961
KIRKUK	61.0	10th	1967
ANAH	32.0	26th	1968
RUTBAH	25.2	24th	1937
HABBANIYA	36.2	18th	1960

NOVEMBER 1970. TABLE 12b.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	BAGHDAD	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1						
2						
3						
4	tr.					
5	tr.					
6			tr.		tr.	tr.
7				tr.		
8		tr.			tr.	tr.
9						
10						
11						
12						
13	tr.					
14	0.1		1.8			
15		1.3	1.7	tr.	0.7	
16						
17						
18						
19						
20						
21						
22						
23	tr.		tr.		tr.	
24						
25			tr.			
26	0.8		3.1	tr.	tr.	
27	2.2	8.0	1.8	3.2	0.8	tr.
28						1.9
29						tr.
30						
TOTAL	3.1	9.3	8.4	3.2	1.5	1.9
NORMAL	21.5	19.4	11.5	14.7	20.5	27.7

STATION	HIGHEST AMOUNT OF RAIN DURING A DAY	DAY	YEAR
BAGHDAD	48.9	17th	1957
HAI	55.0	29th	1957
NAJAF	28.0	25th	1957
DIWANIYA	38.9	11th	1961
NASIRIYA	47.2	26th	1950
BASRAH	61.4	15th	1940

NOVEMBER 1970. TABLE 12c.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	HAW-IJA	SHIR-QAT	HAMMAM-ALALIL	HAD-AAR	RAB-IAA	SER-SANK	TEL-ABTA	DIA-WA	SULAI-MANIYA	HIT	BAI-JI
1											
2											
3											
4											
5											
6											
7			7.5					6.2			
8		3.0	1.0					8.0			
9								8.8			
10			10.0	8.0	35.0	13.5		14.0			
11			0.5			12.6		2.5			
12						16.1					
13											
14	2.5		7.6							tr.	1.3
15		2.0	0.2	8.0	5.0	65.4	2.0	8.0			
16						3.9		1.8			
17											
18											
19											
20											
21											
22											
23											
24											
25											
26			1.5			15.7	2.0	1.3			1.3
27	1.8					18.3		4.0	40.0		1.3
28			0.3			20.0		18.2	28.0		1.8
29								5.0			3.3
30											
TOTAL	4.3	5.0	28.6	16.0	40.0	165.5	4.0	72.8	68.0	tr.	9.0

NOVEMBER 1970. TABLE 12d. (12)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	TEK-REET	FAT-HA	SHAI-KHAN	AMA-DIYA	AQ-RA	QUA-IR	SHAQ-LAWA	AUD-AIM	MAN-SOOR	KAR-BALA	QUAI-SINJAQ
1											
2											
3											
4											
5											
6											
7					21.0		5.2				
8							2.7				6.0
9				40.0	13.2		1.2				
10				21.0	10.0		17.4				2.5
11				13.0	0.4	30.0	2.3				9.0
12					4.7						
13											
14	1.3	2.3		30.0			2.4				
15			13.9	11.0	5.7	5.0	3.6	tr.			
16				3.0							
17											
18											
19											
20											
21											
22											
23											
24											1.0
25		tr.									
26		3.2							1.0		
27	0.9	1.5		16.0					4.0		
28		tr.		14.0	11.0			12.0	2.0	12.7	13.0
29					tr.	15.0	14.3				26.0
30											
TOTAL	2.2	7.0	13.9	148.0	68.4	50.0	49.1	12.0	7.0	12.7	57.5

NOVEMBER 1970. TABLE 12 e. (13)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	KUT	MUSA-IAB	DIRBA-NDIKAN	ABU-QRAIB	TEL-AFAR	DO-KAN	BASH-IQA	ZAKHO	MANDILI	SAMAWA
1										
2										
3										
4										
5										
6			tr.							
7	0.1				3.5	4.0	4.0			
8							2.0			
9						6.0				
10					1.5	9.0	7.0	20.9		
11							5.0	5.2		
12										
13										
14		tr.			1.5		5.0			
15	0.2		0.5	0.5	0.5			12.2		
16								37.5		
17										
18										
19	0.3									
20										
21										
22										
23	2.0					2.0		2.6		
24										
25					1.0	1.0				
26			6.7				1.5			
27		0.5	72.3	3.0		7.0			17.0	
28			49.5	2.5		8.0				4.6
29						10.0				
30										
TOTAL	2.6	0.5	129.0	6.0	16.0	47.0	24.5	78.4	17.0	4.6

NOVEMBER 1970. TABLE 12f. (14)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	ASL-UBI	SAMA-RRAH	HIN-DIYA	BADRA	NUMA-NIYA	BAQ-UBA	IFR-AZ	THARI-ALQARAH
1								
2								
3								
4								
5								
6								
7	9.1							
8							5.5	5.0
9								
10							2.3	
11	0.4						12.7	
12							4.6	
13							15.5	
14	0.5		2.5					
15								
16								
17		tr.						
18							18.9	
19								
20								
21								
22		0.1						
23								
24								
25								
26								
27		0.9	2.5	4.0	2.6	6.5		
28								
29								
30								
TOTAL	10.0	1.0	5.0	4.0	2.6	6.5	59.5	5.0

NOVEMBER 1970. TABLE 13a.

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

	MOSUL			KIRKUK			HABBANIYA			BAGHDAD		
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M
1	1.6	16.4	24.4	11.6	20.7	25.6	10.0	24.8	27.7	7.4	25.2	28.6
2	3.2	16.8	24.0	12.2	20.9	25.8	11.7	24.5	27.5	9.2	25.0	28.4
3	2.0	17.5	24.1	12.2	20.0	25.5	10.6	24.0	27.0	7.9	24.3	28.2
4	7.3	18.0	23.5	12.0	19.9	25.4	10.0	24.0	27.3	8.7	24.4	28.1
5	4.2	18.1	23.4	13.2	19.9	25.4	11.9	24.0	27.0	9.5	24.2	28.0
6	5.5	17.7	23.4	12.4	20.1	25.2	10.6	24.2	27.0	10.7	24.8	28.0
7	5.0	17.1	23.4	11.6	20.1	25.1	13.1	24.0	27.0	11.2	24.8	28.0
8	10.4	16.4	23.1	15.3	20.5	25.0	12.8	24.0	27.0	11.2	24.8	27.7
9	6.6	16.3	23.0	10.0	19.6	25.0	11.1	24.0	26.8	7.5	24.8	27.8
10	6.0	16.0	23.0	11.8	19.4	25.0	11.1	24.0	26.8	8.5	24.4	27.5
11	9.0	16.1	22.9	12.0	19.5	25.0	10.0	23.5	26.5	6.5	24.1	27.5
12	8.4	16.0	22.8	11.0	19.1	24.7	9.5	23.5	26.6	5.8	23.8	27.5
13	7.0	15.2	22.5	11.7	18.9	24.5	12.9	23.0	26.5	10.3	23.5	27.3
14	11.4	16.7	22.5	16.0	19.4	24.5	13.1	23.0	26.5	12.7	23.8	27.1
15	8.0	18.2	23.0	15.1	19.5	24.4	10.0	23.0	26.3	15.7	24.2	27.2
16	7.0	16.0	22.5	10.5	19.4	24.4	4.0	22.8	26.1	7.2	24.0	27.1
17	6.6	15.0	22.2	8.5	18.4	24.0	8.7	22.6	26.0	8.2	23.4	27.0
18	4.5	14.1	22.0	7.2	17.8	24.0	8.4	22.3	26.0	5.9	22.7	26.8
19	3.6	14.2	22.0	9.2	17.7	24.0	9.4	22.0	25.8	7.5	22.3	26.8
20	4.0	14.3	22.1	6.6	17.2	23.9	7.2	21.8	25.6	5.8	22.2	26.7
21	3.0	14.0	21.7	5.0	16.8	23.8	8.9	21.5	25.6	5.8	22.0	26.6
22	5.4	13.1	21.5	8.2	16.5	23.6	4.0	21.5	25.4	5.6	21.6	26.5
23	4.5	13.8	21.4	12.0	16.7	23.4	11.5	21.5	25.2	6.7	21.7	26.2
24	8.0	15.0	21.0	12.5	17.2	23.3	9.5	21.4	25.1	4.8	21.8	26.2
25	8.2	18.0	20.8	11.7	17.2	23.2	3.4	21.1	25.0	4.3	21.3	26.0
26	5.4	14.5	21.0	10.8	17.4	22.9	11.4	21.2	25.0	7.5	21.5	26.0
27	9.5	14.4	20.6	14.1	18.5	22.8	9.5	22.0	25.0	10.8	21.4	26.0
28	4.5	13.7	20.5	12.4	17.8	22.8	7.2	21.1	24.8	13.5	21.7	25.7
29	4.0	12.6	20.5	5.0	17.2	22.8	4.5	20.8	24.8	2.7	21.2	25.6
30	4.0	12.5	20.3	5.6	16.4	22.8	4.6	20.5	24.5	2.5	20.4	25.5
MEANS	5.9	15.7	22.3	10.9	18.7	24.3	9.4	22.7	26.1	8.1	23.2	27.1

