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مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

شعبة المناخ

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معلومات مناخية لشهر كانون الثاني ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR JANUARY 1964

مجلد ٢٧ ، عدد ( ١ ) ، كانون الثاني ١٩٦٤ .

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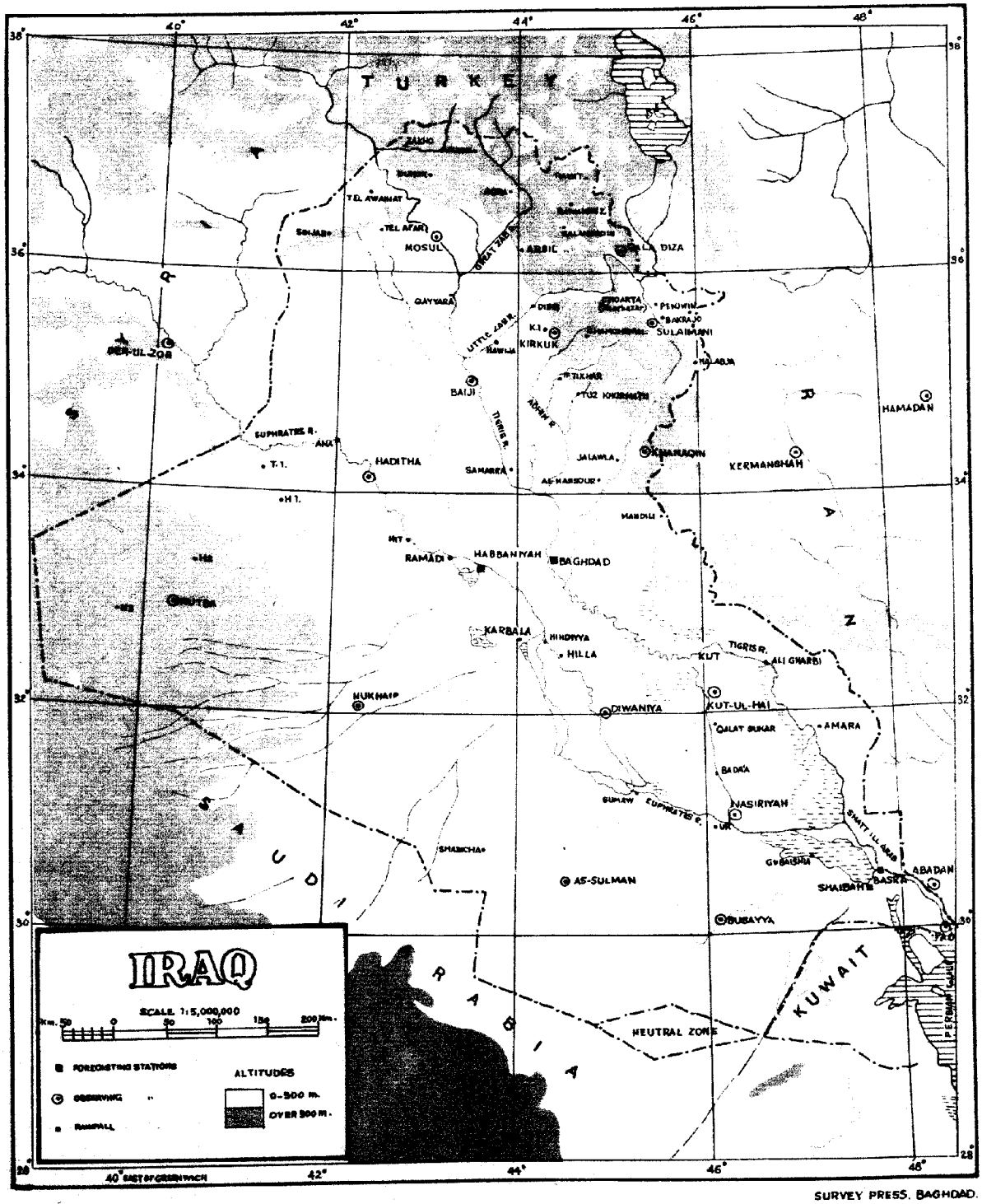


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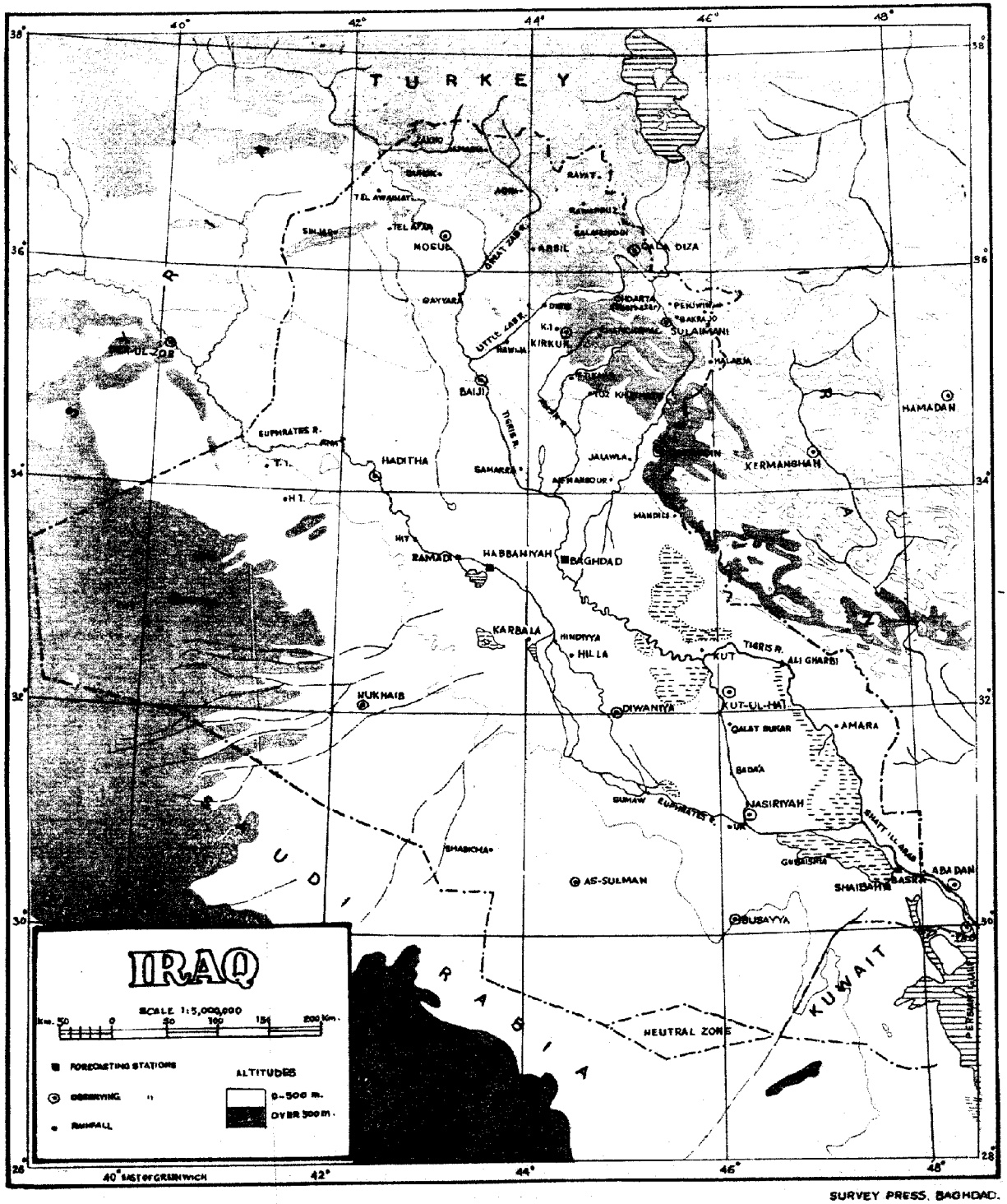


SURVEY PRESS, BAGHDAD.

## GEOGRAPHICAL DATA

### METEOROLOGICAL STATIONS

| STATION | LATITUDE N. | LONGITUDE E. | HEIGHT ABOVE M. S. L. (METERS) |
|---|---|---|---|
| SINJAR | 36 19 N. | 41 50 E. | 538 meters |
| MOSUL | 36 19 | 43 09 | 222.6 |
| KIRKUK | 35 28 | 44 24 | 330.8 |
| KHANAQIN | 34 18 | 45 26 | 201.2 |
| 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

| STATIONS | LATITUDE N. | LONGITUDE E. | HEIGHT ABOVE M. S. L. (METERS. |
|---|---|---|---|
| ZAKHO | 37 08 N. | 42 41 E. | 442 Meters |
| AMADIA | 37 05 | 43 30 | 1236 |
| RAWANDUZ | 36 37 | 44 33 | 1006 |
| AQRA | 36 45 | 43 53 | 716 |
| TELAFAINAT | 36 41 | 42 24 | 346 |
| TELAAFAR | 36 22 | 42 28 | 273 |
| QAYARA | 35 48 | 43 17 | 180 |
| ARBIL | 36 11 | 44 00 | 414 |
| CHEMCHAMAL | 35 32 | 44 51 | 701 |
| SULAIMANIYA | 35 33 | 45 27 | 853 |
| PENJWIN | 35 37 | 45 58 | 1311 |
| BAKRAJO | 35 34 | 45 23 | 750 |
| HALABJA | 35 11 | 45 59 | 724 |
| IFTIKHAR | 35 03 | 44 27 | 204 |
| CHUARTAH | 35 44 | 45 33 | 1356 |
| SALAHADDIN | 36 37 | 44 13 | 1088 |
| RAYAT | 36 41 | 44 57 | 1610 |
| SANAT | 36 46 | 42 48 | - |
| DUHOK | 36 52 | 43 03 | 860 |
| MIRZARUSTAM | 36 03 | 44 58 | 459 |
| SHAQLAWA | 36 23 | 44 20 | - |
| SERSANK | 36 58 | 43 32 | 1046 |
| BINKIRD | 36 03 | 45 03 | 708 |
| HINDIYA | 32 42 | 44 17 | 224 |
| HILLA | 32 29 | 44 26 | 27 |
| KUT | 32 30 | 45 45 | 19 |
| MANDILY | 33 45 | 45 33 | 137 |
| AMARA | 31 51 | 47 10 | 9 |
| SHABICHA | 30 42 | 43 41 | - |
| SAMAWA | 31 18 | 45 16 | 6 |
| BADA'A | 31 26 | 46 11 | 9 |
| UR | 30 58 | 46 08 | 4 |
| GHABISHIYA | 30 44 | 47 05 | 4 |
| MAQIL | 30 34 | 47 47 | 2 |
| FAO | 29 59 | 48 30 | 2 |
| DIBIS | 35 41 | 44 05 | 239 |
| HAWIJA | 35 31 | 44 18 | 305 |
| TUZ | 34 53 | 44 39 | 220 |
| ANA | 34 28 | 41 27 | - |
| DIALA | 34 05 | 45 01 | 68 |
| JALAWLA'A | 34 16 | 45 09 | 119 |
| HIT | 33 38 | 42 50 | 58 |

P. T. O.

RAINFALL STATIONS ( CONTINUED )

| STATION | LATITUDE N. | LONGITUDE E. | HEIGHT ABOVE M.S.L. (METERS) |
|---|---|---|---|
| KARBALA'A | 32 37 N. | 44 04 E. | 29 Meters |
| BAIJI | 34 56 | 43 29 | 115 |
| SAMIRA'A | 34 11 | 43 50 | 65 |
| RUMADI | 33 25 | 43 17 | 49 |
| HADITHA | 34 04 | 42 22 | 140 |
| ALI AL GHARBI | 32 28 | 46 41 | 13 |
| GALALA | 36 37 | 44 49 | 1050 |
| ZUBAIR | 36 52 | 44 04 | 400 |
| DIANA | 36 39 | 44 53 | 700 |
| TAQ-TAQ | 35 53 | 44 35 | 300 |
| DUKAN | 35 57 | 45 00 | 670 |
| IFRAZ | 36 23 | 43 48 | 229 |
| QADIR KARAM | 35 11 | 44 53 | 380 |
| QANDIL YARIM | 35 45 | 43 39 | 340 |
| KOUFRI | 34 42 | 44 58 | 210 |
| AIN SIFNI | 36 41 | 43 21 | 520 |
| KOISINJANQ | 36 05 | 44 48 | 610 |
| FATHA | 35 03 | 43 34 | 150 |
| MAKHMUR | 35 46 | 43 35 | - |
| AL RUMIL | 34 59 | 43 59 | - |
| BERZINJA | 35 23 | 45 41 | - |
| DARBANDIKHAN | 35 09 | 45 47 | - |
| F 1 | 34 14 | 41 20 | - |
| K 2 | 34 55 | 43 24 | - |
| SIDIKAN | 36 46 | 44 38 | - |
| SARA DAGH | 35 19 | 45 24 | - |

NOTES ON TABLES

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

TEMPERATURE :- (in Centigrade), the measurements of temperature are made in Stevenson (Louvred) Screens in the open. The height of the thermometer bulbs is approximately 1.3 meter above the ground level.

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

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

CLEAR DAYS :- Are those on which the average cloud amount at all observation hours is 0 or 1 Okta. Cloudy days are those on which the average of cloud amount is 7 or 8 Oktas .

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

OBSERVATION : GMT.

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

JANUARY 1964 .

TABLE 1-a.

( 4 )

كانون الثاني ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 2.2 | 3.9 | 5.2 | 1.0 | 3.5 | 2.2 |
| 2 | 2.5 | 2.6 | 4.5 | 1.4 | 3.6 | 4.5 |
| 3 | 2.0 | 2.1 | 3.7 | 2.2 | 4.7 | 4.4 |
| 4 | 2.7 | 1.2 | 3.2 | 1.9 | 4.3 | 4.8 |
| 5 | 3.4 | 1.6 | 5.4 | -0.4 | 3.7 | 3.3 |
| 6 | 3.9 | 2.1 | 5.1 | 1.3 | 4.1 | 3.6 |
| 7 | 4.5 | 2.2 | 4.7 | 2.2 | 2.8 | 3.0 |
| 8 | 5.9 | 2.9 | 6.2 | 1.4 | 3.2 | 4.2 |
| 9 | 5.7 | 3.5 | 7.9 | 1.6 | 3.0 | 2.7 |
| 10 | 5.4 | 2.8 | 7.5 | 2.7 | 3.9 | 3.9 |
| 11 | 5.9 | 2.3 | 6.4 | 2.5 | 2.9 | 4.2 |
| 12 | 5.8 | 2.2 | 5.2 | 4.0 | 4.4 | 4.4 |
| 13 | 4.5 | 2.2 | 4.9 | 5.7 | 4.5 | 4.9 |
| 14 | 5.3 | 2.2 | 5.6 | 5.7 | 5.8 | 5.8 |
| 15 | 5.1 | 5.3 | 7.7 | 7.8 | 7.4 | 7.2 |
| 16 | 3.2 | 4.4 | 6.8 | 9.5 | 11.1 | 10.4 |
| 17 | 5.8 | 7.5 | 8.7 | 10.1 | 12.0 | 11.9 |
| 18 | -0.1 | 3.6 | 3.5 | 2.1 | 5.7 | 6.8 |
| 19 | -3.8 | -1.4 | -2.7 | -4.2 | -1.6 | -1.9 |
| 20 | -1.2 | -1.4 | -1.1 | -2.4 | -0.9 | -0.7 |
| 21 | -0.1 | -0.1 | 1.2 | -0.8 | 0.0 | -0.2 |
| 22 | 1.7 | 1.0 | 2.0 | 0.0 | 1.2 | 0.6 |
| 23 | 1.4 | 0.9 | 1.7 | 1.2 | 1.0 | 1.2 |
| 24 | 1.6 | 1.0 | 2.2 | 4.8 | 2.5 | 3.2 |
| 25 | -1.1 | 3.5 | 4.5 | 3.6 | 5.2 | 6.1 |
| 26 | 2.2 | 4.5 | 5.7 | 1.7 | 5.1 | 5.8 |
| 27 | 1.7 | 2.0 | 3.5 | 3.8 | 4.0 | 3.8 |
| 28 | 2.2 | 2.2 | 5.4 | 7.8 | 7.9 | 7.1 |
| 29 | 0.6 | 2.3 | 3.2 | 3.4 | 5.9 | 6.4 |
| 30 | 2.5 | 2.4 | 5.1 | 3.7 | 2.6 | 2.6 |
| 31 | 3.0 | 4.9 | 7.3 | 7.5 | 6.0 | 5.8 |
| MEANS | 2.7 | 2.5 | 4.5 | 3.0 | 4.2 | 4.3 |
| DEPARTURE FROM NORMAL | **** | -1.0 | -4.1 | -1.8 | -5.3 | -4.8 |

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

T I M E : G . M . T .

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

JANUARY 1964 .

TABLE 1-b.

كانون الثاني ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 3.4 | 5.6 | 3.2 | 3.7 | 6.9 | 8.3 |
| 2 | 5.3 | 4.8 | 3.2 | 4.1 | 4.3 | 6.9 |
| 3 | 5.4 | 5.3 | 5.1 | 5.4 | 6.7 | 7.4 |
| 4 | 6.0 | 7.3 | 5.9 | 6.6 | 7.1 | 8.3 |
| 5 | 5.5 | 4.6 | 4.0 | 3.7 | 4.5 | 7.3 |
| 6 | 6.1 | 4.9 | 4.6 | 4.2 | 4.4 | 6.4 |
| 7 | 7.2 | 4.8 | 4.9 | 4.8 | 4.6 | 6.3 |
| 8 | 6.1 | 5.0 | 5.6 | 5.3 | 4.7 | 6.5 |
| 9 | 7.6 | 7.2 | 5.1 | 6.2 | 8.2 | 8.6 |
| 10 | 8.3 | 7.9 | 6.8 | 6.9 | 8.8 | 9.0 |
| 11 | 8.2 | 8.5 | 6.7 | 6.8 | 7.9 | 9.9 |
| 12 | 8.6 | 8.4 | 6.2 | 6.2 | 7.6 | 9.5 |
| 13 | 9.6 | 8.1 | 7.4 | 6.0 | 8.9 | 8.0 |
| 14 | 9.4 | 8.2 | 8.1 | 6.8 | 7.2 | 8.3 |
| 15 | 10.5 | 9.2 | 8.7 | 8.1 | 9.5 | 9.6 |
| 16 | 15.6 | 11.7 | 11.7 | 10.3 | 10.8 | 10.5 |
| 17 | 13.6 | 14.0 | 14.3 | 12.4 | 12.8 | 14.2 |
| 18 | 10.0 | 10.9 | 8.4 | 9.1 | 12.1 | 14.0 |
| 19 | 1.1 | -0.9 | -0.7 | -1.0 | 0.3 | 2.1 |
| 20 | 2.1 | 1.3 | 0.1 | 0.1 | 0.3 | 1.0 |
| 21 | 4.4 | 3.1 | 1.5 | 1.4 | 1.8 | 2.5 |
| 22 | 2.8 | 4.2 | 2.3 | 2.2 | 2.7 | 3.0 |
| 23 | 5.1 | 4.6 | 2.2 | 2.5 | 2.7 | 3.7 |
| 24 | 7.2 | 6.6 | 4.2 | 4.2 | 3.6 | 3.8 |
| 25 | 9.3 | 6.5 | 6.5 | 5.9 | 4.6 | 5.1 |
| 26 | 7.8 | 9.0 | 6.0 | 7.0 | 6.8 | 6.4 |
| 27 | 8.0 | 6.1 | 5.2 | 5.3 | 5.9 | 7.5 |
| 28 | 10.9 | 8.1 | 7.3 | 6.8 | 6.7 | 6.9 |
| 29 | 9.0 | 9.4 | 7.5 | 7.1 | 8.2 | 8.9 |
| 30 | 6.7 | 5.0 | 5.2 | 4.3 | 5.1 | 6.7 |
| 31 | 10.0 | 8.4 | 6.9 | 7.7 | 6.9 | 7.5 |
| MEANS | 7.4 | 6.7 | 5.9 | 5.5 | 6.2 | 7.2 |
| DEPARTURE FROM NORMAL | .... | -4.3 | .... | -4.9 | -5.6 | -4.8 |

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

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1026.9 | 1025.1 | 1024.6 | 1024.5 | 1023.4 | 1023.6 |
| 2 | 26.4 | 26.9 | 25.2 | 25.1 | 24.4 | 24.4 |
| 3 | 25.3 | 25.3 | 23.6 | 21.7 | 22.1 | 22.6 |
| 4 | 24.9 | 25.5 | 23.4 | 23.6 | 22.4 | 22.0 |
| 5 | 23.3 | 23.8 | 21.4 | 24.2 | 20.8 | 20.2 |
| 6 | 24.3 | 24.6 | 24.2 | 25.1 | 23.6 | 23.2 |
| 7 | 25.3 | 26.1 | 25.4 | 25.1 | 25.0 | 25.4 |
| 8 | 23.9 | 25.1 | 23.8 | 23.2 | 23.3 | 23.7 |
| 9 | 23.9 | 24.6 | 23.0 | 23.7 | 23.0 | 23.0 |
| 10 | 26.9 | 27.7 | 25.6 | 25.4 | 25.1 | 25.0 |
| 11 | 26.3 | 27.1 | 25.3 | 25.7 | 25.0 | 24.7 |
| 12 | 26.4 | 26.7 | 26.7 | 27.4 | 26.8 | 26.8 |
| 13 | 29.5 | 29.5 | 28.5 | 27.2 | 28.2 | 28.3 |
| 14 | 24.1 | 24.9 | 23.6 | 23.1 | 22.8 | 23.2 |
| 15 | 20.5 | 20.6 | 20.7 | 20.1 | 21.0 | 20.9 |
| 16 | 19.5 | 19.2 | 19.6 | 17.8 | 18.4 | 19.6 |
| 17 | 15.9 | 15.6 | 16.7 | 15.9 | 16.2 | 17.7 |
| 18 | 08.9 | 08.2 | 10.3 | 14.5 | 12.8 | 13.1 |
| 19 | 26.0 | 24.2 | 24.8 | 28.9 | 25.4 | 25.3 |
| 20 | 29.6 | 30.6 | 30.2 | 30.6 | 29.7 | 29.8 |
| 21 | 31.1 | 31.6 | 30.3 | 30.9 | 30.4 | 30.5 |
| 22 | 28.3 | 29.0 | 27.9 | 28.3 | 27.7 | 27.8 |
| 23 | 26.4 | 27.1 | 26.3 | 25.1 | 26.0 | 26.4 |
| 24 | 27.1 | 27.5 | 27.2 | 22.8 | 26.1 | 26.6 |
| 25 | 25.0 | 24.6 | 24.5 | 20.8 | 12.6 | 23.6 |
| 26 | 25.0 | 24.2 | 23.7 | 25.8 | 24.3 | 24.9 |
| 27 | 27.0 | 27.3 | 27.0 | 26.2 | 26.7 | 27.1 |
| 28 | 25.6 | 26.2 | 25.3 | 23.1 | 24.3 | 25.3 |
| 29 | 28.1 | 27.3 | 26.7 | 27.6 | 26.6 | 26.1 |
| 30 | 31.5 | 31.5 | 30.0 | 29.3 | 30.4 | 30.4 |
| 31 | 29.4 | 29.1 | 27.9 | 22.9 | 27.2 | 27.6 |
| MEANS | 1025.2 | 1025.3 | 1024.6 | 1024.4 | 1023.9 | 1024.5 |
| DEPARTURE FROM NORMAL | **** | +5.3 | +5.5 | +4.5 | +4.9 | +5.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1033.5 | 3rd | 0600 | 1964 | 1005.5 | 18th | 0300 | 1964 | 1964 |
| MOSUL | 1033.9 | 30th | 0600 | 1964 | 1005.4 | 18th | 0300 | 1964 | |
| KIRKUK | 1032.0 | 30th | 0600 | 1964 | 1007.2 | 17th | 0300 | 1964 | |
| RUTBAH | 1032.7 | 21st | 0600 | 1964 | 1008.7 | 18th | 0300 | 1964 | |
| HABBANIYA | 1032.2 | 30th | 0600 | 1964 | 1008.7 | 18th | 0300 | 1964 | |
| BAGHDAD | 1032.3 | 30th | 0600 | 1964 | 1009.8 | 18th | 0900 | 1964 | |
| SINJAR | 1033.5 | 3rd | 0600 | 1964 | 1005.5 | 18th | 0300 | 1964 | RECORD |
| MOSUL | 1038.4 | 7th | 0600 | 1942 | 994.8 | 28th | 0200 | 1940 | |
| KIRKUK | 1032.0 | 30th | 0600 | 1964 | 1004.9 | 28th | 1200 | 1947 | |
| RUTBAH | 1039.3 | 7th | 0000 | 1942 | 1001.2 | 27th | 1300 | 1940 | |
| BAGHDAD | 1036.0 | 7th | 0600 | 1942 | 1000.4 | 28th | 0300 | 1940 | |

JANUARY 1964 — كانون الثاني ١٩٦٤

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

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHIAB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1024.0 | 1023.1 | 1021.8 | 1023.7 | 1023.2 | 1023.4 |
| 2 | 25.1 | 24.4 | 22.9 | 24.7 | 24.2 | 24.5 |
| 3 | 21.1 | 21.9 | 20.2 | 22.2 | 22.0 | 21.4 |
| 4 | 21.2 | 20.1 | 19.9 | 21.3 | 20.0 | 19.6 |
| 5 | 21.1 | 18.8 | 18.9 | 20.4 | 19.6 | 19.2 |
| 6 | 24.2 | 21.3 | 21.6 | 23.4 | 22.6 | 22.4 |
| 7 | 25.1 | 24.5 | 23.3 | 25.5 | 24.6 | 24.9 |
| 8 | 21.8 | 22.6 | 21.2 | 23.0 | 22.6 | 22.8 |
| 9 | 21.7 | 21.6 | 21.0 | 22.7 | 21.8 | 21.7 |
| 10 | 24.8 | 23.9 | 23.3 | 25.1 | 24.0 | 23.5 |
| 11 | 25.3 | 23.7 | 23.0 | 24.6 | 23.7 | 23.4 |
| 12 | 27.2 | 24.9 | 23.8 | 26.7 | 25.6 | 25.0 |
| 13 | 28.0 | 27.0 | 26.3 | 28.2 | 27.4 | 27.0 |
| 14 | 22.5 | 21.9 | 20.9 | 22.8 | 22.2 | 22.4 |
| 15 | 21.2 | 20.0 | 19.1 | 21.0 | 20.2 | 20.3 |
| 16 | 17.8 | 20.9 | 18.0 | 20.4 | 21.3 | 22.7 |
| 17 | 17.6 | 19.3 | 16.6 | 18.6 | 19.5 | 21.1 |
| 18 | 12.8 | 12.2 | 13.2 | 13.7 | 13.0 | 13.6 |
| 19 | 29.8 | 24.3 | 26.6 | 26.0 | 24.9 | 24.1 |
| 20 | 30.2 | 28.2 | 29.7 | 29.8 | 28.8 | 28.5 |
| 21 | 31.4 | 29.2 | 30.4 | 30.6 | 29.5 | 29.2 |
| 22 | 28.1 | 26.6 | 27.8 | 28.1 | 27.3 | 27.2 |
| 23 | 21.0 | 25.2 | 25.9 | 26.2 | 25.4 | 25.7 |
| 24 | 25.9 | 25.7 | 26.3 | 26.5 | 25.7 | 25.6 |
| 25 | 20.8 | 23.2 | 23.3 | 23.6 | 23.2 | 23.3 |
| 26 | 24.9 | 23.4 | 24.4 | 24.3 | 23.3 | 23.1 |
| 27 | 28.0 | 25.7 | 27.1 | 26.3 | 26.1 | 25.7 |
| 28 | 25.5 | 24.8 | 25.4 | 25.7 | 25.2 | 25.2 |
| 29 | 28.3 | 24.7 | 26.3 | 26.3 | 25.3 | 25.3 |
| 30 | 30.7 | 29.2 | 30.3 | 30.5 | 29.3 | 28.8 |
| 31 | 27.1 | 27.2 | 26.9 | 27.6 | 27.0 | 27.1 |
| MEANS | 1024.3 | 1023.5 | 1023.4 | 1024.5 | 1023.8 | 1023.8 |
| DEPARTURE FROM NORMAL | .... | +4.2 | .... | +5.8 | +5.2 | +5.2 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1032.7 | 30th | 0600 | 1964 | 1011.5 | 18th | 0900 | 1964 | 1964 |
| HAI | 1030.8 | 30th | 0600 | 1964 | 1008.4 | 18th | 1200 | 1964 | |
| NAJAF | 1032.8 | 30th | 0600 | 1964 | 1010.1 | 18th | 0900 | 1964 | |
| DIWANIYA | 1032.7 | 30th | 0600 | 1964 | 1010.2 | 18th | 1200 | 1964 | |
| NASIRIYA | 1031.6 | 30th | 0600 | 1964 | 1008.8 | 18th | 1200 | 1964 | |
| BASRAH | 1030.6 | 30th | 0600 | 1964 | 1010.3 | 18th | 1200 | 1964 | |
| HAI | 1030.8 | 30th | 0600 | 1964 | 1004.1 | 13th | 1200 | 1956 | RECORD |
| DIWANIYA | 1036.1 | 7th | 0600 | 1942 | 1000.0 | 10th | 2100 | 1953 | |
| NASIRIYA | 1035.9 | 7th | 0600 | 1942 | 1002.9 | 13th | 1200 | 1956 | |
| BASRAH | 1035.1 | 7th | 0600 | 1942 | 1003.1 | 28th | 0200 | 1940 | |

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TABLE - 3 .

المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| الايام DATE | سنجار SIN-JAR | موصل MO-SUL | كركوك KIR-KUK | رطبة RUT-BAH | حبانية HABB-ANIYA | بغداد BAG-HDAD | نخيب NUKH-AIB | هي HAI | نجف NA-JAF | ديوانية DIWA-NIYA | ناصرية NASI-RIYA | بصرة BAS-RAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 78 | 77 | 65 | 75 | 80 | 78 | 54 | 74 | 65 | 66 | 57 | 59 |
| 2 | 71 | 78 | 55 | 77 | 82 | 80 | 58 | 77 | 64 | 68 | 66 | 66 |
| 3 | 69 | 74 | 51 | 72 | 79 | 74 | 50 | 75 | 70 | 70 | 62 | 63 |
| 4 | 63 | 76 | 46 | 70 | 59 | 56 | 49 | 59 | 54 | 55 | 56 | 64 |
| 5 | 57 | 73 | 33 | 65 | 65 | 66 | 47 | 62 | 55 | 57 | 50 | 59 |
| 6 | 60 | 76 | 47 | 71 | 57 | 71 | 37 | 64 | 53 | 58 | 52 | 67 |
| 7 | 58 | 79 | 57 | 65 | 66 | 72 | 39 | 66 | 49 | 58 | 56 | 67 |
| 8 | 58 | 79 | 55 | 62 | 73 | 67 | 42 | 67 | 46 | 56 | 59 | 63 |
| 9 | 62 | 74 | 33 | 61 | 69 | 73 | 38 | 59 | 52 | 57 | 51 | 64 |
| 10 | 57 | 73 | 33 | 62 | 68 | 67 | 36 | 59 | 45 | 60 | 49 | 64 |
| 11 | 46 | 74 | 42 | 55 | 67 | 63 | 40 | 59 | 42 | 54 | 53 | 70 |
| 12 | 50 | 73 | 52 | 56 | 65 | 61 | 44 | 58 | 49 | 55 | 50 | 60 |
| 13 | 54 | 78 | 56 | 56 | 63 | 59 | 42 | 57 | 52 | 59 | 51 | 62 |
| 14 | 56 | 75 | 54 | 57 | 65 | 60 | 43 | 54 | 46 | 62 | 56 | 60 |
| 15 | 61 | 73 | 50 | 58 | 62 | 62 | 35 | 59 | 46 | 55 | 51 | 62 |
| 16 | 92 | 91 | 77 | 68 | 71 | 66 | 44 | 55 | 46 | 55 | 52 | 63 |
| 17 | 92 | 90 | 79 | 65 | 70 | 67 | 54 | 53 | 49 | 55 | 51 | 62 |
| 18 | 86 | 74 | 84 | 77 | 64 | 68 | 52 | 70 | 56 | 52 | 46 | 66 |
| 19 | 75 | 83 | 91 | 85 | 91 | 65 | 81 | 57 | 75 | 86 | 51 | 73 |
| 20 | 78 | 78 | 75 | 74 | 75 | 69 | 60 | 65 | 64 | 70 | 53 | 68 |
| 21 | 67 | 76 | 63 | 56 | 74 | 64 | 44 | 62 | 58 | 66 | 49 | 67 |
| 22 | 72 | 78 | 62 | 47 | 71 | 72 | 57 | 66 | 54 | 54 | 55 | 67 |
| 23 | 70 | 81 | 62 | 39 | 72 | 65 | 45 | 62 | 53 | 59 | 56 | 66 |
| 24 | 71 | 81 | 67 | 47 | 67 | 54 | 45 | 55 | 51 | 58 | 54 | 69 |
| 25 | 83 | 83 | 57 | 71 | 52 | 47 | 42 | 55 | 41 | 48 | 50 | 61 |
| 26 | 76 | 86 | 63 | 75 | 70 | 57 | 34 | 52 | 52 | 50 | 41 | 61 |
| 27 | 74 | 74 | 65 | 58 | 69 | 60 | 30 | 59 | 53 | 57 | 56 | 69 |
| 28 | 77 | 79 | 58 | 54 | 55 | 49 | 32 | 55 | 49 | 56 | 51 | 66 |
| 29 | 75 | 78 | 84 | 58 | 53 | 48 | 38 | 54 | 46 | 58 | 46 | 57 |
| 30 | 64 | 67 | 60 | 49 | 67 | 58 | 51 | 58 | 44 | 55 | 44 | 63 |
| 31 | 87 | 78 | 68 | 35 | 76 | 62 | 31 | 58 | 45 | 50 | 50 | 69 |
| MEANS | 69 | 78 | 59 | 62 | 68 | 64 | [illegible] | 61 | 52 | 59 | 52 | 64 |
| NORMAL | .. | 70 | 73 | 67 | 76 | 71 | .. | 69 | .. | 70 | 66 | 64 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 97 | 1800 | 16th | 36 | 1200 | 11th |
| MOSUL | 100 | 0300 | 13th | 36 | 1200 | 10th |
| KIRKUK | 100 | 0600 | 29th | 18 | 1200 | 5th |
| RUTBAH | 100 | 0300 | 19th | 10 | 0900 | 24th |
| HABBANIYA | 100 | 0600 | 19th | 30 | 1200 | 25th |
| BAGHDAD | 100 | 0300 | 11th | 18 | 1200 | 25th |
| NUKHAIB | 94 | 0600 | 23rd | 19 | 1200 | 6th |
| HAI | 95 | 0600 | 27th | 28 | 1200 | 17th |
| NAJAF | 100 | 2100 | 19th | 15 | 1200 | 6th |
| DIWANIYA | 98 | 0900 | 19th | 28 | 1200 | 12th |
| NASIRIYA | 82 | 0300 | 22nd | 19 | 1200 | 30ty |
| BASRAH | 97 | 0300 | 20ty | 23 | 1200 | 20ty |

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TABLE 4-a.

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درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| التاريخ | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 5.6 | -2.8 | 8.3 | 0.0 | 9.0 | -0.5 | 10.6 | 0.5 | 6.5 | -3.4 |
| 2 | 5.5 | -3.2 | 8.4 | -0.6 | 8.6 | 2.1 | 10.6 | 0.0 | 6.0 | -4.8 |
| 3 | 5.0 | -4.6 | 8.0 | -2.0 | 9.2 | 0.4 | 7.8 | 0.0 | 4.0 | -2.5 |
| 4 | 6.2 | -3.5 | 7.0 | -1.8 | 9.5 | -1.2 | 10.0 | -1.1 | 7.0 | -1.0 |
| 5 | 8.0 | -3.1 | 7.8 | -3.1 | 10.8 | 0.2 | 13.3 | -1.7 | 6.0 | -6.0 |
| 6 | 8.3 | -2.8 | 10.0 | -2.8 | 12.3 | -1.0 | 15.0 | 0.0 | 10.2 | -7.5 |
| 7 | 8.5 | -2.1 | 10.2 | -3.1 | 12.8 | -1.6 | 12.2 | -1.7 | 10.6 | -5.7 |
| 8 | 8.0 | -1.5 | 11.4 | -3.2 | 13.0 | -2.0 | 14.4 | -1.7 | 9.4 | -6.2 |
| 9 | 7.8 | 2.1 | 13.2 | -3.7 | 15.0 | 1.0 | 16.1 | -0.6 | 11.0 | -6.0 |
| 10 | 8.5 | -1.0 | 12.0 | -3.8 | 14.9 | 3.7 | 16.1 | 2.2 | 12.4 | -3.4 |
| 11 | 10.2 | -1.0 | 11.8 | -3.7 | 12.9 | 1.6 | 16.1 | 1.1 | 11.8 | -4.6 |
| 12 | 9.5 | -0.6 | 10.8 | -3.2 | 12.3 | 0.3 | 13.3 | -1.1 | 13.8 | -4.0 |
| 13 | 9.0 | -2.3 | 10.3 | -4.8 | 11.6 | -1.4 | 13.3 | -2.8 | 14.0 | -2.0 |
| 14 | 9.6 | -2.0 | 11.2 | -4.2 | 12.8 | 0.0 | 13.3 | -1.6 | 13.5 | -3.0 |
| 15 | 9.0 | -1.2 | 12.2 | -0.6 | 13.9 | 1.5 | 15.0 | -0.6 | 14.0 | 2.7 |
| 16 | 4.0 | 0.8 | 6.4 | 1.8 | 8.4 | 4.4 | 13.3 | -4.4 | 14.4 | 5.0 |
| 17 | 8.0 | 1.6 | 11.8 | 2.8 | 11.4 | 5.5 | 16.7 | 8.3 | 15.6 | 4.1 |
| 18 | 3.8 | 1.2 | 7.2 | 5.4 | 6.7 | 6.0 | 10.6 | 9.1 | 8.0 | 3.4 |
| 19 | -1.0 | -8.2 | 3.8 | -5.6 | 1.2 | -6.2 | -1.1 | -5.0 | 2.0 | -8.3 |
| 20 | 1.3 | -6.1 | 3.8 | -6.2 | 3.6 | -5.0 | 2.8 | -5.6 | 5.5 | -10.1 |
| 21 | 3.6 | -5.3 | 6.2 | -5.6 | 7.1 | -5.1 | 6.6 | -4.4 | 8.0 | -9.0 |
| 22 | 5.5 | -4.2 | 8.8 | -4.8 | 7.6 | -2.4 | 7.8 | -4.4 | 8.8 | -8.3 |
| 23 | 4.6 | -3.8 | 7.6 | -4.8 | 7.0 | -3.2 | 8.3 | -3.3 | 10.5 | -8.5 |
| 24 | 4.7 | -3.2 | 7.2 | -5.6 | 8.5 | -2.7 | 7.2 | -5.0 | 10.9 | -3.4 |
| 25 | 0.0 | -3.8 | 7.3 | -1.8 | 8.0 | -0.3 | 12.2 | -3.3 | 5.4 | 1.6 |
| 26 | 4.5 | -3.2 | 9.4 | 2.2 | 9.7 | 2.7 | 12.2 | 1.1 | 7.4 | -2.8 |
| 27 | 4.3 | -3.2 | 9.0 | -2.6 | 8.[illegible] | -0.1 | 12.2 | -1.1 | 11.6 | -4.7 |
| 28 | 4.6 | -2.2 | 5.8 | -1.5 | 10.3 | 0.2 | 13.3 | -2.8 | 14.4 | 2.0 |
| 29 | 4.4 | -2.6 | 7.8 | -0.8 | 7.0 | 0.8 | 13.3 | 2.2 | 7.3 | 2.3 |
| 30 | 5.6 | -3.5 | 8.2 | -5.3 | 10.9 | 0.0 | 12.2 | -3.9 | 11.0 | -5.2 |
| 31 | 4.3 | -3.2 | 7.8 | 2.2 | 12.1 | 2.8 | 11.7 | -2.2 | 11.0 | -1.6 |
| MEANS | 5.8 | -2.5 | 8.7 | -2.6 | 9.9 | 0.0 | 11.5 | -1.1 | 9.7 | -3.3 |
| DEPARTURE FROM NORMAL | .... | .... | -3.8 | -4.6 | -3.5 | -4.3 | -4.0 | -5.8 | -3.5 | -4.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 15.3 | 30th | 1963 | -8.2 | 19th | 1964 |
| MOSUL | 21.0 | 22nd | 1953 | -11.1 | 3rd | 1925 |
| KIRKUK | 22.0 | 23rd | 1963 | -6.7 | 26th | 1947 |
| KHANAQIN | 27.2 | 31st | 1944 | -6.7 | 7th | 1942 |
| RUTBAH | 25.0 | 19th | 1960 | -14.4 | 6th | 1942 |

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 11.0 | 0.4 | 10.6 | -2.4 | 7.1 | -5.3 | 12.9 | -1.0 |
| 2 | 9.4 | -0.8 | 9.9 | -0.5 | 8.2 | -4.6 | 9.8 | -2.2 |
| 3 | 9.5 | -0.9 | 9.2 | -2.4 | 7.2 | 1.0 | 9.9 | 0.1 |
| 4 | 18.5 | 0.0 | 10.0 | 1.4 | 9.1 | 1.8 | 12.8 | 4.0 |
| 5 | 10.0 | -1.8 | 11.1 | -5.1 | 8.6 | -4.4 | 11.7 | -3.1 |
| 6 | 11.3 | -1.1 | 11.9 | -2.6 | 10.5 | 06.0 | 13.9 | 03.0 |
| 7 | 12.3 | -4.3 | 11.9 | -5.0 | 12.5 | -6.0 | 13.8 | -2.8 |
| 8 | 12.5 | -4.7 | 12.8 | -4.4 | 12.0 | -5.1 | 14.6 | -3.2 |
| 9 | 13.0 | -4.5 | 11.2 | -5.7 | 10.5 | -5.8 | 15.0 | 0.1 |
| 10 | 11.7 | -1.1 | 13.7 | -4.1 | 11.6 | -2.6 | 16.0 | 0.2 |
| 11 | 12.5 | -1.8 | 13.0 | -4.4 | 12.6 | -2.2 | 16.8 | 0.4 |
| 12 | 13.4 | -1.8 | 13.8 | -3.2 | 12.6 | 3.2 | 15.6 | -0.8 |
| 13 | 14.0 | -3.3 | 13.5 | -5.2 | 15.5 | -1.6 | 15.2 | -1.2 |
| 14 | 16.4 | -1.9 | 14.4 | -2.3 | 14.2 | -1.6 | 16.8 | -1.9 |
| 15 | 16.1 | -1.7 | 16.5 | -2.1 | 15.5 | -1.5 | 17.6 | -1.0 |
| 16 | 16.7 | 6.1 | 17.9 | 3.6 | 18.0 | 2.1 | 17.8 | 0.8 |
| 17 | 17.9 | 6.5 | 18.0 | 5.8 | 17.5 | 1.8 | 21.3 | 8.2 |
| 18 | 13.0 | 8.8 | 11.8 | 7.7 | 12.5 | 5.8 | 19.8 | 6.1 |
| 19 | 5.5 | -3.9 | 2.4 | -5.9 | 2.5 | -6.2 | 2.1 | -4.8 |
| 20 | 7.4 | -6.8 | 5.9 | -8.5 | 6.0 | -5.0 | 7.3 | -8.2 |
| 21 | 7.0 | -6.9 | 7.0 | -7.7 | 8.0 | -6.0 | 10.0 | -7.1 |
| 22 | 9.5 | -5.5 | 8.5 | -6.5 | 10.0 | -8.0 | 11.3 | -5.2 |
| 23 | 10.7 | -6.6 | 10.0 | -6.8 | 9.5 | -7.0 | 11.8 | -4.1 |
| 24 | 11.9 | -6.1 | 11.2 | -5.2 | 11.5 | -6.4 | 13.2 | -2.0 |
| 25 | 13.4 | -3.3 | 13.5 | -2.7 | 12.5 | -5.5 | 14.6 | -2.2 |
| 26 | 10.6 | 1.1 | 11.5 | 2.0 | 12.0 | -0.2 | 16.3 | -0.9 |
| 27 | 12.0 | -2.3 | 11.2 | -3.0 | 12.5 | -4.5 | 12.4 | -2.2 |
| 28 | 14.0 | 0.7 | 15.1 | -2.2 | 14.5 | -0.8 | 16.0 | -0.9 |
| 29 | 15.1 | 4.6 | 13.4 | 2.1 | 11.5 | 1.2 | 16.6 | 0.8 |
| 30 | 10.0 | -4.8 | 9.2 | -5.5 | 11.2 | -4.4 | 12.1 | -2.8 |
| 31 | 12.0 | 0.0 | 11.6 | 0.0 | 12.0 | 2.2 | 14.8 | -1.2 |
| MEANS | 11.9 | -1.5 | 11.6 | -2.6 | 11.3 | -2.6 | 13.9 | -1.3 |
| DEPARTURE FROM NORMAL | -3.1 | -5.8 | -4.3 | -6.8 | .... | .... | -3.5 | -6.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 26.1 | 28th | 1941 | -8.9 | 5,6&7 | 1942 |
| BAGHDAD | 25.0 | 21st | 1948 | -8.5 | 20th | 1964 |
| NUKHAIB | 26.0 | 22nd | 1963 | -8.0 | 22nd | 1964 |
| HAI | 25.0 | 16th | 1960 | -8.2 | 20th | 1964 |

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TABLE 4-c.

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 8.5 | -3.0 | 13.4 | -3.7 | 12.0 | 2.0 | 16.2 | 3.2 |
| 2 | 10.0 | -3.2 | 11.2 | -2.5 | 10.8 | -2.2 | 12.9 | 1.3 |
| 3 | 9.1 | -2.3 | 9.0 | -1.0 | 9.5 | 2.1 | 9.6 | 4.5 |
| 4 | 11.0 | 2.4 | 12.6 | 3.4 | 11.8 | 4.6 | 10.6 | 5.8 |
| 5 | 9.0 | -2.8 | 10.4 | 02.4 | 8.5 | 0.1 | 11.6 | 3.7 |
| 6 | 11.2 | -1.4 | 12.5 | -1.4 | 13.1 | -1.9 | 13.0 | 1.0 |
| 7 | 12.2 | -2.4 | 13.4 | -4.2 | 12.8 | -3.6 | 13.5 | -0.2 |
| 8 | 13.2 | -2.3 | 15.0 | -4.5 | 13.1 | -3.3 | 15.9 | -1.2 |
| 9 | 12.2 | -1.2 | 13.5 | -1.5 | 14.0 | 0.3 | 17.9 | 1.2 |
| 10 | 13.2 | -1.3 | 14.8 | 1.6 | 14.6 | 4.4 | 17.0 | 3.8 |
| 11 | 13.2 | 1.3 | 15.8 | 0.2 | 15.8 | 0.9 | 17.2 | 3.3 |
| 12 | 13.0 | -1.2 | 14.6 | -0.5 | 15.1 | 1.1 | 16.3 | 3.2 |
| 13 | 14.6 | -0.6 | 15.2 | -2.2 | 15.0 | 0.1 | 15.5 | 1.3 |
| 14 | 14.3 | 1.0 | 16.5 | -1.3 | 15.0 | -2.2 | 15.7 | -1.2 |
| 15 | 16.0 | -1.4 | 16.6 | 1.0 | 16.4 | 3.0 | 17.1 | 4.8 |
| 16 | 20.0 | 0.0 | 20.2 | 1.0 | 19.9 | 1.8 | 19.4 | 1.7 |
| 17 | 20.5 | 9.0 | 22.6 | 5.9 | 21.8 | 4.3 | 22.4 | 7.0 |
| 18 | 18.2 | 7.5 | 19.4 | 4.9 | 21.4 | 8.4 | 21.5 | 7.2 |
| 19 | 3.4 | -4.6 | 3.0 | -2.7 | 2.3 | -1.7 | 4.0 | 0.7 |
| 20 | 6.2 | -7.2 | 7.7 | -7.4 | 6.7 | -6.5 | 7.2 | -4.3 |
| 21 | 8.2 | -6.2 | 9.8 | -5.8 | 9.6 | -5.3 | 9.1 | -4.2 |
| 22 | 9.5 | -5.6 | 10.6 | -5.7 | 10.6 | -4.6 | 10.3 | -4.7 |
| 23 | 9.6 | -5.3 | 11.2 | -4.6 | 10.8 | -5.2 | 11.6 | -3.9 |
| 24 | 12.0 | -4.6 | 13.5 | -4.5 | 11.4 | -5.8 | 11.9 | -4.6 |
| 25 | 14.2 | -1.8 | 15.4 | -3.3 | 13.2 | -4.8 | 15.1 | -3.7 |
| 26 | 10.8 | 1.8 | 14.6 | 0.1 | 15.0 | -1.8 | 15.0 | -2.1 |
| 27 | 11.5 | -1.6 | 12.6 | -1.0 | 12.0 | 0.2 | 13.4 | 1.5 |
| 28 | 15.6 | -1.4 | 17.9 | -2.0 | 14.8 | -1.1 | 14.8 | -1.2 |
| 29 | 13.5 | -1.3 | 16.9 | -2.0 | 17.2 | -1.0 | 17.2 | -0.3 |
| 30 | 10.5 | 1.4 | 12.0 | -2.7 | 13.0 | -2.4 | 13.8 | 2.0 |
| 31 | 11.5 | 1.3 | 14.0 | -1.8 | 13.5 | -2.9 | 16.5 | -2.5 |
| MEANS | 12.1 | -1.2 | 13.7 | -1.6 | 13.2 | -0.7 | 14.3 | 0.7 |
| DEPARTURE FROM NORMAL | .... | .... | -3.3 | -5.1 | -4.8 | -6.3 | -4.0 | -6.4 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| DIWANIYA | 25.5 | 28th | 1948 | -8.3 | 29th | 1950 |
| NAJAF | 24.4 | 15th | 1963 | -7.2 | 20th | 1964 |
| NASIRIYA | 29.3 | 16th | 1960 | -7.2 | 8th | 1942 |
| BASRAH | 28.6 | 2nd | 1961 | -4.7 | 22nd | 1964 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C°)

| STATIONS | TIME - G.M.T. 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | -1.6 | 2.0 | 4.4 | 5.4 | 3.7 | 1.6 | ... | 2.6 |
| MOSUL | -0.5 | -0.7 | 0.3 | 5.7 | 8.2 | 5.0 | 1.9 | 0.5 | 2.6 |
| KIRKUK | 1.9 | 1.4 | 3.3 | 7.9 | 9.3 | 6.0 | 3.6 | 2.6 | 4.5 |
| KHANAQIN | ... | 1.1 | 4.2 | 9.5 | 11.1 | 8.2 | 4.3 | .... | 6.4 |
| RUTBAH | -0.9 | -1.9 | 0.8 | 7.1 | 9.0 | 7.1 | 2.9 | 0.3 | 3.1 |
| HABBANIYA | 0.3 | -0.5 | 2.2 | 9.1 | 11.0 | 7.0 | 3.4 | 1.7 | 4.3 |
| BAGHDAD | 0.3 | -1.1 | 2.2 | 9.3 | 11.1 | 8.0 | 3.7 | 1.6 | 4.4 |
| NUKHAIB | ... | ... | 2.2 | 7.7 | 10.5 | 9.5 | ... | ... | 7.5 |
| HAI | ... | -0.5 | 3.0 | 11.5 | 13.3 | 8.5 | 5.6 | ... | 6.9 |
| NAJAF | 1.5 | -0.3 | 3.0 | 9.7 | 11.9 | 9.4 | 6.0 | 3.9 | 5.6 |
| DIWANIYA | 0.1 | -0.8 | 3.4 | 11.6 | 16.4 | 8.9 | 4.8 | 2.3 | 5.8 |
| NASIRIYA | 1.6 | 0.4 | 3.3 | 10.7 | 13.1 | 10.0 | 6.4 | 3.7 | 6.2 |
| BASRAH | 3.4 | 2.0 | 5.5 | 12.1 | 13.7 | 9.5 | 6.7 | 4.8 | 7.2 |

TABLE 6. المعدل الشهري لضغط البخار (ملليبارات)

MONTHLY MEAN VAPOUR-PRESSURE ( MILLIBARS )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 4.5 | 5.0 | 5.2 | 5.4 | 5.3 | 4.9 | ... | 5.1 |
| MOSUL | 5.2 | 5.1 | 5.3 | 5.9 | 5.8 | 6.3 | 5.9 | 5.5 | 5.6 |
| KIRKUK | 4.8 | 4.8 | 4.7 | 4.6 | 4.4 | 5.2 | 5.1 | 4.7 | 4.8 |
| KHANAQIN | ... | 4.8 | 5.2 | 5.7 | 5.6 | 5.4 | 5.2 | ... | 5.3 |
| RUTBAH | 4.3 | 4.4 | 4.8 | 5.0 | 4.6 | 4.8 | 4.7 | 4.4 | 4.6 |
| HABBANIYA | 5.0 | 5.2 | 5.5 | 6.4 | 5.7 | 6.0 | 5.5 | 5.4 | 5.6 |
| BAGHDAD | 4.7 | 4.7 | 4.9 | 5.8 | 5.4 | 5.5 | 5.4 | 5.1 | 5.2 |
| NUKHAIB | ... | ... | 4.6 | 4.6 | 4.3 | 4.2 | ... | ... | 4.4 |
| HAI | ... | 5.0 | 5.9 | 4.6 | 4.3 | 6.2 | 5.7 | ... | 5.3 |
| NAJAF | 4.3 | 4.3 | 4.4 | 4.8 | 4.5 | 4.5 | 4.8 | 4.6 | 4.5 |
| DIWANIYA | 4.5 | 4.3 | 5.1 | 7.1 | 5.7 | 5.6 | 5.2 | 4.4 | 5.2 |
| NASIRIYA | 4.3 | 4.3 | 4.7 | 5.0 | 5.0 | 5.7 | 5.3 | 4.7 | 4.9 |
| BASRAH | 6.0 | 5.6 | 6.2 | 6.4 | 6.5 | 6.8 | 7.0 | 6.7 | 6.4 |

TABLE 7. معدل حرارة للبصلة الرطبة

MONTHLY MEAN WET-BULB TEMPERATURES(C)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | -3.5 | 0.0 | 1.5 | 2.1 | 1.2 | -0.2 | ... | 0.2 |
| MOSUL | -1.1 | -1.6 | -0.5 | 3.3 | 4.7 | 3.3 | 1.0 | -0.2 | 1.1 |
| KIRKUK | 0.0 | -0.4 | 0.9 | 3.6 | 4.3 | 3.0 | 1.4 | 0.5 | 0.4 |
| KHANAQIN | ... | -0.5 | 1.8 | 5.3 | 6.1 | 4.4 | 2.2 | ... | 3.2 |
| RUTBAH | -2.3 | -2.2 | -0.7 | 3.2 | 4.3 | 2.9 | 0.6 | -1.0 | 0.6 |
| HABBANIYA | -0.8 | -0.7 | 0.9 | 5.6 | 6.2 | 4.1 | 1.5 | 0.3 | 2.1 |
| BAGHDAD | -0.8 | -1.6 | 0.5 | 5.7 | 6.0 | 4.4 | 1.7 | 0.4 | 2.0 |
| NUKHAIB | ... | ... | 0.7 | 3.5 | 4.9 | 4.2 | ... | ... | 3.3 |
| HAI | ... | -1.2 | 1.4 | 6.4 | 6.9 | 4.8 | 2.7 | ... | 3.5 |
| NAJAF | -0.6 | -1.8 | 0.5 | 4.9 | 5.9 | 4.7 | 2.6 | 1.2 | 2.2 |
| DIWANIYA | -1.3 | -2.1 | 1.0 | 6.5 | 7.3 | 5.7 | 2.4 | 0.3 | 0.7 |
| NASIRIYA | -0.4 | -1.3 | -0.9 | 5.5 | 6.8 | 5.6 | 3.2 | 1.2 | 2.5 |
| BASRAH | 2.0 | 0.8 | 3.4 | 7.3 | 8.1 | 6.1 | 4.7 | 3.3 | 4.5 |

TABLE 8. معدل درجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT ( C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | -1.6 | -2.7 | -2.1 | 1.7 | -2.1 | -3.0 | .... | -2.2 |
| MOSUL | -2.4 | -2.8 | -2.1 | -0.6 | -0.5 | 0.4 | -0.4 | -1.6 | -1.3 |
| KIRKUK | -3.4 | -3.6 | -3.8 | -4.1 | -4.6 | -2.3 | -2.6 | -3.6 | -3.5 |
| KHANAQIN | .... | -3.4 | -2.3 | -0.8 | -1.1 | -1.8 | -2.1 | .... | -1.9 |
| RUTBAH | -5.2 | -5.4 | -3.5 | -3.1 | -4.1 | -3.9 | -4.1 | -4.9 | -4.3 |
| HABBANIYA | -2.3 | -2.0 | -1.4 | 0.5 | -1.3 | -0.2 | -1.5 | -2.1 | -1.4 |
| BAGHDAD | -3.7 | -3.9 | -1.4 | -1.4 | -2.3 | -1.9 | -2.0 | -2.7 | -2.4 |
| NUKHAIB | .... | .... | -4.3 | -4.1 | -4.6 | -5.5 | .... | .... | -4.6 |
| HAI | .... | -2.8 | -0.8 | 0.6 | 0.1 | -0.3 | -1.0 | .... | -0.7 |
| NAJAF | -5.0 | -4.3 | -4.5 | -3.2 | -4.4 | -3.3 | -3.5 | -3.9 | -4.0 |
| DIWANIYA | -4.1 | -4.2 | -2.6 | -0.9 | -1.2 | -0.7 | -2.3 | -3.3 | -2.8 |
| NASIRIYA | -4.6 | -4.8 | -3.6 | -2.8 | -3.0 | -1.2 | -2.2 | -3.7 | -3.2 |
| BASRAH | -0.4 | -1.4 | 0.4 | 0.4 | 0.5 | 1.2 | 1.6 | 1.0 | 0.4 |

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TABLE - 9.

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | TIME - G.M.T. | | | | | | | | |
| SINJAR | ... | 75 | 72 | 65 | 63 | 67 | 72 | ... | 69 |
| MOSUL | 87 | 88 | 85 | 64 | 54 | 72 | 84 | 87 | 78 |
| KIRKUK | 68 | 71 | 61 | 46 | 40 | 57 | 66 | 65 | 59 |
| KHANAQIN | ... | 73 | 69 | 49 | 45 | 49 | 61 | ... | 58 |
| RUTBAH | 75 | 79 | 73 | 49 | 41 | 51 | 62 | 65 | 62 |
| HABBANIYA | 76 | 83 | 78 | 56 | 44 | 60 | 71 | 76 | 68 |
| BAGHDAD | 78 | 82 | 68 | 49 | 50 | 44 | 68 | 74 | 64 |
| NUKHAIB | ... | ... | 65 | 45 | 34 | 36 | ... | ... | 45 |
| HAI | ... | 81 | 79 | 47 | 40 | 55 | 62 | ... | 61 |
| NAJAF | 64 | 72 | 59 | 41 | 33 | 41 | 52 | 58 | 53 |
| DIWANIYA | 72 | 75 | 65 | 43 | 38 | 52 | 60 | 66 | 59 |
| NASIRIYA | 63 | 67 | 60 | 39 | 33 | 45 | 54 | 58 | 52 |
| BASRAH | 77 | 79 | 68 | 45 | 42 | 56 | 71 | 77 | 64 |

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 25.4 | 26.7 | 25.5 | 24.3 | 24.7 | 25.5 | .... | 1025.4 |
| MOSUL | 22.4 | 25.7 | 26.6 | 26.8 | 23.9 | 24.4 | 24.8 | 25.7 | 1025.0 |
| KIRKUK | 24.8 | 24.8 | 25.4 | 24.6 | 23.2 | 24.0 | 24.9 | 24.9 | 1024.6 |
| KHANAQIN | .... | 25.5 | 25.4 | 24.0 | 24.0 | 23.2 | 25.0 | .... | 1024.5 |
| RUTBAH | 24.0 | 24.4 | 25.5 | 24.6 | 23.2 | 24.0 | 24.8 | 24.2 | 1024.3 |
| HABBANIYA | 24.4 | 24.2 | 25.2 | 24.6 | 23.2 | 23.7 | 24.4 | 24.4 | 1024.3 |
| BAGHDAD | 24.0 | 24.2 | 26.2 | 25.0 | 23.6 | 23.5 | 24.6 | 24.3 | 1024.4 |
| NUKHAIB | .... | .... | 26.3 | 25.3 | 23.2 | 22.6 | .... | .... | 1024.3 |
| HAI | .... | 23.5 | 24.5 | 23.9 | 22.4 | 22.9 | 23.7 | .... | 1023.5 |
| NAJAF | 23.4 | 23.0 | 24.8 | 23.8 | 22.3 | 22.8 | 23.7 | 23.4 | 1023.4 |
| DIWANIYA | 24.4 | 23.6 | 25.9 | 24.9 | 23.2 | 24.9 | 24.7 | 24.6 | 1024.5 |
| NASIRIYA | 23.8 | 23.9 | 25.2 | 24.3 | 22.5 | 23.1 | 23.9 | 23.9 | 1023.8 |
| BASRAH | 23.7 | 23.9 | 25.2 | 24.2 | 22.5 | 23.0 | 23.9 | 23.8 | 1023.8 |

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 1.5 | 1.5 | 1.6 | 1.5 | 1.6 | 1.1 | ... | 1.5 |
| MOSUL | 2.0 | 1.9 | 2.5 | 1.9 | 2.7 | 2.0 | 1.6 | 1.8 | 2.1 |
| KIRKUK | 2.2 | 1.7 | 1.6 | 1.7 | 1.5 | 2.2 | 1.5 | 1.9 | 1.8 |
| KHANAQIN | ... | 1.5 | 1.6 | 1.6 | 2.4 | 2.3 | 1.2 | ... | 1.8 |
| RUTBAH | 0.7 | 1.5 | 1.2 | 1.2 | 1.9 | 1.6 | 1.4 | 0.8 | 1.3 |
| HABBANIYA | 0.2 | 0.2 | 0.5 | 0.5 | 0.6 | 0.4 | 0.3 | 0.3 | 0.4 |
| BAGHDAD | 0.1 | 0.2 | 0.7 | 0.3 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 |
| NUKHAIB | ... | ... | 0.8 | 1.2 | 1.4 | 1.1 | ... | ... | 1.1 |
| HAI | ... | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.0 | ... | 0.2 |
| NAJAF | 0.1 | 0.1 | 0.6 | 0.7 | 0.9 | 0.3 | 0.5 | 0.5 | 0.5 |
| DIWANIYA | 0.3 | 0.2 | 0.5 | 0.6 | 1.1 | 0.6 | 0.2 | 0.2 | 0.5 |
| NASIRIYA | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.7 | 0.4 | 0.4 | 0.4 |
| BASRAH | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.9 | 0.6 | 0.6 | 0.5 |

TABLE -12. MONTHLY MEAN TOTAL CLOUD AMOUNT(OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 1.8 | 2.4 | 2.9 | 2.6 | 2.8 | 1.9 | ... | 2.4 |
| MOSUL | 2.4 | 2.3 | 2.4 | 2.6 | 3.5 | 2.9 | 2.1 | 2.3 | 2.6 |
| KIRKUK | 2.8 | 2.2 | 2.6 | 2.6 | 2.8 | 3.0 | 2.1 | 2.1 | 2.9 |
| KHANAQIN | ... | 2.0 | 2.3 | 2.6 | 4.0 | 3.5 | 1.8 | ... | 2.7 |
| RUTBAH | 1.8 | 2.6 | 3.0 | 2.9 | 3.9 | 3.7 | 2.7 | 1.6 | 2.8 |
| HABBANIYA | 2.4 | 2.6 | 2.8 | 2.8 | 2.7 | 2.5 | 1.9 | 2.0 | 2.5 |
| BAGHDAD | 2.1 | 2.3 | 2.5 | 2.3 | 2.5 | 2.8 | 1.4 | 1.9 | 2.2 |
| NUKHAIB | ... | ... | 2.3 | 2.9 | 2.8 | 2.5 | ... | ... | 2.6 |
| HAI | ... | 1.0 | 2.2 | 2.3 | 2.1 | 2.4 | 1.3 | ... | 1.9 |
| NAJAF | 0.7 | 1.2 | 2.6 | 2.3 | 2.8 | 2.2 | 1.6 | 1.3 | 1.8 |
| DIW ANIYA | 1.1 | 1.1 | 2.3 | 2.1 | 2.8 | 2.3 | 1.3 | 0.9 | 1.7 |
| NASIRIYA | 1.1 | 1.8 | 2.0 | 1.9 | 2.3 | 2.4 | 1.4 | 1.0 | 1.7 |
| BASRAH | 1.7 | 1.5 | 1.7 | 1.8 | 2.1 | 2.5 | 2.1 | 2.1 | 1.9 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTIONS الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEANS V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 13 | 1 | 2 | 0 | 1 | 0 | 3 | 6 | 5 | 23 | 1 | 0 | 2 | 8 |
| | 0600 | 8 | 2 | 5 | 0 | 1 | 0 | 4 | 1 | 10 | 16 | 4 | 0 | 1 | 5 |
| | 0900 | 1 | 1 | 10 | 2 | 6 | 0 | 6 | 1 | 4 | 22 | 3 | 2 | 0 | 8 |
| | 1200 | 2 | 0 | 10 | 0 | 4 | 0 | 7 | 1 | 7 | 17 | 4 | 3 | 0 | 8 |
| | 1500 | 2 | 0 | 7 | 1 | 3 | 0 | 7 | 2 | 9 | 19 | 1 | 2 | 0 | 6 |
| | 1800 | 15 | 2 | 7 | 0 | 0 | 0 | 3 | 3 | 1 | 26 | 2 | 2 | 0 | 8 |
| | TOTAL | 41 | 6 | 41 | 3 | 15 | 0 | 30 | 14 | 36 | 123 | 15 | 9 | 3 | 8 |
| موصل MOSUL | 0000 | 4 | 1 | 1 | 0 | 2 | 0 | 12 | 5 | 6 | 21 | 4 | 0 | 0 | 6 |
| | 0300 | 2 | 0 | 1 | 0 | 2 | 0 | 11 | 8 | 7 | 23 | 1 | 0 | 0 | 5 |
| | 0600 | 2 | 0 | 2 | 2 | 2 | 0 | 12 | 8 | 3 | 26 | 2 | 0 | 0 | 6 |
| | 0900 | 5 | 1 | 5 | 1 | 4 | 0 | 9 | 4 | 2 | 28 | 1 | 0 | 0 | 6 |
| | 1200 | 6 | 1 | 3 | 3 | 4 | 0 | 5 | 6 | 3 | 23 | 5 | 0 | 0 | 7 |
| | 1500 | 2 | 1 | 7 | 0 | 4 | 0 | 9 | 4 | 4 | 27 | 0 | 0 | 0 | 5 |
| | 1800 | 2 | 1 | 1 | 2 | 2 | 0 | 9 | 8 | 6 | 19 | 6 | 0 | 0 | 6 |
| | 2100 | 0 | 0 | 2 | 1 | 1 | 2 | 10 | 7 | 8 | 22 | 1 | 0 | 0 | 5 |
| | TOTAL | 23 | 5 | 22 | 9 | 21 | 2 | 77 | 50 | 39 | 189 | 20 | 0 | 0 | 6 |
| كركوك KIRKUK | 0000 | 0 | 9 | 3 | 1 | 1 | 0 | 1 | 0 | 16 | 14 | 0 | 1 | 0 | 4 |
| | 0300 | 0 | 7 | 1 | 2 | 1 | 0 | 1 | 0 | 19 | 9 | 2 | 1 | 0 | 3 |
| | 0600 | 0 | 6 | 0 | 2 | 1 | 0 | 1 | 0 | 21 | 9 | 0 | 1 | 0 | 2 |
| | 0900 | 0 | 3 | 2 | 4 | 4 | 2 | 1 | 1 | 14 | 15 | 1 | 1 | 0 | 4 |
| | 1200 | 3 | 3 | 1 | 1 | 4 | 1 | 6 | 2 | 10 | 18 | 2 | 1 | 0 | 4 |
| | 1500 | 0 | 5 | 0 | 0 | 3 | 0 | 3 | 0 | 20 | 9 | 2 | 0 | 0 | 2 |
| | 1800 | 2 | 6 | 1 | 3 | 1 | 1 | 0 | 0 | 17 | 12 | 0 | 2 | 0 | 4 |
| | 2100 | 0 | 9 | 0 | 3 | 1 | 1 | 0 | 0 | 17 | 12 | 1 | 1 | 0 | 4 |
| | TOTAL | 5 | 48 | 8 | 16 | 16 | 5 | 13 | 3 | 134 | 98 | 8 | 8 | 0 | 3 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 9 | 0 | 13 | 0 | 0 | 0 | 9 | 19 | 1 | 2 | 0 | 5 |
| | 0600 | 0 | 0 | 7 | 0 | 10 | 0 | 4 | 0 | 10 | 18 | 0 | 2 | 1 | 5 |
| | 0900 | 0 | 1 | 4 | 0 | 7 | 0 | 5 | 2 | 12 | 15 | 1 | 3 | 0 | 5 |
| | 1200 | 0 | 2 | 2 | 0 | 6 | 0 | 12 | 3 | 6 | 21 | 1 | 3 | 0 | 7 |
| | 1500 | 0 | 2 | 1 | 0 | 8 | 0 | 10 | 2 | 8 | 19 | 1 | 3 | 0 | 6 |
| | 1800 | 1 | 1 | 5 | 1 | 5 | 0 | 2 | 0 | 16 | 13 | 0 | 2 | 0 | 3 |
| | TOTAL | 1 | 6 | 28 | 1 | 49 | 0 | 33 | 7 | 61 | 105 | 4 | 15 | 1 | 5 |
| رطبة RUTBAH | 0000 | 1 | 0 | 2 | 0 | 5 | 5 | 3 | 0 | 15 | 12 | 3 | 1 | 0 | 4 |
| | 0300 | 1 | 0 | 1 | 0 | 9 | 4 | 1 | 1 | 14 | 12 | 5 | 0 | 0 | 5 |
| | 0600 | 1 | 0 | 3 | 0 | 5 | 6 | 5 | 3 | 8 | 20 | 2 | 1 | 0 | 6 |
| | 0900 | 2 | 0 | 3 | 0 | 5 | 4 | 5 | 4 | 8 | 17 | 6 | 0 | 0 | 5 |
| | 1200 | 4 | 0 | 4 | 0 | 4 | 1 | 9 | 2 | 7 | 17 | 7 | 0 | 0 | 7 |
| | 1500 | 8 | 1 | 1 | 2 | 2 | 0 | 7 | 1 | 9 | 16 | 6 | 0 | 0 | 5 |
| | 1800 | 4 | 1 | 3 | 0 | 3 | 1 | 4 | 1 | 14 | 14 | 3 | 0 | 0 | 4 |
| | 2100 | 2 | 1 | 3 | 0 | 4 | 3 | 1 | 2 | 15 | 12 | 4 | 0 | 0 | 4 |
| | TOTAL | 23 | 3 | 20 | 2 | 37 | 24 | 35 | 14 | 90 | 120 | 36 | 2 | 0 | 5 |

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TABLE 13-b.