NOVEMBER 1970. TABLE 13b. (16)

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

	HAI	NAJAF		DIWANIYA			NASIRIYA			BASRAH
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	12.2	22.5	26.8	9.1	23.7	26.6	6.9	25.8	29.3	7.3
2	16.0	22.5	26.6	11.2	23.6	26.6	10.6	25.7	29.1	9.5
3	14.6	22.6	26.6	15.2	23.5	26.6	9.7	25.7	29.[illegible]	11.5
4	12.7	22.2	26.4	13.2	23.5	26.5	12.6	25.7	28.8	11.0
5	11.8	23.2	26.4	13.2	24.5	26.4	8.0	25.8	28.8	9.6
6	18.2	24.1	26.2	16.4	23.8	26.3	17.5	25.9	28.7	12.3
7	20.8	24.0	26.4	11.6	24.0	26.4	16.9	26.2	28.6	12.4
8	15.8	24.0	26.2	14.6	23.9	26.2	15.5	26.4	28.5	15.5
9	15.0	23.4	26.4	9.2	24.0	26.2	13.8	25.8	28.5	13.3
10	13.5	22.7	26.3	11.0	23.6	26.0	7.6	25.3	28.5	8.6
11	12.0	22.0	26.3	7.5	23.4	26.0	7.6	25.0	28.3	9.7
12	11.7	21.4	26.1	9.5	22.9	26.0	7.5	24.8	28.3	9.6
13	10.2	21.0	26.0	12.5	22.5	26.0	8.4	24.9	28.3	7.9
14	12.7	21.6	25.8	10.2	22.4	25.9	16.6	24.8	28.2	10.0
15	17.4	22.0	25.8	18.0	22.5	25.8	12.8	25.2	28.0	15.4
16	13.2	20.1	25.6	9.1	22.1	25.6	12.5	25.2	28.0	11.4
17	12.0	19.6	25.6	6.6	21.7	25.7	7.7	24.4	27.9	12.9
18	9.5	19.4	25.4	5.4	21.4	25.6	8.8	23.8	27.7	9.5
19	11.8	19.2	25.2	12.1	21.3	25.6	8.3	23.4	27.7	5.3
20	12.0	19.4	25.1	12.0	21.4	25.7	7.8	23.3	27.8	7.3
21	11.8	18.8	25.0	8.6	21.2	25.4	5.2	23.0	27.6	6.2
22	11.5	18.8	24.8	9.3	20.8	25.3	5.7	22.8	27.4	4.6
23	13.0	19.4	24.8	10.7	21.0	25.3	7.1	22.8	27.3	6.0
24	9.1	18.0	24.6	5.6	20.8	25.1	5.0	22.5	27.2	10.6
25	10.5	17.2	24.6	4.2	20.2	25.0	2.1	22.2	27.1	4.2
26	10.7	17.5	24.4	6.6	20.1	24.9	5.2	22.1	27.1	8.7
27	18.0	18.4	24.4	14.8	20.3	24.7	17.6	22.7	26.8	14.5
28	15.2	18.3	24.0	11.1	20.4	24.7	7.0	22.6	26.8	15.6
29	11.0	17.5	24.0	7.4	20.2	24.8	9.0	22.7	26.7	12.7
30	7.0	16.3	23.9	3.5	19.1	24.4	5.5	21.6	26.7	5.6
MEANS	13.0	20.6	25.5	10.3	22.1	25.7	9.5	24.3	28.0	10.0

NOVEMBER 1970. TABLE 14.

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

DAYS	SIN-JAR	MO-SUL	KIR-KUK	ANAH	BAGH-DAD	NAJAF	DIWA-NIYA	NASI-RIYA	BAS-RAH
1	6	5	6	5	6	6	6	4	3
2	5	3	4	4	6	9	5	4	3
3	4	3	3	4	6	7	3	4	3
4	5	4	4	4	6	6	3	4	3
5	6	3	4.7	3	5	6	4	4	2
6	5	5	4	3	3	9	4	3	1
7	6	3.4	4.4	3	5	1	4	5	2
8	4	2	4	3	5	5	3	4	6
9	5	4	2	4	5	6	4	4	5
10	4	4.6	3	5	6	6	4	2	3
11	4	4.4	4	2	4	5	3	4	1
12	3	2	3	2	4	5	3	3	3
13	4	2	3	2	5	1	4	6	3
14	4	3.6	4	3.3	5.1	3.8	3	4	2
15	4	3	4	5	6	3.7	3	3.7	5
16	4	3	2	3	3	3	3	4	3
17	5	3	3	2	5	3	3	3	4
18	2	2	3	2	5	5	2	3	2
19	4	4	3	2	5	3	3	3	2
20	3	4	4	1	5	1	3	3	3
21	4	4	3	2	4	1	3	3	2
22	4	2	3	2	3	3	3	2	2
23	3	2	2.3	3	4	3	3	3	2
24	4	2	3	3	4	1	3	3	3
25	3	2	4.1	2	2	1	3	2	3
26	3	3.4	3	3	4.8	5.1	2	4	2
27	4	3	1.5	4	6.2	2.8	3	3.6	3
28	2	4	3	1	1	1	2	3	1
29	2	4	3	3	4	3	2	3	2
30	2	3	2	2	4	2	2	4	3
TOTAL	118	97.4	100	87.3	132.1	131.4	95	105.5	82
MEANS	3.9	3.2	3.3	2.9	4.5	4.4	3.2	3.5	2.7

NOVEMBER-1970. TABLE-15a. CLIMATOLOGICAL SUMMARY

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	4	0	0	1	0	2	1	0	0	0	0	7	2	-	-	-	-
MOSUL	5	0	0	2	0	0	2	0	0	0	0	12	2	95.3	8.4	7th	2
SALAHADDIN	8	0	0	4	1	3	1	1	0	0	0	5	3	-	-	-	-
KIRKUK	7	0	1	3	0	2	8	1	4	0	0	12	5	-	-	-	-
ANAH	1	0	0	0	0	1	3	2	2	0	0	10	2	-	-	-	-
RUTBAH	5	0	0	1	0	3	0	2	0	0	0	8	2	-	-	-	-
HABBANIYA	2	0	0	1	0	5	11	3	2	2	0	9	3	225.0	10.8	16th	0
BAGHDAD	2	0	0	1	0	3	19	2	2	0	0	6	2	207.9	9.6	9th	0
HAI	2	0	0	2	0	0	1	1	0	0	0	8	3	-	-	-	-
NAJAF	4	0	0	3	0	0	1	2	0	0	0	6	7	-	-	-	-
DIWANIYA	1	0	0	0	0	1	1	2	2	0	0	9	3	-	-	-	-
NASIRIYA	2	0	0	0	0	1	1	1	0	0	0	8	4	206.3	9.6	11th	1
BASRAH	1	0	0	0	4	9	6	1	1	0	0	3	0	218.6	9.9	25th	0

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

STATIONS	(1970) mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	(RECORDS-mbs) HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	(RELATIVE HUMIDITY %-1970) HIGH EST%	TIME GMT.	DAY	LOW EST%	TIME GMT.	DAY
SINJAR	1024.3	0600	18th	1011.5	1200	27th	1030.1	0900	25th	1961	1006.2	0300	22nd	1961	83	0600	15th	21	0900	23rd
MOSUL	1025.5	0600	29th	1012.5	1200	27th	1034.5	0600	22nd	1958	1004.3	1200	7th	1944	98	0000	12th	26	1200	4th
SALAHADDIN	1024.8	2100	29th	1012.6	1200	3rd	1028.7	0300	29th	1967	1007.7	1500	24th	1967	100	0000	16th	23	0900	3rd
KIRKUK	1024.1	0600	29th	1012.3	1200	27th	1031.1	0600	30th	1953	1005.8	0000	22nd	1961	96	0000	29th	12	1200	2nd
ANAH	1025.5	0600	29th	1011.7	1500	26th	1027.8	0600	26th	1969	1010.8	1500	1st	1969	94	0600	24th	24	1500	7th
RUTBAH	1024.8	0600	29th	1010.4	1200	26th	1034.7	0600	30th	1953	1004.0	1300	7th	1938	100	0600	28th	15	1200	2nd
HABBANIYA	1024.4	0600	29th	1009.7	1200	26th	1030.5	0600	25th	1961	1007.1	0000	22nd	1961	98	2100	27th	20	1200	5th
BAGHDAD	1024.9	0600	29th	1010.3	1500	26th	1025.9	0600	25th	1961	1006.1	1200	7th	1938	98	0300	28th	12	1200	1st
HAI	1023.1	0600	29th	1012.0	1200	23rd	1028.2	0600	30th	1953	1004.9	1200	17th	1957	96	0300	28th	22	1200	4th
NAJAF	1025.6	0600	29th	1011.0	1500	23rd	1028.2	0600	28th	1967	1004.2	1500	2nd	1963	94	1500	27th	14	1200	5th
DIWANIYA	1023.9	0900	29th	1010.9	0000	27th	1030.0	1800	29th	1953	1004.5	1200	17th	1957	96	0300	28th	19	1200	4th
NASIRIYA	1023.1	0600	29th	1011.7	1200	27th	1028.6	0600	30th	1961	1006.2	1200	7th	1944	89	0000	29th	16	1200	15th
BASRAH	1021.8	0600	29th	1012.0	1500	27th	1028.2	0600	30th	1961	1004.9	1300	26th	1939	99	0600	24th	19	0900	2nd

NOVEMBER 1970. TABLE 16.