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عدد تكرار وحدات الرياح السطحية

SURFACE.- WIND. NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CA-LM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 0 | 0 | 3 | 0 | 3 | 1 | 7 | 1 | 16 | 11 | 3 | 1 | 0 | 4 |
| | 0300 | 0 | 0 | 1 | 0 | 3 | 0 | 11 | 1 | 15 | 13 | 2 | 1 | 0 | 4 |
| | 0600 | 0 | 1 | 0 | 1 | 2 | 1 | 9 | 7 | 10 | 15 | 5 | 1 | 0 | 6 |
| | 0900 | 0 | 0 | 0 | 0 | 4 | 0 | 18 | 3 | 6 | 16 | 7 | 2 | 0 | 8 |
| | 1200 | 1 | 1 | 0 | 0 | 6 | 2 | 8 | 10 | 3 | 18 | 9 | 1 | 0 | 7 |
| | 1500 | 4 | 1 | 0 | 4 | 0 | 1 | 2 | 8 | 11 | 18 | 1 | 1 | 0 | 4 |
| | 1800 | 0 | 1 | 2 | 3 | 0 | 0 | 6 | 0 | 19 | 7 | 4 | 1 | 0 | 4 |
| | 2100 | 0 | 0 | 3 | 1 | 2 | 0 | 5 | 1 | 19 | 9 | 3 | 0 | 0 | 3 |
| | TOTAL | 5 | 4 | 9 | 9 | 20 | 5 | 66 | 31 | 99 | 107 | 34 | 8 | 0 | 5 |
| بغداد BAGHDAD | 0000 | 3 | 0 | 3 | 4 | 1 | 0 | 6 | 5 | 9 | 18 | 4 | 0 | 0 | 5 |
| | 0300 | 2 | 1 | 0 | 2 | 1 | 1 | 3 | 6 | 15 | 15 | 0 | 1 | 0 | 4 |
| | 0600 | 1 | 1 | 0 | 3 | 2 | 1 | 6 | 10 | 7 | 21 | 3 | 0 | 0 | 5 |
| | 0900 | 0 | 0 | 0 | 1 | 4 | 2 | 10 | 11 | 3 | 21 | 7 | 0 | 0 | 8 |
| | 1200 | 4 | 0 | 1 | 1 | 3 | 1 | 0 | 19 | 2 | 22 | 6 | 1 | 0 | 8 |
| | 1500 | 5 | 2 | 1 | 2 | 1 | 0 | 4 | 12 | 4 | 26 | 1 | 0 | 0 | 5 |
| | 1800 | 3 | 2 | 1 | 2 | 0 | 2 | 5 | 7 | 9 | 19 | 3 | 0 | 0 | 4 |
| | 2100 | 1 | 0 | 4 | 2 | 1 | 0 | 3 | 8 | 12 | 15 | 4 | 0 | 0 | 4 |
| | TOTAL | 19 | 6 | 10 | 17 | 13 | 7 | 37 | 78 | 61 | 157 | 28 | 2 | 0 | 5 |
| نخيب NUKHAIB | 0600 | 5 | 1 | 1 | 0 | 3 | 2 | 14 | 3 | 2 | 24 | 4 | 1 | 0 | 7 |
| | 0900 | 5 | 0 | 3 | 0 | 5 | 3 | 6 | 8 | 1 | 21 | 8 | 0 | 1 | 7 |
| | 1200 | 6 | 1 | 4 | 0 | 8 | 0 | 5 | 7 | 0 | 24 | 7 | 0 | 0 | 7 |
| | 1500 | 7 | 2 | 3 | 0 | 7 | 0 | 3 | 8 | 1 | 26 | 4 | 0 | 0 | 6 |
| | TOTAL | 23 | 4 | 11 | 0 | 23 | 5 | 28 | 26 | 4 | 95 | 23 | 1 | 1 | 7 |
| حي HAI | 0300 | 0 | 1 | 2 | 0 | 0 | 1 | 23 | 3 | 1 | 24 | 6 | 0 | 0 | 7 |
| | 0600 | 2 | 2 | 2 | 0 | 0 | 1 | 17 | 4 | 3 | 24 | 4 | 0 | 0 | 6 |
| | 0900 | 1 | 2 | 2 | 0 | 0 | 1 | 20 | 5 | 0 | 24 | 7 | 0 | 0 | 8 |
| | 1200 | 2 | 1 | 0 | 0 | 0 | 2 | 19 | 4 | 3 | 21 | 7 | 0 | 0 | 7 |
| | 1500 | 0 | 0 | 2 | 0 | 0 | 1 | 13 | 2 | 13 | 16 | 2 | 0 | 0 | 4 |
| | 1800 | 0 | 0 | 2 | 0 | 1 | 1 | 24 | 1 | 2 | 24 | 4 | 1 | 0 | 6 |
| | TOTAL | 5 | 6 | 10 | 0 | 1 | 7 | 116 | 19 | 22 | 133 | 30 | 1 | 0 | 6 |
| نجف NAJAF | 0000 | 9 | 2 | 0 | 0 | 3 | 1 | 5 | 5 | 6 | 21 | 3 | 1 | 0 | 5 |
| | 0300 | 11 | 0 | 0 | 0 | 2 | 2 | 2 | 7 | 7 | 21 | 2 | 1 | 0 | 4 |
| | 0600 | 9 | 6 | 0 | 0 | 1 | 1 | 4 | 8 | 2 | 27 | 2 | 0 | 0 | 6 |
| | 0900 | 12 | 2 | 0 | 0 | 3 | 0 | 3 | 8 | 3 | 25 | 2 | 1 | 0 | 7 |
| | 1200 | 10 | 6 | 1 | 0 | 2 | 0 | 5 | 6 | 1 | 23 | 5 | 2 | 0 | 8 |
| | 1500 | 10 | 7 | 0 | 1 | 1 | 1 | 3 | 2 | 6 | 23 | 1 | 1 | 0 | 5 |
| | 1800 | 9 | 4 | 1 | 0 | 2 | 1 | 2 | 4 | 8 | 20 | 2 | 1 | 0 | 5 |
| | 2100 | 8 | 3 | 0 | 2 | 2 | 0 | 3 | 8 | 5 | 24 | 1 | 1 | 0 | 5 |
| | TOTAL | 78 | 30 | 2 | 3 | 16 | 6 | 27 | 48 | 38 | 184 | 18 | 8 | 0 | 6 |

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TABLE 13 - a.

عدد تكرار رصدات الرياح السطحية

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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIWANIYA | 0000 | 2 | 0 | 1 | 0 | 1 | 1 | 13 | 0 | 13 | 16 | 2 | 0 | 0 | 3 |
| | 0300 | 1 | 0 | 1 | 1 | 0 | 0 | 14 | 1 | 13 | 15 | 3 | 0 | 0 | 3 |
| | 0600 | 3 | 1 | 1 | 0 | 1 | 1 | 16 | 0 | 6 | 21 | 4 | 0 | 0 | 6 |
| | 0900 | 3 | 0 | 0 | 1 | 2 | 1 | 18 | 1 | 5 | 18 | 8 | 0 | 0 | 7 |
| | 1200 | 6 | 1 | 1 | 0 | 0 | 1 | 13 | 4 | 5 | 14 | 12 | 0 | 0 | 8 |
| | 1500 | 8 | 0 | 0 | 0 | 0 | 2 | 12 | 4 | 5 | 25 | 1 | 0 | 0 | 4 |
| | 1800 | 3 | 0 | 1 | 1 | 0 | 0 | 15 | 3 | 8 | 21 | 2 | 0 | 0 | 3 |
| | 2100 | 5 | 0 | 3 | 1 | 1 | 0 | 11 | 1 | 9 | 20 | 2 | 0 | 0 | 3 |
| | TOTAL | 31 | 2 | 8 | 4 | 5 | 6 | 114 | 14 | 64 | 150 | 34 | 0 | 0 | 5 |
| NASIRIYA | 0000 | 3 | 0 | 0 | 2 | 2 | 2 | 13 | 7 | 2 | 28 | 1 | 0 | 0 | 4 |
| | 0300 | 1 | 0 | 1 | 1 | 3 | 6 | 11 | 5 | 3 | 27 | 1 | 0 | 0 | 4 |
| | 0600 | 1 | 1 | 0 | 1 | 2 | 4 | 14 | 6 | 2 | 28 | 1 | 0 | 0 | 5 |
| | 0900 | 2 | 1 | 1 | 0 | 1 | 1 | 15 | 9 | 1 | 27 | 3 | 0 | 0 | 7 |
| | 1200 | 1 | 1 | 1 | 0 | 2 | 0 | 9 | 16 | 1 | 27 | 3 | 0 | 0 | 7 |
| | 1500 | 4 | 4 | 2 | 0 | 0 | 0 | 7 | 13 | 1 | 28 | 2 | 0 | 0 | 5 |
| | 1800 | 4 | 0 | 0 | 2 | 1 | 1 | 9 | 8 | 6 | 24 | 1 | 0 | 0 | 4 |
| | 2100 | 4 | 0 | 0 | 2 | 1 | 1 | 9 | 8 | 6 | 24 | 1 | 0 | 0 | 4 |
| | TOTAL | 20 | 7 | 5 | 8 | 12 | 15 | 87 | 72 | 22 | 213 | 15 | 0 | 0 | 5 |
| BASRAH | 0000 | 7 | 1 | 0 | 1 | 2 | 1 | 8 | 9 | 2 | 28 | 1 | 0 | 0 | 4 |
| | 0300 | 4 | 0 | 3 | 0 | 1 | 0 | 11 | 10 | 2 | 28 | 1 | 0 | 0 | 4 |
| | 0600 | 4 | 1 | 2 | 0 | 1 | 2 | 12 | 8 | 1 | 26 | 3 | 1 | 0 | 5 |
| | 0900 | 5 | 0 | 1 | 0 | 1 | 3 | 7 | 13 | 1 | 23 | 6 | 1 | 0 | 7 |
| | 1200 | 8 | 1 | 1 | 0 | 2 | 2 | 3 | 13 | 1 | 26 | 4 | 0 | 0 | 6 |
| | 1500 | 5 | 0 | 0 | 1 | 1 | 0 | 4 | 19 | 1 | 28 | 2 | 0 | 0 | 4 |
| | 1800 | 8 | 2 | 0 | 0 | 2 | 0 | 4 | 15 | 0 | 30 | 1 | 0 | 0 | 4 |
| | 2100 | 11 | 1 | 0 | 0 | 2 | 1 | 8 | 8 | 0 | 30 | 1 | 0 | 0 | 4 |
| | TOTAL | 52 | 6 | 7 | 2 | 12 | 9 | 57 | 95 | 8 | 219 | 19 | 2 | 0 | 5 |

TABLE 14.

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED. DURING ONE HOURS.

| STATIONS | HIGHEST WIND. SPEED DURING ONE HOURS (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 40 knots | 300 | 0300 | 19th |
| MOSUL | 20 | 280 | 0300 | 29th |
| KIRKUK | 28 | 140 | 2100 | 17th |
| KHANAQIN | 35 | 180 | 0600 | 18th |
| RUTBAH | 22 | 180 | 0000 | 25th |
| HABBANIYA | 26 | 300 | 0600 | 19th |
| BAGHDAD | 25 | 310 | 1200 | 18th |
| NUKHAIB | 25 | 340 | 0900 | 19th |
| HAI | 24 | 250 | 1800 | 18th |
| NAJAF | 34 | 320 | 0900 | 19th |
| DIWANIYA | 19 | 270 | 0900 | 19th |
| NASIRIYA | 21 | 290 | 0900 | 19th |
| BASRAH | 23 | 320 | 0900 | 19th |

## CLIMATOLOGICAL SUMMARY الملخصات المناخيـــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA : عدد الايام التي حدثت فيها الظواهر الجويـــة :

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 14 | 5 |
| MOSUL | 7 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 25 | 14 | 6 |
| KIRKUK | 6 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 25 | 16 | 5 |
| KHANAQIN | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 21 | 13 | 4 |
| RUTBAH | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 24 | 11 | 3 |
| HABBANIYA | 2 | 0 | 0 | 0 | 0 | 5 | 1 | 2 | 0 | 1 | 24 | 14 | 2 |
| BAGHDAD | 3 | 0 | 0 | 0 | 0 | 10 | 16 | 2 | 0 | 2 | 29 | 14 | 1 |
| NUKHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 23 | 11 | 2 |
| HAI | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 22 | 15 | 1 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 24 | 16 | 2 |
| DIWANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 25 | 17 | 2 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 7 | 2 | 18 | 20 | 1 |
| BASRAH | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 | 1 | 27 | 16 | 1 |

TABLE - 17.

DURATION OF SUNSHINE: مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 192.5 | 9.1 | 21,22&29 | 3 |
| HABBANIYA | 225.9 | 9.7 | 14,22&23 | 3 |
| BAGHDAD | 217.1 | 9.2 | 12th | 1 |
| BASRAH | 253.2 | 10.3 | 24&25th | 2 |

TABLE - 18.

المعدل الشهري لحرارة العشب و التربة (سنتغراد)

MONTHLY MEAN TEMPERATURE OF :

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | .... | 3.6 | .... |
| KIRKUK | -4.4 | 6.7 | 11.6 |
| HABBANIYA | -3.0 | 10.2 | 17.1 |
| NAJAF | .... | 7.4 | 16.8 |
| NASIRIYA | -1.9 | 10.5 | 19.3 |
| BASRAH | -3.7 | .... | .... |

الجمهورية العراقيـــــة

وزارة المواصلات

مديرية الطيران المدني العامـــة

مفتشية الانواء الجوية العامـــة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر شباط ١٩٦٤

# MONTHLY CLIMATOLOGICAL DATA FOR FEBRUARY 1964

مجلد ٢٧ عدد ( ٢ ) ، شباط ١٩٦٤

VOLUME 27 , No. ( 2 ) , FEBRUARY 1 9 6 4

# C O N T E N T S


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|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| Maximum & Minimum temperature | 4a-e | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb-temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative-humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
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| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest Wind-Speed during one hour | 14 | 13 |
| Daily precipitation | 15a-e | 14-18 |
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Geotraphical Data & Notes on tables see : January 1964 .

FEBRUARY 1964.
TABLE 1-a.

( ١ )

شباط ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 5.8 | 6.9 | 9.3 | 7.5 | 8.9 | 10.7 |
| 2 | 7.6 | 9.4 | 10.9 | 6.2 | 9.0 | 11.7 |
| 3 | 5.3 | 6.4 | 8.4 | 8.1 | 11.4 | 11.5 |
| 4 | 6.6 | 8.7 | 9.6 | 8.0 | 10.4 | 11.0 |
| 5 | 5.8 | 8.4 | 8.6 | 6.9 | 10.5 | 10.8 |
| 6 | 5.9 | 8.1 | 7.6 | 6.6 | 9.3 | 10.4 |
| 7 | 7.2 | 6.6 | 7.2 | 6.4 | 9.0 | 9.1 |
| 8 | 7.8 | 7.1 | 8.1 | 8.4 | 9.6 | 9.6 |
| 9 | 6.0 | 7.7 | 9.9 | 8.7 | 12.2 | 12.0 |
| 10 | 7.3 | 9.2 | 9.6 | 7.8 | 10.9 | 11.8 |
| 11 | 6.5 | 7.2 | 9.8 | 7.8 | 12.1 | 12.2 |
| 12 | 6.0 | 7.3 | 9.5 | 8.5 | 11.7 | 12.7 |
| 13 | 6.8 | 8.8 | 11.2 | 7.8 | 9.3 | 9.8 |
| 14 | 7.2 | 8.9 | 9.7 | 7.4 | 11.4 | 12.7 |
| 15 | 8.6 | 9.0 | 9.1 | 7.7 | 10.6 | 11.2 |
| 16 | 10.2 | 8.1 | 9.2 | 9.0 | 10.7 | 10.5 |
| 17 | 9.3 | 9.1 | 10.4 | 12.0 | 12.6 | 12.6 |
| 18 | 10.6 | 10.7 | 12.5 | 10.2 | 12.4 | 14.4 |
| 19 | 10.8 | 9.7 | 11.7 | 9.7 | 13.3 | 13.6 |
| 20 | 11.0 | 9.4 | 11.0 | 11.9 | 12.3 | 12.6 |
| 21 | 11.2 | 10.0 | 12.2 | 13.7 | 12.4 | 12.7 |
| 22 | 11.6 | 10.8 | 14.1 | 14.8 | 15.8 | 15.8 |
| 23 | 11.8 | 13.7 | 14.6 | 12.2 | 16.8 | 16.8 |
| 24 | 9.7 | 10.3 | 11.9 | 11.3 | 13.2 | 13.9 |
| 25 | 8.6 | 9.4 | 12.0 | 10.4 | 15.7 | 16.5 |
| 26 | 8.3 | 8.8 | 10.4 | 8.9 | 13.1 | 14.3 |
| 27 | 10.1 | 9.6 | 11.6 | 9.4 | 11.8 | 12.2 |
| 28 | 9.7 | 9.3 | 12.5 | 11.7 | 12.7 | 12.5 |
| 29 | 8.8 | 8.8 | 10.9 | 9.3 | 11.5 | 12.0 |
| MEANS | 8.3 | 8.9 | 10.5 | 9.2 | 11.7 | 12.3 |
| DEPARTURE FROM NORMAL | .... | +0.3 | +0.3 | +0.4 | -0.1 | 0.0 |

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

TIME: G.M.T.

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

FEBRUARY 1964 شباط ١٩٦٤

TABLE 1-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|
| DATE | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 12.9 | 12.7 | 12.8 | 12.2 | 12.1 |
| 2 | 14.6 | 13.9 | 13.4 | 13.8 | 14.5 |
| 3 | 11.8 | 11.4 | 11.9 | 13.1 | 15.2 |
| 4 | 12.7 | 12.6 | 11.8 | 13.3 | 15.1 |
| 5 | 12.7 | 11.7 | 11.4 | 12.9 | 16.8 |
| 6 | 12.5 | 11.5 | 10.5 | 11.8 | 13.6 |
| 7 | 12.0 | 11.0 | 10.6 | 11.0 | 12.8 |
| 8 | 12.0 | 11.3 | 10.4 | 10.8 | 12.3 |
| 9 | 12.6 | 12.7 | 12.7 | 13.5 | 13.0 |
| 10 | 14.2 | 12.0 | 13.1 | 15.1 | 14.8 |
| 11 | 13.9 | 13.6 | 13.5 | 13.8 | 13.7 |
| 12 | 14.7 | 14.1 | 14.0 | 15.4 | 16.2 |
| 13 | 15.2 | 12.0 | 14.0 | 16.2 | 15.9 |
| 14 | 14.9 | 13.6 | 14.4 | 13.9 | 16.4 |
| 15 | 14.6 | 11.9 | 12.3 | 13.4 | 15.8 |
| 16 | 13.7 | 11.9 | 12.5 | 12.6 | 14.5 |
| 17 | 13.7 | 14.0 | 12.9 | 13.2 | 13.6 |
| 18 | 15.8 | 13.8 | 15.5 | 16.6 | 15.4 |
| 19 | 15.2 | 13.0 | 13.1 | 14.1 | 12.8 |
| 20 | 16.0 | 13.9 | 13.2 | 14.0 | 15.1 |
| 21 | 15.4 | 14.4 | 14.2 | 14.7 | 14.3 |
| 22 | 17.4 | 16.4 | 16.6 | 16.5 | 15.7 |
| 23 | 18.3 | 15.2 | 18.1 | 18.2 | 14.6 |
| 24 | 16.5 | 15.2 | 15.2 | 17.1 | 16.9 |
| 25 | 17.4 | 16.2 | 16.7 | 17.5 | 19.3 |
| 26 | 17.1 | 15.1 | 15.5 | 16.8 | 18.9 |
| 27 | 15.8 | 13.2 | 13.7 | 13.9 | 15.4 |
| 28 | 15.4 | 13.1 | 14.2 | 15.1 | 15.3 |
| 29 | 13.8 | 13.4 | 14.1 | 15.5 | 16.7 |
| MEANS | 14.6 | 13.3 | 13.5 | 14.3 | 15.1 |
| DEPARTURE FROM NORMAL | +1.4 | .... | +0.8 | +0.6 | +1.6 |

NOTE: AT HAI OBSERVATION 2100 IS MISSED.

FEBRUARY 1964 .

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1020.1 | 1020.0 | 1019.6 | 1015.1 | 1016.2 | 1017.5 |
| 2 | 15.8 | 16.2 | 16.0 | 14.8 | 14.0 | 13.9 |
| 3 | 07.0 | 09.3 | 10.1 | 08.7 | 08.8 | 09.7 |
| 4 | 14.6 | 16.2 | 17.0 | 13.4 | 15.3 | 16.3 |
| 5 | 15.0 | 16.2 | 16.6 | 15.5 | 16.1 | 16.8 |
| 6 | 20.6 | 20.7 | 20.0 | 19.4 | 18.9 | 19.1 |
| 7 | 24.6 | 24.8 | 24.0 | 24.2 | 23.5 | 23.2 |
| 8 | 21.0 | 21.3 | 21.0 | 19.1 | 20.5 | 21.1 |
| 9 | 13.1 | 13.8 | 13.5 | 11.2 | 11.0 | 12.1 |
| 10 | 11.7 | 12.3 | 12.1 | 12.3 | 11.7 | 12.0 |
| 11 | 15.4 | 16.4 | 15.9 | 14.8 | 15.0 | 15.5 |
| 12 | 14.6 | 15.4 | 14.5 | 12.8 | 12.5 | 13.3 |
| 13 | 15.2 | 15.4 | 14.1 | 14.8 | 14.2 | 13.9 |
| 14 | 18.3 | 18.4 | 18.1 | 18.0 | 17.6 | 17.6 |
| 15 | 22.4 | 23.2 | 21.2 | 22.8 | 21.4 | 20.9 |
| 16 | 23.1 | 27.7 | 22.7 | 22.6 | 22.7 | 22.7 |
| 17 | 20.3 | 20.6 | 20.0 | 14.9 | 18.3 | 19.2 |
| 18 | 18.1 | 18.2 | 16.7 | 15.2 | 13.9 | 14.1 |
| 19 | 19.0 | 19.0 | 18.0 | 18.8 | 16.5 | 16.4 |
| 20 | 21.0 | 21.4 | 20.6 | 20.0 | 20.6 | 20.4 |
| 21 | 21.1 | 21.4 | 20.5 | 17.4 | 20.1 | 20.0 |
| 22 | 14.8 | 15.8 | 15.0 | 11.0 | 13.0 | 14.1 |
| 23 | 09.9 | 10.3 | 10.8 | 10.7 | 09.4 | 09.9 |
| 24 | 15.9 | 16.3 | 15.7 | 14.9 | 15.3 | 15.4 |
| 25 | 19.1 | 19.5 | 18.9 | 17.6 | 17.6 | 17.5 |
| 26 | 20.6 | 20.5 | 20.0 | 21.9 | 20.1 | 19.8 |
| 27 | 23.0 | 22.7 | 21.2 | 21.9 | 21.5 | 20.4 |
| 28 | 17.3 | 17.0 | 16.0 | 14.3 | 15.4 | 15.6 |
| 29 | 14.3 | 14.7 | 14.2 | 11.5 | 12.6 | 12.8 |
| MEANS | 1017.5 | 1018.1 | 1017.4 | 1016.2 | 1016.3 | 1016.5 |
| DEPARTURE FROM NORMAL | .... | +0.5 | -0.1 | -1.4 | -0.2 | -0.9 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1025.7 | 7th | 0600 | 1964 | 1001.9 | 3rd | 1200 | 1964 | 1964 |
| MOSUL | 1026.3 | 7th | 0600 | 1964 | 1004.1 | 3rd | 1200 | 1964 | |
| KIRKUK | 1024.8 | 7th | 0600 | 1964 | 1005.7 | 3rd | 1200 | 1964 | |
| RUTBAH | 1026.7 | 7th | 0600 | 1964 | 1005.8 | 3rd | 0300 | 1964 | |
| HABBANIYA | 1025.5 | 7th | 0600 | 1964 | 1005.4 | 3rd | 0300 | 1964 | |
| BAGHDAD | 1024.6 | 7th | 0600 | 1964 | 1006.1 | 3rd | 0600 | 1964 | |
| SINJAR | 1027.6 | 23rd | 0300 | 1962 | 1001.9 | 3rd | 1200 | 1964 | RECORD |
| MOSUL | 1035.7 | 8th | 0600 | 1950 | 1000.8 | 22nd | 1500 | 1952 | |
| KIRKUK | 1034.4 | 8th | 0600 | 1950 | 1000.3 | 26th | 0300 | 1949 | |
| RUTBAH | 1037.9 | 8th | 0000 | 1950 | 999.0 | 9th | 1300 | 1941 | |
| BAGHDAD | 1033.7 | 8th | 0600 | 1950 | 998.4 | 2nd | 1800 | 1956 | |

FEBRUARY 1964 . شباط ١٩٦٤

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

DAILY MEAN PRESSURE ( MILLIBARS ) AT M.S.L. OF 0 OBSERVATIONS

| الايام | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|
| DATE | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1018.7 | 1016.0 | 1017.0 | 1018.3 | 1022.8 |
| 2 | 13.7 | 12.8 | 13.3 | 13.0 | 15.4 |
| 3 | 10.8 | 10.1 | 11.0 | 11.2 | 13.9 |
| 4 | 16.8 | 15.8 | 16.3 | 16.6 | 17.5 |
| 5 | 16.3 | 16.7 | 16.9 | 16.3 | 16.8 |
| 6 | 18.4 | 19.1 | 19.2 | 18.7 | 18.5 |
| 7 | 21.2 | 22.9 | 22.7 | 21.5 | 20.6 |
| 8 | 20.5 | 20.8 | 21.2 | 20.5 | 20.4 |
| 9 | 13.6 | 11.4 | 12.3 | 13.1 | 15.5 |
| 10 | 11.8 | 12.1 | 12.1 | 11.4 | 12.6 |
| 11 | 14.9 | 15.1 | 15.3 | 14.8 | 15.4 |
| 12 | 12.8 | 12.3 | 12.9 | 12.5 | 13.4 |
| 13 | 12.4 | 13.7 | 13.6 | 12.2 | 13.0 |
| 14 | 16.1 | 17.2 | 17.0 | 15.7 | 15.4 |
| 15 | 18.1 | 20.8 | 20.3 | 18.6 | 17.5 |
| 16 | 20.9 | 22.7 | 22.7 | 21.1 | 20.5 |
| 17 | 19.2 | 18.7 | 19.3 | 19.4 | 20.2 |
| 18 | 14.0 | 13.7 | 13.7 | 14.6 | 15.9 |
| 19 | 14.9 | 16.0 | 15.8 | 14.9 | 15.3 |
| 20 | 18.5 | 20.6 | 20.3 | 18.9 | 18.6 |
| 21 | 18.5 | 19.9 | 19.7 | 19.1 | 18.9 |
| 22 | 14.2 | 13.4 | 14.1 | 14.2 | 15.8 |
| 23 | 10.3 | 10.0 | 10.2 | 09.8 | 11.6 |
| 24 | 14.2 | 15.3 | 15.2 | 14.2 | 14.3 |
| 25 | 16.9 | 17.2 | 17.3 | 16.7 | 16.0 |
| 26 | 17.4 | 19.6 | 19.1 | 17.3 | 16.4 |
| 27 | 18.6 | 20.9 | 20.3 | 19.1 | 18.4 |
| 28 | 15.1 | 15.8 | 15.4 | 15.2 | 15.9 |
| 29 | 11.9 | 11.9 | 11.6 | 10.1 | 12.0 |
| MEANS | 1015.9 | 1016.3 | 1016.2 | 1015.8 | 1016.5 |
| DEPARTURE FROM NORMAL | -1.8 | .... | -0.9 | -1.3 | -0.7 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| HAI | 1022.1 | 7th | 0600 | 1964 | 1008.8 | 3rd | 1200 | 1964 | 1964 |
| NAJAF | 1024.4 | 16th | 0600 | 1964 | 1007.6 | 3rd | 0000 | 1964 | |
| DIWANIYA | 1024.3 | 7th | 0600 | 1964 | 1008.9 | 3rd | 0000 | 1964 | |
| NASIRIYA | 1023.0 | 8th | 0600 | 1964 | 1007.4 | 29th | 1200 | 1964 | |
| BASRAH | 1023.6 | 1st | 0000 | 1964 | 1008.1 | 29th | 1500 | 1964 | |
| HAI | 1032.4 | 8th | 0600 | 1950 | 1000.3 | 29th | 0000 | 1956 | RECORD |
| NAJAF | 1024.4 | 16th | 0600 | 1964 | 1002.8 | 25th | 0000 | 1963 | |
| DIWANIYA | 1034.9 | 8th | 0600 | 1950 | 997.9 | 28th | 2100 | 1956 | |
| NASIRIYA | 1033.3 | 8th | 0600 | 1950 | 998.1 | 28th | 2100 | 1956 | |
| BASRAH | 1031.7 | 8th | 0600 | 1950 | 999.8 | 5th | 1200 | 1951 | |

شباط ١٩٦٤

FEBRUARY 1964 .

TABLE - 3 .

المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | SIN-JAR | MO-SUL | KIR-KUK | RUT-BAH | HABB-ANIYA | BAG-HDAD | HAI | NA-JAF | DIWA-NIYA | NASI-RIYA | BAS-RAH |
| 1 | 92 | 85 | 61 | 77 | 78 | 56 | 42 | 34 | 34 | 41 | 45 |
| 2 | 71 | 77 | 69 | 90 | 85 | 66 | 57 | 44 | 70 | 76 | 71 |
| 3 | 90 | 88 | 89 | 73 | 89 | 89 | 93 | 53 | 92 | 84 | 74 |
| 4 | 89 | 87 | 88 | 63 | 85 | 80 | 82 | 60 | 78 | 73 | 70 |
| 5 | 86 | 90 | 83 | 66 | 82 | 76 | 80 | 53 | 75 | 75 | 69 |
| 6 | 84 | 82 | 80 | 76 | 81 | 76 | 70 | 68 | 71 | 68 | 67 |
| 7 | 65 | 80 | 79 | 67 | 81 | 77 | 71 | 65 | 73 | 69 | 71 |
| 8 | 72 | 82 | 70 | 49 | 76 | 73 | 67 | 60 | 71 | 68 | 75 |
| 9 | 87 | 82 | 63 | 59 | 63 | 59 | 59 | 50 | 54 | 55 | 65 |
| 10 | 83 | 79 | 73 | 59 | 76 | 65 | 67 | 61 | 59 | 63 | 90 |
| 11 | 78 | 88 | 70 | 61 | 75 | 70 | 66 | 61 | 68 | 66 | 84 |
| 12 | 91 | 94 | 78 | 64 | 74 | 69 | 55 | 56 | 58 | 57 | 76 |
| 13 | 72 | 86 | 76 | 76 | 90 | 85 | 69 | 67 | 66 | 56 | 82 |
| 14 | 80 | 85 | 79 | 74 | 77 | 67 | 65 | 61 | 63 | 77 | 69 |
| 15 | 65 | 79 | 77 | 69 | 75 | 69 | 58 | 62 | 66 | 73 | 77 |
| 16 | 51 | 75 | 71 | 61 | 71 | 65 | 59 | 51 | 58 | 62 | 81 |
| 17 | 56 | 75 | 57 | 41 | 64 | 56 | 58 | 50 | 55 | 54 | 54 |
| 18 | 55 | 73 | 51 | 55 | 59 | 44 | 45 | 49 | 46 | 50 | 59 |
| 19 | 51 | 71 | 61 | 60 | 61 | 52 | 58 | 56 | 61 | 63 | 79 |
| 20 | 54 | 69 | 59 | 46 | 66 | 55 | 50 | 49 | 60 | 53 | 64 |
| 21 | 51 | 70 | 50 | 37 | 69 | 56 | 50 | 50 | 64 | 54 | 67 |
| 22 | 53 | 73 | 45 | 36 | 56 | 46 | 47 | 44 | 50 | 49 | 58 |
| 23 | 61 | 70 | 58 | 57 | 54 | 50 | 45 | 50 | 55 | 52 | 48 |
| 24 | 78 | 81 | 73 | 51 | 72 | 60 | 52 | 60 | 58 | 56 | 67 |
| 25 | 82 | 90 | 65 | 55 | 59 | 51 | 51 | 51 | 47 | 49 | 61 |
| 26 | 75 | 86 | 73 | 58 | 67 | 54 | 48 | 48 | 51 | 46 | 62 |
| 27 | 53 | 74 | 46 | 44 | 66 | 53 | 52 | 70 | 52 | 47 | 71 |
| 28 | 56 | 72 | 45 | 37 | 52 | 50 | 54 | 76 | 53 | 47 | 72 |
| 29 | 70 | 81 | 68 | 68 | 92 | 79 | 87 | 85 | 74 | 71 | 82 |
| MEANS | 71 | 80 | 68 | 60 | 72 | 64 | 61 | 57 | 61 | 60 | 69 |
| NORMAL | .. | 63 | 65 | 56 | 62 | 61 | 60 | .. | 58 | 58 | 74 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 97 | 1200 | 3rd | 40 | 1200 | 2nd |
| MOSUL | 98 | 0900 | 25th | 42 | 1200 | 28th |
| KIRKUK | 99 | 1500 | 3rd | 21 | 1200 | 27th |
| RUTBAH | 100 | 2100 | 1st | 16 | 1200 | 17th |
| HABBANIYA | 100 | 2100 | 29th | 29 | 1200 | 22nd |
| BAGHDAD | 100 | 2100 | 3rd | 25 | 1200 | 1st |
| HAI | 98 | 1800 | 3rd | 26 | 1200 | 1st |
| NAJAF | 90 | 2100 | 29th | 20 | 1200 | 1st |
| DIWANIYA | 96 | 0000 | 4th | 19 | 1200 | 1st |
| NASIRIYA | 94 | 2100 | 2nd | 20 | 0900 | 1st |
| BASRAH | 100 | 0600 | 11th | 24 | 1500 | 1st |

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( درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

BLE 4-a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| الايام | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| TE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 4.8 | 0.0 | 9.0 | 2.2 | 12.4 | 5.0 | 15.0 | 3.3 | 13.0 | 5.3 |
| 2 | 10.5 | 1.6 | 15.2 | 5.4 | 16.0 | 5.0 | 16.1 | 4.4 | 11.4 | 0.8 |
| 3 | 6.6 | 3.2 | 9.0 | 7.0 | 10.4 | 6.0 | 16.1 | 7.8 | 12.5 | 5.0 |
| 4 | 9.6 | 2.6 | 12.8 | 5.8 | 12.0 | 6.8 | 15.6 | 7.8 | 13.5 | 2.6 |
| 5 | 8.5 | [illegible] | 11.2 | 5.6 | 10.3 | 5.5 | 10.6 | 7.2 | 12.0 | 2.4 |
| 6 | 9.3 | 2.8 | 13.2 | 5.2 | 13.9 | 5.8 | 15.0 | 3.9 | 10.6 | 2.5 |
| 7 | 10.3 | 2.3 | 12.6 | 2.2 | 12.2 | 2.4 | 14.4 | 2.2 | 13.0 | 1.3 |
| 8 | 10.5 | 4.0 | 13.2 | 1.4 | 13.9 | 2.4 | 13.3 | 0.5 | 16.5 | 0.0 |
| 9 | 8.3 | 4.3 | 10.6 | 5.2 | 13.0 | 4.8 | 17.8 | 3.3 | 15.5 | 0.6 |
| 10 | 8.4 | 3.6 | 13.2 | 5.8 | 13.1 | 7.2 | 16.7 | 4.4 | 13.8 | 1.8 |
| 11 | 8.5 | 3.4 | 11.3 | 1.7 | 14.9 | 4.2 | 16.1 | 7.2 | 14.7 | 0.7 |
| 12 | 7.5 | 4.0 | 8.8 | 3.2 | 10.8 | 8.4 | 17.2 | 6.6 | 13.2 | 7.2 |
| 13 | 10.1 | 2.5 | 12.8 | 5.8 | 14.9 | 7.8 | 16.7 | 8.9 | 14.2 | 1.4 |
| 14 | 10.6 | 3.8 | 15.2 | 3.7 | 14.4 | 5.8 | 16.1 | 6.1 | 12.8 | 1.4 |
| 15 | 11.2 | 4.0 | 14.0 | 4.8 | 14.2 | 4.4 | 16.1 | 3.3 | 14.5 | 0.4 |
| 16 | 13.0 | 4.8 | 15.1 | 3.0 | 16.0 | 3.5 | 16.1 | 2.2 | 16.5 | 1.3 |
| 17 | 12.2 | 5.0 | 15.3 | 3.1 | 15.1 | 5.4 | 17.8 | 3.3 | 19.0 | 5.6 |
| 18 | 13.3 | 6.2 | 17.0 | 5.8 | 17.5 | 9.2 | 20.6 | 7.2 | 15.7 | 5.5 |
| 19 | 13.6 | 6.4 | 16.4 | 3.7 | 17.1 | 7.4 | 19.0 | 5.0 | 16.2 | 4.8 |
| 20 | 15.0 | 6.0 | 17.6 | 3.4 | 17.1 | 4.3 | 18.9 | 4.4 | 19.5 | 4.4 |
| 21 | 15.5 | 5.3 | 19.4 | 2.7 | 18.7 | 4.8 | 20.0 | 3.9 | 21.2 | 5.5 |
| 22 | 13.8 | 7.2 | 17.2 | 3.8 | 19.7 | 7.5 | 22.8 | 3.9 | 24.5 | 8.3 |
| 23 | 15.8 | 6.3 | 18.8 | 9.6 | 19.2 | 11.0 | 23.9 | 11.7 | 18.7 | 6.3 |
| 24 | 13.8 | 4.8 | 14.0 | 5.8 | 16.5 | 8.1 | 19.4 | 11.1 | 17.0 | 5.5 |
| 25 | 10.0 | 6.7 | 13.2 | 6.4 | 15.5 | 7.5 | 19.4 | 7.2 | 15.4 | 6.2 |
| 26 | 10.6 | 5.2 | 13.6 | 4.8 | 15.5 | 6.3 | 17.2 | 8.9 | 15.2 | 3.2 |
| 27 | 13.6 | 4.3 | 16.6 | 3.6 | 18.3 | 4.7 | 19.4 | 3.9 | 17.5 | 0.8 |
| 28 | 12.5 | 5.5 | 15.1 | 3.8 | 17.5 | 6.8 | 21.1 | 6.1 | 19.5 | 5.4 |
| 29 | 11.2 | 4.3 | 12.0 | 5.0 | 14.6 | 7.9 | 13.3 | 10.6 | 14.5 | 4.8 |
| EANS | 11.0 | 4.3 | 13.9 | 4.5 | 15.0 | 6.2 | 17.3 | 5.7 | 15.6 | 3.4 |
| DEPARTURE FROM NORMAL | .... | .... | -0.6 | +1.3 | -0.2 | +0.9 | 0.0 | +0.1 | -0.2 | +0.9 |