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

PRESSURE SURFACE MB.	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KTS	DIRECTION	SPEED KTS	DIRECTION	SPEED KTS
1000	30	149	187	111	30	18.0	22.2	12.0	29	8.3	29	350	02	360	25	000	00
850	30	1515	1566	1225	30	13.5	19.0	6.2	29	0.4	30	220	06	120	31	300	02
700	30	3127	3188	3042	30	1.4	5.2	-4.8	29	-8.3	30	230	14	230	37	220	07
500	30	5748	5826	5654	30	-16.1	-12.2	-21.2	29	-26.2	30	240	24	220	61	290	08
300	30	9395	9508	9267	30	-42.3	-34.2	-46.7	29	-51.3	30	250	47	250	100	270	12
200	30	12035	12248	11893	30	-57.9	-53.3	-65.2	29	-65.9	30	250	56	240	128	250	15
150	30	13836	14063	13675	30	-60.7	-54.2	-65.2	27	-68.7	30	250	50	260	120	250	13
100	30	16331	16567	16175	30	-64.7	-60.0	-69.5	24	-72.7	29	250	44	230	120	250	18
70	30	18504	18727	18336	30	-68.3	-61.0	-68.6	19	-72.4	27	250	34	250	106	310	09
50	29	20572	20756	20431	29	-63.0	-59.0	-68.0	17	-71.3	24	250	21	240	80	310	09

N = Total number of observations.

NOVEMBER 1970. TABLE 17.

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

STATION: BAGHDAD RADIOSONDE STATION. TIME 0000 GMT.

TIME OF OBS. GMT.	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE MB.	DIRECTION 000-360	SPEED " KNOTS "
		HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C	HEIGHT "GPM"	PRESSURE MB.	DEW POINT °C		HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE MB.	TEMPERATURE °C				
00004	30	3283	687	-8.3	3760	767	-1.4	2400	650	-20.9	30	12374	194	-57.3	16361	310	-44.5	9050	100	-75.3	15130	125	270	170

N = Total number of observations.

الجمهوريـــة العراقيـــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــة

مديرية الانواء الجويـة

مديرية المنـاخ

بغداد

=====

تقرير المنـــاخ الشهـــري

المجلـــد : ٣٣

العـــدد : ١٢

الشهـــر : كانون الاول

السنـــة : ١٩٧٠

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL DEPARTMENT

B A G H D A D

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Volume : 33

No. : 12

Month : DECEMBER

Year : 1 9 7 0

DECEMBER 1970.

GENERAL SITIUATION : WET AND COLD

MAIN FEATURES : The western disturbances is well marked, The Meditterenean low pressure Centres passed four times on 4,6,7, and 18th. Series of depressions from Saudi Arabia and Senae with frontal systems crossed on 6th and continued till 13th, and with out fronts on 1,4,14,18,20,23 and 26th. Once a trough line crossed the country on 5th.

PRESSURE ; Mean pressure in general is above normal the highest pressure reading was 1033.1 mb at Rutba, it is 12.9 mbs above normal. The lowest pressure reading was 1007.8 mbs at Mosul, it is 13.1 mbs below normal.

TEMPERATURE : Mean temperature in general was below normal by 0.8 °C to 2.5 °C at Baghdad, The highest maximum temperature was 27.7 °C at Basrah, it is 14 °C above normal, The lowest minimum temperature was -5.4 °C at Rutba, it is 14 °C below normal.

SURFACE WIND Northernregion prevailing wind was southerly fresh Central districts light northwesterly, and occassions of freshs southeasterly. Southern region was light northwesterly.

RELATIVE HUMIDITY : Relative humidity was arround normal.

PRECIPITATIONS : Widespread rainfall. The highest total rainfall was 39.6 mm at Basrah, it is above normal by 6.7 mm.

OTHER PHENOMENAE : Thunderstorms was below normal, only five times reported at Basrah, and once at Diwaniya,
Fog widespread at northern regions once at Nasiriya
Dust is reported scattered in Central area.

DECEMBER 1970. TABLE 1a. (1)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	SINJAR		MOSUL		SALAHADDIN		KIRKUK		ANAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	16.4	8.0	18.8	3.5	13.4	4.2	19.1	7.1	21.5	3.1
2	16.3	9.1	19.3	3.0	11.2	4.6	19.7	6.4	18.3	4.4
3	15.3	7.4	20.0	5.2	13.3	4.5	20.6	7.2	20.2	2.2
4	15.4	8.4	18.0	4.5	13.0	6.4	20.1	8.7	20.4	5.3
5	14.8	8.2	20.1	9.2	15.0	7.6	21.4	11.1	20.4	4.9
6	11.8	7.6	17.6	11.5	10.7	8.4	20.6	13.3	18.3	5.9
7	13.8	6.4	17.9	5.2	10.8	3.3	19.2	6.8	18.8	2.8
8	7.6	5.5	12.2	5.5	9.6	3.8	17.9	8.3	12.5	6.1
9	11.6	6.1	12.2	6.7	4.6	3.1	11.7	8.0	13.3	6.3
10	7.5	2.3	9.0	5.4	3.4	2.3	9.0	6.8	15.0	2.6
11	5.4	0.1	9.2	0.7	4.0	-4.2	10.1	0.5	10.1	-4.4
12	7.2	1.5	13.2	2.7	5.5	1.5	14.6	8.1	7.1	1.8
13	6.3	-0.3	10.5	-0.6	3.0	-1.0	10.1	2.0	9.4	-5.4
14	8.5	0.5	11.4	-0.8	6.6	-2.5	11.5	0.0	10.0	-0.4
15	9.3	0.3	11.2	0.4	7.0	-1.0	13.6	0.0	11.6	-2.8
16	10.1	-0.4	13.2	-0.8	8.4	-0.8	15.0	1.1	13.3	-5.4
17	7.7	0.4	11.3	-1.5	8.0	-0.2	13.2	1.2	10.7	-3.6
18	10.2	-1.4	13.0	-2.4	9.5	1.4	15.6	3.6	12.0	-4.0
19	11.2	1.4	9.2	-0.4	8.7	1.8	14.2	2.5	13.0	-3.3
20	9.7	1.6	14.0	-0.4	9.4	2.4	16.0	3.9	13.0	0.7
21	9.2	3.4	12.5	-0.6	6.0	0.0	13.5	3.4	13.6	-3.2
22	8.2	0.8	12.0	-1.8	5.5	-1.5	14.4	1.1	13.2	-1.5
23	10.9	2.0	13.6	4.5	8.0	-0.7	14.1	5.1	14.2	1.5
24	12.6	4.2	14.1	1.0	10.5	1.5	17.8	2.9	14.3	-2.5
25	13.1	4.2	15.0	2.0	11.5	2.8	17.0	3.6	14.5	-1.8
26	13.1	4.0	14.6	3.4	12.2	3.0	18.2	4.9	15.4	-2.2
27	13.5	7.6	17.0	1.4	11.8	3.5	16.3	3.8	15.7	-0.6
28	13.5	4.6	15.7	0.2	10.5	2.5	19.6	5.0	15.2	-1.6
29	14.0	5.2	17.2	0.2	11.0	2.8	17.4	3.2	14.5	-2.1
30	14.3	3.3	16.0	0.6	13.3	3.5	20.4	4.1	15.3	-4.1
31	13.5	4.5	13.5	1.0	10.3	4.4	16.4	3.5	14.1	-3.6
MEAN	11.4	3.8	14.3	2.2	9.2	2.2	16.1	4.7	14.5	-0.2
NORMAL	....	....	14.7	2.8	....	....	15.8	6.1	....	....
HIGHEST	20.7	12.4	27.2	15.0	17.0	10.4	27.1	15.5	21.5	11.5
DAY	9th	13th	3rd	1st	22nd	22nd	2nd	17th	1st	23rd
YEAR	1965	1965	1956	1945	1969	1969	1956	1943	1970	1969
LOWEST	1.5	-5.7	-1.7	-7.4	-2.0	-5.2	5.2	-6.1	7.1	-5.4
DAY	30th	29th	24th	15th	23rd	24th	23rd	23rd	12th	16th
YEAR	1963	1963	1929	1959	1967	1967	1967	1946	1970	1970

DECEMBER 1970. TABLE 1b. (2)

DAILY MAXIMUM AND MINIMUM TEMPERATURES (°C)

	KHANAQIN		RUTBAH		HABBANIYA		BAGHDAD		HAI	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	-	-	13.2	4.2	20.6	7.0	20.7	4.5	22.0	8.0
2	-	-	17.1	1.7	20.0	7.5	20.4	4.6	22.0	7.5
3	-	-	20.8	2.1	22.0	6.0	22.1	5.0	22.3	8.0
4	-	-	23.4	4.6	24.0	6.0	23.2	4.0	25.0	7.8
5	-	-	21.6	3.8	22.5	11.6	24.0	10.8	23.0	9.0
6	-	-	15.2	7.2	21.0	12.0	22.7	13.5	25.5	14.3
7	-	-	16.0	4.7	20.8	11.6	20.4	10.0	23.0	11.4
8	-	-	14.4	7.0	19.8	8.5	22.2	4.7	23.8	7.6
9	-	-	13.7	4.0	13.0	8.0	14.0	7.5	17.4	9.6
10	12.3	6.0	13.7	3.1	14.6	5.0	13.8	3.8	18.2	4.0
11	12.3	7.0	12.7	-3.8	9.2	3.6	9.1	4.5	19.4	8.0
12	13.2	8.0	5.2	0.2	9.4	3.0	11.9	2.2	11.7	10.0
13	9.6	4.4	8.4	-5.4	10.6	0.0	11.2	0.6	12.0	4.5
14	9.0	0.4	6.0	-2.0	10.5	2.2	10.3	-0.5	8.5	2.5
15	12.2	-1.0	10.4	-2.9	12.0	0.0	12.9	-2.3	14.0	0.4
16	12.2	-1.4	11.0	-3.4	13.5	-1.3	13.3	-3.6	15.0	1.0
17	12.3	-0.7	9.8	-4.2	12.0	-1.4	12.4	-3.6	15.5	1.4
18	14.4	2.0	11.0	-4.4	13.3	-0.5	15.1	-0.8	16.6	4.1
19	15.2	2.4	13.0	-2.4	13.4	-0.5	14.5	-0.2	17.0	3.5
20	14.8	3.1	14.3	-0.2	14.4	-0.5	15.1	-0.6	17.5	3.2
21	13.0	1.0	15.5	-1.0	13.7	1.4	14.7	-0.1	16.6	4.2
22	12.8	-1.1	16.4	-1.6	15.0	0.0	16.1	-1.4	17.1	3.4
23	18.0	1.9	12.6	-0.9	17.5	2.5	18.0	0.7	18.6	3.5
24	18.0	1.2	15.4	-2.4	16.0	2.8	17.4	2.5	18.4	2.5
25	16.5	1.5	16.2	-2.5	17.0	2.8	17.2	0.7	19.1	3.6
26	17.7	2.4	14.7	-2.4	17.0	2.6	17.5	2.5	20.0	4.3
27	18.0	2.4	16.8	-2.7	17.0	4.0	17.0	0.6	20.0	6.5
28	18.5	1.4	16.6	-1.7	17.5	2.6	17.5	1.4	19.5	3.7
29	17.3	1.3	16.6	-2.0	16.5	2.0	17.9	-0.2	19.3	3.0
30	18.8	0.7	15.6	-3.7	16.2	1.5	17.1	-0.8	19.4	3.8
31	17.2	0.9	17.0	-2.6	16.2	1.0	16.7	-1.1	18.0	3.4
MEANS	14.7	2.0	14.5	-0.3	16.0	3.6	16.7	2.2	18.6	5.4
NORMAL	17.3	6.0	14.8	2.7	17.5	5.8	17.7	5.2	19.0	6.8
HIGHEST	27.8	-1.4	26.5	15.0	30.6	16.1	26.6	16.1	28.9	16.3
DAY	7th	16th	12th	20th	5th	26th	3rd	1st	1st	9th
YEAR	1966	1970	1969	1953	1959	1952	1956	1945	1943	1958
LOWEST	9.0	-6.7	1.7	-8.9	7.27	-6.7	6.8	-6.7	7.4	-4.6
DAY	14th	7th	29th	5th	21st	5th	21st	5th	21st	12th
YEAR	1970	1942	1951	1941	1953	1941	1953	1941	1953	1956

DECEMBER 1970. TABLE 1 1c. (3)

DAILY MAXIMUM AND MINIMUM TEMPERATURES(°C)

	NAJAF		DIWANIYA		NASIRIYA		BASRAH	
DAYS	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.
1	21.8	8.5	21.6	7.0	22.0	9.0	22.0	9.8
2	21.4	7.2	21.0	8.4	22.0	9.2	22.6	8.2
3	23.0	7.8	22.5	7.0	22.4	8.5	22.7	8.3
4	23.4	7.0	23.9	4.9	25.0	6.5	24.0	7.1
5	21.5	12.5	23.1	8.1	23.7	11.6	26.6	7.6
6	22.0	11.2	23.6	14.2	27.4	18.0	27.7	14.1
7	21.4	10.2	21.2	8.9	23.0	9.5	24.6	10.2
8	21.4	6.6	21.9	7.0	23.0	8.1	23.5	7.7
9	14.5	8.4	14.9	8.1	17.8	9.7	20.6	11.5
10	18.0	4.2	19.5	1.9	19.7	3.5	18.4	6.0
11	15.0	5.4	19.4	5.8	19.0	10.5	21.8	8.8
12	12.4	5.2	14.0	5.2	12.0	9.5	21.8	13.7
13	11.8	3.0	12.2	4.5	12.4	4.1	14.3	8.8
14	8.6	3.8	8.6	2.1	12.2	2.2	15.3	3.5
15	12.4	-0.7	13.1	-0.3	13.0	1.4	13.4	2.4
16	12.9	0.5	14.6	-1.2	14.4	-0.5	15.0	1.4
17	14.2	-0.5	14.6	0.4	13.6	0.1	15.4	0.6
18	14.4	1.5	16.7	3.9	17.3	6.6	16.5	5.4
19	14.6	2.4	16.2	1.4	16.2	1.7	15.5	3.1
20	15.4	2.5	16.8	1.0	17.5	3.0	16.9	6.1
21	15.3	9.0	16.4	3.2	16.5	3.6	18.4	4.7
22	16.1	3.0	17.2	0.5	16.1	2.7	17.3	2.7
23	16.4	4.8	17.5	2.2	17.4	3.0	18.9	1.2
24	16.4	3.8	18.4	2.7	17.5	2.8	19.0	3.8
25	16.5	3.8	17.8	3.6	18.7	4.4	20.0	4.6
26	16.8	4.0	17.6	3.8	18.8	4.3	20.8	4.0
27	17.4	4.9	17.8	5.1	18.6	9.0	17.4	9.0
28	17.2	4.0	18.2	4.6	18.7	3.7	19.6	7.3
29	17.3	2.5	18.4	1.9	18.8	1.9	19.5	4.7
30	16.5	4.0	16.6	3.0	16.0	3.0	20.6	4.0
31	16.5	2.9	17.1	1.6	18.4	4.8	20.6	6.5
MEANS	16.9	5.9	17.8	4.2	18.4	5.7	19.7	6.3
NORMAL	....	...	18.4	5.1	18.8	7.1	19.6	8.5
HIGHEST	25.6	12.6	27.8	15.2	28.2	18.0	30.4	19.8
DAY	9th	24th	1&4th	8th	5th	6th	1st	9th
YEAR	1964	1968	1943	1958	1956	1970	1962	1948
LOWEST	8.6	-2.5	8.3	-5.6	8.0	-5.0	7.8	-2.6
DAY	14th	28th	30th	30th	18th	6th	26th	13th
YEAR	1970	1964	1948	1948	1956	1941	1963	1956

DECEMBER 1970. TABLE 2. (4)

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	5.6	5.2	5.7	9.4	10.6	9.1	7.0	6.1	7.3
MOSUL	4.2	3.6	5.4	10.6	13.5	9.9	6.5	5.1	7.4
SALAHADDIN	2.9	2.7	4.6	8.3	7.7	5.3	3.9	3.2	4.8
KIRKUK	7.0	6.0	8.4	14.1	15.1	10.7	8.6	7.4	9.7
ANAH	2.0	1.1	2.5	10.3	13.7	10.8	6.3	3.5	6.3
KHANAQIN	...	2.3	4.7	11.7	14.1	10.6	6.8	...	8.0
RUTBAH	1.9	0.5	4.2	11.7	13.9	10.2	6.2	3.6	6.5
HABBANIYA	5.4	4.5	8.0	13.9	15.3	11.4	8.1	5.7	8.0
BAGHDAD	4.3	3.3	7.5	14.5	16.2	11.8	7.5	5.5	8.8
HAI	7.6	6.1	9.1	16.3	17.8	13.8	10.8	8.8	11.2
NAJAF	7.0	5.7	7.8	14.5	16.5	12.9	10.2	8.4	10.4
DIWANIYA	6.5	5.3	8.7	15.5	17.3	13.4	10.3	8.0	10.6
NASIRIYA	7.9	6.8	9.6	16.4	18.1	14.8	11.5	9.5	11.8
BASRAH	9.1	7.7	10.8	17.5	18.9	14.4	12.1	10.4	12.6