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

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | حي | |
|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 13.4 | 4.9 | 16.6 | 4.8 | 17.2 | 6.2 |
| 2 | 15.1 | 2.2 | 15.8 | 4.8 | 19.0 | 9.2 |
| 3 | 16.6 | 10.6 | 15.0 | 9.5 | 13.6 | 10.0 |
| 4 | 17.2 | 5.5 | 16.2 | 5.4 | 18.9 | 6.3 |
| 5 | 15.9 | 7.3 | 15.9 | 7.3 | 19.8 | 6.9 |
| 6 | 16.6 | 3.6 | 16.9 | 3.4 | 18.8 | 4.3 |
| 7 | 15.2 | 3.7 | 15.5 | 3.0 | 18.1 | 5.0 |
| 8 | 17.0 | 1.7 | 16.6 | 1.5 | 17.8 | 5.2 |
| 9 | 20.2 | 5.5 | 18.4 | 5.1 | 18.8 | 4.3 |
| 10 | 19.5 | 5.0 | 18.2 | 6.0 | 21.2 | 8.0 |
| 11 | 18.4 | 5.3 | 18.8 | 5.4 | 21.6 | 5.8 |
| 12 | 16.2 | 8.0 | 18.6 | 8.5 | 21.2 | 6.3 |
| 13 | 15.6 | 4.6 | 16.5 | 4.9 | 22.3 | 9.4 |
| 14 | 17.6 | 6.7 | 18.1 | 6.7 | 21.6 | 7.2 |
| 15 | 16.6 | 5.4 | 17.2 | 4.5 | 18.7 | 9.4 |
| 16 | 17.8 | 4.6 | 18.5 | 3.6 | 19.8 | 6.7 |
| 17 | 21.7 | 3.8 | 19.8 | 3.0 | 21.8 | 4.4 |
| 18 | 21.7 | 7.2 | 20.2 | 9.8 | 22.0 | 9.2 |
| 19 | 22.1 | 6.1 | 20.2 | 6.8 | 21.8 | 7.2 |
| 20 | 19.6 | 5.5 | 19.8 | 4.7 | 22.9 | 9.2 |
| 21 | 21.7 | 4.3 | 21.5 | 3.6 | 22.6 | 5.8 |
| 22 | 25.0 | 6.7 | 23.2 | 5.8 | 25.2 | 6.6 |
| 23 | 22.8 | 9.7 | 23.4 | 9.8 | 24.0 | 12.2 |
| 24 | 19.5 | 10.0 | 19.8 | 9.0 | 25.0 | 9.0 |
| 25 | 22.0 | 7.8 | 22.4 | 9.3 | 24.8 | 7.8 |
| 26 | 22.2 | 8.9 | 20.2 | 11.5 | 22.6 | 11.0 |
| 27 | 18.7 | 5.4 | 19.3 | 5.8 | 21.8 | 7.4 |
| 28 | 19.3 | 4.4 | 18.4 | 3.4 | 22.0 | 5.2 |
| 29 | 14.2 | 9.4 | 13.5 | 9.0 | 17.2 | 10.8 |
| MEANS | 15.2 | 6.0 | 15.0 | 6.1 | 20.8 | 7.4 |
| DEPARTURE FROM NORMAL | -3.4 | +0.2 | -3.5 | +0.4 | +1.0 | +0.3 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 30.6 | 22&26th | 1941 | -5.0 | 8&9th | 1950 |
| BAGHDAD | 30.0 | 26th | 1941 | -5.0 | 9th | 1950 |
| HAI | 29.4 | 24&27th | 1941 | -3.9 | 10th | 1949 |

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 21.4 | 2.3 | 20.2 | 4.1 | 17.8 | 2.6 | 19.9 | 4.0 |
| 2 | 17.5 | 8.3 | 17.5 | 8.0 | 17.0 | 9.8 | 17.9 | 11.3 |
| 3 | 15.4 | 5.4 | [illegible] | 10.2 | 14.2 | 11.7 | 17.8 | 11.6 |
| 4 | 18.6 | 7.3 | 18.3 | 7.0 | 20.0 | 6.4 | 22.8 | 10.2 |
| 5 | 16.8 | 5.4 | 17.1 | 7.6 | 20.0 | 7.5 | 25.6 | 7.8 |
| 6 | 16.6 | 6.0 | 19.0 | 2.7 | 18.3 | 5.2 | 20.2 | 8.1 |
| 7 | 15.7 | 5.4 | 17.9 | 5.1 | 17.6 | 5.3 | 19.1 | 6.0 |
| 8 | 16.0 | 4.4 | 17.5 | 3.3 | 17.5 | 4.5 | 18.6 | 8.0 |
| 9 | 20.2 | 5.0 | 20.4 | 4.6 | 20.2 | 5.9 | 21.5 | 3.7 |
| 10 | 18.6 | 5.6 | 20.5 | 4.2 | 21.5 | 10.7 | 20.2 | 9.6 |
| 11 | 20.0 | 6.8 | 21.7 | 6.2 | 21.2 | 5.7 | 21.1 | 8.6 |
| 12 | 20.5 | 6.8 | 22.4 | 6.9 | 21.0 | 9.7 | 24.1 | 8.7 |
| 13 | 16.5 | 7.4 | 20.6 | 9.0 | 23.2 | 9.5 | 22.8 | 11.1 |
| 14 | 18.2 | 7.4 | 19.7 | 8.5 | 16.2 | 10.5 | 21.7 | 12.0 |
| 15 | 16.0 | 9.0 | 17.6 | 7.2 | 18.0 | 11.2 | 18.9 | 11.4 |
| 16 | 17.6 | 5.2 | 19.3 | 5.6 | 19.7 | 6.9 | 20.5 | 9.5 |
| 17 | 20.6 | 6.0 | 21.5 | 4.2 | 21.3 | 3.2 | 21.8 | 5.2 |
| 18 | 20.0 | 7.2 | 24.3 | 8.0 | 25.3 | 11.6 | 22.7 | 10.8 |
| 19 | 18.9 | 6.3 | 21.0 | 6.5 | 21.3 | 6.3 | 21.8 | 8.4 |
| 20 | 19.6 | 7.8 | 21.0 | 6.0 | 21.8 | 6.8 | 22.8 | 7.4 |
| 21 | 21.6 | 7.0 | 22.4 | 6.4 | 22.5 | 7.0 | 22.9 | 7.4 |
| 22 | 23.4 | 7.0 | 24.4 | 8.8 | 24.8 | 6.6 | 25.3 | 5.4 |
| 23 | 23.5 | 12.0 | 25.5 | 12.5 | 24.5 | 12.2 | 25.7 | 9.0 |
| 24 | 19.3 | 10.6 | 21.9 | 8.6 | 25.5 | 9.6 | 25.6 | 8.6 |
| 25 | 22.6 | 7.0 | 24.3 | 9.8 | 24.5 | 11.0 | 26.9 | 12.3 |
| 26 | 20.0 | 11.0 | 22.0 | 10.0 | 23.0 | 12.3 | 25.7 | 14.1 |
| 27 | 19.6 | 8.4 | 21.0 | 6.5 | 21.0 | 7.6 | 22.0 | 11.2 |
| 28 | 18.6 | 6.2 | 21.1 | 6.2 | 21.3 | 5.0 | 21.9 | 5.9 |
| 29 | 16.0 | 10.2 | 16.4 | 11.8 | 20.1 | 11.7 | 24.3 | 11.9 |
| MEANS | 18.9 | 7.0 | 16.9 | 7.1 | 20.7 | 8.1 | 22.1 | 8.9 |
| DEPARTURE FROM NORMAL | .... | .... | -2.7 | +2.6 | +0.2 | +0.7 | +1.6 | +0.3 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 29.1 | 22nd | 1963 | 2.3 | 1st | 1963 |
| DIWANIYA | 32.0 | 22nd | 1955 | -7.2 | 9th | 1950 |
| NASIRIYA | 32.6 | 17th | 1962 | -3.9 | 9th | 1950 |
| BASRAH | 31.4 | 17th | 1962 | -2.2 | 9th | 1950 |

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TABLE 5 — المعدل الشهري لدرجات الحرارة للمصلة الجافة ( مستفراد )

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 5.9 | 7.3 | 9.8 | 10.0 | 9.6 | 7.7 | ... | 8.3 |
| MOSUL | 6.1 | 5.5 | 7.2 | [illegible] | [illegible] | 11.5 | 8.9 | 7.4 | 8.9 |
| KIRKUK | 7.9 | 7.5 | 9.5 | [illegible] | [illegible] | 12.5 | 10.3 | 8.8 | 10.5 |
| KHANAQIN | ... | 7.5 | 10.6 | [illegible] | [illegible] | [illegible] | 11.8 | ... | 13.0 |
| RUTBAH | 5.5 | 4.5 | 7.0 | [illegible] | [illegible] | [illegible] | 9.1 | 7.1 | 9.2 |
| HABBANIYA | 8.2 | 6.9 | 9.7 | 13.5 | [illegible] | [illegible] | 11.3 | 9.8 | 11.7 |
| BAGHDAD | 8.6 | 7.5 | 10.2 | 15.9 | 17.8 | 15.2 | 12.2 | 10.3 | 12.3 |
| HAI | ... | 8.4 | 11.3 | [illegible] | [illegible] | [illegible] | [illegible] | ... | 14.6 |
| NAJAF | 10.0 | 7.7 | 11.4 | [illegible] | [illegible] | [illegible] | 14.0 | 11.7 | 13.4 |
| DIWANIYA | 9.2 | 8.2 | 11.7 | 18.0 | 20.0 | 15.9 | 12.9 | 11.0 | 13.5 |
| NASIRIYA | 10.5 | 9.2 | 12.1 | 18.6 | 20.2 | 17.6 | 14.2 | 12.3 | 14.3 |
| BASRAH | 11.0 | 10.0 | 13.7 | 19.7 | 21.4 | 17.9 | 14.6 | 12.8 | 15.1 |

TABLE 6 — المعدل الشهري للضغط البخاري ( ملي بار )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 7.1 | 7.4 | 7.7 | 7.9 | 7.8 | 7.9 | ... | 7.6 |
| MOSUL | 8.4 | 8.1 | 8.5 | 9.5 | 9.5 | 9.8 | 9.3 | 8.9 | 9.0 |
| KIRKUK | 8.0 | 7.8 | 8.2 | [illegible] | 8.1 | 8.7 | 8.7 | 8.1 | 8.2 |
| KHANAQIN | ... | 8.1 | 8.6 | 7.6 | 8.4 | 8.6 | 8.9 | ... | 8.5 |
| RUTBAH | 6.5 | 6.4 | 6.6 | 6.8 | 6.3 | 6.5 | 6.8 | 6.9 | 6.6 |
| HABBANIYA | 9.1 | 8.1 | 9.6 | 10.2 | 10.1 | 10.3 | 9.6 | 9.5 | 9.6 |
| BAGHDAD | 8.8 | 8.0 | 8.8 | 8.9 | 8.3 | 8.8 | 9.6 | 9.0 | 8.8 |
| HAI | ... | 8.8 | 9.9 | 10.3 | 9.4 | 10.1 | 9.7 | ... | 9.7 |
| NAJAF | 8.1 | 7.4 | 11.4 | 8.7 | 8.3 | [illegible] | 8.7 | 8.4 | 8.7 |
| DIWANIYA | 8.5 | 8.4 | 9.4 | 10.1 | 9.1 | 9.5 | 9.2 | 9.1 | 9.2 |
| NASIRIYA | 8.9 | 8.7 | 9.6 | 9.8 | 9.2 | 10.1 | 10.0 | 9.6 | 9.5 |
| BASRAH | 10.8 | 10.5 | 11.8 | 12.8 | 11.9 | 12.9 | 12.1 | 11.7 | 11.7 |

TABLE 7 — المعدل الشهري لدرجة الحرارة المبللة ( مستفراد )

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 4.3 | 5.3 | 6.4 | 7.1 | 6.7 | 5.6 | ... | 5.9 |
| MOSUL | 5.4 | 4.8 | 6.1 | 9.2 | 9.8 | 9.2 | 7.5 | 6.4 | 7.3 |
| KIRKUK | 6.0 | 5.7 | 7.1 | 9.1 | 9.4 | 9.0 | 7.8 | 6.6 | 7.6 |
| KHANAQIN | ... | 5.8 | 8.0 | 10.6 | 11.0 | 10.1 | 8.7 | ... | 9.0 |
| RUTBAH | 3.7 | 3.0 | 4.7 | 7.8 | 8.6 | 7.9 | 6.0 | 4.8 | 5.8 |
| HABBANIYA | 6.9 | 6.0 | 8.1 | 11.4 | 12.2 | 10.9 | 9.0 | 8.1 | 9.1 |
| BAGHDAD | 6.8 | 6.1 | 7.9 | 10.8 | 11.4 | 10.7 | 9.2 | 8.4 | 8.9 |
| HAI | ... | 6.7 | 8.8 | 12.2 | 12.4 | 11.3 | 9.8 | ... | 10.2 |
| NAJAF | 7.1 | 5.5 | 8.2 | 11.0 | 11.8 | 11.1 | 9.7 | 8.5 | 9.1 |
| DIWANIYA | 7.1 | 6.4 | 9.3 | 12.4 | 12.8 | 11.6 | 9.5 | 8.4 | 9.7 |
| NASIRIYA | 8.1 | 7.2 | 9.4 | 12.6 | 13.0 | 12.3 | 10.6 | 9.4 | 10.3 |
| BASRAH | 9.5 | 8.8 | 11.5 | 14.7 | 14.9 | 13.6 | 12.1 | 11.0 | 12.0 |

TABLE 8 — معدل درجة الندى ( مستفراد )

MONTHLY MEAN DEW-POINT ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 1.9 | 2.6 | 6.4 | 3.4 | 3.1 | 2.7 | ... | 3.3 |
| MOSUL | 4.5 | 3.9 | 4.6 | 6.2 | 6.1 | 6.7 | 6.0 | 5.3 | 5.4 |
| KIRKUK | 3.5 | 3.2 | 3.9 | 4.0 | 3.5 | 4.7 | 4.8 | 3.7 | 3.9 |
| KHANAQIN | ... | 3.8 | 4.6 | 5.0 | 5.0 | 5.3 | 5.0 | ... | 4.7 |
| RUTBAH | 0.6 | 0.6 | 1.3 | 1.1 | -0.2 | 0.7 | 1.3 | 1.3 | 0.8 |
| HABBANIYA | 5.4 | 4.9 | 6.3 | 7.1 | 5.7 | 7.2 | 6.3 | 6.0 | 6.3 |
| BAGHDAD | 4.5 | 4.2 | 5.0 | 5.1 | 4.0 | 4.8 | 5.8 | 5.4 | 4.9 |
| HAI | ... | 4.9 | 6.6 | 7.0 | 5.8 | 6.8 | 6.3 | ... | 6.2 |
| NAJAF | 3.8 | 3.2 | 3.9 | 4.7 | 3.8 | 4.3 | 4.7 | 4.4 | 4.1 |
| DIWANIYA | 4.3 | 4.2 | 5.9 | 6.7 | 5.2 | 5.8 | 5.5 | 4.9 | 5.3 |
| NASIRIYA | 5.2 | 4.9 | 6.2 | 6.5 | 5.7 | 6.9 | 6.8 | 6.2 | 6.1 |
| BASRAH | 8.0 | 7.4 | 9.3 | 10.3 | 9.1 | 9.5 | 9.6 | 9.2 | 9.1 |

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TABLE - 9.

المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| | TIME - G. M. T. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
| SINJAR | ,, | 76 | 73 | 68 | 66 | 67 | 72 | ,, | 70 |
| MOSUL | 89 | 90 | 84 | 69 | 64 | 73 | 82 | 87 | 80 |
| KIRKUK | 76 | 77 | 71 | 57 | 53 | 62 | 71 | 73 | 68 |
| KHANAQIN | ,, | 77 | 67 | 49 | 46 | 52 | 64 | ,, | 59 |
| RUTBAH | 73 | 77 | 67 | 48 | 40 | 46 | 61 | 70 | 60 |
| HABBANIYA | 84 | 81 | 81 | 70 | 51 | 63 | 73 | 76 | 72 |
| BAGHDAD | 77 | 81 | 72 | 51 | 42 | 50 | 66 | 73 | 64 |
| HAI | ,, | 80 | 74 | 50 | 40 | 55 | 65 | ,, | 61 |
| NAJAF | 67 | 79 | 61 | 47 | 39 | 45 | 55 | 63 | 57 |
| DIWANIYA | 73 | 78 | 69 | 50 | 40 | 53 | 62 | 69 | 62 |
| NASIRIYA | 71 | 75 | 68 | 47 | 40 | 51 | 62 | 68 | 60 |
| BASRAH | 82 | 85 | 75 | 56 | 48 | 60 | 74 | 80 | 70 |

TABLE -10.

المعدل الشهري للضغط الجوي على سطح البحر (ملليبارات)

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 18.0 | 18.4 | 17.9 | 16.4 | 16.6 | 17.7 | ,,,, | 1017.5 |
| MOSUL | 20.1 | 18.4 | 19.2 | 18.2 | 16.3 | 16.9 | 17.8 | 18.1 | 1018.1 |
| KIRKUK | 17.8 | 17.7 | 18.4 | 17.5 | 15.9 | 16.3 | 17.5 | 17.7 | 1017.4 |
| KHANAQIN | ,,,, | 18.9 | 18.5 | 17.0 | 15.3 | 15.4 | 17.4 | ,,,, | 1017.1 |
| RUTBAH | 16.2 | 16.1 | 17.2 | 16.5 | 15.0 | 15.4 | 16.4 | 16.1 | 1016.1 |
| HABBANIYA | 16.4 | 16.5 | 17.7 | 17.0 | 15.2 | 15.4 | 16.3 | 16.2 | [illegible] |
| BAGHDAD | 16.4 | 16.5 | 18.9 | 17.4 | 15.3 | 15.8 | 16.6 | 16.4 | 1016.7 |
| HAI | ,,,,, | 16.0 | 17.1 | 16.5 | 14.7 | 15.1 | 15.9 | ,,,, | 1015.9 |
| NAJAF | 16.2 | 16.6 | 17.6 | 16.9 | 15.3 | 15.3 | 16.2 | 16.3 | 1016.3 |
| DIWANIYA | 16.3 | 16.6 | 17.9 | 17.1 | 15.1 | 15.3 | 16.4 | 16.5 | 1016.4 |
| NASIRIYA | 15.9 | 16.1 | 17.2 | 16.5 | 14.4 | 14.8 | 15.7 | 15.8 | 1015.8 |
| BASRAH | 16.5 | 16.6 | 17.7 | 16.9 | 15.1 | 15.3 | 16.2 | 16.2 | 1016.3 |

TABLE -11.

معدل الغيوم الواطئة (اثمان)

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAE | ,,, | 2.7 | 2.7 | 3.2 | 4.7 | 3.3 | 1.4 | ,,, | 3.0 |
| MOSUL | 4.3 | 4.1 | 4.0 | 4.7 | 5.2 | 3.8 | 3.3 | 3.5 | 4.1 |
| KIRKUK | 2.5 | 2.6 | 2.6 | 2.4 | 3.2 | 3.0 | 2.9 | 2.5 | 2.7 |
| KHANAQIN | ,,, | 3.1 | 2.6 | 3.2 | 4.0 | 3.7 | 2.0 | ,,, | 3.1 |
| RUTBAH | 1.0 | 1.3 | 1.7 | 2.9 | 3.6 | 2.7 | 1.0 | 0.8 | 1.9 |
| HABBANIYA | 0.6 | 1.0 | 1.1 | 1.3 | 1.4 | 1.2 | 0.7 | 0.7 | 1.0 |
| BAGHDAD | 0.9 | 1.0 | 0.9 | 1.3 | 1.6 | 1.0 | 0.8 | 1.1 | 1.1 |
| HAI | ,,, | 0.6 | 0.6 | 0.7 | 1.1 | 0.2 | 0.8 | ,,, | 0.7 |
| NAJAF | 0.9 | 0.9 | 0.6 | 0.6 | 1.2 | 1.0 | 1.0 | 0.9 | 0.9 |
| DIWANIYA | 0.7 | 1.2 | 0.8 | 0.7 | 1.1 | 1.1 | 0.8 | 0.7 | 0.9 |
| NASIRIYA | 0.9 | 1.0 | 1.0 | 0.6 | 1.1 | 0.7 | 1.0 | 0.9 | 0.9 |
| BASRAH | 0.8 | 1.7 | 1.4 | 0.7 | 1.1 | 0.8 | 0.6 | 0.6 | 1.0 |

TABLE -12.

معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,, | 4.0 | 5.2 | 5.4 | 5.8 | 5.5 | 3.7 | ,,, | 4.9 |
| MOSUL | 4.9 | 5.0 | 5.8 | 6.6 | 6.6 | 5.3 | 4.0 | 4.4 | 5.3 |
| KIRKUK | 3.8 | 3.5 | 4.6 | 4.6 | 5.3 | 4.6 | 3.9 | 3.3 | 4.2 |
| KHANAQIN | ,,, | 4.1 | 4.1 | 4.7 | 5.5 | 4.9 | 2.7 | ,,, | 4.7 |
| RUTBAH | 2.1 | 3.1 | 3.7 | 4.5 | 5.1 | 4.3 | 2.2 | 2.0 | 3.4 |
| HABBANIYA | 2.7 | 3.4 | 3.6 | 4.2 | 3.5 | 3.3 | 2.7 | 2.6 | 3.2 |
| BAGHDAD | 2.7 | 2.9 | 3.4 | 3.6 | 4.1 | 3.4 | 2.1 | 2.4 | 3.1 |
| HAI | ,,, | 3.3 | 3.6 | 2.9 | 3.3 | 1.8 | 3.2 | ,,, | 3.0 |
| NAJAF | 2.0 | 2.3 | 2.6 | 2.9 | 3.8 | 3.2 | 2.3 | 2.1 | 2.7 |
| DIWANIYA | 2.1 | 2.9 | 2.2 | 2.9 | 3.2 | 2.9 | 1.9 | 1.8 | 2.5 |
| NASIRIYA | 2.1 | 3.2 | 3.1 | 2.7 | 2.7 | 2.4 | 2.1 | 2.3 | 2.6 |
| BASRAH | 2.7 | 3.3 | 3.4 | 2.7 | 2.7 | 2.5 | 1.7 | 2.0 | 2.6 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت گرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM. | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 9 | 0 | 6 | 0 | 1 | 0 | 2 | 2 | 9 | 15 | 5 | 0 | 0 | 6 |
| | 0600 | 5 | 0 | 12 | 0 | 0 | 0 | 3 | 0 | 9 | 17 | 3 | 0 | 0 | 6 |
| | 0900 | 1 | 0 | 19 | 0 | 1 | 0 | 4 | 1 | 3 | 25 | 1 | 0 | 0 | 7 |
| | 1200 | 1 | 1 | 13 | 0 | 4 | 0 | 8 | 0 | 2 | 23 | 4 | 0 | 0 | 8 |
| | 1500 | 1 | 0 | 9 | 0 | 3 | 0 | 3 | 1 | 12 | 13 | 3 | 1 | 0 | 5 |
| | 1800 | 10 | 3 | 7 | 0 | 0 | 0 | 4 | 3 | 2 | 23 | 4 | 0 | 0 | 6 |
| | TOTAL | 27 | 4 | 66 | 0 | 9 | 0 | 24 | 7 | 37 | 116 | 20 | 1 | 0 | 6 |
| موصل MOSUL | 0000 | 1 | 0 | 3 | 4 | 2 | 1 | 2 | 8 | 8 | 16 | 4 | 1 | 0 | 6 |
| | 0300 | 0 | 0 | 5 | 3 | 1 | 0 | 9 | 3 | 8 | 18 | 2 | 1 | 0 | 6 |
| | 0600 | 0 | 1 | 5 | 2 | 1 | 0 | 8 | 7 | 5 | 19 | 5 | 0 | 0 | 7 |
| | 0900 | 4 | 0 | 7 | 6 | 5 | 0 | 3 | 4 | 0 | 19 | 10 | 0 | 0 | 9 |
| | 1200 | 1 | 0 | 6 | 5 | 6 | 0 | 2 | 4 | 5 | 13 | 11 | 0 | 0 | 8 |
| | 1500 | 4 | 0 | 8 | 1 | 4 | 0 | 3 | 2 | 7 | 18 | 4 | 0 | 0 | 6 |
| | 1800 | 0 | 0 | 5 | 3 | 3 | 1 | 5 | 5 | 7 | 18 | 4 | 0 | 0 | 6 |
| | 2100 | 2 | 1 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 21 | 3 | 0 | 0 | 6 |
| | TOTAL | 12 | 2 | 42 | 28 | 26 | 2 | 37 | 38 | 45 | 142 | 43 | 2 | 0 | 7 |
| كركوك KIRKUK | 0000 | 1 | 4 | 2 | 4 | 1 | 0 | 0 | 0 | 17 | 11 | 1 | 0 | 0 | 3 |
| | 0300 | 0 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 14 | 13 | 2 | 0 | 0 | 3 |
| | 0600 | 1 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 18 | 9 | 2 | 0 | 0 | 2 |
| | 0900 | 3 | 0 | 0 | 5 | 9 | 1 | 2 | 1 | 8 | 17 | 3 | 1 | 0 | 5 |
| | 1200 | 1 | 0 | 3 | 5 | 7 | 2 | 6 | 1 | 4 | 19 | 5 | 1 | 0 | 6 |
| | 1500 | 0 | 2 | 2 | 2 | 3 | 0 | 3 | 2 | 15 | 12 | 2 | 0 | 0 | 3 |
| | 1800 | 0 | 6 | 6 | 0 | 1 | 0 | 1 | 0 | 15 | 13 | 1 | 0 | 0 | 3 |
| | 2100 | 1 | 5 | 4 | 3 | 1 | 0 | 0 | 0 | 15 | 13 | 1 | 0 | 0 | 3 |
| | TOTAL | 7 | 29 | 23 | 24 | 24 | 3 | 12 | 4 | 106 | 107 | 17 | 2 | 0 | 4 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 8 | 1 | 9 | 0 | 1 | 0 | 10 | 19 | 0 | 0 | 0 | 3 |
| | 0600 | 0 | 1 | 8 | 2 | 7 | 0 | 2 | 0 | 9 | 19 | 1 | 0 | 0 | 3 |
| | 0900 | 3 | 1 | 4 | 0 | 6 | 0 | 4 | 3 | 8 | 18 | 1 | 1 | 1 | 6 |
| | 1200 | 3 | 0 | 0 | 0 | 9 | 0 | 10 | 5 | 2 | 23 | 2 | 2 | 0 | 7 |
| | 1500 | 1 | 1 | 1 | 1 | 10 | 0 | 7 | 4 | 4 | 22 | 2 | 0 | 1 | 6 |
| | 1800 | 0 | 0 | 4 | 1 | 4 | 0 | 5 | 1 | 14 | 14 | 0 | 1 | 0 | 3 |
| | TOTAL | 7 | 3 | 25 | 5 | 45 | 0 | 29 | 13 | 47 | 115 | 6 | 4 | 2 | 5 |
| رطبة RUTBAH | 0000 | 1 | 2 | 1 | 2 | 3 | 4 | 4 | 2 | 10 | 15 | 4 | 0 | 0 | 5 |
| | 0300 | 1 | 1 | 0 | 3 | 6 | 5 | 5 | 0 | 8 | 20 | 1 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 0 | 2 | 7 | 6 | 6 | 2 | 6 | 17 | 6 | 0 | 0 | 6 |
| | 0900 | 3 | 0 | 0 | 1 | 4 | 4 | 10 | 3 | 4 | 19 | 4 | 2 | 0 | 8 |
| | 1200 | 4 | 0 | 0 | 2 | 7 | 1 | 7 | 8 | 0 | 19 | 7 | 3 | 0 | 10 |
| | 1500 | 4 | 2 | 1 | 3 | 4 | 1 | 8 | 5 | 1 | 26 | 2 | 0 | 0 | 7 |
| | 1800 | 4 | 3 | 4 | 1 | 1 | 2 | 2 | 6 | 6 | 21 | 2 | 0 | 0 | 4 |
| | 2100 | 2 | 0 | 3 | 2 | 2 | 0 | 5 | 3 | 12 | 15 | 2 | 0 | 0 | 4 |
| | TOTAL | 19 | 8 | 9 | 16 | 34 | 23 | 47 | 29 | 47 | 152 | 28 | 5 | 0 | 6 |

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TABLE 13-a.

عدد تكرار وحدات الرياح السطحية

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 0 | 2 | 3 | 5 | 1 | 0 | 1 | 5 | 12 | 14 | 3 | 0 | 0 | 4 |
| | 0300 | 0 | 1 | 2 | 2 | 3 | 2 | 3 | 5 | 11 | 15 | 2 | 1 | 0 | 5 |
| | 0600 | 1 | 0 | 4 | 4 | 1 | 2 | 7 | 3 | 7 | 15 | 6 | 1 | 0 | 8 |
| | 0900 | 2 | 0 | 2 | 2 | 5 | 2 | 7 | 6 | 3 | 18 | 6 | 2 | 0 | 8 |
| | 1200 | 1 | 1 | 2 | 4 | 3 | 3 | 6 | 6 | 3 | 18 | 7 | 1 | 0 | 8 |
| | 1500 | 3 | 1 | 4 | 2 | 2 | 1 | 2 | 7 | 7 | 18 | 4 | 0 | 0 | 5 |
| | 1800 | 2 | 0 | 5 | 2 | 2 | 0 | 2 | 4 | 12 | 13 | 4 | 0 | 0 | 4 |
| | 2100 | 1 | 1 | 4 | 2 | 2 | 1 | 2 | 3 | 13 | 12 | 4 | 0 | 0 | 4 |
| | TOTAL | 10 | 6 | 26 | 23 | 19 | 11 | 30 | 39 | 68 | 123 | 36 | 5 | 0 | 6 |
| بغداد BAGHDAD | 0000 | 1 | 1 | 1 | 9 | 1 | 0 | 1 | 7 | 8 | 17 | 1 | 3 | 0 | 6 |
| | 0300 | 0 | 1 | 3 | 7 | 1 | 0 | 3 | 3 | 11 | 13 | 4 | 0 | 1 | 6 |
| | 0600 | 1 | 1 | 1 | 8 | 6 | 0 | 0 | 9 | 3 | 21 | 4 | 0 | 1 | 8 |
| | 0900 | 2 | 2 | 1 | 7 | 5 | 0 | 3 | 8 | 1 | 15 | 11 | 2 | 0 | 12 |
| | 1200 | 2 | 1 | 1 | 4 | 5 | 1 | 4 | 6 | 0 | 15 | 12 | 2 | 0 | 12 |
| | 1500 | 1 | 0 | 2 | 5 | 1 | 3 | 3 | 9 | 5 | 20 | 4 | 0 | 0 | 6 |
| | 1800 | 2 | 2 | 2 | 7 | 1 | 0 | 3 | 8 | 4 | 20 | 5 | 0 | 0 | 7 |
| | 2100 | 3 | 1 | 1 | 8 | 2 | 1 | 0 | 8 | 5 | 20 | 3 | 1 | 0 | 7 |
| | TOTAL | 12 | 9 | 12 | 55 | 22 | 8 | 17 | 60 | 37 | 141 | 44 | 2 | 2 | 8 |
| حسي HI | 0300 | 1 | 1 | 9 | 1 | 1 | 3 | 10 | 1 | 2 | 19 | 7 | 1 | 0 | 9 |
| | 0600 | 0 | 5 | 9 | 0 | 0 | 4 | 5 | 2 | 4 | 16 | 7 | 2 | 0 | 8 |
| | 0900 | 4 | 3 | 8 | 0 | 1 | 1 | 10 | 1 | 1 | 17 | 10 | 1 | 0 | 9 |
| | 1200 | 5 | 1 | 6 | 1 | 2 | 2 | 10 | 1 | 1 | 14 | 12 | 2 | 0 | 10 |
| | 1500 | 0 | 2 | 7 | 1 | 1 | 2 | 9 | 2 | 5 | 16 | 8 | 0 | 0 | 7 |
| | 1800 | 2 | 1 | 6 | 0 | 1 | 7 | 9 | 2 | 1 | 22 | 5 | 1 | 0 | 8 |
| | TOTAL | 12 | 13 | 45 | 3 | 6 | 19 | 53 | 9 | 14 | 104 | 49 | 7 | 0 | 9 |
| نجف NAJAF | 0000 | 5 | 2 | 0 | 4 | 5 | 0 | 1 | 3 | 9 | 16 | 3 | 1 | 0 | 5 |
| | 0300 | 7 | 2 | 0 | 0 | 7 | 0 | 2 | 5 | 6 | 19 | 4 | 0 | 0 | 6 |
| | 0600 | 8 | 0 | 0 | 1 | 10 | 1 | 2 | 7 | 0 | 25 | 4 | 0 | 0 | 7 |
| | 0900 | 13 | 2 | 0 | 4 | 6 | 1 | 0 | 2 | 1 | 17 | 11 | 0 | 0 | 8 |
| | 1200 | 8 | 5 | 1 | 4 | 3 | 1 | 0 | 4 | 3 | 15 | 10 | 1 | 0 | 9 |
| | 1500 | 9 | 4 | 2 | 6 | 3 | 0 | 0 | 5 | 0 | 25 | 3 | 1 | 0 | 7 |
| | 1800 | 7 | 2 | 2 | 2 | 6 | 0 | 1 | 6 | 3 | 22 | 4 | 0 | 0 | 6 |
| | 2100 | 4 | 0 | 4 | 1 | 6 | 0 | 2 | 6 | 6 | 19 | 3 | 1 | 0 | 6 |
| | TOTAL | 61 | 17 | 9 | 22 | 46 | 3 | 8 | 38 | 28 | 158 | 42 | 4 | 0 | 7 |

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TABLE 13-c. عدد تكرار رصدات الرياح السطحيـــة

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت غرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 8 | 1 | 8 | 2 | 3 | 0 | 5 | 0 | 2 | 18 | 8 | 1 | 0 | 7 |
| | 0300 | 4 | 1 | 9 | 3 | 0 | 0 | 7 | 1 | 4 | 19 | 5 | 1 | 0 | 7 |
| | 0600 | 5 | 1 | 3 | 4 | 2 | 0 | 9 | 1 | 4 | 14 | 11 | 0 | 0 | 8 |
| | 0900 | 10 | 0 | 3 | 3 | 6 | 0 | 7 | 0 | 0 | 12 | 17 | 0 | 0 | 10 |
| | 1200 | 10 | 0 | 1 | 3 | 5 | 1 | 7 | 1 | 1 | 16 | 12 | 0 | 0 | 9 |
| | 1500 | 8 | 1 | 2 | 3 | 6 | 0 | 7 | 0 | 2 | 23 | 3 | 1 | 0 | 6 |
| | 1800 | 5 | 1 | 3 | 4 | 1 | 0 | 6 | 1 | 8 | 17 | 4 | 0 | 0 | 6 |
| | 2100 | 3 | 2 | 12 | 0 | 0 | 0 | 6 | 0 | 6 | 18 | 5 | 0 | 0 | 5 |
| | TOTAL | 53 | 7 | 41 | 22 | 23 | 1 | 54 | 4 | 27 | 127 | 65 | 3 | 0 | 7 |
| ناصرية NASIRIYA | 0000 | 3 | 0 | 4 | 4 | 2 | 0 | 8 | 5 | 3 | 22 | 4 | 0 | 0 | 6 |
| | 0300 | 3 | 0 | 4 | 3 | 3 | 1 | 5 | 5 | 5 | 21 | 3 | 0 | 0 | 6 |
| | 0600 | 3 | 0 | 3 | 6 | 3 | 0 | 9 | 3 | 2 | 20 | 7 | 0 | 0 | 7 |
| | 0900 | 3 | 1 | 0 | 9 | 1 | 3 | 5 | 5 | 2 | 16 | 11 | 0 | 0 | 9 |
| | 1200 | 1 | 2 | 3 | 4 | 2 | 0 | 4 | 10 | 3 | 18 | 8 | 0 | 0 | 7 |
| | 1500 | 5 | 2 | 6 | 2 | 2 | 0 | 3 | 6 | 3 | 23 | 3 | 0 | 0 | 6 |
| | 1800 | 5 | 0 | 5 | 4 | 0 | 1 | 5 | 4 | 5 | 20 | 4 | 0 | 0 | 6 |
| | 2100 | 3 | 0 | 3 | 6 | 1 | 0 | 4 | 7 | 5 | 21 | 3 | 0 | 0 | 5 |
| | TOTAL | 26 | 5 | 28 | 38 | 14 | 5 | 43 | 45 | 28 | 161 | 43 | 0 | 0 | 7 |
| بصرة BASRAH | 0000 | 5 | 2 | 7 | 2 | 3 | 0 | 2 | 7 | 1 | 26 | 2 | 0 | 0 | 4 |
| | 0300 | 4 | 4 | 6 | 3 | 1 | 1 | 3 | 5 | 2 | 25 | 2 | 0 | 0 | 4 |
| | 0600 | 4 | 2 | 3 | 1 | 4 | 3 | 4 | 4 | 4 | 20 | 5 | 0 | 0 | 6 |
| | 0900 | 6 | 1 | 2 | 6 | 3 | 0 | 1 | 8 | 2 | 18 | 8 | 1 | 0 | 9 |
| | 1200 | 4 | 2 | 0 | 4 | 6 | 0 | 1 | 11 | 1 | 17 | 10 | 1 | 0 | 9 |
| | 1500 | 4 | 3 | 1 | 4 | 5 | 0 | 1 | 10 | 1 | 24 | 4 | 0 | 0 | 6 |
| | 1800 | 4 | 3 | 1 | 5 | 4 | 0 | 2 | 9 | 1 | 26 | 2 | 0 | 0 | 5 |
| | 2100 | 6 | 2 | 2 | 4 | 3 | 1 | 0 | 9 | 2 | 24 | 3 | 0 | 0 | 4 |
| | TOTAL | 37 | 19 | 22 | 29 | 29 | 5 | 14 | 63 | 14 | 180 | 36 | 2 | 0 | 6 |

TABLE 14 . اعلى سرعة ريح حدثت خلال ساعة :

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND, SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 25 Knots | 190 | 1500 | 3rd |
| MOSUL | 25 | 090 | 0300 | 23rd. |
| KIRKUK | 30 | 180 | 1200 | 3rd |
| KHANAQIN | 35 | 180 | 1500 | 3rd |
| KUTBAH | 26 | 280 | 1200 | 10th |
| HABBANIYA | 33 | 130 | 0600 | 3rd |
| BAGHDAD | 45 | 140 | 0600 | 3rd |
| HAI | 28 | 090 | 0900 | 2nd |
| NAJAF | 26 | 140 | 1200 | 1st |
| DIWANIYA | 25 | 090 | 0000 | 3rd |
| NASIRIYA | 26 | 120 | 0300 | 3rd |
| BASRAH | 30 | 160 | 0900 | 3rd |

CLIMATOLOGICAL SUMMARY الملخصات المناخية

NUMBER OF DAYS FOR THE CASES OF PHENOMENA : عدد الايام التي حدثت فيها الظواهر الجوية

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 |
| MOSUL | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 10 |
| KIRKUK | 11 | 0 | 0 | 4 | 0 | 3 | 6 | 2 | 2 | 0 | 2 | 7 | 7 |
| KHANAQIN | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 4 | 7 |
| RUTBAH | 6 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 4 | 1 |
| HABBANIYA | 8 | 0 | 0 | 1 | 1 | 7 | 4 | 3 | 3 | 1 | 0 | 6 | 2 |
| BAGHDAD | 7 | 0 | 0 | 1 | 2 | 11 | 10 | 4 | 4 | 1 | 3 | 7 | 2 |
| HAI | 5 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 1 | 0 | 0 | 8 | 4 |
| NAJAF | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 11 | 2 |
| DIWANIYA | 6 | 0 | 0 | 3 | 0 | 1 | 2 | 1 | 0 | 2 | 0 | 15 | 3 |
| NASIRIYA | 7 | 0 | 0 | 3 | 0 | 5 | 0 | 9 | 10 | 0 | 0 | 13 | 4 |
| BASRAH | 6 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 3 | 0 | 0 | 11 | 2 |

TABLE - 17.

DURATION OF SUNSHINE مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 152.4 | 11.1 | 27th | 4 |
| HABBANIYA | 203.0 | 10.4 | 26th | 2 |
| BAGHDAD | 184.6 | 10.2 | 25th | 1 |
| BASRAH | 224.7 | 10.8 | 17&21st | 1 |

TABLE - 18. المعدل الشهري لحرارة العشب و التربة

MONTHLY MEAN TEMPERATURE OF :

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | .... | 4.8 | .... |
| KIRKUK | 2.6 | 10.1 | 11.8 |
| HABBANIYA | 4.7 | 13.6 | 15.1 |
| BAGHDAD | 1.9 | 12.7 | 17.2 |
| NAJAF | ... | 12.0 | 16.4 |
| NASIRIYA | 7.1 | 14.9 | 18.0 |
| BASRAH | 4.4 | ... | .... |

الجمهورية العراقيـــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــة

مديرية الارصاد الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر آذار ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR MARCH 1964

مجلد ٢٧ عدد ( ٣ ) آذار ١٩٦٤

VOLUME 27, No. ( 3 ), MARCH 1 9 6 4 .

# C O N T E N T S


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| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
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Geographical data & notes on tables see: JANUARY 1964 .

MARCH 1964 .
TABLE 1-a.

( 1 )

آذار ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 11.0 | 11.0 | 11.7 | 9.1 | 12.3 | 12.5 |
| 2 | 9.8 | 10.9 | 12.9 | 13.6 | 15.4 | 14.3 |
| 3 | 9.1 | 11.4 | 11.9 | 12.5 | 15.6 | 15.2 |
| 4 | 9.0 | 9.9 | 10.5 | 10.7 | 13.9 | 15.1 |
| 5 | 9.0 | 9.1 | 11.7 | 13.1 | 14.7 | 15.3 |
| 6 | 13.1 | 13.8 | 15.8 | 15.3 | 17.1 | 18.2 |
| 7 | 13.6 | 12.4 | 14.4 | 13.6 | 16.6 | 17.2 |
| 8 | 13.8 | 12.3 | 13.8 | 13.3 | 15.7 | 16.6 |
| 9 | 12.9 | 12.3 | 13.6 | 14.5 | 15.4 | 15.5 |
| 10 | 13.4 | 14.4 | 17.4 | 18.8 | 20.6 | 19.5 |
| 11 | 15.1 | 16.1 | 18.6 | 19.4 | 20.3 | 20.9 |
| 12 | 12.0 | 15.1 | 17.1 | 13.1 | 20.0 | 20.6 |
| 13 | 9.9 | 11.5 | 12.4 | 12.5 | 17.5 | 17.3 |
| 14 | 9.5 | 11.3 | 13.1 | 11.6 | 16.4 | 17.2 |
| 15 | 9.8 | 10.8 | 13.8 | 13.0 | 19.1 | 20.2 |
| 16 | 14.3 | 15.4 | 16.5 | 12.5 | 18.1 | 19.0 |
| 17 | 16.7 | 16.1 | 17.4 | 14.7 | 17.6 | 18.5 |
| 18 | 17.6 | 17.5 | 19.6 | 16.3 | 21.0 | 21.3 |
| 19 | 12.1 | 14.7 | 16.5 | 12.8 | 17.6 | 19.6 |
| 20 | 11.6 | 12.3 | 13.1 | 12.8 | 17.4 | 18.8 |
| 21 | 11.4 | 13.3 | 14.4 | 13.2 | 16.9 | 18.0 |
| 22 | 14.9 | 14.7 | 15.3 | 14.8 | 17.7 | 17.6 |
| 23 | 16.6 | 15.9 | 17.1 | 17.6 | 19.1 | 19.1 |
| 24 | 17.4 | 16.8 | 18.1 | 17.7 | 18.5 | 19.8 |
| 25 | 16.8 | 18.8 | 21.3 | 18.0 | 21.9 | 24.0 |
| 26 | 12.9 | 16.0 | 19.0 | 15.3 | 21.3 | 21.4 |
| 27 | 12.1 | 14.6 | 14.7 | 13.1 | 16.3 | 17.2 |
| 28 | 15.5 | 15.1 | 15.7 | 14.3 | 17.0 | 17.4 |
| 29 | 16.0 | 15.7 | 17.6 | 16.2 | 18.5 | 19.0 |
| 30 | 15.5 | 16.2 | 19.2 | 20.5 | 20.6 | 20.8 |
| 31 | 17.9 | 19.6 | 20.6 | 19.4 | 20.4 | 23.9 |
| MEANS | 12.9 | 14.0 | 15.6 | 14.6 | 17.9 | 18.4 |
| departure from normal | .... | +2.0 | +2.3 | +2.1 | +2.3 | +2.3 |

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

T I E E : G.M.T.

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

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TABLE 1-b.

المعدل الشهري لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|
| DATE | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 14.5 | 13.1 | 12.9 | 14.1 | 15.7 |
| 2 | 15.4 | 15.2 | 14.9 | 15.3 | 15.9 |
| 3 | 16.6 | 16.6 | 16.6 | 16.8 | 17.9 |
| 4 | 17.1 | 15.3 | 15.5 | 16.6 | 17.9 |
| 5 | 16.9 | 16.0 | 16.5 | 16.8 | 16.5 |
| 6 | 20.7 | 18.8 | 19.8 | 21.0 | 18.9 |
| 7 | 20.2 | 18.3 | 18.8 | 20.3 | 21.8 |
| 8 | 18.9 | 17.3 | 19.8 | 18.3 | 19.6 |
| 9 | 18.0 | 18.1 | 17.4 | 17.7 | 18.5 |
| 10 | 20.6 | 21.4 | 19.8 | 19.7 | 20.4 |
| 11 | 21.5 | 20.3 | 20.6 | 22.3 | 22.9 |
| 12 | 21.0 | 19.4 | 21.3 | 21.9 | 22.6 |
| 13 | 19.1 | 21.5 | 18.6 | 19.2 | 18.9 |
| 14 | 19.5 | 18.3 | 18.4 | 19.9 | 20.3 |
| 15 | 21.3 | 20.6 | 20.4 | 20.9 | 22.4 |
| 16 | 21.1 | 19.6 | 19.8 | 20.7 | 20.8 |
| 17 | 21.4 | 19.4 | 19.1 | 19.7 | 20.6 |
| 18 | 22.0 | 20.7 | 21.3 | 20.9 | 21.4 |
| 19 | 21.2 | 20.4 | 21.9 | 21.9 | 21.6 |
| 20 | 22.1 | 21.1 | 21.4 | 22.6 | 22.6 |
| 21 | 21.7 | 18.7 | 18.9 | 20.8 | 22.6 |
| 22 | 20.3 | 21.9 | 19.0 | 19.2 | 20.1 |
| 23 | 21.2 | 24.1 | 20.1 | 20.3 | 21.6 |
| 24 | 22.0 | 20.2 | 20.8 | 21.4 | 22.7 |
| 25 | 25.0 | 23.8 | 24.2 | 25.8 | 25.8 |
| 26 | 24.1 | 22.6 | 21.9 | 23.8 | 26.7 |
| 27 | 22.0 | 19.8 | 20.1 | 21.5 | 22.7 |
| 28 | 19.2 | 18.9 | 18.6 | 18.9 | 20.1 |
| 29 | 21.7 | 19.7 | 19.9 | 20.6 | 20.6 |
| 30 | 22.4 | 21.8 | 22.2 | 21.8 | 21.6 |
| 31 | 24.8 | 23.4 | 24.6 | 23.9 | 22.6 |
| MEANS | 20.4 | 19.6 | 19.8 | 20.1 | 20.8 |
| departure from normal | +3.4 | .... | +3.3 | +3.2 | +2.6 |

NOTE: AT HAI, OBSERVATION 2100 IS MISSED.

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TABLE 2-a.

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

| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
|---|---|---|---|---|---|---|
| 1 | 1014.8 | 1015.2 | 1014.9 | 1015.7 | 1015.7 | 1015.6 |
| 2 | 13.9 | 14.1 | 14.5 | 13.1 | 13.8 | 15.3 |
| 3 | 11.8 | 12.0 | 12.9 | 13.1 | 12.9 | 13.5 |
| 4 | 18.1 | 17.7 | 17.8 | 17.3 | 17.2 | 17.0 |
| 5 | 18.6 | 18.2 | 17.2 | 15.5 | 15.9 | 16.6 |
| 6 | 09.9 | 09.3 | 09.5 | 09.5 | 08.7 | 09.2 |
| 7 | 15.5 | 15.9 | 15.9 | 15.5 | 15.6 | 15.5 |
| 8 | 19.0 | 19.8 | 19.9 | 19.0 | 16.5 | 17.5 |
| 9 | 17.9 | 17.4 | 17.8 | 16.3 | 16.8 | 16.5 |
| 10 | 08.1 | 08.5 | 08.3 | 08.5 | 08.3 | 08.2 |
| 11 | 06.3 | 06.1 | 06.3 | 06.6 | 06.1 | 05.8 |
| 12 | 98.5 | 01.3 | 02.4 | 02.1 | 02.5 | 03.4 |
| 13 | 10.7 | 11.5 | 12.2 | 11.7 | 11.6 | 11.4 |
| 14 | 19.5 | 19.3 | 17.8 | 17.4 | 17.4 | 17.5 |
| 15 | 18.5 | 18.7 | 17.8 | 16.2 | 15.7 | 14.2 |
| 16 | 15.6 | 15.0 | 16.0 | 17.3 | 14.1 | 13.2 |
| 17 | 16.5 | 16.1 | 15.8 | 16.1 | 15.7 | 15.4 |
| 18 | 11.4 | 11.9 | 12.0 | 07.1 | 09.3 | 10.1 |
| 19 | 06.5 | 07.6 | 07.9 | 08.0 | 07.6 | 08.5 |
| 20 | 11.1 | 12.9 | 12.7 | 12.0 | 11.7 | 11.5 |
| 21 | 15.1 | 15.0 | 16.1 | 14.6 | 13.5 | 13.4 |
| 22 | 18.2 | 18.2 | 17.4 | 18.1 | 17.1 | 16.9 |
| 23 | 17.2 | 17.4 | 16.9 | 14.9 | 16.1 | 16.5 |
| 24 | 12.3 | 12.8 | 12.8 | 08.1 | 10.9 | 11.6 |
| 25 | 08.1 | 08.7 | 06.6 | 05.8 | 06.6 | 07.2 |
| 26 | 08.8 | 09.1 | 09.1 | 09.9 | 09.0 | 09.5 |
| 27 | 15.8 | 15.5 | 15.7 | 16.7 | 15.7 | 15.6 |
| 28 | 16.1 | 17.8 | 17.2 | 18.3 | 16.9 | 16.5 |
| 29 | 15.9 | 15.3 | 14.9 | 15.6 | 14.6 | 14.4 |
| 30 | 14.1 | 13.8 | 13.0 | 11.3 | 12.2 | 12.5 |
| 31 | 13.5 | 12.1 | 11.8 | 12.1 | 10.6 | 11.0 |
| MEANS | 1013.5 | 1013.7 | 1013.5 | 1012.7 | 1012.7 | 1013.0 |
| departure from normal | .... | -1.5 | -1.1 | -2.8 | -1.6 | -1.7 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR |
|---|---|---|---|---|---|---|---|---|
| SINJAR | 1020.8 | 5th | 0600 | 1964 | 995.4 | 12th | 0300 | 1964 |
| MOSUL | 1022.1 | 5th | 0600 | 1964 | 996.1 | 12th | 0300 | 1964 |
| KIRKUK | 1020.7 | 15th | 0600 | 1964 | 997.4 | 12th | 0300 | 1964 |
| RUTBAH | 1020.6 | 8th | 0600 | 1964 | 995.8 | 11th | 2100 | 1964 |
| HABBANIYA | 1020.0 | 8th | 0600 | 1964 | 995.4 | 12th | 0000 | 1964 |
| BAGHDAD | 1019.7 | 5th | 0600 | 1964 | 996.9 | 12th | 0000 | 1964 |
| SINJAR | 1028.3 | 3rd | 0600 | 1962 | 995.4 | 12 th | 0300 | 1964 |
| MOSUL | 1032.6 | 3rd | 0600 | 1961 | 996.1 | 12th | 0300 | 1964 |
| KIRKUK | 1030.6 | 3rd | 0600 | 1961 | 997.4 | 12th | 0300 | 1964 |
| RUTBAH | 1032.2 | 3rd | 0600 | 1961 | 995.8 | 11th | 2100 | 1964 |
| BAGHDAD | 1031.4 | 3rd | 0600 | 1961 | 996.1 | 22nd | 1200 | 1941 |

BLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر ( ملليبارات )

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

| الايام | حي | نجف | ديوانية | ناصرية | بصره |
|---|---|---|---|---|---|
| ATE | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 10[illegible].5 | 1015.7 | 1015.6 | 1014.6 | 1014.3 |
| 2 | 17.0 | 15.2 | 16.1 | 17.0 | 17.9 |
| 3 | 13.3 | 13.6 | 13.7 | 13.5 | 14.8 |
| 4 | 15.5 | 16.8 | 16.6 | 15.9 | 16.5 |
| 5 | 16.1 | 15.8 | 16.2 | 16.0 | 16.3 |
| 6 | 08.4 | 08.9 | 09.1 | 09.0 | 10.8 |
| 7 | 13.5 | 14.7 | 14.7 | 13.4 | 13.4 |
| 8 | 16.3 | 18.6 | 18.2 | 16.9 | 16.4 |
| 9 | 15.4 | 16.2 | 16.5 | 15.8 | 15.6 |
| 10 | 10.1 | 08.1 | 09.0 | 10.4 | 11.2 |
| 11 | 07.3 | 04.3 | 05.3 | 05.8 | 08.9 |
| 12 | 05.1 | 04.6 | 05.2 | 05.9 | 07.3 |
| 13 | 13.4 | 13.0 | 13.6 | 13.9 | 14.7 |
| 14 | 17.7 | 17.1 | 17.5 | 17.3 | 18.2 |
| 15 | 13.5 | 11.8 | 12.6 | 12.4 | 13.9 |
| 16 | 11.8 | 13.2 | 13.1 | 11.2 | 12.0 |
| 17 | 14.5 | 15.5 | 15.7 | 15.0 | 15.1 |
| 18 | 10.8 | 09.6 | 10.0 | 11.0 | 13.3 |
| 19 | 09.5 | 09.0 | 09.8 | 09.7 | 11.0 |
| 20 | 11.6 | 11.2 | 11.6 | 11.0 | 11.6 |
| 21 | 11.7 | 13.2 | 13.2 | 12.2 | 11.6 |
| 22 | 15.7 | 17.3 | 16.8 | 16.0 | 15.9 |
| 23 | 15.3 | 16.5 | 16.4 | 15.6 | 15.9 |
| 24 | 11.4 | 10.9 | 11.1 | 10.1 | 12.2 |
| 25 | 07.9 | 06.6 | 07.3 | 07.4 | 09.9 |
| 26 | 09.1 | 09.7 | 10.0 | 09.3 | 10.2 |
| 27 | 14.1 | 15.5 | 15.6 | 14.4 | 14.8 |
| 28 | 15.1 | 16.5 | 16.6 | 15.5 | 15.4 |
| 29 | 12.6 | 14.9 | 14.8 | 13.4 | 13.4 |
| 30 | 11.6 | 12.4 | 12.5 | 12.2 | 13.1 |
| 31 | 10.3 | 10.6 | 10.7 | 10.7 | 12.0 |
| EANS | 1012.6 | 1012.8 | 1013.1 | 1012.7 | 1013.5 |
| Departure from Normal | -2.1 | .... | -0.9 | -1.4 | -0.6 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| HAI | 1019.8 | 14th | 0900 | 1964 | 999.8 | 12th | 0300 | 1964 | 1964 |
| NAJAF | 1019.8 | 8th | 0600 | 1964 | 995.8 | 1200 | 0000 | 1964 | |
| DIWANIYA | 1019.7 | 5th | 0600 | 1964 | 997.8 | 12th | 0000 | 1964 | |
| NASIRIYA | 1019.7 | 2nd | 0600 | 1964 | 999.7 | 12th | 0000 | 1964 | |
| BASRAH | 1019.7 | 2nd | 0600 | 1964 | 1003.0 | 12th | 0000 | 1964 | |
| HAI | 1028.0 | 3rd | 0600 | 1961 | 999.2 | 27th | 1500 | 1962 | RECORD |
| NAJAF | 1023.0 | 8th | 0900 | 1963 | 995.8 | 12th | 0000 | 1964 | |
| DIWANIYA | 1030.1 | 3rd | 0900 | 1961 | 995.8 | 22nd | 1300 | 1941 | |
| NASIRIYA | 1029.1 | 9th | 0600 | 1959 | 998.8 | 27th | 1200 | 1962 | |
| BASRAH | 1028.4 | 9th | 0600 | 1959 | 995.9 | 22nd | 1300 | 1941 | |

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TABLE - 3.

المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( ٪ ) OF 8 OBSERVATIONS

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

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 99 | 0300 | 21st | 35 | 0900 | 17th |
| MOSUL | 97 | 0300 | 21st | 32 | 1200 | 31st |
| KIRKUK | 98 | 0000 | 4th | 23 | 2100 | 10th |
| RUTBAH | 93 | 0000 | 1st | 3 | 1200 | 25th |
| HABBANIYA | 100 | 2100 | 15th | 19 | 12 | 26th |
| BAGHDAD | 98 | 0300 | 1st | 16 | 1200 | 31st |
| HAI | 96 | 0300 | 1st | 22 | 1200 | 15th |
| NAJAF | 96 | 0300 | 1st | 13 | 1200 | 30ty |
| DIWANIYA | 97 | 0600 | 1st | 16 | 1200 | 16th |
| NASIRIYA | 92 | 0300 | 1st | 18 | 0900 | 26th |
| BASRAH | 95 | 2100 | 17th | 21 | 1500 | 20ty |

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

DAILY MAXIMUM AND MINIMUM TEMPERATURES. ( C°)

| الايام | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 14.6 | 4.3 | 17.4 | 4.0 | 16.5 | 7.0 | 16.7 | 7.8 | 14.5 | 3.8 |
| 2 | 12.4 | 6.0 | 16.4 | 3.4 | 17.6 | 7.1 | 19.4 | 7.2 | 22.3 | 5.9 |
| 3 | 12.5 | 5.2 | 16.0 | 8.4 | 15.2 | 9.4 | 19.4 | 10.6 | 19.5 | 6.3 |
| 4 | 11.6 | 4.8 | 14.2 | 6.3 | 15.0 | 7.1 | 18.9 | 10.0 | 16.7 | 5.0 |
| 5 | 12.6 | 4.3 | 15.8 | 1.4 | 18.2 | 5.0 | 21.7 | 5.0 | 21.0 | 4.3 |
| 6 | 17.0 | 6.8 | 20.0 | 6.7 | 20.9 | 9.9 | 25.6 | 7.2 | 21.5 | 8.4 |
| 7 | 16.1 | 7.3 | 19.8 | 5.4 | 19.9 | 9.6 | 21.7 | 10.6 | 19.4 | 9.3 |
| 8 | 16.8 | 8.0 | 19.6 | 5.7 | 19.7 | 7.8 | 21.7 | 6.1 | 21.5 | 6.7 |
| 9 | 15.6 | 8.3 | 20.2 | 4.7 | 18.6 | 7.8 | 21.1 | 7.2 | 22.6 | 6.8 |
| 10 | 15.5 | 9.3 | 17.7 | 9.4 | 21.4 | 9.2 | 26.1 | 7.2 | 25.8 | 10.6 |
| 11 | 17.4 | 10.2 | 20.8 | 11.2 | 21.4 | 14.6 | 23.9 | 17.8 | 25.5 | 15.0 |
| 12 | 15.5 | 12.0 | 19.0 | 15.4 | 20.0 | 17.1 | 23.0 | 17.2 | 16.5 | 10.2 |
| 13 | 13.0 | 7.1 | 15.6 | 9.4 | 16.6 | 11.0 | 20.3 | 13.9 | 19.0 | 7.9 |
| 14 | 13.5 | 5.0 | 16.5 | 6.2 | 18.3 | 8.1 | 21.7 | 10.6 | 19.5 | 4.1 |
| 15 | 12.0 | 7.0 | 14.4 | 6.2 | 18.0 | 9.2 | 24.4 | 10.6 | 18.4 | 9.4 |
| 16 | 17.5 | 9.0 | 21.6 | 8.4 | 23.8 | 11.1 | 26.7 | 16.4 | 18.0 | 7.9 |
| 17 | 20.6 | 10.3 | 23.2 | 8.8 | 24.4 | 10.0 | 27.8 | 9.4 | 21.5 | 5.0 |
| 18 | 21.2 | 12.8 | 24.2 | 10.6 | 25.4 | 13.4 | 28.3 | 13.3 | 25.5 | 12.0 |
| 19 | 13.6 | 11.0 | 19.2 | 12.6 | 19.1 | 13.7 | 22.5 | 15.0 | 17.7 | 7.7 |
| 20 | 13.5 | 9.2 | 16.5 | 9.8 | 17.5 | 11.3 | 25.0 | 16.1 | 19.5 | 7.7 |
| 21 | 14.3 | 7.6 | 17.4 | 9.8 | 20.0 | 9.7 | 23.3 | 10.6 | 20.0 | 7.9 |
| 22 | 19.0 | 8.2 | 20.5 | 8.8 | 21.7 | 8.4 | 24.4 | 8.9 | 21.8 | 7.0 |
| 23 | 19.8 | 13.0 | 23.4 | 8.2 | 23.4 | 10.0 | 25.6 | 9.4 | 25.8 | 8.9 |
| 24 | 22.2 | 14.1 | 24.0 | 9.0 | 24.6 | 12.6 | 29.0 | 8.9 | 23.5 | 13.2 |
| 25 | 19.4 | 10.6 | 24.0 | 13.8 | 26.1 | 13.6 | 30.3 | 16.1 | 28.5 | 7.9 |
| 26 | 19.1 | 11.3 | 21.5 | 14.6 | 21.5 | 18.0 | 30.0 | 20.6 | 20.0 | 10.4 |
| 27 | 16.4 | 9.2 | 20.0 | 9.5 | 20.0 | 11.7 | 24.7 | 13.3 | 18.9 | 8.9 |
| 28 | 19.3 | 8.8 | 21.6 | 8.4 | 22.0 | 8.9 | 22.8 | 8.9 | 22.0 | 8.0 |
| 29 | 21.1 | 10.3 | 22.4 | 7.8 | 24.4 | 10.0 | 26.7 | 8.3 | 25.2 | 5.1 |
| 30 | 22.3 | 10.2 | 24.7 | 9.2 | 25.6 | 12.4 | 27.5 | 10.0 | 28.7 | 11.3 |
| 31 | 24.1 | 9.3 | 26.2 | 10.6 | 27.5 | 11.9 | 28.9 | 10.0 | 26.6 | 12.4 |
| MEANS | 16.8 | 8.7 | 19.6 | 8.5 | 20.8 | 10.5 | 24.2 | 11.1 | 21.4 | 8.2 |
| Departure from Normal | ... | ... | +0.5 | +2.8 | +2.1 | +2.7 | +3.4 | +2.8 | +4.2 | +2.8 |

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

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | حي | |
|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | HAI | |
| | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 16.7 | 8.8 | 17.5 | 8.5 | 18.2 | 10.0 |
| 2 | 22.2 | 8.1 | 20.8 | 6.7 | 22.0 | 7.2 |
| 3 | 21.6 | 8.9 | 20.8 | 8.2 | 22.0 | 10.0 |
| 4 | 20.0 | 9.5 | 20.2 | 10.2 | 24.2 | 8.4 |
| 5 | 22.4 | 6.4 | 20.4 | 9.5 | 23.3 | 8.2 |
| 6 | 24.7 | 9.6 | 25.0 | 11.8 | 26.6 | 8.6 |
| 7 | 22.8 | 12.2 | 23.4 | 11.7 | 26.0 | 13.5 |
| 8 | 23.4 | 9.2 | 23.6 | 8.8 | 26.0 | 10.6 |
| 9 | 23.7 | 9.2 | 22.3 | 7.5 | 23.6 | 10.2 |
| 10 | 29.0 | 11.5 | 26.9 | 9.6 | 27.3 | 9.6 |
| 11 | 25.8 | 17.2 | 26.4 | 16.4 | 25.8 | 15.6 |
| 12 | 23.4 | 16.4 | 23.1 | 18.2 | 22.7 | 18.1 |
| 13 | 23.4 | 12.9 | 21.8 | 12.8 | 23.6 | 15.4 |
| 14 | 23.8 | 10.0 | 23.1 | 9.6 | 26.8 | 10.0 |
| 15 | 25.6 | 12.5 | 26.1 | 14.3 | 28.2 | 10.6 |
| 16 | 24.5 | 12.4 | 26.0 | 14.3 | 25.8 | 16.8 |
| 17 | 25.4 | 10.7 | 26.1 | 10.7 | 28.6 | 12.7 |
| 18 | 29.5 | 12.8 | 28.4 | 13.0 | 28.6 | 13.0 |
| 19 | 24.5 | 14.0 | 23.8 | 16.0 | 25.6 | 16.2 |
| 20 | 25.4 | 12.9 | 26.5 | 12.0 | 28.8 | 14.0 |
| 21 | 25.5 | 11.0 | 24.1 | 10.7 | 26.6 | 14.6 |
| 22 | 24.5 | 10.9 | 25.0 | 11.1 | 25.8 | 12.3 |
| 23 | 27.1 | 10.3 | 26.2 | 9.7 | 27.9 | 11.6 |
| 24 | 25.0 | 12.8 | 26.0 | 12.3 | 27.8 | 12.0 |
| 25 | 30.6 | 13.9 | 30.2 | 16.0 | 30.4 | 17.2 |
| 26 | 28.1 | 16.7 | 26.9 | 18.5 | 31.2 | 17.6 |
| 27 | 22.8 | 12.1 | 24.4 | 13.5 | 28.8 | 14.3 |
| 28 | 23.4 | 09.9 | [illegible] | [illegible] | 24.8 | 10.0 |
| 29 | 26.1 | 10.5 | 26.9 | 11.2 | 28.3 | 12.8 |
| 30 | 30.2 | 11.8 | 28.7 | 11.5 | 29.5 | 12.2 |
| 31 | 31.4 | 14.4 | 31.2 | 15.0 | 31.2 | 16.0 |
| MEANS | 24.9 | 11.2 | 21.2 | 11.9 | 26.3 | 12.6 |
| departure from normal | +5.7 | +2.0 | +2.7 | +2.7 | +2.8 | +1.2 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 36.1 | 24th | 1962 | -2.8 | 1st | 1938 |
| BAGHDAD | 34.2 | 24th | 1962 | -2.8 | 5th | 1952 |
| HAI | 35.0 | 24th | 1962 | 0.0 | 14th | 1959 |

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TABLE 4-e.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 16.2 | 10.4 | 17.6 | 10.4 | 18.6 | 10.4 | 20.1 | 11.6 |
| 2 | 22.1 | 8.2 | 22.6 | 5.5 | 23.2 | 6.7 | 22.2 | 8.8 |
| 3 | 20.6 | 10.5 | 22.5 | 11.8 | 23.4 | 10.1 | 25.8 | 12.4 |
| 4 | 20.2 | 10.4 | 22.3 | 9.7 | 23.7 | 10.3 | 25.2 | 12.0 |
| 5 | 22.0 | 8.0 | 22.8 | 8.9 | 23.7 | 8.6 | 25.4 | 22.6 |
| 6 | 27.0 | 11.0 | 27.0 | 13.6 | 28.8 | 14.8 | 29.6 | 12.2 |
| 7 | 23.4 | 13.6 | 25.5 | 12.5 | 28.5 | 12.7 | 28.9 | 14.2 |
| 8 | 23.0 | 9.8 | 25.0 | 9.7 | 25.0 | 10.8 | 25.4 | 13.7 |
| 9 | 23.6 | 12.4 | 24.5 | 10.5 | 24.8 | 11.3 | 24.8 | 11.8 |
| 10 | 29.2 | 12.3 | 28.3 | 9.6 | 28.1 | 10.6 | 29.1 | 10.0 |
| 11 | 26.4 | 13.0 | 26.2 | 14.7 | 27.0 | 16.2 | 27.7 | 17.5 |
| 12 | 23.0 | 14.0 | 25.0 | 19.2 | 25.0 | 20.4 | 25.7 | 21.2 |
| 13 | 22.4 | 13.6 | 24.0 | 14.8 | 25.0 | 13.9 | 25.5 | 14.1 |
| 14 | 24.3 | 12.8 | 26.5 | 10.5 | 29.0 | 10.5 | 29.6 | 12.4 |
| 15 | 26.2 | 12.8 | 27.5 | 13.0 | 27.7 | 14.8 | 31.4 | 14.2 |
| 16 | 23.4 | 14.6 | 25.5 | 15.7 | 27.6 | 16.6 | 27.6 | 17.3 |
| 17 | 24.4 | 12.8 | 26.2 | 11.7 | 27.0 | 12.2 | 26.3 | 15.8 |
| 18 | 28.0 | 12.9 | 29.0 | 14.8 | 27.1 | 13.2 | 28.6 | 13.6 |
| 19 | 24.4 | 16.5 | 26.2 | 15.8 | 27.8 | 18.2 | 28.0 | 16.9 |
| 20 | 28.3 | 14.0 | 28.8 | 13.6 | 29.8 | 15.0 | 30.4 | 13.7 |
| 21 | 24.2 | 12.8 | 25.7 | 12.8 | 27.6 | 16.2 | 28.5 | 17.5 |
| 22 | 24.6 | 13.6 | 25.9 | 12.5 | 26.5 | 12.8 | 26.4 | 13.7 |
| 23 | 27.6 | 13.6 | 28.2 | 11.5 | 28.6 | 12.8 | 27.5 | 14.8 |
| 24 | 25.8 | 14.0 | 28.1 | 12.6 | 28.4 | 12.6 | 32.4 | 12.2 |
| 25 | 31.2 | 15.6 | 32.5 | 16.0 | 34.7 | 19.6 | 34.1 | 19.4 |
| 26 | 27.6 | 17.0 | 28.0 | 15.5 | 32.4 | 18.4 | 34.5 | 21.8 |
| 27 | 25.8 | 15.0 | 28.0 | 13.8 | 28.9 | 15.5 | 29.1 | 16.6 |
| 28 | 24.0 | 12.0 | 25.7 | 10.8 | 25.9 | 11.5 | 24.6 | 16.4 |
| 29 | 26.4 | 12.9 | 28.0 | 12.2 | 28.0 | 12.9 | 27.4 | 13.6 |
| 30 | 30.2 | 13.4 | 30.8 | 13.8 | 30.2 | 13.2 | 28.2 | 14.6 |
| 31 | 32.0 | 13.4 | 32.4 | 16.1 | 32.0 | 16.0 | 28.2 | 17.8 |
| MEANS | 25.1 | 12.7 | 27.6 | 12.7 | 27.2 | 13.5 | 27.7 | 14.6 |
| departure from normal | **** | **** | +3.2 | +3.8 | +2.7 | +2.6 | +3.2 | +2.0 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 32.0 | 31st | 1964 | 2.2 | 20th | 1963 |
| DIWANIYA | 36.1 | 14th | 1944 | -3.2 | 1st | 1959 |
| NASIRIYA | 39.3 | 16th | 1959 | 0.0 | 4th | 1959 |
| BASRAH | 37.6 | 27th | 1962 | 1.9 | 9th | 1959 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C°)

| | T I M E - G . M . T . | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
| SINJAR | .... | 9.9 | 12.3 | 14.1 | 15.7 | 14.4 | 12.3 | .... | 13.1 |
| MOSUL | 10.6 | 9.4 | 13.2 | 17.8 | 18.9 | 17.2 | 13.9 | 12.0 | 14.0 |
| KIRKUK | 12.5 | 12.1 | 15.3 | 18.7 | 19.9 | 18.0 | 15.1 | 13.5 | 15.6 |
| KHANAQIN | .... | 12.8 | 17.8 | 22.5 | 23.6 | 21.1 | 17.3 | .... | 19.2 |
| RUTBAH | 10.4 | 8.8 | 12.7 | 18.4 | 20.7 | 18.8 | 14.8 | 12.3 | 14.6 |
| HABBANIYA | 14.1 | 11.1 | 16.6 | 22.0 | 23.8 | 21.6 | 17.3 | 15.7 | 17.8 |
| BAGHDAD | 14.4 | 13.1 | 17.5 | 22.0 | 23.9 | 22.7 | 18.4 | 16.4 | 18.5 |
| HAI | .... | 13.5 | 17.2 | 24.1 | 25.8 | 22.6 | 18.4 | .... | 20.3 |
| NAJAF | 15.3 | 13.3 | 17.4 | 22.6 | 24.8 | 23.2 | 20.0 | 17.6 | 19.3 |
| DIWANIYA | 14.5 | 13.2 | 18.6 | 23.9 | 25.9 | 23.3 | 19.3 | 16.7 | 19.4 |
| NASIRIYA | 15.6 | 14.1 | 18.9 | 24.6 | 26.4 | 24.0 | 19.9 | 17.5 | 20.1 |
| BASRAH | 16.7 | 15.3 | 20.5 | 25.8 | 26.5 | 23.5 | 19.8 | 18.2 | 20.8 |

TABLE 6 . المعدل الشهري لضغط البخار ( ملليبارات )

MONTHLY MEAN VAPOUR-PRESSURE ( MILLIBARS )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| MOSUL | 10.8 | 10.4 | 11.2 | 11.8 | 11.2 | 11.8 | 11.9 | 11.4 | 11.3 |
| SINJAR | .... | 8.0 | 8.3 | 8.4 | 9.0 | 8.9 | 8.7 | .... | 8.5 |
| KIRKUK | 10.1 | 9.7 | 10.8 | 10.0 | 9.1 | 9.6 | 10.3 | 10.4 | 10.0 |
| KHANAQIN | .... | 9.2 | 10.0 | 9.4 | 8.7 | 9.0 | 9.4 | .... | 9.3 |
| RUTBAH | 7.8 | 7.7 | 7.8 | 7.2 | 6.7 | 7.4 | 8.0 | 8.1 | 7.6 |
| HABBANIYA | 11.1 | 11.3 | 11.8 | 11.1 | 10.5 | 11.4 | 11.6 | 11.1 | 11.2 |
| BAGHDAD | 9.7 | 9.9 | 10.4 | 9.6 | 8.2 | 8.9 | 9.6 | 9.6 | 9.1 |
| HAI | .... | 10.9 | 12.9 | 12.6 | 11.8 | 12.8 | 12.3 | .... | 12.2 |
| NAJAF | 9.9 | 9.9 | 9.9 | 9.3 | 8.3 | 8.5 | 9.8 | 9.8 | 9.4 |
| DIWANIYA | 10.5 | 10.4 | 11.8 | 10.9 | 10.2 | 10.6 | 11.1 | 10.8 | 10.8 |
| NASIRIYA | 10.3 | 9.9 | 10.5 | 9.7 | 9.6 | 10.4 | 10.8 | 10.5 | 10.2 |
| BASRAH | 13.3 | 13.1 | 14.7 | 14.0 | 14.9 | 14.1 | 14.3 | 13.9 | 14.0 |