TABLE 3. WET BULB TEMPERATURES (°C)

SINJAR	3.3	2.9	3.3	6.0	6.6	5.9	4.4	3.6	4.5
MOSUL	3.5	2.9	4.2	7.9	9.6	7.7	5.4	4.3	5.7
SALAHADDIN	1.7	1.4	2.3	4.7	4.7	3.3	2.1	1.9	2.8
KIRKUK	4.9	4.2	5.7	8.8	9.2	7.3	6.1	5.2	6.4
ANAH	0.9	0.2	1.4	7.0	8.8	7.1	4.1	2.0	3.9
KHANAQIN	...	2.0	3.6	8.4	9.2	7.9	5.1	...	6.0
RUTBAH	-0.7	-0.4	2.4	7.0	8.1	6.1	3.9	2.0	3.6
HABBANIYA	3.7	3.2	5.9	9.6	10.2	8.2	6.2	4.9	6.1
BAGHDAD	3.1	2.3	5.4	10.0	10.6	8.3	5.5	4.0	6.2
HAI	5.9	4.9	7.1	11.4	11.9	10.0	8.3	6.9	8.3
NAJAF	5.2	4.3	5.6	9.5	10.1	8.6	7.2	6.1	7.1
DIWANIYA	4.9	4.0	6.5	10.5	11.0	9.5	7.4	6.0	7.5
NASIRIYA	5.5	4.8	6.9	10.8	11.3	10.2	8.2	6.8	8.1
BASRAH	7.6	6.5	8.6	12.6	13.2	11.1	9.8	8.8	9.8

TABLE 4. VAPOUR PRESSURE (MBS.)

SINJAR	6.1	5.9	6.1	6.8	6.7	6.8	6.4	6.0	6.4
MOSUL	7.5	7.2	7.5	8.7	8.9	8.9	8.2	7.7	8.1
SALAHADDIN	6.0	5.8	5.6	5.8	6.1	6.1	6.2	6.2	6.0
KIRKUK	7.3	7.1	7.2	7.3	7.1	7.7	7.7	7.4	7.4
ANAH	5.8	5.7	6.0	7.5	7.6	7.2	6.6	6.0	6.6
KHANAQIN	...	6.5	7.1	8.4	7.7	8.5	7.5	...	7.2
RUTBAH	5.6	5.4	6.0	6.4	6.2	6.3	6.3	5.9	6.1
HABBANIYA	7.0	6.9	7.8	8.8	8.7	8.3	8.1	7.5	7.9
BAGHDAD	6.9	6.6	7.5	8.8	8.4	8.3	7.6	7.1	7.7
HAI	8.2	7.9	8.6	9.7	9.4	9.7	9.1	8.5	8.9
NAJAF	7.6	7.4	7.5	8.1	7.4	7.9	7.9	7.8	7.7
DIWANIYA	7.5	7.2	8.0	8.8	8.3	8.9	8.1	7.8	8.1
NASIRIYA	7.4	7.2	8.0	8.5	8.0	8.8	8.4	8.0	8.0
BASRAH	9.4	9.0	9.6	10.9	10.7	10.8	10.5	10.3	10.2

TABLE 5. DEW -POINT (°C

SINJAR	-0.2	-1.0	-0.7	1.1	0.8	1.3	0.4	-0.7	0.1
MOSUL	2.4	2.0	2.6	4.7	5.0	5.1	3.8	3.0	3.6
SALAHADDIN	-0.5	-0.7	-1.3	-0.7	-0.2	0.1	0.7	-0.4	-0.4
KIRKUK	2.2	1.7	1.9	2.2	1.7	2.8	2.8	2.3	2.2
ANAH	-1.1	-1.4	-0.6	2.7	2.7	2.1	0.8	-0.5	0.6
KHANAQIN	...	0.2	2.1	4.3	3.1	4.5	2.7	...	2.8
RUTBAH	-1.3	-2.0	-0.5	0.4	0.1	0.2	0.4	0.6	-0.7
HABBANIYA	1.8	1.4	3.2	4.8	4.8	5.0	3.1	3.0	3.0
BAGHDAD	1.2	0.7	2.5	4.9	4.3	4.1	2.8	1.7	2.8
HAI	4.0	3.4	4.7	6.4	5.9	6.3	5.4	4.5	5.1
NAJAF	2.8	2.3	2.6	3.7	2.4	3.3	3.3	3.1	2.9
DIWANIYA	2.7	2.1	3.6	5.0	4.1	5.2	3.8	3.3	3.7
NASIRIYA	2.4	2.1	3.4	4.4	3.6	5.1	4.3	3.4	3.6
BASRAH	5.7	5.1	6.1	7.9	7.7	7.9	7.4	7.0	6.9

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

STATIONS	0000	0300	0600	0900	1200	1500	1800	2100	MEANS
SINJAR	66	66	64	57	52	60	64	63	62
MOSUL	89	90	83	68	58	72	83	87	79
SALAHADDIN	80	79	67	55	60	70	78	77	71
KIRKUK	74	72	66	47	43	61	70	73	63
ANAH	80	84	80	60	48	56	69	76	69
KHANAQIN	,,	86	82	61	49	66	75	,,	69
RUTBAH	80	84	72	47	39	51	68	75	65
HABBANIYA	77	80	73	57	51	66	71	77	69
BAGHDAD	82	84	71	54	47	58	73	77	68
HAI	80	84	75	53	47	63	70	75	68
NAJAF	76	80	72	50	40	54	64	72	64
DIWANIYA	78	80	71	50	42	58	65	73	65
NASIRIYA	69	73	66	46	40	53	62	66	59
BASRAH	80	84	73	54	49	66	74	80	70

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

SINJAR	22.2	22.0	22.6	21.7	20.4	20.7	22.0	22.5	1021.8
MOSUL	22.7	22.6	23.4	22.7	20.7	21.3	22.4	22.8	1022.3
SALAHADDIN	21.7	21.8	21.9	20.6	19.6	21.5	22.9	23.0	1021.8
KIRKUK	21.8	21.7	22.3	21.1	20.0	20.9	21.8	22.1	1021.8
ANAH	22.8	22.8	23.9	22.8	21.1	21.5	22.9	24.5	1022.8
KHANAQIN	,,,,	24.8	25.2	24.6	23.1	23.5	24.7	,,,,	1023.0
RUTBAH	20.8	21.4	22.4	21.1	19.8	20.7	21.7	21.2	1021.1
HABBANIYA	21.2	21.3	22.6	18.2	20.5	20.7	21.6	21.6	1020.9
BAGHDAD	21.2	21.2	22.5	21.7	20.3	20.7	21.5	21.7	1021.4
HAI	20.2	20.5	21.9	21.2	19.7	20.0	20.7	20.7	1020.6
NAJAF	21.6	21.8	23.3	22.3	20.8	21.2	22.0	22.1	1021.9
DIWANIYA	21.0	21.2	22.5	21.6	16.7	20.5	21.3	21.5	1020.8
NASIRIYA	20.1	20.4	21.9	20.7	19.2	19.8	20.6	20.5	1020.4
BASRAH	20.2	20.4	21.8	20.7	19.4	19.8	20.7	20.6	1020.5

TABLE 8. TOTAL CLOUD AMOUNT (OKTAS)

SINJAR	2.3	2.8	4.8	3.8	3.8	3.5	2.4	2.0	3.2
MOSUL	2.7	3.2	4.3	4.1	4.1	3.7	2.6	2.7	3.4
SALAHADDIN	3.4	3.6	4.6	4.9	5.0	4.8	4.0	3.9	4.3
KIRKUK	2.7	2.8	3.5	3.3	3.6	3.1	2.8	2.5	3.0
ANAH	2.2	2.3	3.6	3.0	3.0	2.9	1.7	2.2	2.6
KHANAQIN	,,,	1.1	2.7	3.4	3.3	2.7	1.7	,,,	2.2
RUTBAH	1.5	1.9	3.3	2.9	3.5	2.9	1.9	1.4	2.4
HABBANIYA	2.3	2.3	2.7	3.0	3.0	2.6	2.0	2.0	2.5
BAGHDAD	1.9	2.3	3.3	3.5	3.6	3.2	2.0	2.4	2.8
HAI	1.3	2.0	2.4	2.4	2.6	2.5	1.5	1.4	2.0
NAJAF	1.9	2.0	3.0	3.3	3.4	3.0	1.8	1.9	2.5
DIWANIYA	1.9	1.5	2.8	2.7	3.2	2.6	1.0	1.1	1.9
NASIRIYA	1.5	2.3	2.8	2.6	2.9	3.2	1.5	1.1	2.2
BASRAH	2.4	2.3	2.7	3.0	3.2	2.8	2.7	2.2	2.7