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

MONTHLY MEAN WET-BULB TEMPERATURES(C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 7.2 | 8.6 | 9.9 | 10.7 | 10.0 | 8.8 | .... | 9.2 |
| MOSUL | 9.3 | 8.4 | 10.3 | 13.2 | 13.5 | 13.0 | 11.6 | 10.4 | 11.3 |
| KIRKUK | 9.8 | 9.5 | 11.5 | 12.7 | 12.7 | 12.2 | 11.1 | 10.5 | 11.3 |
| KHANAQIN | .... | 9.4 | 12.2 | 14.1 | 14.2 | 13.2 | 11.7 | .... | 12.5 |
| RUTBAH | 7.3 | 6.4 | 8.6 | 11.0 | 11.8 | 11.2 | 9.7 | 8.5 | 9.3 |
| HABBANIYA | 11.1 | 10.3 | 12.7 | 14.5 | 15.2 | 14.7 | 13.0 | 12.0 | 12.9 |
| BAGHDAD | 10.6 | 10.3 | 12.2 | 14.0 | 14.0 | 13.3 | 12.4 | 11.4 | 12.3 |
| HAI | .... | 10.5 | 13.8 | 15.8 | 16.0 | 15.1 | 13.5 | .... | 14.1 |
| NAJAF | 11.1 | 10.2 | 12.1 | 14.0 | 14.5 | 13.9 | 13.2 | 12.2 | 12.7 |
| DIWANIYA | 10.9 | 10.3 | 13.7 | 15.4 | 15.9 | 14.9 | 13.4 | 12.1 | 13.3 |
| NASIRIYA | 11.5 | 10.5 | 13.1 | 15.2 | 15.9 | 15.3 | 13.8 | 12.5 | 13.5 |
| BASRAH | 13.7 | 12.9 | 16.0 | 17.8 | 18.5 | 16.9 | 15.5 | 14.6 | 15.7 |

TABLE 8 . المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT ( C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 3.3 | 4.0 | 4.6 | 5.1 | 4.9 | 4.6 | ... | 4.4 |
| MOSUL | 8.0 | 7.3 | 8.5 | 9.2 | 8.4 | 9.1 | 9.5 | 8.7 | 8.6 |
| KIRKUK | 6.8 | 6.5 | 7.8 | 6.6 | 5.1 | 6.0 | 7.1 | 6.9 | 6.6 |
| KHANAQIN | ... | 5.5 | 6.7 | 6.0 | 5.0 | 5.2 | 5.9 | ... | 5.7 |
| RUTBAH | 3.1 | 3.0 | 3.3 | 1.9 | 0.8 | 2.1 | 3.5 | 3.5 | 2.9 |
| HABBANIYA | 8.3 | 8.2 | 9.4 | 6.6 | 7.5 | 8.7 | 9.0 | 8.1 | 8.2 |
| BAGHDAD | 6.4 | 6.7 | 7.6 | 6.3 | 3.9 | 5.0 | 6.2 | 6.1 | 6.0 |
| HAI | ... | 8.1 | 10.5 | 10.1 | 9.2 | 9.8 | 9.8 | ... | 9.6 |
| NAJAF | 6.6 | 6.7 | 6.7 | 5.9 | 4.0 | 4.4 | 6.8 | 6.4 | 5.9 |
| DIWANIYA | 7.3 | 7.4 | 8.9 | 7.9 | 7.3 | 7.6 | 8.2 | 7.8 | 7.8 |
| NASIRIYA | 7.3 | 6.8 | 7.5 | 6.4 | 6.5 | 7.5 | 8.0 | 7.7 | 7.2 |
| BASRAH | 11.1 | 10.9 | 12.6 | 11.7 | 12.6 | 11.9 | 12.1 | 11.6 | 11.8 |

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TABLE -9. المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | TIME - G. M. T. 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 64 | 58 | 54 | 52 | 56 | 61 | ... | 57 |
| MOSUL | 84 | 87 | 74 | 59 | 52 | 60 | 75 | 81 | 72 |
| KIRKUK | 73 | 72 | 64 | 48 | 41 | 48 | 62 | 69 | 60 |
| KHANAQIN | ... | 64 | 51 | 36 | 31 | 36 | 48 | ... | 44 |
| RUTBAH | 63 | 67 | 55 | 36 | 29 | 35 | 49 | 57 | 49 |
| HABBANIYA | 71 | 80 | 63 | 42 | 37 | 46 | 60 | 64 | 58 |
| BAGHDAD | 61 | 67 | 55 | 38 | 29 | 34 | 47 | 52 | 48 |
| HAI | ... | 71 | 62 | 43 | 36 | 45 | 58 | ... | 52 |
| NAJAF | 58 | 65 | 51 | 36 | 28 | 31 | 43 | 50 | 45 |
| DIWANIYA | 65 | 68 | 56 | 37 | 31 | 37 | 51 | 63 | 51 |
| NASIRIYA | 59 | 62 | 49 | 33 | 29 | 36 | 47 | 53 | 46 |
| BASRAH | 70 | 76 | 61 | 43 | 43 | 49 | 63 | 67 | 59 |

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

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 13.7 | 14.0 | 13.9 | 12.0 | 13.0 | 17.0 | .... | 1013.9 |
| MOSUL | 13.8 | 14.1 | 14.8 | 13.8 | 12.5 | 12.5 | 13.7 | 14.0 | 1013.7 |
| KIRKUK | 13.4 | 13.6 | 14.5 | 13.8 | 12.3 | 12.5 | 13.9 | 13.9 | 1013.5 |
| KHANAQIN | .... | 14.0 | 15.0 | 13.0 | 11.0 | 11.5 | 13.4 | .... | 1013.0 |
| RUTBAH | 12.9 | 13.4 | 13.8 | 13.4 | 11.4 | 12.0 | 12.8 | 12.7 | 1012.8 |
| HABBANIYA | 12.2 | 14.2 | 14.3 | 13.4 | 11.6 | 11.6 | 12.6 | 12.4 | 1012.8 |
| BAGHDAD | 12.5 | 13.5 | 14.5 | 14.2 | 12.2 | 12.9 | 12.9 | 12.8 | 1013.2 |
| HAI | .... | 12.5 | 13.8 | 13.5 | 10.9 | 11.5 | 12.5 | .... | 1012.5 |
| NAJAF | 12.3 | 13.1 | 14.5 | 13.9 | 12.2 | 12.0 | 09.7 | 12.1 | 1012.5 |
| DIWANIYA | 12.5 | 13.3 | 14.7 | 14.1 | 12.1 | 11.9 | 12.9 | 12.9 | 1013.1 |
| NASIRIYA | 12.1 | 12.7 | 14.3 | 13.7 | 11.7 | 11.6 | 12.8 | 12.8 | 1012.7 |
| BASRAH | 12.9 | 13.5 | 14.8 | 14.1 | 12.6 | 12.6 | 13.6 | 13.7 | 1013.5 |

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

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 2.1 | 1.7 | 2.4 | 2.7 | 2.5 | 2.0 | ... | 2.2 |
| MOSUL | 3.8 | 3.5 | 2.8 | 4.2 | 3.9 | 3.6 | 2.9 | 3.0 | 3.5 |
| KIRKUK | 2.6 | 3.3 | 2.4 | 2.2 | 2.8 | 2.0 | 2.0 | 2.9 | 2.6 |
| KHANAQIN | ... | 3.0 | 2.7 | 3.4 | 3.7 | 4.6 | 2.9 | ... | 3.4 |
| RUTBAH | 1.0 | 0.8 | 1.1 | 2.1 | 2.8 | 2.3 | 0.4 | 0.7 | 1.4 |
| HABBANIYA | 0.4 | 0.8 | 0.4 | 1.5 | 1.8 | 1.3 | 0.8 | 0.4 | 0.9 |
| BAGHDAD | 0.5 | 0.7 | 0.4 | 0.8 | 1.7 | 1.4 | 0.9 | 0.8 | 0.9 |
| HAI | ... | 0.5 | 0.3 | 0.4 | 0.7 | 0.3 | 0.5 | ... | 0.5 |
| NAJAF | 0.8 | 0.5 | 0.7 | 0.7 | 1.0 | 1.1 | 0.7 | 0.6 | 0.8 |
| DIWANIYA | 0.5 | 1.0 | 0.7 | 0.7 | 1.2 | 1.1 | 0.5 | 0.7 | 0.8 |
| NASIRIYA | 0.6 | 0.5 | 0.9 | 1.0 | 0.5 | 0.5 | 0.4 | 0.6 | 0.6 |
| BASRAH | 0.7 | 0.7 | 0.9 | 0.8 | 0.5 | 0.7 | 0.9 | 0.7 | 0.7 |

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

MONTHLY MEAN TOTAL CLOUD AMOUNT ( OKTAS )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 3.8 | 4.5 | 4.9 | 5.3 | 5.1 | 3.2 | ... | 4.5 |
| MOSUL | 4.9 | 4.8 | 4.6 | 6.3 | 6.6 | 5.9 | 4.5 | 3.1 | 5.1 |
| KIRKUK | 3.5 | 4.3 | 4.3 | 4.1 | 5.2 | 4.9 | 3.4 | 3.6 | 4.2 |
| KHANAQIN | ... | 4.2 | 4.3 | 5.2 | 5.4 | 5.6 | 3.6 | ... | 4.7 |
| RUTBAH | 2.2 | 3.0 | 3.8 | 4.5 | 5.1 | 4.3 | 1.5 | 2.1 | 3.3 |
| HABBANIYA | 3.0 | 3.7 | 3.5 | 3.9 | 4.1 | 4.2 | 3.1 | 2.5 | 3.5 |
| BAGHDAD | 2.3 | 3.4 | 4.1 | 3.6 | 4.4 | 4.0 | 2.6 | 2.7 | 3.4 |
| HAI | ... | 2.7 | 3.5 | 3.4 | 3.2 | 3.6 | 2.3 | ... | 3.6 |
| NAJAF | 2.6 | 1.9 | 2.5 | 2.9 | 3.0 | 3.4 | 3.0 | 2.8 | 2.8 |
| DIWANIYA | 2.3 | 2.6 | 2.6 | 2.4 | 3.1 | 3.4 | 2.5 | 2.6 | 2.7 |
| NASIRIYA | 1.5 | 1.9 | 2.6 | 2.4 | 2.4 | 2.5 | 1.5 | 1.4 | 2.0 |
| BASRAH | 2.4 | 2.6 | 2.8 | 2.0 | 2.6 | 2.8 | 2.5 | 2.0 | 2.6 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحيه

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت گرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 8 | 0 | 4 | 0 | 0 | 0 | 7 | 4 | 8 | 17 | 6 | 0 | 0 | 6 |
| | 0600 | 1 | 0 | 6 | 0 | 3 | 1 | 7 | 2 | 11 | 16 | 4 | 0 | 0 | 5 |
| | 0900 | 1 | 0 | 9 | 0 | 3 | 0 | 14 | 1 | 3 | 18 | 10 | 0 | 0 | 8 |
| | 1200 | 2 | 0 | 4 | 4 | 6 | 0 | 11 | 0 | 4 | 16 | 11 | 0 | 0 | 9 |
| | 1500 | 3 | 0 | 6 | 1 | 4 | 0 | 8 | 2 | 7 | 13 | 10 | 1 | 0 | 8 |
| | 1800 | 4 | 0 | 5 | 0 | 1 | 1 | 14 | 1 | 5 | 20 | 6 | 0 | 0 | 7 |
| | TOTAL | 19 | 0 | 34 | 5 | 17 | 2 | 61 | 10 | 38 | 100 | 47 | 1 | 0 | 7 |
| موصل MOSUL | 0000 | 1 | 0 | 3 | 3 | 4 | 1 | 3 | 7 | 9 | 20 | 2 | 0 | 0 | 5 |
| | 0300 | 1 | 1 | 4 | 1 | 5 | 1 | 3 | 7 | 8 | 20 | 3 | 0 | 0 | 7 |
| | 0600 | 5 | 0 | 5 | 1 | 5 | 0 | 4 | 6 | 5 | 21 | 4 | 1 | 0 | 7 |
| | 0900 | 1 | 0 | 4 | 1 | 13 | 0 | 3 | 6 | 3 | 19 | 9 | 0 | 0 | 9 |
| | 1200 | 2 | 1 | 5 | 1 | 9 | 1 | 2 | 7 | 3 | 16 | 12 | 0 | 0 | 5 |
| | 1500 | 2 | 2 | 3 | 4 | 4 | 1 | 6 | 6 | 3 | 22 | 6 | 0 | 0 | 7 |
| | 1800 | 3 | 1 | 2 | 5 | 3 | 1 | 3 | 6 | 7 | 18 | 6 | 0 | 0 | 7 |
| | 2100 | 1 | 0 | 6 | 2 | 7 | 0 | 1 | 7 | 7 | 18 | 6 | 0 | 0 | 7 |
| | TOTAL | 16 | 5 | 32 | 18 | 50 | 5 | 25 | 52 | 45 | 154 | 48 | 1 | 0 | 7 |
| كركوك KIRKUK | 0000 | 2 | 2 | 2 | 5 | 2 | 0 | 0 | 0 | 18 | 6 | 3 | 3 | 1 | 6 |
| | 0300 | 0 | 3 | 7 | 5 | 0 | 0 | 0 | 0 | 16 | 10 | 4 | 1 | 0 | 5 |
| | 0600 | 1 | 2 | 1 | 10 | 2 | 0 | 0 | 0 | 15 | 12 | 3 | 0 | 1 | 5 |
| | 0900 | 1 | 2 | 0 | 4 | 8 | 1 | 7 | 1 | 7 | 17 | 7 | 0 | 0 | 6 |
| | 1200 | 0 | 1 | 0 | 2 | 9 | 3 | 9 | 1 | 6 | 17 | 6 | 2 | 0 | 7 |
| | 1500 | 1 | 1 | 2 | 2 | 3 | 3 | 8 | 1 | 10 | 15 | 4 | 2 | 0 | 6 |
| | 1800 | 0 | 2 | 5 | 1 | 1 | 1 | 0 | 0 | 21 | 4 | 5 | 1 | 0 | 4 |
| | 2100 | 1 | 4 | 3 | 5 | 2 | 1 | 0 | 0 | 15 | 9 | 3 | 3 | 1 | 7 |
| | TOTAL | 6 | 17 | 20 | 34 | 27 | 9 | 24 | 3 | 108 | 90 | 35 | 12 | 3 | 8 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 13 | 1 | 6 | 0 | 0 | 0 | 11 | 14 | 2 | 3 | 1 | 6 |
| | 0600 | 0 | 0 | 2 | 1 | 8 | 0 | 2 | 0 | 18 | 6 | 5 | 1 | 1 | 5 |
| | 0900 | 2 | 1 | 0 | 3 | 12 | 1 | 7 | 2 | 3 | 19 | 1 | 8 | 0 | 10 |
| | 1200 | 1 | 0 | 0 | 1 | 12 | 1 | 10 | 4 | 2 | 20 | 7 | 2 | 0 | 10 |
| | 1500 | 3 | 1 | 1 | 0 | 12 | 0 | 9 | 4 | 1 | 25 | 5 | 0 | 0 | 8 |
| | 1800 | 0 | 1 | 3 | 0 | 8 | 0 | 7 | 1 | 11 | 15 | 5 | 0 | 0 | 5 |
| | TOTAL | 6 | 3 | 19 | 6 | 58 | 2 | 35 | 11 | 46 | 99 | 25 | 14 | 2 | 7 |
| رطبة RUTBAH | 0000 | 1 | 0 | 1 | 1 | 4 | 4 | 6 | 4 | 10 | 15 | 4 | 2 | 0 | 6 |
| | 0300 | 4 | 1 | 1 | 1 | 6 | 7 | 5 | 3 | 3 | 24 | 3 | 1 | 0 | 7 |
| | 0600 | 3 | 0 | 2 | 2 | 3 | 7 | 9 | 3 | 2 | 17 | 11 | 1 | 0 | 9 |
| | 0900 | 3 | 0 | 3 | 4 | 5 | 4 | 8 | 3 | 1 | 15 | 14 | 1 | 0 | 11 |
| | 1200 | 3 | 0 | 2 | 4 | 4 | 4 | 10 | 1 | 3 | 11 | 11 | 5 | 1 | 13 |
| | 1500 | 5 | 0 | 3 | 2 | 3 | 1 | 10 | 3 | 4 | 14 | 11 | 2 | 0 | 10 |
| | 1800 | 4 | 0 | 3 | 2 | 1 | 1 | 5 | 5 | 10 | 12 | 9 | 0 | 0 | 7 |
| | 2100 | 0 | 1 | 2 | 2 | 4 | 0 | 7 | 4 | 11 | 13 | 7 | 0 | 0 | 6 |
| | TOTAL | 23 | 2 | 17 | 18 | 30 | 28 | 60 | 26 | 44 | 121 | 70 | 12 | 1 | 9 |

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TABLE 13-b.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF:

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 1 | 1 | 8 | 1 | 1 | 2 | 5 | 1 | 11 | 16 | 2 | 2 | 0 | 6 |
| | 0300 | 0 | 2 | 2 | 4 | 3 | 2 | 6 | 6 | 6 | 20 | 5 | 0 | 0 | 6 |
| | 0600 | 0 | 1 | 2 | 3 | 4 | 3 | 7 | 8 | 3 | 17 | 9 | 2 | 0 | 10 |
| | 0900 | 0 | 0 | 3 | 3 | 8 | 3 | 7 | 6 | 1 | 18 | 10 | 2 | 0 | 11 |
| | 1200 | 0 | 0 | 4 | 4 | 4 | 4 | 9 | 6 | 0 | 13 | 15 | 2 | 1 | 15 |
| | 1500 | 1 | 4 | 4 | 2 | 1 | 3 | 5 | 7 | 4 | 20 | 5 | 1 | 1 | 8 |
| | 1800 | 3 | 2 | 6 | 3 | 1 | 1 | 3 | 2 | 10 | 13 | 6 | 2 | 0 | 7 |
| | 2100 | 0 | 1 | 6 | 2 | 3 | 2 | 4 | 1 | 12 | 13 | 4 | 2 | 0 | 7 |
| | TOTAL | 5 | 11 | 35 | 22 | 25 | 20 | 46 | 37 | 47 | 130 | 56 | 13 | 2 | 9 |
| بغداد BAGHDAD | 0000 | 3 | 4 | 2 | 5 | 4 | 1 | 0 | 7 | 5 | 17 | 7 | 1 | 1 | 9 |
| | 0300 | 3 | 1 | 1 | 6 | 3 | 2 | 1 | 9 | 5 | 21 | 4 | 1 | 0 | 6 |
| | 0600 | 3 | 2 | 1 | 3 | 3 | 3 | 8 | 8 | 0 | 23 | 8 | 0 | 0 | 8 |
| | 0900 | 2 | 0 | 1 | 3 | 6 | 3 | 5 | 11 | 0 | 17 | 14 | 0 | 0 | 11 |
| | 1200 | 1 | 0 | 1 | 5 | 1 | 6 | 5 | 12 | 0 | 16 | 14 | 1 | 0 | 12 |
| | 1500 | 5 | 0 | 2 | 4 | 3 | 2 | 3 | 12 | 0 | 20 | 11 | 0 | 0 | 9 |
| | 1800 | 7 | 3 | 0 | 6 | 2 | 0 | 3 | 5 | 5 | 20 | 6 | 0 | 0 | 6 |
| | 2100 | 3 | 3 | 2 | 6 | 2 | 2 | 3 | 5 | 5 | 19 | 6 | 1 | 0 | 7 |
| | TOTAL | 27 | 13 | 10 | 38 | 24 | 19 | 28 | 69 | 20 | 153 | 70 | 4 | 1 | 9 |
| حي HAI | 0300 | 3 | 5 | 4 | 0 | 3 | 6 | 4 | 1 | 5 | 22 | 3 | 1 | 0 | 6 |
| | 0600 | 7 | 3 | 6 | 0 | 1 | 5 | 6 | 2 | 1 | 25 | 5 | 0 | 0 | 6 |
| | 0900 | 2 | 3 | 4 | 0 | 5 | 5 | 10 | 1 | 1 | 21 | 9 | 0 | 0 | 8 |
| | 1200 | 1 | 3 | 5 | 2 | 2 | 4 | 13 | 0 | 1 | 24 | 6 | 0 | 0 | 7 |
| | 1500 | 1 | 6 | 3 | 1 | 2 | 2 | 13 | 0 | 3 | 24 | 3 | 1 | 0 | 6 |
| | 1800 | 2 | 4 | 2 | 0 | 2 | 3 | 12 | 0 | 6 | 22 | 3 | 0 | 0 | 6 |
| | TOTAL | 16 | 24 | 24 | 3 | 15 | 25 | 58 | 4 | 17 | 138 | 29 | 2 | 0 | 7 |
| نجف NAJAF | 0000 | 4 | 3 | 0 | 5 | 1 | 3 | 3 | 4 | 8 | 19 | 2 | 2 | 0 | 7 |
| | 0300 | 5 | 0 | 3 | 5 | 1 | 4 | 2 | 5 | 6 | 21 | 3 | 1 | 0 | 6 |
| | 0600 | 9 | 1 | 2 | 2 | 5 | 1 | 4 | 6 | 1 | 22 | 7 | 1 | 0 | 8 |
| | 0900 | 10 | 2 | 2 | 4 | 3 | 1 | 4 | 4 | 1 | 24 | 5 | 1 | 0 | 8 |
| | 1200 | 8 | 5 | 1 | 5 | 3 | 2 | 2 | 4 | 1 | 22 | 4 | 4 | 0 | 10 |
| | 1500 | 11 | 3 | 3 | 2 | 4 | 0 | 2 | 5 | 1 | 25 | 0 | 5 | 0 | 8 |
| | 1800 | 11 | 1 | 1 | 4 | 2 | 1 | 1 | 3 | 7 | 17 | 4 | 3 | 0 | 7 |
| | 2100 | 7 | 6 | 0 | 3 | 6 | 0 | 2 | 1 | 6 | 22 | 2 | 1 | 0 | 8 |
| | TOTAL | 65 | 21 | 12 | 30 | 25 | 12 | 20 | 32 | 31 | 172 | 27 | 18 | 0 | 8 |

MARCH 1964 . آذار ١٩٦٤

TABLE 13-c.

عدد تكرار رصدات الرياح السطحية

SURFACE- WIND, NUMBER OF OBSERVATIONS OF :

| المحطات STATIONS | وقت TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CA-LM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 5 | 1 | 0 | 2 | 2 | 9 | 6 | 0 | 6 | 18 | 6 | 1 | 0 | 7 |
| | 0300 | 5 | 2 | 5 | 3 | 0 | 0 | 9 | 1 | 6 | 20 | 5 | 0 | 0 | 6 |
| | 0600 | 2 | 0 | 5 | 2 | 0 | 0 | 19 | 1 | 2 | 19 | 10 | 0 | 0 | 9 |
| | 0900 | 5 | 0 | 2 | 2 | 3 | 1 | 14 | 4 | 0 | 13 | 18 | 0 | 0 | 11 |
| | 1200 | 5 | 0 | 5 | 1 | 2 | 0 | 13 | 4 | 1 | 15 | 15 | 0 | 0 | 11 |
| | 1500 | 9 | 0 | 4 | 1 | 1 | 0 | 10 | 3 | 3 | 21 | 7 | 0 | 0 | 7 |
| | 1800 | 6 | 0 | 5 | 3 | 2 | 1 | 3 | 1 | 10 | 16 | 4 | 1 | 0 | 6 |
| | 2100 | 6 | 2 | 10 | 2 | 1 | 0 | 5 | 0 | 5 | 20 | 6 | 0 | 0 | 6 |
| | TOTAL | 43 | 5 | 36 | 16 | 11 | 11 | 79 | 14 | 33 | 142 | 71 | 2 | 0 | 8 |
| ناصرية NASIRIYA | 0000 | 6 | 1 | 2 | 8 | 3 | 1 | 4 | 4 | 2 | 26 | 2 | 1 | 0 | 7 |
| | 0300 | 2 | 0 | 1 | 7 | 3 | 1 | 8 | 6 | 3 | 24 | 4 | 0 | 0 | 5 |
| | 0600 | 3 | 0 | 1 | 6 | 4 | 1 | 12 | 4 | 0 | 25 | 6 | 0 | 0 | 8 |
| | 0900 | 2 | 0 | 1 | 4 | 3 | 0 | 11 | 9 | 1 | 18 | 12 | 0 | 0 | 10 |
| | 1200 | 1 | 1 | 2 | 4 | 2 | 1 | 10 | 10 | 0 | 19 | 12 | 0 | 0 | 10 |
| | 1500 | 1 | 1 | 5 | 5 | 0 | 0 | 5 | 14 | 0 | 28 | 3 | 0 | 0 | 7 |
| | 1800 | 3 | 1 | 3 | 8 | 0 | 0 | 8 | 7 | 1 | 28 | 2 | 0 | 0 | 6 |
| | 2100 | 4 | 1 | 4 | 7 | 2 | 0 | 5 | 3 | 5 | 21 | 4 | 1 | 0 | 6 |
| | TOTAL | 22 | 5 | 19 | 49 | 17 | 4 | 63 | 57 | 12 | 189 | 45 | 2 | 0 | 7 |
| بصرة BASRAH | 0000 | 4 | 4 | 4 | 6 | 2 | 0 | 4 | 5 | 2 | 26 | 2 | 1 | 0 | 5 |
| | 0300 | 6 | 1 | 4 | 5 | 3 | 1 | 5 | 5 | 1 | 26 | 3 | 1 | 0 | 6 |
| | 0600 | 7 | 1 | 3 | 2 | 8 | 0 | 3 | 6 | 1 | 22 | 7 | 1 | 0 | 8 |
| | 0900 | 3 | 1 | 3 | 0 | 7 | 1 | 4 | 11 | 1 | 16 | 13 | 1 | 0 | 10 |
| | 1200 | 6 | 1 | 0 | 5 | 5 | 0 | 0 | 14 | 0 | 19 | 12 | 0 | 0 | 10 |
| | 1500 | 8 | 1 | 1 | 4 | 4 | 0 | 2 | 11 | 0 | 26 | 5 | 0 | 0 | 6 |
| | 1800 | 6 | 4 | 1 | 2 | 4 | 1 | 3 | 7 | 3 | 27 | 1 | 0 | 0 | 4 |
| | 2100 | 4 | 2 | 2 | 3 | 5 | 0 | 5 | 7 | 3 | 25 | 2 | 1 | 0 | 5 |
| | TOTAL | 44 | 15 | 18 | 27 | 38 | 3 | 26 | 66 | 11 | 187 | 45 | 5 | 0 | 7 |

TABLE 14 . اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|---|
| SINJAR | 23 | Knots | 230 | 1500 | 3rd |
| MOSUL | 24 | | 180 | 0600 | 12th |
| KIRKUK | 44 | | 160 | 2100 | 10th |
| KHANAQIN | 39 | | 180 | 0300 | 12th |
| RUTBAH | 34 | | 270 | 1200 | 12th |
| HABBANIYA | 35 | | 250 | 1200 | 20th |
| BAGHDAD | 40 | | 140 | 0000 | 12th |
| HAI | 26 | | 090 | 0300 | 12th |
| NAJAF | 35 | | 300 | 0000 | 16th |
| DIWANIYA | 26 | | 130 | 1800 | 18th |
| NASIRIYA | 31 | | 130 | 0000 | 12th |
| BASRAH | 30 | | 180 | 0600 | 12th |

MARCH 1964 . TABLE - 16. آذار ١٩٦٤

## CLIMATOLOGICAL SUMMARY الملخصات المناخية

NUMBER OF DAYS FOR THE CASES OF PHENOMENA : عدد الايام التي حدثت فيها الظواهر الجوية

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| MOSUL | 10 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 11 |
| KIRKUK | 10 | 0 | 1 | 5 | 0 | 0 | 4 | 8 | 7 | 1 | 0 | 1 | 10 |
| KHANAQIN | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 8 |
| RUTBAH | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 10 | 0 | 1 | 0 | 6 | 2 |
| HABBANIYA | 5 | 0 | 0 | 3 | 0 | 1 | 2 | 11 | 7 | 5 | 0 | 6 | 3 |
| BAGHDAD | 5 | 0 | 0 | 2 | 0 | 2 | 9 | 9 | 7 | 5 | 0 | 7 | 4 |
| HAI | 2 | 0 | 0 | 2 | 0 | 0 | 4 | 4 | 3 | 1 | 0 | 7 | 2 |
| NAJAF | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 4 | 0 | 6 | 0 | 11 | 4 |
| DIWANIYA | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 6 | 6 | 2 | 0 | 11 | 2 |
| NASIRIYA | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 11 | 13 | 4 | 0 | 16 | 1 |
| BASRAH | 2 | 0 | 0 | 3 | 0 | 3 | 1 | 2 | 11 | 2 | 0 | 7 | 1 |

TABLE - 17 :

DURATION OF SUNSHINE مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 192.8 | 10.2 | 28th | 1 |
| HABBANIYA | 235.1 | 11.5 | 31st | 0 |
| ~~HABBANIYA~~ | 176.9 | 10.9 | 22nd | 8 |
| BASRAH | 247.6 | 11.3 | 28&29th | 0 |

TABLE - 18. المعدل الشهري لحرارة الحشيش و التربة

MONTHLY MEAN TEMPERATURE OF : ( سنتغراد )

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M. |
|---|---|---|---|
| MOSUL | .... | 8.6 | .... |
| KIRKUK | 6.9 | 14.6 | 14.4 |
| HABBANIYA | 10.4 | 18.9 | 18.4 |
| NAJAF | .... | 18.5 | 19.9 |
| NASIRIYA | 12.4 | 20.9 | 20.1 |
| BASRAH | 9.8 | .... | .... |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الارصاد الجوية
العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT
CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر نيسان ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR APRIL 1964

مجلد ٢٧ عدد ( ٤ ) نيسان ١٩٦٤

VOLUME 27 , NO. ( 4 ) , APRIL 1 9 6 4

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| " maximum and minimum temperature | 4a,b&c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative-humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
| Surface -Wind, number of observations of : | 13a-c | 11-13 |
| Hkghest wind-speed during one hour | 14 | 13 |
| Daily-precipitation | 15a-e | 14-18 |
| Climatological summary | 16 | 19 |
| Duration of sunshine | 17 | 19 |
| Monthly mean temperature of grass & earth | 18 | 19 |


Geographical data & notes on tables see : January 1964 .

APRIL 1964 .
TABLE 1-a.

نيسان ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 20.0 | 18.1 | 20.8 | 21.2 | 23.3 | 23.0 |
| 2 | 21.0 | 19.6 | 22.5 | 19.8 | 25.1 | 25.6 |
| 3 | 20.0 | 18.6 | 21.5 | 19.6 | 22.4 | 24.0 |
| 4 | 20.4 | 17.0 | 21.3 | 19.6 | 22.5 | 23.4 |
| 5 | 21.6 | 18.2 | 21.9 | 24.5 | 24.4 | 25.5 |
| 6 | 19.3 | 18.0 | 20.1 | 24.2 | 24.1 | 23.0 |
| 7 | 18.3 | 18.8 | 20.3 | 22.0 | 24.2 | 24.4 |
| 8 | 17.0 | 16.5 | 17.0 | 16.8 | 20.3 | 20.7 |
| 9 | 14.5 | 14.2 | 15.9 | 15.3 | 18.6 | 17.9 |
| 10 | 13.7 | 14.7 | 15.7 | 14.1 | 19.4 | 18.7 |
| 11 | 14.3 | 12.6 | 11.7 | 14.4 | 16.3 | 16.6 |
| 12 | 11.2 | 12.6 | 13.3 | 13.6 | 17.8 | 18.5 |
| 13 | 8.7 | 12.1 | 14.9 | 15.2 | 20.0 | 20.7 |
| 14 | 13.2 | 12.5 | 13.4 | 15.3 | 17.4 | 17.0 |
| 15 | 15.2 | 14.8 | 16.0 | 19.0 | 21.2 | 20.8 |
| 16 | 17.6 | 16.1 | 18.6 | 18.1 | 22.4 | 22.9 |
| 17 | 16.1 | 12.7 | 13.5 | 14.9 | 17.8 | 17.6 |
| 18 | 12.0 | 13.0 | 14.6 | 15.3 | 19.5 | 18.5 |
| 19 | 12.3 | 13.3 | 15.8 | 15.1 | 19.0 | 19.9 |
| 20 | 13.5 | 13.8 | 16.7 | 13.9 | 19.6 | 20.8 |
| 21 | 13.9 | 15.9 | 16.4 | 13.3 | 19.8 | 20.6 |
| 22 | 15.3 | 14.4 | 16.6 | 13.8 | 19.4 | 19.4 |
| 23 | 16.1 | 15.9 | 17.8 | 15.4 | 18.5 | 19.3 |
| 24 | 18.5 | 17.4 | 18.7 | 15.8 | 19.9 | 21.1 |
| 25 | 21.0 | 18.9 | 20.1 | 18.4 | 22.2 | 22.0 |
| 26 | 22.5 | 19.6 | 22.2 | 19.9 | 22.6 | 23.2 |
| 27 | 23.3 | 21.2 | 24.0 | 24.5 | 25.4 | 25.1 |
| 28 | 20.8 | 22.4 | 24.6 | 18.4 | 25.6 | 27.0 |
| 29 | 17.4 | 19.4 | 20.0 | 17.0 | 21.6 | 23.4 |
| 30 | 14.3 | 15.7 | 18.8 | 15.7 | 20.5 | 22.0 |
| MEANS | 16.8 | 16.3 | 18.2 | 17.5 | 21.1 | 21.4 |
| departure from normal | .... | -1.0 | -1.2 | -0.7 | -0.4 | -0.6 |

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

T I M E : G . M . T .

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

APRIL 1964 .
TABLE 1-b.

نيسان ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 26.2 | 25.4 | 24.5 | 24.3 | 23.5 | 24.2 |
| 2 | 29.2 | 25.5 | 27.3 | 25.3 | 25.0 | 24.7 |
| 3 | 27.0 | 25.9 | 25.1 | 25.1 | 26.2 | 25.7 |
| 4 | 27.0 | 24.7 | 24.4 | 23.7 | 24.4 | 25.8 |
| 5 | 30.7 | 24.2 | 26.5 | 24.6 | 24.6 | 23.1 |
| 6 | 25.7 | 24.2 | 25.3 | 24.0 | 25.5 | 26.6 |
| 7 | 29.2 | 23.1 | 22.2 | 24.0 | 25.1 | 25.9 |
| 8 | 23.3 | 22.1 | 22.8 | 21.5 | 22.3 | 23.4 |
| 9 | 21.5 | 19.9 | 20.3 | 19.4 | 19.4 | 20.7 |
| 10 | 22.8 | 21.1 | 20.6 | 20.3 | 21.7 | 22.8 |
| 11 | 19.3 | 18.5 | 18.9 | 18.2 | 19.5 | 19.6 |
| 12 | 21.4 | 20.2 | 19.4 | 18.7 | 20.9 | 20.6 |
| 13 | 27.7 | 23.0 | 22.4 | 22.8 | 24.4 | 24.6 |
| 14 | 25.2 | 19.0 | 19.0 | 18.6 | 19.4 | 20.6 |
| 15 | 23.6 | 22.7 | 22.5 | 22.3 | 22.2 | 21.6 |
| 16 | 24.9 | 24.7 | 24.0 | 24.2 | 23.4 | 25.0 |
| 17 | 18.4 | 21.7 | 21.7 | 20.3 | 23.1 | 25.3 |
| 18 | 22.1 | 20.6 | 20.5 | 20.4 | 21.9 | 21.6 |
| 19 | 21.5 | 23.5 | 20.5 | 21.2 | 23.1 | 22.5 |
| 20 | 22.2 | 23.6 | 21.7 | 21.2 | 24.0 | 25.1 |
| 21 | 19.1 | 23.9 | 21.1 | 21.3 | 24.0 | 27.1 |
| 22 | 20.2 | 20.7 | 19.3 | 19.2 | 20.5 | 20.9 |
| 23 | 20.2 | 21.6 | 20.2 | 19.5 | 20.3 | 20.7 |
| 24 | 21.5 | 23.7 | 21.2 | 21.5 | 22.3 | 22.4 |
| 25 | 24.4 | 24.7 | 22.9 | 23.3 | 23.7 | 23.3 |
| 26 | 26.6 | 25.1 | 24.2 | 23.8 | 25.0 | 24.2 |
| 27 | 27.0 | 25.9 | 26.0 | 25.8 | 25.3 | 24.7 |
| 28 | 23.6 | 26.0 | 27.0 | 25.9 | 26.2 | 25.6 |
| 29 | 23.3 | 25.9 | 23.5 | 22.8 | 24.7 | 25.6 |
| 30 | 22.3 | 22.6 | 23.1 | 22.4 | 21.6 | 25.5 |
| MEANS | 23.9 | 23.1 | 22.6 | 22.2 | 23.1 | 23.6 |
| departure from Normal | .... | 0.0 | .... | -0.6 | -0.6 | -0.5 |

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

APRIL 1964 . نيسان ١٩٦٤

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1011.1 | 1011.2 | 1011.0 | 1010.7 | 1010.3 | 1010.5 |
| 2 | 08.5 | 09.3 | 09.3 | 09.1 | 07.9 | 08.6 |
| 3 | 10.4 | 11.1 | 10.2 | 10.4 | 09.1 | 08.9 |
| 4 | 13.0 | 12.8 | 11.7 | 12.0 | 10.7 | 10.7 |
| 5 | 07.8 | 08.8 | 08.3 | 06.8 | 07.4 | 08.0 |
| 6 | 06.4 | 06.4 | 07.0 | 05.7 | 07.5 | 07.7 |
| 7 | 03.8 | 03.6 | 04.5 | 07.4 | 06.5 | 06.6 |
| 8 | 05.2 | 05.2 | 05.5 | 09.3 | 07.1 | 07.0 |
| 9 | 02.5 | 03.4 | 03.3 | 07.6 | 05.6 | 05.6 |
| 10 | 05.9 | 06.0 | 06.5 | 07.9 | 06.8 | 07.5 |
| 11 | 07.5 | 08.2 | 08.1 | 09.7 | 08.0 | 08.0 |
| 12 | 08.8 | 09.8 | 09.8 | 09.6 | 09.1 | 09.6 |
| 13 | 07.4 | 06.8 | 05.2 | 05.4 | 04.2 | 04.4 |
| 14 | 12.9 | 14.0 | 13.7 | 13.7 | 13.7 | 13.9 |
| 15 | 16.8 | 16.1 | 15.5 | 11.7 | 13.5 | 14.1 |
| 16 | 12.4 | 12.8 | 10.5 | 08.8 | 08.7 | 08.8 |
| 17 | 02.4 | 04.3 | 01.6 | 05.1 | 00.7 | 99.6 |
| 18 | 10.0 | 10.4 | 10.7 | 10.8 | 10.1 | 10.6 |
| 19 | 10.8 | 11.0 | 10.8 | 11.4 | 10.0 | 10.1 |
| 20 | 10.4 | 10.3 | 09.1 | 09.1 | 06.6 | 06.8 |
| 21 | 06.7 | 05.5 | 04.5 | 07.7 | 04.0 | 03.2 |
| 22 | 08.3 | 09.8 | 09.3 | 11.9 | 10.1 | 10.1 |
| 23 | 19.0 | 19.2 | 18.0 | 18.6 | 18.0 | 18.1 |
| 24 | 22.0 | 22.2 | 21.0 | 20.6 | 20.1 | 20.2 |
| 25 | 19.1 | 19.5 | 18.2 | 18.6 | 18.0 | 16.6 |
| 26 | 16.7 | 17.1 | 15.7 | 16.3 | 15.4 | 15.1 |
| 27 | 12.7 | 13.2 | 12.7 | 11.1 | 12.1 | 12.4 |
| 28 | 09.4 | 09.5 | 09.7 | 11.3 | 09.2 | 09.8 |
| 29 | 11.3 | 11.2 | 11.1 | 13.2 | 11.4 | 11.2 |
| 30 | 12.6 | 13.0 | 11.9 | 14.2 | 12.1 | 11.8 |
| MEAN | 1010.4 | 1010.7 | 1010.1 | 1010.9 | 1009.8 | 1009.9 |
| Departure from Normal | .... | -1.9 | -2.0 | -1.9 | -1.9 | -2.0 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1024.7 | 24th | 0300 | 1964 | 1000.3 | 7th | 0300 | 1964 | 1964 |
| MOSUL | 1024.6 | 24th | 0600 | 1964 | 999.8 | 7th | 0300 | 1964 | |
| KIRKUK | 1023.0 | 24th | 0600 | 1964 | 994.4 | 17th | 1200 | 1964 | |
| RUTBAH | 1022.1 | 24th | 0600 | 1964 | 1002.5 | 13th | 0900 | 1964 | |
| HABBANIYA | 1022.1 | 24th | 0600 | 1964 | 994.0 | 17th | 0900 | 1964 | |
| BAGHDAD | 1022.6 | 24th | 0600 | 1964 | 991.5 | 17th | 0900 | 1964 | |
| SINJAR | 1024.7 | 24th | 0300 | 1964 | 999.8 | 17th | 0900 | 1963 | RECORD |
| MOSUL | 1027.9 | 2nd | 0300 | 1956 | 997.3 | 19th | 1800 | 1958 | |
| KIRKUK | 1026.5 | 1st | 2100 | 1956 | 994.4 | 17th | 1200 | 1964 | |
| RUTBAH | 1028.7 | 1st | 0600 | 1956 | 998.4 | 19th | 1200 | 1958 | |
| BAGHDAD | 1026.6 | 26th | 0900 | 1956 | 991.5 | 17th | 0900 | 1964 | |

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

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1010.7 | 1010.0 | 1010.8 | 1010.7 | 1010.2 | 1011.1 |
| 2 | 06.9 | 10.0 | 08.6 | 09.1 | 10.0 | 11.8 |
| 3 | 09.4 | 08.4 | 08.4 | 08.5 | 07.6 | 10.1 |
| 4 | 11.7 | 09.3 | 10.5 | 10.1 | 08.9 | 09.5 |
| 5 | 06.5 | 08.7 | 08.5 | 08.5 | 08.6 | 09.5 |
| 6 | 09.2 | 08.0 | 08.0 | 08.1 | 08.2 | 09.8 |
| 7 | 07.2 | 08.0 | 07.6 | 08.0 | 07.8 | 09.2 |
| 8 | 08.5 | 07.2 | 07.6 | 07.5 | 07.1 | 07.4 |
| 9 | 06.9 | 05.2 | 06.0 | 06.4 | 05.8 | 06.6 |
| 10 | 04.9 | 09.0 | 07.8 | 08.3 | 08.3 | 09.8 |
| 11 | 10.2 | 09.0 | 09.0 | 09.4 | 09.7 | [illegible] |
| 12 | 09.2 | 10.4 | 09.8 | 10.5 | 10.8 | 12.3 |
| 13 | 02.5 | 03.6 | 03.7 | 04.5 | 04.3 | 07.2 |
| 14 | 13.4 | 13.0 | 14.1 | 14.1 | 13.2 | 13.0 |
| 15 | 11.6 | 12.8 | 13.1 | 13.2 | 12.8 | 13.1 |
| 16 | 08.1 | 08.4 | 07.5 | 07.9 | 07.8 | 08.7 |
| 17 | 03.8 | 00.8 | 00.6 | 02.7 | 02.3 | 03.7 |
| 18 | 10.2 | 10.8 | 10.2 | 10.6 | 10.2 | 11.4 |
| 19 | 10.4 | 09.5 | 09.4 | 09.9 | 09.5 | 10.4 |
| 20 | 05.7 | 06.2 | 05.3 | 05.9 | 05.1 | 06.9 |
| 21 | 04.7 | 00.5 | 03.0 | 03.1 | 01.2 | 01.3 |
| 22 | 11.3 | 09.8 | 10.5 | 13.6 | 11.0 | 11.5 |
| 23 | 18.6 | 17.4 | 18.2 | 18.3 | 18.0 | 18.0 |
| 24 | 22.3 | 19.2 | 19.7 | 19.6 | 19.3 | 19.1 |
| 25 | 18.3 | 16.7 | 17.5 | 17.5 | 16.8 | 16.8 |
| 26 | 16.4 | 14.4 | 15.1 | 15.2 | 14.6 | 14.9 |
| 27 | 12.0 | 12.0 | 12.3 | 12.5 | 12.5 | 13.2 |
| 28 | 10.0 | 09.6 | 09.3 | 09.3 | 09.3 | 11.2 |
| 29 | 12.6 | 09.7 | 11.1 | 11.3 | 10.5 | 11.2 |
| 30 | 12.6 | 11.4 | 11.9 | 11.9 | 12.2 | 12.6 |
| MEANS | 1010.2 | 1009.6 | 1009.8 | 1010.2 | 1009.8 | 1010.7 |
| departure from normal | .... | -1.6 | .... | -0.9 | -1.4 | -0.7 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1023.1 | 24th | 0900 | 1964 | 1000.2 | 13th | 0900 | 1964 | 1964 |
| HAI | 1020.8 | 24th | 0600 | 1964 | 996.8 | 17th | 0900 | 1964 | |
| NAJAF | 1022.3 | 24th | 0600 | 1964 | 994.6 | 17th | 0900 | 1964 | |
| DIWANIYA | 1021.6 | 24th | 0600 | 1964 | 995.6 | 17th | 0900 | 1964 | |
| NASIRIYA | 1021.5 | 24th | 0600 | 1964 | 998.3 | 17th | 0300 | 1964 | |
| BASRAH | 1020.6 | 24th | 0600 | 1964 | 1000.0 | 17th | 0300 | 1964 | |
| NUKHAIB | 1023.1 | 24th | 0900 | 1964 | 999.0 | 23rd | 1200 | 1963 | RECORD |
| HAI | 1024.8 | 1st | 0900 | 1956 | 996.8 | 17th | 0900 | 1964 | |
| NAJAF | 1022.3 | 24th | 0600 | 1964 | 994.6 | 17th | 0900 | 1964 | |
| DIWANIYA | 1025.8 | 1st | 2100 | 1956 | 995.6 | 17th | 0900 | 1964 | |
| NASIRIYA | 1025.9 | 1st | 2100 | 1956 | 998.3 | 17th | 0300 | 1964 | |
| BASRAH | 1024.7 | 1st | 1800 | 1956 | 999.5 | 13th | 1200 | 1952 | |

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TABLE - 3.

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المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

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

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 88 | 0600 | 13th | 22 | 1500 | 27th |
| MOSUL | 95 | 0600 | 11th | 25 | 1500 | 16th |
| KIRKUK | 96 | 0300 | 12th | 10 | 0900 | 28th |
| RUTBAH | 86 | 0600 | 17th | 5 | 1200 | 5th |
| HABBANIYA | 85 | 0300 | 12th | 13 | 1200 | 2nd |
| BAGHDAD | 88 | 0000 | 18th | 9 | 1200 | 27th |
| NUKHAIB | 66 | 0600 | 17th | 10 | 1200 | 26th |
| HAI | 79 | 0300 | 3&4th | 18 | 1200 | 25th |
| NAJAF | 74 | 0300 | 22nd | 12 | 1200 | 13th |
| DIWANIYA | 75 | 0300 | 22nd | 13 | 1200 | 2nd |
| NASIRIYA | 74 | 0000 | 24th | 14 | 0900 | 27th |
| BASRAH | 96 | 0300 | 25th | 17 | 1500 | 28th |

TABLE 4-a.

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 24.5 | 12.1 | 27.3 | 9.8 | 27.6 | 13.6 | 28.9 | 11.1 | 31.0 | 10.2 |
| 2 | 24.0 | 15.3 | 29.0 | 11.2 | 28.9 | 16.1 | 32.2 | 14.4 | 27.9 | 11.6 |
| 3 | 24.5 | 13.8 | 27.0 | 10.6 | 28.7 | 9.5 | 32.8 | 15.0 | 28.0 | 9.8 |
| 4 | 24.1 | 13.2 | 27.4 | 11.7 | 28.0 | 13.8 | 30.0 | 12.2 | 28.5 | 11.3 |
| 5 | 25.6 | 12.0 | 27.0 | 10.0 | 28.8 | 11.7 | 31.7 | 10.0 | 35.0 | 12.0 |
| 6 | 23.2 | 13.2 | 24.0 | 13.0 | 22.4 | 17.1 | 28.9 | 20.0 | 29.3 | 18.3 |
| 7 | 22.5 | 8.0 | 24.8 | 11.4 | 26.4 | 16.6 | 27.2 | 22.2 | 26.0 | 24.3 |
| 8 | 20.5 | 9.2 | 24.0 | 11.2 | 24.0 | 11.1 | 25.6 | 15.6 | 24.2 | 10.2 |
| 9 | 17.5 | 6.2 | 21.4 | 8.8 | 22.3 | 10.2 | 23.3 | 13.3 | 21.5 | 9.3 |
| 10 | 17.6 | 4.5 | 22.6 | 6.3 | 21.6 | 10.0 | 23.3 | 13.3 | 22.0 | 7.8 |
| 11 | 18.5 | 4.2 | 17.4 | 9.8 | 15.0 | 8.8 | 17.2 | 10.6 | 20.9 | 8.2 |
| 12 | 15.0 | 4.6 | 16.8 | 8.7 | 18.4 | 9.6 | 24.4 | 10.6 | 19.0 | 8.2 |
| 13 | 11.5 | 2.0 | 18.3 | 7.8 | 22.8 | 9.0 | 28.3 | 12.2 | 20.0 | 10.7 |
| 14 | 16.6 | 1.8 | 18.7 | 5.2 | 20.1 | 7.0 | 21.7 | 7.8 | 21.5 | 7.0 |
| 15 | 18.5 | 3.5 | 22.0 | 7.0 | 22.2 | 8.9 | 25.0 | 8.9 | 25.2 | 13.0 |
| 16 | 20.8 | 8.9 | 23.8 | 8.2 | 25.5 | 10.2 | 27.8 | 10.6 | 24.6 | 9.4 |
| 17 | 18.5 | 11.8 | 14.6 | 12.2 | 15.6 | 13.0 | 27.2 | 16.7 | 21.5 | 9.2 |
| 18 | 17.0 | 4.2 | 19.2 | 7.5 | 21.1 | 7.3 | 24.4 | 10.6 | 21.5 | 9.0 |
| 19 | 15.6 | 6.2 | 19.8 | 8.6 | 21.1 | 11.4 | 26.1 | 11.1 | 21.4 | 8.3 |
| 20 | 17.6 | 2.0 | 19.2 | 7.2 | 22.0 | 10.5 | 27.2 | 11.1 | 20.0 | 7.2 |
| 21 | 17.0 | 6.2 | 21.4 | 10.4 | 23.2 | 10.2 | 26.7 | 14.4 | 17.5 | 8.2 |
| 22 | 19.5 | 8.2 | 20.8 | 8.4 | 22.2 | 10.0 | 23.9 | 11.7 | 20.6 | 7.8 |
| 23 | 19.5 | 7.2 | 23.0 | 8.2 | 23.9 | 9.4 | 25.0 | 12.2 | 22.4 | 7.5 |
| 24 | 23.0 | 7.0 | 24.4 | 9.5 | 25.3 | 7.8 | 26.7 | 10.6 | 22.3 | 8.0 |
| 25 | 25.0 | 10.1 | 27.7 | 9.6 | 27.4 | 8.5 | 29.4 | 10.0 | 25.7 | 8.4 |
| 26 | 23.3 | 14.0 | 28.8 | 9.8 | 29.8 | 11.5 | 31.7 | 11.1 | 28.0 | 9.6 |
| 27 | 26.5 | 13.2 | 30.4 | 10.4 | 30.9 | 12.2 | 32.2 | 12.2 | 32.4 | 13.0 |
| 28 | 23.6 | 13.5 | 29.2 | 17.2 | 31.5 | 11.6 | 35.0 | 18.3 | 25.0 | 12.0 |
| 29 | 21.0 | 9.0 | 25.8 | 14.2 | 26.4 | 10.8 | 29.4 | 16.1 | 24.4 | 10.3 |
| 30 | 17.6 | 5.0 | 21.4 | 11.6 | 26.2 | 11.5 | 29.4 | 13.9 | 21.6 | 9.6 |
| MEANS | 20.3 | 8.3 | 23.2 | 9.9 | 23.6 | 11.0 | 27.4 | 12.9 | 24.3 | 10.2 |
| departure from normal | ... | .... | -2.1 | +0.3 | -1.9 | -2.0 | -0.2 | -0.8 | -1.4 | -0.4 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 29.8 | 8th | 1962 | 1.8 | 14th | 1964 |
| MOSUL | 40.0 | ? | 1928 | -1.6 | 1st | 1956 |
| KIRKUK | 39.6 | 28th | 1958 | 1.1 | 18th | 1947 |
| KHANAQIN | 39.0 | 27th | 1958 | 0.5 | 1st | 1956 |
| RUTBAH | 39.0 | 23rd | 1959 | -2.0 | 1st | 1956 |

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TABLE 4-5.

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درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 31.1 | 13.8 | 31.3 | 12.5 | 30.4 | 10.5 | 31.8 | 15.0 |
| 2 | 35.7 | 19.1 | 34.5 | 17.6 | 33.8 | 12.7 | 32.7 | 14.6 |
| 3 | 32.8 | 13.0 | 32.4 | 14.8 | 31.5 | 11.6 | 32.8 | 15.0 |
| 4 | 31.1 | 14.1 | 31.4 | 14.0 | 31.5 | 13.0 | 32.9 | 14.8 |
| 5 | 33.4 | 12.8 | 32.2 | 14.2 | 35.5 | 12.7 | 32.3 | 14.8 |
| 6 | 33.8 | 19.7 | 26.5 | 17.8 | 27.6 | 17.0 | 29.5 | 15.2 |
| 7 | 27.2 | 24.1 | 27.5 | 22.4 | 31.6 | 18.1 | 27.1 | 18.2 |
| 8 | 27.5 | 16.1 | 26.8 | 15.5 | 26.6 | 15.1 | 27.3 | 16.2 |
| 9 | 24.9 | 13.9 | 24.6 | 14.2 | 24.5 | 11.7 | 24.6 | 12.4 |
| 10 | 25.0 | 12.2 | 25.2 | 10.1 | 26.2 | 10.0 | 25.9 | 14.0 |
| 11 | 22.2 | 11.6 | 21.7 | 12.5 | 22.5 | 11.7 | 22.8 | 15.8 |
| 12 | 23.4 | 10.6 | 24.0 | 11.5 | 26.0 | 11.1 | 26.6 | 10.0 |
| 13 | 28.1 | 14.5 | 27.2 | 15.7 | 32.2 | 17.0 | 26.7 | 15.2 |
| 14 | 20.4 | 9.6 | 23.8 | 9.1 | 30.0 | 16.4 | 23.8 | 12.4 |
| 15 | 29.5 | 14.7 | 26.6 | 13.0 | 27.4 | 18.8 | 28.2 | 14.0 |
| 16 | 31.1 | 14.5 | 28.8 | 16.4 | 29.5 | 15.0 | 30.2 | 16.0 |
| 17 | 24.5 | 16.2 | 25.4 | 17.3 | 24.0 | 14.6 | 27.2 | 18.0 |
| 18 | 26.1 | 12.4 | 25.8 | 9.7 | 26.0 | 10.2 | 27.2 | 10.2 |
| 19 | 25.8 | 12.8 | 26.3 | 11.4 | 25.2 | 10.5 | 30.0 | 14.0 |
| 20 | 28.8 | 10.5 | 28.1 | 12.0 | 26.7 | 9.8 | 29.3 | 14.3 |
| 21 | 25.2 | 13.3 | 27.0 | 14.7 | 22.3 | 11.0 | 30.8 | 16.4 |
| 22 | 25.6 | 12.8 | 25.0 | 14.2 | 22.2 | 8.8 | 26.2 | 12.4 |
| 23 | 25.8 | 11.2 | 25.4 | 11.5 | 23.0 | 9.4 | 27.5 | 11.2 |
| 24 | 28.9 | 10.9 | 27.5 | 11.7 | 24.2 | 8.2 | 29.3 | 12.6 |
| 25 | 29.7 | 12.8 | 30.4 | 11.9 | 26.5 | 10.5 | 30.7 | 14.6 |
| 26 | 31.6 | 13.8 | 32.1 | 12.7 | 31.0 | 10.9 | 31.8 | 13.4 |
| 27 | 34.4 | 14.4 | 33.6 | 12.5 | 34.0 | 12.2 | 33.2 | 13.8 |
| 28 | 31.6 | 20.8 | 34.2 | 20.4 | 26.5 | 11.0 | 33.0 | 15.6 |
| 29 | 28.0 | 15.2 | 29.3 | 15.2 | 27.2 | 11.4 | 31.9 | 16.2 |
| 30 | 28.4 | 14.4 | 29.2 | 14.5 | 26.1 | 12.3 | 26.8 | 16.0 |
| MEANS | 28.7 | 14.2 | 28.1 | 14.0 | 27.7 | 12.4 | 29.0 | 14.3 |
| DEPARTURE FROM NORMAL | -0.6 | -0.7 | -0.9 | -0.6 | .... | .... | -1.0 | -1.3 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 41.1 | 30th | 1944 | 2.2 | 1&2nd | 1956 |
| BAGHDAD | 41.7 | 28th | 1958 | 1.2 | 1st | 1956 |
| NUKHAIB | 35.5 | 5th | 1964 | 4.6 | 13th | 1963 |
| HAI | 40.3 | 23rd | 1959 | 1.9 | 1st | 1956 |

TABLE 4-8.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 32.0 | 15.0 | 33.0 | 15.4 | 32.6 | 15.3 | 33.4 | 16.0 |
| 2 | 36.0 | 18.4 | 35.0 | 14.5 | 33.4 | 15.8 | 34.7 | 15.4 |
| 3 | 32.4 | 17.0 | 33.8 | 16.0 | 34.0 | 19.7 | 33.7 | 19.8 |
| 4 | 32.2 | 15.3 | 33.2 | 15.0 | 33.4 | 15.9 | 32.7 | 21.4 |
| 5 | 33.2 | 18.0 | 33.5 | 11.8 | 33.8 | 15.0 | 31.5 | 15.4 |
| 6 | 29.2 | 19.5 | 31.8 | 16.5 | 32.6 | 18.2 | 36.6 | 18.6 |
| 7 | 27.4 | 16.4 | 28.7 | 22.5 | 31.6 | 21.9 | 32.5 | 21.4 |
| 8 | 28.2 | 18.4 | 27.5 | 17.8 | 28.3 | 19.2 | 28.6 | 20.2 |
| 9 | 26.0 | 15.5 | 25.7 | 12.8 | 25.8 | 13.6 | 25.5 | 17.7 |
| 10 | 26.0 | 13.0 | 27.1 | 12.3 | 29.2 | 13.7 | 28.2 | 17.2 |
| 11 | 23.0 | 14.0 | 22.6 | 15.5 | 23.0 | 16.8 | 22.2 | 18.0 |
| 12 | 25.3 | 12.5 | 25.2 | 11.6 | 29.7 | 12.4 | 26.2 | 13.0 |
| 13 | 32.0 | 12.0 | 31.6 | 14.6 | 31.8 | 18.1 | 31.3 | 16.1 |
| 14 | 24.5 | 12.6 | 24.1 | 12.3 | 24.7 | 14.2 | 25.1 | 18.2 |
| 15 | 27.4 | 14.6 | 29.0 | 14.5 | 28.0 | 15.6 | 27.4 | 16.5 |
| 16 | 30.0 | 16.5 | 30.4 | 17.5 | 29.0 | 18.6 | 31.7 | 18.9 |
| 17 | 25.0 | 19.0 | 27.0 | 18.5 | 29.6 | 21.1 | 33.0 | 23.0 |
| 18 | 26.6 | 14.0 | 27.8 | 11.1 | 29.4 | 15.7 | 27.5 | 15.2 |
| 19 | 27.6 | 14.0 | 29.2 | 12.5 | 31.1 | 14.8 | 29.2 | 14.6 |
| 20 | 28.5 | 13.8 | 30.0 | 13.5 | 30.0 | 16.0 | 32.4 | 15.3 |
| 21 | 28.0 | 16.0 | 29.6 | 14.9 | 31.1 | 18.9 | 34.4 | 21.7 |
| 22 | 25.0 | 12.0 | 26.2 | 13.7 | 26.0 | 14.2 | 26.0 | 16.9 |
| 23 | 26.1 | 12.9 | 27.0 | 10.4 | 27.3 | 11.5 | 27.5 | 13.7 |
| 24 | 27.8 | 12.4 | 29.0 | 12.5 | 29.1 | 14.6 | 28.6 | 16.1 |
| 25 | 29.0 | 12.6 | 30.9 | 14.2 | 30.3 | 16.7 | 29.7 | 16.9 |
| 26 | 30.0 | 15.0 | 31.4 | 15.5 | 31.7 | 16.8 | 31.1 | 16.6 |
| 27 | 34.4 | 17.0 | 34.6 | 14.7 | 33.5 | 15.1 | 32.0 | 16.9 |
| 28 | 35.2 | 22.3 | 33.3 | 18.5 | 32.7 | 18.2 | 32.9 | 16.8 |
| 29 | 28.4 | 16.4 | 30.0 | 16.0 | 30.0 | 18.6 | 31.7 | 22.0 |
| 30 | 29.5 | 16.5 | 30.3 | 16.0 | 27.0 | 15.4 | 33.1 | 17.2 |
| MEANS | 28.9 | 15.4 | 29.6 | 14.8 | 30.0 | 16.4 | 30.3 | 17.6 |
| departure from normal | .... | .... | -0.6 | +0.7 | +0.4 | +0.7 | -0.5 | -0.7 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 36.4 | 28th | 1963 | 12.0 | 13&22nd | 1964 |
| DIWANIYA | 42.0 | 10th | 1958 | 1.6 | 2nd | 1946 |
| NASIRIYA | 42.8 | 28th | 1942 | 3.6 | 2nd | 1956 |
| BASRAH | 43.8 | 25th | 1954 | 2.8 | 4th | 1944 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | TIME-G.M.T. | | | | | | | | |
| SINJAR | .... | 13.5 | 15.5 | 18.2 | 19.4 | 19.1 | 14.9 | .... | 16.8 |
| MOSUL | 11.6 | 10.7 | 15.6 | 20.9 | 22.2 | 20.3 | 15.5 | 13.4 | 16.3 |
| KIRKUK | 14.4 | 13.4 | 17.6 | 22.0 | 23.6 | 21.5 | 17.4 | 15.3 | 18.2 |
| KHANAQIN | .... | 14.7 | 21.2 | 25.5 | 26.8 | 24.8 | 20.2 | .... | 22.2 |
| RUTBAH | 12.5 | 10.7 | 16.4 | 21.4 | 23.8 | 22.3 | 18.0 | 14.9 | 17.5 |
| HABBANIYA | 15.2 | 14.7 | 20.6 | 25.7 | 27.2 | 25.6 | 20.4 | 18.3 | 21.0 |
| BAGHDAD | 16.8 | 15.2 | 21.3 | 25.8 | 27.2 | 25.7 | 21.1 | 18.1 | 21.4 |
| NUKHAIB | .... | .... | 19.5 | 24.3 | 26.7 | 25.5 | .... | .... | 24.0 |
| HAI | .... | 15.2 | 21.7 | 27.0 | 27.7 | 25.4 | 20.9 | .... | 23.0 |
| NAJAF | 18.2 | 16.0 | 21.7 | 26.7 | 28.5 | 26.8 | 22.4 | 20.4 | 22.5 |
| DIWANIYA | 16.5 | 15.6 | 22.9 | 27.3 | 28.9 | 26.3 | 21.0 | 18.7 | 22.2 |
| NASIRIYA | 18.3 | 17.2 | 22.5 | 27.6 | 28.9 | 26.7 | 23.0 | 20.6 | 23.1 |
| BASRAH | 19.3 | 18.4 | 23.9 | 28.7 | 29.1 | 26.2 | 22.8 | 21.1 | 23.7 |

TABLE 6 . المعدل الشهري لضغط البخار ( ملليبارات )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 7.7 | 8.1 | 8.2 | 8.0 | 8.0 | 7.9 | ... | 8.0 |
| MOSUL | 10.8 | 10.2 | 11.7 | 12.0 | 10.8 | 10.8 | 11.2 | 11.2 | 11.1 |
| KIRKUK | 9.1 | 9.2 | 10.0 | 8.7 | 7.6 | 8.3 | 9.3 | 9.3 | 8.9 |
| KHANAQIN | ... | 9.0 | 9.1 | 8.6 | 8.2 | 8.0 | 8.5 | ... | 8.6 |
| RUTBAH | 7.0 | 7.3 | 7.2 | 6.5 | 6.3 | 6.3 | 6.6 | 7.2 | 6.8 |
| HABBANIYA | 10.3 | 10.3 | 11.3 | 10.0 | 9.6 | 10.8 | 10.4 | 9.7 | 10.3 |
| BAGHDAD | 9.2 | 9.4 | 9.8 | 8.8 | 7.9 | 8.0 | 9.1 | 9.1 | 8.9 |
| NUKHAIB | .... | .... | 8.3 | 7.9 | 8.1 | 7.8 | ... | ... | 8.2 |
| HAI | .... | 11.0 | 13.1 | 11.7 | 10.8 | 12.0 | 11.4 | .... | 11.7 |
| NAJAF | 9.8 | 9.4 | 8.7 | 8.4 | 8.0 | 8.5 | 9.5 | 9.7 | 9.0 |
| DIWANIYA | 9.9 | 9.7 | 10.7 | 9.6 | 9.4 | 9.5 | 10.8 | 10.2 | 10.0 |
| NASIRIYA | 11.0 | 10.1 | 10.4 | 9.2 | 9.4 | 10.8 | 11.8 | 11.5 | 10.5 |
| BASRAH | 15.5 | 14.1 | 15.3 | 16.2 | 15.7 | 15.3 | 15.6 | 15.7 | 15.4 |

TABLE 7 . معدل حرارة البصلة الرطبة ( سنتغراد )

MONTHLY MEAN WET-BULB TEMPERATURES ( C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 8.5 | 10.1 | 11.4 | 11.8 | 11.6 | 9.8 | ... | 10.5 |
| MOSUL | 9.8 | 9.0 | 12.3 | 14.8 | 14.7 | 13.9 | 12.1 | 10.9 | 12.2 |
| KIRKUK | 10.2 | 9.7 | 12.2 | 13.5 | 13.6 | 13.0 | 11.7 | 10.7 | 11.8 |
| KHANAQIN | ... | 10.1 | 13.3 | 14.9 | 15.3 | 14.3 | 12.6 | .... | 13.4 |
| RUTBAH | 8.0 | 7.1 | 10.0 | 12.1 | 12.9 | 12.3 | 10.4 | 9.3 | 10.3 |
| HABBANIYA | 11.9 | 11.1 | 14.3 | 15.7 | 16.1 | 15.7 | 13.9 | 12.9 | 14.0 |
| BAGHDAD | 11.4 | 10.8 | 13.6 | 15.4 | 15.3 | 14.7 | 13.3 | 12.2 | 13.3 |
| NUKHAIB | .... | .... | 12.2 | 14.1 | 15.1 | 14.4 | .... | .... | 13.9 |
| HAI | .... | 11.6 | 15.6 | 16.9 | 16.8 | 16.4 | 14.4 | .... | 15.3 |
| NAJAF | 12.4 | 11.1 | 13.4 | 15.3 | 15.5 | 15.4 | 14.1 | 13.3 | 13.8 |
| DIWANIYA | 11.5 | 11.5 | 14.7 | 16.3 | 16.6 | 15.8 | 14.2 | 12.8 | 14.2 |
| NASIRIYA | 13.1 | 12.1 | 14.7 | 16.1 | 16.8 | 16.6 | 15.6 | 14.4 | 14.9 |
| BASRAH | 15.9 | 14.7 | 17.6 | 19.7 | 19.6 | 18.4 | 17.4 | 16.7 | 17.5 |

TABLE 8 . معدل درجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT ( C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 3.1 | 3.7 | 3.9 | 3.5 | 3.6 | 3.5 | ... | 3.5 |
| MOSUL | 8.1 | 7.2 | 9.2 | 9.6 | 7.9 | 7.9 | 8.5 | 8.5 | 8.4 |
| KIRKUK | 5.4 | 5.5 | 6.7 | 4.6 | 2.7 | 3.8 | 5.6 | 5.7 | 5.0 |
| KHANAQIN | ... | 5.1 | 5.3 | 4.5 | 4.1 | 3.6 | 4.4 | ... | 4.5 |
| RUTBAH | 2.2 | 2.3 | 2.0 | 1.8 | -0.1 | 0.2 | 0.8 | 2.0 | 1.4 |
| HABBANIYA | 7.3 | 7.2 | 8.6 | 6.8 | 6.2 | 7.5 | 7.4 | 6.4 | 7.2 |
| BAGHDAD | 5.7 | 6.0 | 6.5 | 4.9 | 3.3 | 3.5 | 5.2 | 5.5 | 5.1 |
| NUKHAIB | ... | ... | 4.1 | 3.3 | 3.5 | 2.9 | ... | ... | 3.5 |
| HAI | ... | 8.3 | 11.0 | 8.9 | 7.8 | 9.0 | 8.8 | ... | 9.0 |
| NAJAF | 6.5 | 6.1 | 4.7 | 4.2 | 3.5 | 4.1 | 5.9 | 6.3 | 5.2 |
| DIWANIYA | 6.6 | 6.4 | 7.8 | 6.2 | 5.7 | 5.9 | 7.9 | 7.0 | 6.7 |
| NASIRIYA | 8.1 | 6.8 | 7.5 | 5.5 | 6.0 | 7.9 | 9.2 | 8.9 | 7.5 |
| BASRAH | 13.2 | 11.8 | 12.9 | 13.3 | 12.8 | 12.5 | 13.2 | 13.3 | 12.9 |

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TABLE 9. المعدل الشهري للرطوبة النسبية ( % )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | TIME - G.M.T. | | | | | | | | |
| SINJAR | ,,, | 54 | 48 | 41 | 37 | 39 | 48 | ,,, | 44 |
| MOSUL | 79 | 80 | 66 | 50 | 42 | 46 | 63 | 73 | 62 |
| KIRKUK | 59 | 62 | 52 | 36 | 29 | 35 | 49 | 57 | 47 |
| KHANAQIN | ,,, | 54 | 38 | 28 | 24 | 26 | 37 | ,,, | 35 |
| RUTBAH | 51 | 58 | 42 | 28 | 23 | 25 | 33 | 44 | 38 |
| HABBANIYA | 51 | 63 | 48 | 31 | 28 | 34 | 44 | 47 | 43 |
| BAGHDAD | 50 | 56 | 41 | 28 | 23 | 25 | 37 | 44 | 38 |
| NUKHAIB | ,,, | ,,, | 38 | 27 | 24 | 25 | ,,, | ,,, | 29 |
| HAI | ,,, | 64 | 51 | 33 | 29 | 37 | 47 | ,,, | 44 |
| NAJAF | 47 | 52 | 34 | 24 | 31 | 24 | 35 | 41 | 36 |
| DIWANIYA | 54 | 56 | 39 | 27 | 24 | 28 | 44 | 49 | 40 |
| NASIRIYA | 53 | 52 | 39 | 25 | 24 | 31 | 42 | 48 | 39 |
| BASRAH | 69 | 68 | 51 | 41 | 39 | 45 | 57 | 63 | 54 |

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

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 10.8 | 11.1 | 10.7 | 10.5 | 09.5 | 10.5 | ,,,, | 1010.5 |
| MOSUL | 10.7 | 11.2 | 12.0 | 11.1 | 09.5 | 09.3 | 10.7 | 11.1 | 1010.7 |
| KIRKUK | 10.2 | 10.8 | 11.2 | 10.3 | 08.6 | 08.7 | 10.4 | 10.8 | 1010.1 |
| KHANAQIN | ,,,, | 11.6 | 10.1 | 09.0 | 11.0 | 07.6 | 10.0 | ,,,, | 1009.9 |
| RUTBAH | 10.7 | 11.6 | 11.8 | 11.5 | 10.2 | 10.0 | 10.6 | 10.9 | 1010.9 |
| HABBANIYA | 09.5 | 10.2 | 11.0 | 10.4 | 08.9 | 08.8 | 09.8 | 09.7 | 1009.8 |
| BAGHDAD | 09.1 | 10.0 | 11.0 | 10.5 | 09.1 | 08.5 | 10.1 | 09.8 | 1009.9 |
| NUKHAIB | ,,,, | ,,,, | 11.8 | 10.8 | 09.3 | 08.8 | ,,,, | ,,,, | 1010.2 |
| HAI | ,,,, | 09.2 | 10.5 | 10.2 | 08.6 | 08.7 | 09.5 | ,,,, | 1009.5 |
| NAJAF | 09.0 | 09.8 | 10.9 | 10.4 | 09.3 | 08.9 | 10.1 | 09.9 | 1009.8 |
| DIWANIYA | 09.6 | 10.1 | 11.8 | 10.7 | 09.7 | 09.2 | 10.4 | 10.3 | 1010.2 |
| NASIRIYA | 09.2 | 09.8 | 11.0 | 10.5 | 09.0 | 08.7 | 09.9 | 10.1 | 1009.8 |
| BASRAH | 10.1 | 10.6 | 11.8 | 11.6 | 10.1 | 09.8 | 10.8 | 10.9 | 1010.7 |

TABLE -11. معدل كمية الغيوم الواطئة ( اثمان )

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,, | 0.7 | 0.8 | 2.3 | 2.4 | 2.0 | 0.7 | ,,, | 1.5 |
| MOSUL | 2.3 | 2.9 | 2.2 | 3.3 | 3.8 | 5.3 | 2.1 | 2.8 | 2.9 |
| KIRKUK | 2.1 | 2.1 | 2.1 | 1.9 | 1.8 | 1.6 | 1.0 | 1.9 | 1.8 |
| KHANAQIN | ,,, | 3.1 | 2.9 | 2.1 | 2.4 | 2.8 | 1.4 | ,,, | 2.5 |
| RUTBAH | 0.3 | 0.4 | 0.6 | 1.3 | 2.5 | 2.4 | 1.3 | 0.6 | 1.2 |
| HABBANIYA | 0.4 | 0.8 | 0.6 | 1.1 | 1.6 | 1.1 | 0.3 | 0.6 | 0.8 |
| BAGHDAD | 0.8 | 0.5 | 0.7 | 1.0 | 1.7 | 0.8 | 0.6 | 0.6 | 0.8 |
| NUKHAIB | ,,, | ,,, | 0.6 | 0.8 | 1.3 | 1.1 | ,,,, | ,,,, | 0.9 |
| HAI | ,,, | 0.4 | 0.4 | 0.7 | 1.0 | 1.2 | 0.4 | ,,, | 0.7 |
| NAJAF | 1.0 | 0.9 | 1.2 | 1.3 | 1.7 | 1.4 | 0.7 | 1.6 | 1.2 |
| DIWANIYA | 0.3 | 0.6 | 0.4 | 1.2 | 1.2 | 1.2 | 0.2 | 0.3 | 0.7 |
| NASIRIYA | 0.1 | 0.8 | 1.5 | 1.4 | 1.1 | 0.6 | 0.2 | 0.4 | 0.8 |
| BASRAH | 0.6 | 0.4 | 0.8 | 0.6 | 0.5 | 0.6 | 0.7 | 0.9 | 0.6 |

TABLE -12. معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,, | 3.0 | 2.6 | 4.9 | 4.8 | 4.3 | 2.0 | ,,, | 3.6 |
| MOSUL | 3.1 | 4.6 | 4.1 | 5.3 | 5.7 | 5.3 | 3.7 | 3.7 | 4.5 |
| KIRKUK | 2.6 | 3.0 | 3.1 | 3.0 | 3.3 | 3.3 | 2.0 | 2.8 | 2.9 |
| KHANAQIN | ,,, | 3.4 | 3.7 | 3.0 | 3.2 | 4.0 | 2.5 | ,,, | 3.3 |
| RUTBAH | 1.6 | 2.4 | 2.5 | 3.0 | 4.7 | 4.3 | 2.6 | 1.2 | 2.8 |
| HABBANIYA | 2.9 | 3.2 | 2.7 | 2.9 | 3.9 | 4.1 | 2.8 | 2.3 | 3.1 |
| BAGHDAD | 3.1 | 3.4 | 2.9 | 2.7 | 3.9 | 3.8 | 2.5 | 2.7 | 3.1 |
| NUKHAIB | ,,, | ,,, | 2.3 | 2.6 | 3.1 | 3.0 | ,,, | ,,, | 2.4 |
| HAI | ,,, | 3.9 | 3.9 | 4.4 | 4.4 | 4.7 | 2.9 | ,,, | 4.1 |
| NAJAF | 2.8 | 2.9 | 3.0 | 3.0 | 3.9 | 4.0 | 3.0 | 2.9 | 3.2 |
| DIWANIYA | 2.3 | 3.0 | 2.9 | 3.6 | 3.6 | 3.7 | 2.3 | 2.7 | 3.0 |
| NASIRIYA | 1.4 | 3.0 | 3.4 | 3.0 | 3.1 | 3.0 | 2.5 | 2.4 | 2.7 |
| BASRAH | 2.5 | 2.9 | 2.9 | 3.1 | 2.7 | 3.2 | 2.8 | 2.7 | 2.9 |

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TABLE 13-a.