TABLE 9. LOW CLOUD AMOUNT (OKTAS)

SINJAR	1.9	2.3	3.2	1.8	2.4	2.4	1.7	1.6	2.2
MOSUL	2.2	2.4	2.9	2.1	2.8	2.4	1.9	2.1	2.4
SALAHADDIN	2.4	2.4	2.7	2.9	3.4	3.2	2.7	3.0	2.8
KIRKUK	1.6	1.8	1.9	2.0	2.4	1.9	1.9	1.6	1.9
ANAH	1.5	1.4	1.5	1.4	1.4	1.5	0.7	0.8	1.3
KHANAQIN	,,,	0.5	0.5	0.7	1.3	0.9	0.6	,,,	0.7
RUTBAH	0.7	0.8	0.8	1.0	1.7	1.3	0.6	0.7	1.6
HABBANIYA	0.5	0.5	0.5	0.7	0.8	0.7	0.6	0.5	0.6
BAGHDAD	0.3	0.4	0.6	0.9	1.3	0.8	0.4	0.7	0.7
HAI	0.3	0.8	1.1	0.7	1.2	1.1	0.6	0.5	0.8
NAJAF	0.8	0.9	1.1	1.0	1.2	0.9	0.7	0.6	0.9
DIWANIYA	0.1	0.6	0.4	0.9	1.2	0.6	0.4	0.3	0.6
NASIRIYA	1.1	1.2	1.2	0.8	1.4	1.5	0.9	0.4	1.1
BASRAH	0.7	0.7	1.0	1.5	1.5	1.0	1.1	0.9	1.1

DECEMBER 1970. TABLE 10a. (6)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

DECEMBER 1970. TABLE 10b. (7)

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

SURFACE WIND NUMBER OF OBSERVATIONS OF:

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

TABLE 11.

HIGHEST WIND SPEED DURING ONE HOUR.

STATIONS	HIGHEST WIND SPEED DURING ONE HOUR (V.K.)	DIRECTION	TIME GMT.	DAY
SINJAR	20 KNOTS	030	1500	10th
MOSUL	19	180	0900	10th
SALAHADDIN	45	190	1500	10th
KIRKUK	30	160	1500	10th
ANAH	36	180	0900	10th
KHANAQIN	18	170	1800	10th
RUTBAH	30	250	0900	10th
HABBANIYA	20	180	1200	10th
BAGHDAD	18	120	2100	5 th
HAI	25	090	2100	11th
NAJAF	20	300	1200	9 th
DIWANIYA	18	280	0900	9 th
NASIRIYA	20	320	0900	2 nd
BASRAH	20	120	0600	12th

DECMBER 1970. TABLE 12a.

DAILY PRECIPITATION (MILLIMETERS) tr. < 0.05mm

DAYS	SINJAR	MOSUL	SALAHADDIN	KIRKUK	ANAH	KHANAQIN	RUTBAH
1							
2							
3							
4							
5		tr.		1.0			
6	2.0	1.0					
7	6.2		3.8		0.7		
8	13.2	14.5	1.0	4.7	5.3		1.0
9	6.5	3.2	1.7	3.3			
10	4.6	2.6	5.8	12.0	tr.	3.3	tr.
11	0.8	2.4	0.3	tr.		0.3	
12			tr.				4.9
13							
14							
15							
16							
17							
18							
19							
20							
21	1.4						
22	1.0						
23		2.0					
24							
25							
26							
27							
28							
29							
30							
31							
TORL	35.7	25.8	12.6	21.0	6.0	3.6	5.9
NORMAL	79.8	62.2	92.8	61.9	23.7	56.3	20.6
HIGHEST	65.5	70.9	152.4	46.3	45.6	71.4	45.7
DAY	20th	30th	23rd	30th	3rd	21st	26th
YEAR	1949	1945	1961	1945	1949	1956	1935

DECMBER 1970. TABLE 12b. (10)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	HABBANIYA	BAGHDAD	HAI	NAJAF	DIWANIYA	NASIRIYA	BASRAH
1							
2							
3							
4		tr.		tr.			
5	0.2	tr.	1.5	tr.	tr.	0.9	0.9
6	tr.					0.3	
7							
8	11.0	7.8	1.8	2.2	2.7	tr.	8.1
9		tr.					
10		0.6		tr.			
11		tr.			0.7	8.0	15.0
12			9.5	tr.	0.6	3.5	10.4
13		1.6		4.7	0.4		
14			0.5				tr.
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26				tr.		0.3	5.2
27							
28							
29							
30							
31							
TOTAL	11.2	10.0	13.3	6.9	4.4	13.0	39.6
NORMAL	20.0	25.7	28.4	11.1	25.3	24.5	36.7
HIGHEST	28.2	40.0	41.0	27.0	37.6	31.2	57.0
DAY	13th	5th	5th	7th	18th	3rd	5th
YEAR	1938	1954	1954	1961	1941	1963	1954

DECEMBER 1970. TABLE 12c.

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	HIN-DIYA	MI-QAL	DUJ-AIL	HADI-THA	QA-IM	SHAI-KHAN	HA-DAR	FAT-HA	KAR-BALA	NUM-ANIA	MAN-SOOR	MAN-DILI
1												
2												
3												
4												
5	1.0							0.2				
6						4.4				8.7		1.5
7							4.0					
8	4.0	7.1		8.0		7.0		25.0	8.6			23.0
9			1.3		8.7	7.0				0.4		17.5
10								3.7			4.0	
11		12.7	0.8			12.2						
12						2.6				0.4		4.0
13	3.2	10.2							4.6	0.4		
14												
15												
16												
17												
18												
19												
20												
21												
22												
23							2.0					
24												
25												
26		5.1										
27												
28												
29												
30												
31												
TOTAL	8.2	35.1	2.3	8.0	8.7	33.2	6.0	28.2	13.2	9.9	4.0	46.

DECEMBER 1970. TABLE 12d. (12)

DAILY PRECIPITATION (MILLIMETERS) tr. <0.05mm

DAYS	GBAI-SHIYA	HIT	SHI-RQAT	TUZ	MAHM-ODIYA	AQ-RA	KUT	FAO	IFR-AZ	QUAJ.-INJAQ	THAR-IQRAH	SAD-IYA
1												
2												
3							2.2					
4												
5						7.2						
6						8.6				11.0		
7						2.3			3.5			
8		8.6				1.7			20.0			
9			20.0		0.4	6.2			16.3	4.5	17.0	0.5
10						39.1			9.7	6.5		
11				7.6		1.9	3.1			23.0	2.0	1.0
12	7.6					1.1		39.5				
13	4.3						4.0					
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27								11.0				
28												
29												
30												
31												
TOTAL	11.9	8.6	20.0	7.6	0.4	68.1	9.3	50.5	49.5	45.0	19.0	1.5

DECMBER 1970. TABLE 12e.

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	DIA-NA	BA-DRA	DARBA-NDIKHAN	SULAI-MANIYA	DO-KAN	BASH-IQAH	TEL-AFAR	QU-AIR	SIR-SANK	TEL-ABTA	RAB-IAA
1											
2											
3											
4									7.0		
5	20.0	1.0	7.5	12.0	10.0						
6	10.4		0.8				1.0		21.8		
7									20.9		
8	6.1	3.0	5.5	4.0	3.0	15.0	14.5	15.0			
9			5.8	4.0	6.0	3.0	4.0	20.0	7.0	5.0	15.0
10	13.1		13.5		14.0	6.0	10.0	10.0	55.0		
11	16.5		5.0	24.0	21.0				25.0		8.0
12	2.2	2.0	3.0	1.6	1.0				10.0		
13											
14											
15											
16											
17											
18											
19											
20											
21											
22						2.0	3.0				
23										3.0	
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL	50.3	6.0	41.1	45.6	55.0	26.0	32.5	45.0	146.7	8.0	23.0

DECEMBER 1970. TABLE 12f. (14)

DAILY PRECIPITATION(MILLIMETERS) tr. <0.05mm

DAYS	SHA-QLAWA	TEK-RIT	DU-KAN	ZA-KHO	TEL-AFAR	HAMMAM-AL-ALIL	HA-WIJA	SAM-ARRA	BAQ-KUBA	AUD-AIM	ABU-QRAIB
1											
2											
3											
4											
5	12.5		14.0			0.4		tr.			
6	8.7		12.0	15.7	1.0	0.6				tr.	
7											
8	6.0	3.0	4.0	17.8	14.5	20.0	13.2		2.5		
9	3.8		10.0	19.1	3.5	1.8		6.5		1.0	5.0
10	66.7	2.2	32.0	12.2	7.0	4.8	4.0		5.4		
11	2.5		7.0	3.0				5.7		4.0	2.0
12	2.3		8.0	2.2							
13											
14											2.5
15											
16											
17											
18											
19											
20											
21											
22			4.0		2.5	1.0					
23	1.4										
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL	103.6	5.2	91.0	70.0	28.5	27.6	17.2	12.2	7.9	5.0	9.5

DECEMBER 1970. TABLE 13a.

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

	MOSUL			KIRKUK			KHANAQIN		HABBANIYA			BAGHDAD
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	1.2	11.3	20.4	4.5	15.5	22.6	-	-	3.9	19.8	24.5	1.6
2	1.2	10.5	20.2	3.5	15.0	22.5	-	-	5.9	19.6	24.4	1.8
3	1.5	10.8	20.4	5.4	14.7	22.2	-	-	3.9	19.3	24.3	1.3
4	0.6	11.5	19.7	6.9	15.0	22.2	-	-	2.2	19.0	24.0	0.6
5	2.6	11.4	20.0	8.6	15.0	22.1	-	-	10.6	19.0	23.8	9.6
6	8.0	14.1	19.7	11.8	15.5	21.7	-	-	7.8	18.8	24.0	10.2
7	2.0	11.6	19.4	3.8	15.1	21.6	-	-	9.5	19.3	23.6	5.8
8	-0.1	11.4	19.5	6.5	14.5	21.6	-	-	5.0	19.0	23.5	0.6
9	5.0	11.3	19.1	7.9	14.6	21.4	-	-	7.2	18.3	23.3	5.0
10	3.1	11.3	18.7	6.0	14.4	21.2	-	-	-0.3	17.4	23.2	1.0
11	-0.5	7.0	19.0	-2.5	13.2	21.1	12.8	20.2	0.9	16.5	23.0	2.5
12	0.2	8.6	18.7	7.1	13.1	21.1	13.0	20.1	0.6	15.8	23.0	0.6
13	-4.4	7.6	18.6	-0.4	13.3	20.7	12.7	20.0	-1.1	15.2	22.8	-2.3
14	-5.9	8.5	18.6	-1.5	12.0	20.6	11.0	19.7	-1.6	15.0	22.4	-4.6
15	-2.4	5.4	18.2	-3.1	11.4	20.4	10.3	19.1	-2.8	14.3	22.0	-3.8
16	-7.1	5.0	18.0	-2.4	11.0	20.3	9.7	19.3	-4.4	14.0	22.0	-6.0
17	-5.1	5.0	17.6	-0.5	10.5	20.0	9.3	18.9	-5.0	10.2	21.7	-6.8
18	-6.6	5.4	12.8	2.1	10.5	19.7	9.5	18.5	-1.6	10.5	21.0	-4.3
19	-1.8	4.8	17.4	1.2	10.5	19.4	9.8	18.3	-4.7	11.0	20.7	-5.7
20	-6.5	4.9	17.0	-0.4	11.0	19.4	10.1	18.0	-2.2	11.6	20.2	-3.6
21	-6.6	5.4	16.9	0.4	10.7	19.0	9.8	17.8	-2.2	12.0	20.0	-3.7
22	-7.2	5.5	15.0	-0.5	10.1	18.9	9.0	17.7	-3.0	12.0	19.8	-4.6
23	-1.4	7.1	16.8	4.2	10.2	18.6	9.7	17.5	-1.6	12.2	19.6	-2.8
24	-5.0	6.0	16.1	0.5	10.8	18.7	10.3	17.3	-0.6	12.5	20.0	-1.5
25	-4.5	6.1	16.0	1.0	10.6	18.4	10.2	17.2	-1.6	12.5	19.5	-2.0
26	-2.2	6.5	16.0	2.2	10.6	18.3	10.0	17.0	-1.3	12.8	19.0	0.9
27	-2.0	6.5	16.0	-0.3	10.7	18.2	10.3	17.0	0.0	12.8	19.0	-2.5
28	-6.5	6.1	15.6	0.0	10.5	18.1	10.3	16.9	-1.6	12.8	19.0	-2.3
29	-5.0	4.8	15.3	-1.6	10.5	17.8	10.2	16.8	-2.2	12.8	18.8	-4.0
30	-2.2	5.2	15.5	0.1	10.3	17.8	10.0	16.7	-2.8	12.8	18.9	-3.1
31	-2.4	5.2	15.2	-2.0	10.0	17.8	10.0	16.8	-3.3	12.3	18.7	-5.0
MEANS	-1.9	7.8	17.7	2.2	12.3	20.1	10.9	18.1	0.4	14.9	22.2	-0.9

DECEMBER 1970. TABLE 13b.

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

	HAI	NAJAF		DIWANIYA			NASIRIYA			BASRAH
DAYS	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS	0.3M	1.2M	GRASS
1	6.8	15.5	23.8	3.7	18.1	24.5	3.3	20.8	26.5	4.9
2	6.8	15.1	23.2	6.9	18.5	24.5	8.0	20.4	26.4	5.4
3	6.8	15.2	23.2	4.5	18.0	24.2	4.5	20.0	26.4	2.8
4	5.6	14.8	22.8	1.4	17.8	24.0	0.5	19.8	26.4	2.5
5	8.4	15.3	22.7	6.8	17.8	24.2	7.0	19.8	26.2	0.9
6	11.2	15.5	22.5	12.8	18.2	23.9	15.0	20.5	26.0	11.6
7	10.9	15.5	22.5	4.9	18.1	23.7	7.1	20.7	26.0	6.5
8	4.5	14.8	22.5	5.2	17.8	23.5	0.7	19.7	25.7	2.0
9	5.8	14.0	22.0	6.2	17.6	23.7	6.5	19.9	25.6	7.4
10	3.0	13.0	22.1	-0.9	16.5	23.2	-2.9	18.8	25.5	1.9
11	7.0	13.7	21.9	2.0	16.2	23.3	10.0	18.6	25.3	6.4
12	8.4	13.4	21.7	0.6	16.0	23.0	9.0	19.0	25.3	13.0
13	3.8	13.2	21.5	2.8	15.3	23.0	2.2	17.0	25.0	8.4
14	2.2	11.5	21.2	-2.8	14.5	23.0	-4.6	15.5	25.0	0.0
15	-1.0	9.8	21.4	-2.0	13.6	22.7	-1.0	14.8	24.8	-2.4
16	0.0	10.2	21.2	-5.3	13.0	22.7	-4.0	14.2	24.7	-2.9
17	0.6	10.3	20.4	-4.8	12.7	22.4	-6.6	13.7	24.4	-5.9
18	2.8	9.6	19.8	2.2	12.8	22.2	3.9	13.8	24.2	1.4
19	2.6	9.8	19.3	-0.2	13.0	22.2	-5.0	14.0	24.0	0.7
20	3.0	9.5	18.8	-2.5	12.8	21.8	0.0	14.2	24.0	2.7
21	3.2	11.0	18.6	-1.9	12.7	21.6	-2.5	14.1	23.5	-0.2
22	2.1	9.7	18.2	-3.3	12.8	22.0	-4.3	14.1	23.3	-1.4
23	2.2	10.0	17.8	-1.7	12.7	21.3	-4.2	14.0	23.4	-3.5
24	-1.0	10.0	17.5	-0.5	12.8	21.2	-3.4	14.0	23.0	-1.0
25	2.6	10.2	17.5	0.9	12.8	20.9	0.8	14.3	22.7	0.1
26	2.8	10.2	17.1	1.0	13.0	20.9	-2.4	14.3	22.7	-0.2
27	4.9	10.7	17.1	2.5	13.1	20.7	7.0	15.3	22.5	2.0
28	3.0	10.5	17.0	1.0	13.2	20.5	1.2	15.3	22.5	4.0
29	2.0	10.3	17.2	-1.1	13.2	20.7	-1.0	14.7	22.3	0.6
30	3.7	10.1	16.8	-0.6	13.2	20.5	0.1	14.5	22.4	-0.4
31	3.0	10.8	16.7	-1.0	13.8	21.2	3.5	14.5	22.2	4.2
MEANS	4.1	12.0	20.2	1.2	14.9	23.1	1.6	16.6	24.4	2.3

DECEMBER 1970. TABLE 14. (17)

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

DAYS	SIN-JAR	MO-SUL	KIR-KUK	ANAH	DIWA-NIYA	BAG-HDAD	NAJAF	NASI-RIYA	BASRAH
1	3	2	2	3	2	3	2	3	2
2	2	2	2	2	1	3	2	2	1
3	3	2	2	2	1	3	2	1	3
4	3	3	2	1	1	4	2	3	1
5	3	4	5	2	3	7	1	2.9	3.9
6	5	4	3	1	2	4	3	3.3	3
7	1.2	2	2	2	2	2	2	3	2
8	2.2	1.6	0.7	0.7	1.7	6.8	5	3	4.1
9	5.5	1.2	0.3	1.5	2	4	2	0	3
10	4.6	1.6	4	2	2	0.6	2	3	3
11	0.8	1.4	1	1	2.7	1	2	4.0	1
12	2.0	2	1	1	1.6	2	2	0.5	2.4
13	1.0	2	1	1	1.4	0.5	3	2	2
14	1.0	2	2	0	1	3	0	2	2
15	1.0	2	2	1	2	0	3	0	2
16	1.0	2	1	1	2	2	2	2	1
17	2.0	2	1	1	1	1	2	0	2
18	1.0	2	2	1	1	1	2	3	3
19	1.0	2	0	2	2	1	1	2	3
20	2.0	2	2	2	2	2	2	0	3
21	2.4	2	2	1	2	3	1	3	1
22	1.0	2	0	1	1	2	2	0	1
23	3.0	1	1	1	1	2	2	2	2
24	2.0	3	2	1	1	3	2	0	1
25	2.0	3	1	2	1	2	3	3	2
26	2.0	3	2	1	1	2	3	0.7	1.2
27	2.0	3	2	1	2	3	1	4	2
28	2.0	3	1	2	2	4	2	2	2
29	2.0	3	2	1	2	3	2	2	2
30	2.0	3	2	1	2	2	2	0	3
31	2.0	2	1	2	2	4	1	3	1
TOTAL	66.7	70.8	52.0	42.2	51.4	75.0	63.0	58.4	65.6
MEAN	2.2	2.3	1.7	1.4	1.7	2.4	2.0	1.9	2.1

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

STATIONS	RAIN	SNOW	HAIL	THUNDER STORM	FOG	MIST	HAZE	DUST RISING	DUST SUSPENDED	DUST STORM	GROUND FROST	STATE OF SKY CLEAR	STATE OF SKY CLOUDY	DURATION OF SUNSHINE-HOURS MONTH TOTAL	MAX. HOURS	DAY	NO. OF DAYS WITHOUT
SINJAR	8	0	0	0	2	9	0	0	0	0	3	9	3	-	-	-	-
MOSUL	6	0	0	0	2	2	1	0	0	0	19	8	4	179.2	9.5	1st	3
SALAHADDIN	5	2	0	0	5	8	0	0	0	0	9	6	8	-	-	-	-
KIRKUK	4	0	0	0	0	5	8	2	0	0	6	10	5	-	-	-	-
KHANAQIN	1	0	0	0	0	9	0	0	0	0	3	7	3	-	-	-	-
ANAH	2	0	0	0	1	9	2	2	0	0	18	12	0	-	-	-	-
RUTBAH	2	0	0	0	0	2	0	1	0	0	19	12	0	-	-	-	-
HABBANIYA	2	0	0	0	1	19	9	0	0	0	6	14	1	241.8	10.5	28th	1
BAGHDAD	2	0	0	1	1	16	14	1	0	0	12	11	2	226.3	9.5	3rd	1
HAI	4	0	0	0	0	0	0	0	1	0	0	15	1	-	-	-	-
NAJAF	2	0	0	0	0	0	0	1	0	0	2	14	0	-	-	-	-
DIWANIYA	4	0	0	1	0	0	0	0	0	0	2	16	0	-	-	-	-
NASIRYA	5	0	0	0	1	1	1	0	1	0	1	14	2	166.3	9.4	4th	2
BASRAH	5	0	0	5	0	9	1	0	0	0	6	11	2	238.5	9.8	4th	0

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

STATIONS	PRESSURE AT MSL-1970-mbs. HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY	PRESSURE AT MSL - RECORDS - mbs. HIGHEST	TIME GMT.	DAY	YEAR	LOWEST	TIME GMT.	DAY	YEAR	RELATIVE HUMIDITY % - 1970 HIGHEST	TIME GMT.	DAY	LOWEST	TIME GMT.	DAY
SINJAR	1032.5	0600	31st	1007.1	1200	10th	1032.5	0600	31st	1970	1003.1	1500	11th	1963	99	0300	9th	37	0300	13th
MOSUL	1032.9	1800	31st	1007.8	1200	10th	1033.7	0600	26th	1947	1004.0	2100	30th	1963	100	0600	7th	38	1200	30th
SALAHADDIN	1032.5	1800	31st	1008.7	1500	10th	1032.5	1800	31st	1970	1008.0	1800	26th	1968	100	0900	13th	27	0900	18th
KIRKUK	1031.4	0600	31st	1011.0	0300	12th	1031.5	0600	13th	1956	1002.9	1500	30th	1963	96	1800	10th	25	1200	28th
KHANAQIN	1033.4	0600	12th	1010.1	0600	15th	1033.4	0600	12th	1970	1002.4	1200	30th	1963	97	0300	15th	38	1200	23rd
ANAH	1034.2	0600	31st	1010.1	0900	10th	1034.2	0600	31st	1970	1006.3	1500	26th	1968	98	0300	13th	28	1500	4th
RUTBAH	1033.1	0600	31st	1010.4	1200	10th	1035.9	0600	26th	1947	1005.5	0000	16th	1951	100	0300	18th	19	1200	4th
HABBANIYA	1031.9	0600	31st	1010.9	0300	12th	1031.9	0600	31st	1970	1003.8	1200	30th	1963	95	0300	16th	26	0900	4th
BAGHDAD	1031.6	0900	31st	1011.1	0000	12th	1032.2	0600	13th	1956	1003.8	1200	30th	1963	100	0000	10th	20	1500	12th
HAI	1031.1	0600	31st	1010.3	0000	12th	1031.1	0600	31st	1970	1005.0	0900	22nd	1952	97	0000	15th	34	0900	28th
NAJAF	1032.6	0600	31st	1011.3	0000	12th	1032.6	0600	31st	1970	1000.5	0600	10th	1963	95	0300	9th	22	1200	4th
DIWANIYA	1032.2	0600	31st	1010.9	0000	12th	1032.2	0600	31st	1970	1004.8	1200	30th	1963	96	0300	9th	29	1200	4th
NASIRIYA	1031.1	0600	31st	1010.7	0000	12th	1031.1	0600	31st	1970	1005.7	1200	21st	1961	96	1200	12th	25	0900	4th
BASRAH	1030.2	0600	16th	1010.3	1200	12th	1030.9	0600	27th	1939	1007.3	2100	17th	1966	97	0300	12th	34	1200	2nd

NOTE : KHANAQIN STARTS FROM 10/12/70 TO THE END OF THE MONTH .

DECEMBER - 1970 . TABLE-16.

BAGHDAD RADIOSONDE STATION . TIME 000 GMT. UPPER AIR CLIMATOLOGICAL DATA.

AVERAGE SURFACE	HEIGHT OF PRESSURE "GPM"				TEMPERATURE °C				DEW POINT °C		WIND						
	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	HIGHEST	LOWEST	N	AVERAGE	N	AVERAGE VECTOR WIND		MAX. SPEED		MIN. SPEED	
												DIRECTION	SPEED KNOTS	DIRECTION	SPEED KNOTS	DIRECTION	SPEED KNOTS
1000	31	168	234	99	31	9.4	17.5	4.0	31	1.8	31	340°	3	130°	18	000	00
850	31	1510	1578	1441	31	4.0	11.5	-1.0	31	-6.3	31	280	9	180	32	320	04
700	31	3065	3153	2979	31	-4.2	3.5	-12.1	31	-16.5	31	260	15	200	33	310	07
500	31	5634	5780	5490	31	-21.7	-17.1	-30.2	31	-35.2	31	260	30	270	68	310	11
300	31	9203	9435	9005	31	-46.5	-41.0	-51.8	31	-57.5	31	260	50	240	102	020	12
200	30	11809	12050	11652	30	-58.2	-49.1	-64.0	30	-68.3	30	260	84	210	210	310	31
150	30	13616	13805	13442	30	-59.2	-51.0	-65.2	30	-69.6	29	260	81	210	230	290	14
100	30	16137	16287	15944	30	-62.6	-57.4	-67.5	23	-71.8	28	260	60	280	100	280	10
70	28	18336	18473	18140	28	-62.3	-59.0	-65.3	16	-71.7	25	260	54	220	93	240	32

DECEMBER-1970. TABLE-17

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

STATION : BAGHDAD.

TIME OF OBS GMT	FREEZING LEVEL										FIRST TROPOPAUSE										MAXIMUM WIND SPEED			
	N	AVERAGE			MAXIMUM			LOWEST			N	AVERAGE			MAXIMUM			LOWEST			HEIGHT "GPM"	PRESSURE "mbs"	DIRECTION 000-360	SPEED "Knots"
		HEIGHT "GPM"	PRESSURE "mbs"	DEW POINT °C	HEIGHT "GPM"	PRESSURE "mbs"	DEW POINT °C	HEIGHT "GPM"	PRESSURE "mbs"	DEW POINT °C		HEIGHT "GPM"	PRESSURE "mbs"	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE "mbs"	TEMPERATURE °C	HEIGHT "GPM"	PRESSURE "mbs"	TEMPERATURE °C				
0001	31	2280	771	-11.6	3640	658	-11.3	40	1023	-5.8	30	10531	226	-55.4	12720	174	-59.8	6600	426	-40.8	12900	165	220°	240