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## عدد تكرار رصدات الرياح السطحية

## SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 22-21 | 22-33 | 234 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 9 | 0 | 5 | 0 | 0 | 0 | 10 | 1 | 5 | 22 | 3 | 0 | 0 | 6 |
| | 0600 | 4 | 0 | 5 | 0 | 0 | 0 | 11 | 2 | 8 | 19 | 2 | 1 | 0 | 6 |
| | 0900 | 1 | 0 | 7 | 0 | 3 | 0 | 11 | 3 | 5 | 19 | 6 | 0 | 0 | 7 |
| | 1200 | 3 | 0 | 5 | 0 | 8 | 0 | 10 | 0 | 4 | 21 | 5 | 0 | 0 | 7 |
| | 1500 | 3 | 0 | 3 | 0 | 2 | 0 | 13 | 2 | 7 | 16 | 7 | 0 | 0 | 8 |
| | 1800 | 8 | 0 | 2 | 0 | 0 | 0 | 8 | 4 | 8 | 18 | 4 | 0 | 0 | 6 |
| | TOTAL | 28 | 0 | 27 | 0 | 13 | 0 | 63 | 12 | 37 | 115 | 27 | 1 | 0 | 7 |
| موصل MOSUL | 0000 | 0 | 0 | 1 | 1 | 4 | 0 | 9 | 2 | 13 | 16 | 1 | 0 | 0 | 4 |
| | 0300 | 1 | 0 | 1 | 1 | 4 | 0 | 5 | 7 | 11 | 15 | 4 | 0 | 0 | 5 |
| | 0600 | 5 | 0 | 6 | 2 | 2 | 1 | 4 | 9 | 1 | 23 | 6 | 0 | 0 | 8 |
| | 0900 | 4 | 1 | 9 | 0 | 7 | 0 | 6 | 0 | 3 | 17 | 10 | 0 | 0 | 9 |
| | 1200 | 4 | 0 | 6 | 3 | 7 | 0 | 2 | 4 | 4 | 18 | 8 | 0 | 0 | 8 |
| | 1500 | 5 | 3 | 3 | 1 | 5 | 1 | 5 | 6 | 1 | 20 | 8 | 1 | 0 | 9 |
| | 1800 | 5 | 0 | 2 | 3 | 4 | 0 | 4 | 6 | 6 | 17 | 7 | 0 | 0 | 7 |
| | 2100 | 0 | 0 | 1 | 1 | 8 | 0 | 8 | 4 | 8 | 18 | 4 | 0 | 0 | 6 |
| | TOTAL | 24 | 4 | 29 | 12 | 41 | 2 | 43 | 38 | 47 | 144 | 48 | 1 | 0 | 7 |
| كركوك KIRKUK | 0000 | 2 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 15 | 11 | 4 | 0 | 0 | 5 |
| | 0300 | 2 | 7 | 0 | 8 | 0 | 1 | 0 | 0 | 12 | 17 | 1 | 0 | 0 | 4 |
| | 0600 | 2 | 6 | 1 | 6 | 6 | 0 | 1 | 0 | 8 | 20 | 2 | 0 | 0 | 4 |
| | 0900 | 1 | 2 | 0 | 3 | 8 | 7 | 5 | 0 | 4 | 19 | 6 | 1 | 0 | 7 |
| | 1200 | 2 | 2 | 0 | 1 | 6 | 3 | 7 | 2 | 7 | 13 | 9 | 1 | 0 | 8 |
| | 1500 | 4 | 2 | 0 | 1 | 4 | 0 | 10 | 2 | 7 | 19 | 4 | 0 | 0 | 5 |
| | 1800 | 1 | 4 | 4 | 2 | 0 | 0 | 2 | 1 | 16 | 13 | 1 | 0 | 0 | 3 |
| | 2100 | 2 | 5 | 3 | 2 | 0 | 1 | 1 | 0 | 16 | 9 | 5 | 0 | 0 | 4 |
| | TOTAL | 16 | 33 | 12 | 27 | 24 | 12 | 26 | 5 | 85 | 121 | 32 | 2 | 0 | 5 |
| خانقين KHANAQIN | 0300 | 0 | 1 | 13 | 0 | 6 | 0 | 0 | 0 | 10 | 17 | 2 | 1 | 0 | 5 |
| | 0600 | 0 | 0 | 6 | 0 | 7 | 1 | 3 | 0 | 13 | 13 | 4 | 0 | 0 | 5 |
| | 0900 | 1 | 0 | 0 | 0 | 15 | 2 | 4 | 3 | 5 | 15 | 6 | 3 | 1 | 9 |
| | 1200 | 3 | 0 | 0 | 0 | 11 | 0 | 12 | 2 | 2 | 17 | 4 | 6 | 1 | 12 |
| | 1500 | 3 | 2 | 0 | 0 | 6 | 1 | 12 | 3 | 3 | 19 | 6 | 2 | 0 | 6 |
| | 1800 | 0 | 0 | 4 | 1 | 5 | 0 | 6 | 1 | 13 | 14 | 3 | 0 | 0 | 5 |
| | TOTAL | 7 | 3 | 23 | 1 | 50 | 4 | 37 | 9 | 46 | 95 | 25 | 12 | 2 | 7 |
| رطبة RUTBAH | 0000 | 3 | 1 | 1 | 1 | 1 | 1 | 11 | 2 | 9 | 11 | 10 | 0 | 0 | 8 |
| | 0300 | 3 | 1 | 0 | 1 | 3 | 5 | 13 | 2 | 2 | 21 | 7 | 0 | 0 | 8 |
| | 0600 | 4 | 0 | 2 | 1 | 6 | 1 | 12 | 3 | 1 | 15 | 13 | 1 | 0 | 10 |
| | 0900 | 4 | 0 | 1 | 2 | 2 | 5 | 12 | 2 | 2 | 17 | 11 | 0 | 0 | 8 |
| | 1200 | 3 | 0 | 1 | 1 | 2 | 3 | 10 | 5 | 5 | 9 | 15 | 1 | 0 | 11 |
| | 1500 | 8 | 0 | 1 | 1 | 2 | 2 | 11 | 3 | 2 | 13 | 14 | 0 | 1 | 11 |
| | 1800 | 5 | 4 | 0 | 2 | 1 | 0 | 7 | 7 | 4 | 12 | 13 | 1 | 0 | 9 |
| | 2100 | 3 | 1 | 0 | 2 | 0 | 1 | 7 | 7 | 9 | 8 | 11 | 2 | 0 | 9 |
| | TOTAL | 33 | 7 | 6 | 11 | 17 | 18 | 83 | 31 | 34 | 106 | 94 | 5 | 1 | 9 |

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TABLE 13-b.

عدد تكرار رصدات الرياح السطحيـــة

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطـــة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانيـــة HABBANIYA | 0000 | 2 | 1 | 1 | 3 | 2 | 3 | 8 | 4 | 6 | 14 | 10 | 0 | 0 | 8 |
| | 0300 | 2 | 1 | 0 | 2 | 0 | 0 | 12 | 3 | 10 | 10 | 8 | 2 | 0 | 7 |
| | 0600 | 4 | 0 | 0 | 1 | 1 | 1 | 10 | 9 | 4 | 14 | 9 | 3 | 0 | 9 |
| | 0900 | 2 | 0 | 0 | 1 | 4 | 2 | 13 | 8 | 0 | 16 | 12 | 2 | 0 | 11 |
| | 1200 | 1 | 0 | 2 | 2 | 3 | 0 | 12 | 8 | 2 | 13 | 12 | 1 | 0 | 10 |
| | 1500 | 3 | 2 | 0 | 2 | 1 | 1 | 9 | 6 | 6 | 18 | 5 | 1 | 0 | 7 |
| | 1800 | 3 | 4 | 2 | 3 | 1 | 3 | 5 | 2 | 7 | 20 | 3 | 0 | 0 | 5 |
| | 2100 | 2 | 3 | 0 | 6 | 1 | 2 | 2 | 5 | 9 | 12 | 7 | 2 | 0 | 8 |
| | TOTAL | 19 | 11 | 5 | 20 | 13 | 12 | 71 | 45 | 44 | 119 | 66 | 11 | 0 | 8 |
| بغداد BAGHDAD | 0000 | 6 | 2 | 1 | 7 | 2 | 2 | 1 | 6 | 3 | 20 | 7 | 0 | 0 | 8 |
| | 0300 | 4 | 1 | 0 | 4 | 1 | 3 | 6 | 5 | 6 | 14 | 10 | 0 | 0 | 8 |
| | 0600 | 3 | 1 | 1 | 3 | 2 | 2 | 4 | 13 | 1 | 18 | 10 | 1 | 0 | 11 |
| | 0900 | 3 | 1 | 1 | 4 | 2 | 2 | 8 | 9 | 0 | 16 | 12 | 2 | 0 | 12 |
| | 1200 | 5 | 0 | 0 | 0 | 5 | 2 | 9 | 9 | 0 | 14 | 14 | 1 | 1 | 14 |
| | 1500 | 1 | 2 | 0 | 2 | 2 | 0 | 6 | 17 | 0 | 20 | 8 | 1 | 1 | 10 |
| | 1800 | 5 | 3 | 0 | 4 | 2 | 3 | 2 | 7 | 4 | 19 | 6 | 1 | 0 | 7 |
| | 2100 | 2 | 3 | 3 | 7 | 2 | 1 | 2 | 7 | 3 | 21 | 5 | 1 | 0 | 8 |
| | TOTAL | 29 | 13 | 6 | 31 | 18 | 15 | 38 | 73 | 27 | 142 | 72 | 7 | 2 | 10 |
| نخيب NUKHAIB | 0600 | 4 | 0 | 1 | 1 | 5 | 0 | 13 | 2 | 4 | 10 | 14 | 2 | 0 | 10 |
| | 0900 | 4 | 0 | 0 | 3 | 1 | 3 | 12 | 2 | 5 | 12 | 8 | 5 | 0 | 11 |
| | 1200 | 2 | 0 | 0 | 2 | 5 | 3 | 13 | 3 | 2 | 14 | 9 | 5 | 0 | 12 |
| | 1500 | 2 | 0 | 1 | 1 | 4 | 4 | 14 | 2 | 2 | 15 | 11 | 2 | 0 | 10 |
| | TOTAL | 12 | 0 | 2 | 7 | 15 | 10 | 52 | 9 | 13 | 51 | 42 | 14 | 0 | 11 |
| حي HAI | 0300 | 1 | 3 | 5 | 0 | 3 | 0 | 12 | 0 | 6 | 21 | 3 | 0 | 0 | 6 |
| | 0600 | 2 | 4 | 6 | 3 | 1 | 2 | 10 | 2 | 0 | 21 | 9 | 0 | 0 | 9 |
| | 0900 | 1 | 4 | 6 | 2 | 1 | 2 | 10 | 2 | 2 | 21 | 7 | 0 | 0 | 8 |
| | 1200 | 2 | 2 | 7 | 2 | 2 | 2 | 13 | 0 | 0 | 26 | 3 | 1 | 0 | 8 |
| | 1500 | 2 | 1 | 3 | 0 | 1 | 3 | 15 | 0 | 5 | 23 | 2 | 0 | 0 | 5 |
| | 1800 | 0 | 5 | 0 | 0 | 0 | 2 | 16 | 0 | 7 | 22 | 1 | 0 | 0 | 5 |
| | TOTAL | 8 | 19 | 27 | 7 | 8 | 11 | 76 | 4 | 20 | 134 | 25 | 1 | 0 | 7 |
| نجف NAJAF | 0000 | 9 | 2 | 1 | 2 | 5 | 1 | 3 | 2 | 5 | 20 | 4 | 1 | 0 | 7 |
| | 0300 | 9 | 1 | 1 | 1 | 5 | 3 | 5 | 2 | 3 | 23 | 3 | 1 | 0 | 6 |
| | 0600 | 14 | 1 | 0 | 2 | 3 | 3 | 1 | 3 | 3 | 18 | 6 | 3 | 0 | 9 |
| | 0900 | 12 | 4 | 0 | 1 | 5 | 1 | 2 | 5 | 0 | 24 | 3 | 3 | 0 | 9 |
| | 1200 | 8 | 1 | 2 | 2 | 1 | 3 | 4 | 7 | 2 | 18 | 7 | 3 | 0 | 9 |
| | 1500 | 7 | 2 | 1 | 2 | 3 | 0 | 5 | 6 | 4 | 20 | 3 | 3 | 0 | 7 |
| | 1800 | 4 | 1 | 5 | 3 | 2 | 2 | 3 | 5 | 5 | 22 | 2 | 1 | 0 | 5 |
| | 2100 | 2 | 1 | 3 | 4 | 6 | 1 | 3 | 6 | 4 | 22 | 3 | 1 | 0 | 6 |
| | TOTAL | 65 | 13 | 13 | 17 | 30 | 14 | 26 | 36 | 26 | 167 | 31 | 16 | 0 | 7 |

نيسان ١٩٦٤

عدد تكرار رصدات الرياح السطحية

APRIL 1964 .
TABLE 13c.

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطات STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 5 | 2 | 4 | 3 | 3 | 0 | 4 | 2 | 7 | 18 | 4 | 1 | 0 | 6 |
| | 0300 | 6 | 1 | 5 | 4 | 2 | 0 | 8 | 1 | 3 | 22 | 5 | 0 | 0 | 6 |
| | 0600 | 4 | 1 | 4 | 1 | 4 | 2 | 7 | 4 | 3 | 13 | 12 | 2 | 0 | 10 |
| | 0900 | 6 | 0 | 2 | 0 | 4 | 2 | 14 | 1 | 1 | 14 | 14 | 1 | 0 | 10 |
| | 1200 | 10 | 0 | 4 | 0 | 1 | 0 | 13 | 0 | 0 | 13 | 16 | 1 | 0 | 11 |
| | 1500 | 12 | 0 | 2 | 2 | 2 | 10 | 0 | 0 | 2 | 20 | 8 | 0 | 0 | 8 |
| | 1800 | 9 | 1 | 5 | 0 | 0 | 0 | 6 | 1 | 8 | 19 | 3 | 0 | 0 | 4 |
| | 2100 | 2 | 3 | 7 | 2 | 1 | 1 | 4 | 3 | 7 | 21 | 2 | 0 | 0 | 5 |
| | TOTAL | 54 | 8 | 33 | 12 | 17 | 15 | 58 | 12 | 31 | 140 | 64 | 5 | 0 | 8 |
| ناصرية NASIRIYA | 0000 | 3 | 0 | 2 | 5 | 7 | 2 | 6 | 2 | 3 | 24 | 8 | 0 | 0 | 5 |
| | 0300 | 3 | 0 | 2 | 5 | 5 | 0 | 9 | 2 | 4 | 22 | 4 | 0 | 0 | 5 |
| | 0600 | 2 | 0 | 0 | 5 | 4 | 5 | 8 | 6 | 0 | 22 | 8 | 0 | 0 | 8 |
| | 0900 | 3 | 0 | 2 | 5 | 2 | 0 | 9 | 9 | 0 | 17 | 11 | 2 | 0 | 10 |
| | 1200 | 1 | 2 | 5 | 1 | 2 | 0 | 7 | 12 | 0 | 19 | 11 | 0 | 0 | 9 |
| | 1500 | 2 | 4 | 3 | 4 | 0 | 0 | 9 | 6 | 2 | 26 | 2 | 0 | 0 | 7 |
| | 1800 | 0 | 5 | 3 | 6 | 3 | 1 | 6 | 4 | 2 | 25 | 3 | 0 | 0 | 5 |
| | 2100 | 3 | 2 | 4 | 3 | 5 | 0 | 7 | 3 | 3 | 23 | 4 | 0 | 0 | 5 |
| | TOTAL | 17 | 13 | 21 | 34 | 28 | 8 | 61 | 44 | 14 | 178 | 46 | 2 | 0 | 7 |
| بصرة BASRAH | 0000 | 5 | 1 | 2 | 0 | 10 | 0 | 3 | 4 | 5 | 21 | 4 | 0 | 0 | 5 |
| | 0300 | 6 | 1 | 0 | 3 | 5 | 4 | 6 | 0 | 5 | 23 | 2 | 0 | 0 | 4 |
| | 0600 | 5 | 0 | 1 | 2 | 6 | 1 | 4 | 6 | 5 | 15 | 9 | 1 | 0 | 7 |
| | 0900 | 1 | 0 | 0 | 5 | 4 | 2 | 4 | 13 | 1 | 19 | 9 | 1 | 0 | 9 |
| | 1200 | 8 | 0 | 2 | 4 | 2 | 0 | 1 | 13 | 0 | 18 | 11 | 1 | 0 | 9 |
| | 1500 | 11 | 0 | 1 | 3 | 4 | 0 | 3 | 7 | 1 | 26 | 2 | 1 | 0 | 6 |
| | 1800 | 2 | 0 | 3 | 3 | 6 | 1 | 3 | 6 | 6 | 20 | 4 | 0 | 0 | 4 |
| | 2100 | 2 | 0 | 1 | 2 | 8 | 0 | 3 | 7 | 7 | 20 | 3 | 0 | 0 | 4 |
| | TOTAL | 40 | 2 | 10 | 22 | 45 | 8 | 27 | 56 | 30 | 162 | 44 | 4 | 0 | 6 |

اعلى سرعة ريح حدثت خلال ساعة واحدة

TABLE 14 .

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|---|
| ENJAR | 25 | Knots | 310 | 0600 | 7th |
| DOUL | 25 | | 290 | 1500 | 13th |
| EKUK | 30 | | 160 | 0900 | 28th |
| ANAQIN | 46 | | 180 | 1200 | 13th |
| TBAH | 40 | | 270 | 1500 | 10th |
| DDANIYA | 30 | | 280 | 1200 | 17th |
| GHDAD | 50 | | 280 | 1200 | 17th |
| GHAIB | 28 | | 250 | 0600 | 17th |
| I | 25 | | 180 | 1200 | 17th |
| AJAF | 30 | | 290 | 1200 | 17th |
| WANIYA | 29 | | 140 | 0600 | 13th |
| ASIRIYA | 23 | | 260 | 0900 | 17th |
| | 24 | | 160 | 0600 | 17th |

## CLIMATOLOGICAL SUMMARY الملخصات المناخية

NUMBER OF DAYS FOR THE CASES OF PHENOMENA : عدد الايام التي حدثت فيها الظواهر الجوية :

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| MOSUL | 9 | 0 | 0 | 2 | 0 | 3 | 0 | 2 | 1 | 0 | 0 | 4 | 7 |
| KIRKUK | 7 | 0 | 0 | 2 | 0 | 0 | 7 | 7 | 7 | 1 | 0 | 11 | 2 |
| KHANAQIN | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 8 | 2 |
| RUTBAH | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 2 | 0 | 9 | 1 |
| HABBANIYA | 1 | 0 | 0 | 5 | 0 | 0 | 3 | 11 | 6 | 5 | 0 | 8 | 1 |
| BAGHDAD | 3 | 0 | 0 | 2 | 0 | 0 | 3 | 10 | 6 | 5 | 0 | 10 | 3 |
| NUKHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 8 | 2 |
| HAI | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 8 | 3 | 0 | 6 | 8 |
| NAJAF | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 4 | 0 | 6 | 2 |
| DIWANIYA | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 11 | 4 | 5 | 0 | 8 | 2 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 17 | 4 | 0 | 14 | 2 |
| BASRAH | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 13 | 4 | 0 | 13 | 4 |

TABLE - 17.

DURATION OF SUNSHINE مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 265.8 | 12.4 | 25&25th | 1 |
| HABBANIYA | 259.4 | 12.4 | 25th | 2 |
| BAGHDAD | 245.1 | 12.1 | 14,25&29 | 4 |
| BASRAH | 229.6 | 12.5 | 26th | 2 |

TABLE - 18.

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

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | .... | 12.1 | .... |
| KIRKUK | 7.1 | 18.0 | 17.3 |
| HABBANIYA | 13.2 | 24.4 | 21.9 |
| BAGHDAD | 9.9 | 23.2 | 21.9 |
| NAJAF | .... | 23.5 | 24.1 |
| NASIRIYA | 15.1 | 25.2 | 22.8 |
| BASRAH | 12.3 | .... | .... |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

# REPUBLIC OF IRAQ

## MINISTRY OF COMMUNICATIONS

### DIRECTORATE GENERAL OF CIVIL AVIATION

مديرية الانواء الجوية

## METEOROLOGICAL DEPARTMENT

شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهري

# Monthly Climatological Data


No. 5, 6, 7 & 8

Vol. 27

Month : MAY, JUNE, JULY & AUGUST.

Year : 1964.

العدد ٥ ، ٦ ، ٧ و ٨

مجلد ٢٧

الشهر مايس ، حزيران ، تموز وآب

السنة ١٩٦٤

الجمهورية العراقيـــــــــــة

وزارة المواصـــلا ت

مديرية الطيران المدني العامـــــــة

مفتشية الانواء الجويـة العامـــة

شعبة المنـــاخ

بغداد

- - - -

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

# معلومات مناخيـة لشهر مايـــــس ١٩٦٤

# MONTHLY CLIMATOLOGICAL DATA FOR MAY 1964

مجلد ٢٧ ، عدد ( ٥ ) ، مايـــس ١٩٦٤

VOLUME 27 , No. ( 5 ) , MAY 1964 .

# C O N T E N T S


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| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| " maximum and minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative humidity | 9 | 10 |
| " " pressure | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
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Geographical data & notes on tables see : JANUARY 1964 .

مايس ١٩٦٤

MAY 1964 .
TABLE ١-a.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 15.7 | 15.3 | 16.7 | 16.0 | 19.4 | 19.6 |
| 2 | 19.1 | 16.8 | 19.5 | [illegible] | 20.5 | 20.3 |
| 3 | 20.5 | 18.8 | 22.1 | 18.9 | 23.3 | 24.4 |
| 4 | 19.4 | 18.3 | 20.3 | 18.6 | 22.6 | 25.0 |
| 5 | 21.7 | 18.4 | 21.5 | 18.6 | 23.2 | 24.4 |
| 6 | 22.1 | 21.2 | 24.3 | 20.8 | 25.9 | 26.5 |
| 7 | 23.9 | 21.7 | 24.8 | 21.9 | 26.4 | 27.5 |
| 8 | 23.9 | 23.4 | 27.8 | 22.0 | 26.9 | 30.1 |
| 9 | 22.8 | 22.1 | 27.2 | 19.2 | 27.9 | 30.3 |
| 10 | 25.6 | 25.2 | 29.8 | 18.8 | 26.4 | 28.6 |
| 11 | 16.9 | 17.7 | 20.6 | 17.6 | 21.6 | 23.0 |
| 12 | 21.3 | 20.4 | 21.2 | 20.1 | 22.5 | 23.5 |
| 13 | 23.5 | 22.1 | 24.4 | 22.7 | 25.7 | 26.2 |
| 14 | 24.5 | 26.0 | 27.1 | 23.1 | 26.0 | 27.2 |
| 15 | 25.9 | 24.7 | 27.9 | 24.2 | 29.8 | 30.1 |
| 16 | 26.2 | 26.2 | 28.6 | 21.5 | 30.0 | 30.4 |
| 17 | 21.1 | 22.3 | 23.3 | 20.4 | 24.1 | 25.4 |
| 18 | 24.7 | 23.6 | 24.6 | 22.4 | 25.8 | 26.9 |
| 19 | 26.3 | 24.6 | 27.4 | 24.6 | 27.8 | 28.5 |
| 20 | 28.3 | 25.6 | 29.7 | 26.9 | 30.6 | 32.0 |
| 21 | 27.5 | 27.6 | 30.6 | 25.4 | 32.7 | 32.9 |
| 22 | 25.7 | 25.3 | 26.9 | 24.1 | 29.1 | 35.9 |
| 23 | 28.3 | 25.8 | 28.5 | 26.5 | 29.9 | 30.9 |
| 24 | 29.4 | 27.2 | 30.0 | 26.7 | 30.1 | 31.9 |
| 25 | 29.8 | 30.0 | 32.7 | 27.7 | 33.4 | 33.9 |
| 26 | 29.0 | 29.3 | 31.7 | 25.1 | 32.1 | 33.2 |
| 27 | 27.7 | 25.8 | 28.9 | 26.2 | 31.2 | 31.8 |
| 28 | 28.9 | 27.3 | 29.8 | 27.5 | 31.0 | 33.0 |
| 29 | 30.6 | 27.6 | 31.3 | 27.5 | 31.1 | 32.3 |
| 30 | 32.1 | 28.6 | 32.0 | 28.9 | 31.8 | 32.4 |
| 31 | 33.6 | 31.2 | 32.9 | 30.1 | 32.7 | 32.6 |
| MEANS | 25.0 | 23.9 | 26.6 | 23.0 | 27.5 | 28.7 |
| departure from normal | .... | 0.0 | +0.2 | -0.8 | -0.8 | +0.3 |

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

T I M E : G.M.T.

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

MAY 1964 .
TABLE 1-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURS ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانيه | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 21.6 | 22.4 | 20.9 | 21.0 | 22.3 | 23.5 |
| 2 | 25.2 | 23.2 | 22.0 | 21.7 | 22.2 | 23.0 |
| 3 | 24.0 | 25.6 | 24.6 | 25.1 | 24.7 | 23.9 |
| 4 | 25.8 | 26.6 | 24.5 | 25.8 | 26.1 | 25.6 |
| 5 | 26.1 | 26.6 | 24.4 | 25.5 | 26.8 | 26.9 |
| 6 | 28.0 | 28.4 | 26.4 | 26.4 | 26.7 | 27.8 |
| 7 | 30.1 | 28.5 | 27.5 | 27.6 | 28.7 | 27.6 |
| 8 | 31.6 | 30.8 | 29.9 | 28.8 | 30.4 | 31.7 |
| 9 | 28.5 | 32.8 | 30.4 | 31.6 | 31.9 | 34.4 |
| 10 | 27.9 | 32.5 | 29.2 | 29.9 | 30.8 | 34.1 |
| 11 | 23.9 | 27.0 | 24.5 | 24.0 | 25.7 | 27.3 |
| 12 | 26.5 | 25.8 | 24.2 | 24.3 | 24.8 | 24.8 |
| 13 | 29.8 | 28.8 | 26.7 | 26.9 | 26.7 | 26.6 |
| 14 | 30.0 | 30.0 | 28.2 | 26.9 | 28.5 | 28.5 |
| 15 | 31.9 | 29.7 | 30.3 | 29.5 | 30.4 | 29.9 |
| 16 | 30.6 | 32.5 | 31.3 | 30.7 | 32.6 | 33.5 |
| 17 | 26.7 | 28.7 | 26.0 | 26.3 | 28.2 | 28.6 |
| 18 | 30.1 | 28.6 | 27.9 | 26.9 | 26.9 | 26.7 |
| 19 | 30.2 | 30.5 | 28.8 | 27.9 | 28.5 | 28.2 |
| 20 | 32.6 | 32.7 | 31.2 | 32.2 | 31.0 | 30.2 |
| 21 | 35.8 | 33.4 | 33.9 | 32.9 | 33.2 | 33.0 |
| 22 | 30.9 | 34.1 | 32.1 | 32.7 | 33.0 | 33.0 |
| 23 | 32.8 | 34.9 | 31.1 | 31.9 | 32.7 | 32.3 |
| 24 | 32.4 | 31.0 | 30.9 | 32.0 | 32.0 | 32.5 |
| 25 | 32.2 | 34.5 | 33.5 | 33.7 | 33.6 | 33.2 |
| 26 | 31.5 | 31.8 | 31.7 | 32.4 | 33.2 | 33.8 |
| 27 | 33.7 | 31.1 | 31.7 | 32.9 | 33.7 | 32.8 |
| 28 | 34.2 | 33.9 | 32.5 | 33.6 | 33.9 | 33.2 |
| 29 | 35.4 | 34.1 | 33.0 | 32.6 | 32.4 | 32.6 |
| 30 | 36.5 | 33.9 | 34.0 | 32.5 | 31.9 | 31.9 |
| 31 | 38.1 | 35.5 | 34.3 | 33.2 | 34.2 | 32.4 |
| MEANS | 30.2 | 30.3 | 29.0 | 29.0 | 29.6 | 29.8 |
| departure from normal | .... | -1.0 | .... | -0.8 | 0.0 | +0.6 |

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

MAY 1964.
TABLE 2.

مايس ١٩٦٤

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1014.5 | 1014.3 | 1014.0 | 1015.4 | 1014.3 | 1014.3 |
| 2 | 14.6 | 14.7 | 14.1 | 13.1 | 13.4 | 13.7 |
| 3 | 11.6 | 11.9 | 11.5 | 11.9 | 11.3 | 11.6 |
| 4 | 13.3 | 13.5 | 13.3 | 14.1 | 13.4 | 13.2 |
| 5 | 13.1 | 13.6 | 12.5 | 11.9 | 11.1 | 11.0 |
| 6 | 08.4 | 08.3 | 07.1 | 09.5 | 06.6 | 05.8 |
| 7 | 07.9 | 08.9 | 09.0 | 09.0 | 08.1 | 08.6 |
| 8 | 06.8 | 07.8 | 07.5 | 07.4 | 06.3 | 06.4 |
| 9 | 10.6 | 10.7 | 09.1 | 11.0 | 07.9 | 07.7 |
| 10 | 05.5 | 06.7 | 06.5 | 10.1 | 07.2 | 07.1 |
| 11 | 14.0 | 13.6 | 13.5 | 15.0 | 14.2 | 13.8 |
| 12 | 13.5 | 13.4 | 13.1 | 13.4 | 13.0 | 12.3 |
| 13 | 11.4 | 11.3 | 10.7 | 09.7 | 09.8 | 10.1 |
| 14 | 11.0 | 10.6 | 10.2 | 10.9 | 10.0 | 10.1 |
| 15 | 09.8 | 10.1 | 09.7 | 09.2 | 08.3 | 08.9 |
| 16 | 08.5 | 08.6 | 07.4 | 10.9 | 07.5 | 07.0 |
| 17 | 14.8 | 14.3 | 14.6 | [illegible] | 15.3 | 15.0 |
| 18 | 14.7 | 14.6 | 14.4 | 14.9 | 14.4 | 14.0 |
| 19 | 11.2 | 12.1 | 10.1 | 10.2 | 09.9 | 09.7 |
| 20 | 06.1 | 06.4 | 05.6 | 04.9 | 04.1 | 04.5 |
| 21 | 05.4 | 05.7 | 04.7 | 06.1 | 04.1 | 04.2 |
| 22 | 11.4 | 11.2 | 10.9 | 11.9 | 10.5 | 10.0 |
| 23 | 12.0 | 12.1 | 11.6 | 11.3 | 11.0 | 10.9 |
| 24 | 10.5 | 10.5 | 10.0 | 08.1 | 09.1 | 09.3 |
| 25 | 05.4 | 05.8 | 05.2 | 05.3 | 03.6 | 04.5 |
| 26 | 05.6 | 05.6 | 05.2 | 07.8 | 05.2 | 05.4 |
| 27 | 08.5 | 09.1 | 08.9 | 09.3 | 07.9 | 07.6 |
| 28 | 07.7 | 08.3 | 07.9 | 09.1 | 07.2 | 07.0 |
| 29 | 07.8 | 08.0 | 07.0 | 09.0 | 07.3 | 07.1 |
| 30 | 07.2 | 07.6 | 06.8 | 08.4 | 06.9 | 06.8 |
| 31 | 06.4 | 06.9 | 06.0 | 06.8 | 06.1 | 06.2 |
| MEANS | 1010.0 | 1010.2 | 1009.6 | 1010.4 | 1009.2 | 1009.2 |
| departure from normal | .... | 0.0 | +1.5 | +0.1 | +0.6 | +0.9 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1016.7 | 17th | 1800 | 1964 | 1002.9 | 10th | 1200 | 1964 | 1964 |
| MOSUL | 1017.0 | 18th | 0300 | 1964 | 1002.8 | 25th | 1500 | 1964 | |
| KIRKUK | 1016.7 | 18th | 0300 | 1964 | 1002.5 | 25th | 1500 | 1964 | |
| RUTBAH | 1017.9 | 1st | 0600 | 1964 | 1003.8 | 20th | 1200 | 1964 | |
| HABBANIYA | 1016.3 | 17th | 0600 | 1964 | 1001.6 | 25th | 1500 | 1964 | |
| BAGHDAD | 1016.1 | 17th | 0900 | 1964 | 1002.1 | 20th | 1500 | 1964 | |
| SINJAR | 1016.7 | 17th | 1800 | 1964 | 996.7 | 24th | 1500 | 1962 | RECORD |
| MOSUL | 1021.8 | 2nd | 0600 | 1948 | 995.7 | 3rd | 1200 | 1946 | |
| KIRKUK | 1019.1 | 2nd | 0600 | 1948 | 995.0 | 25th | 1200 | 1962 | |
| RUTBAH | 1023.3 | 6th | 0600 | 1944 | 997.4 | 1st | 1200 | 1946 | |
| BAGHDAD | 1019.4 | 5th | 0600 | 1940 | 996.8 | 25th | 0000 | 1962 | |

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TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر ( ملليبارات )

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

| الأيام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1014.6 | 1011.2 | 1014.4 | 1014.3 | 1013.1 | 1013.0 |
| 2 | 12.9 | 11.2 | 13.2 | 13.6 | 13.0 | 13.4 |
| 3 | 10.0 | 10.0 | 11.4 | 11.8 | 11.6 | 12.6 |
| 4 | 13.8 | 10.3 | 13.1 | 13.0 | 11.7 | 12.5 |
| 5 | 09.9 | 09.6 | 09.8 | 10.2 | 09.1 | 09.5 |
| 6 | 06.9 | 03.9 | 05.4 | 05.3 | 03.9 | 04.6 |
| 7 | 07.7 | 08.6 | 08.4 | 08.8 | 08.5 | 09.4 |
| 8 | 05.0 | 06.9 | 05.8 | 06.3 | 06.6 | 08.4 |
| 9 | 08.8 | 07.7 | 07.0 | 07.0 | 07.4 | 08.2 |
| 10 | 08.4 | 07.9 | 07.7 | 07.8 | 07.7 | 08.5 |
| 11 | 15.0 | 10.2 | 13.9 | 13.9 | 12.5 | 11.5 |
| 12 | 11.8 | 10.1 | 12.4 | 12.3 | 11.3 | 10.9 |
| 13 | 08.9 | 08.7 | 09.8 | 09.8 | 09.3 | 09.7 |
| 14 | 11.3 | 10.2 | 10.4 | 10.9 | 10.3 | 10.9 |
| 15 | 07.5 | 08.9 | 08.5 | 08.8 | 08.8 | 09.3 |
| 16 | 08.4 | 06.9 | 07.0 | 07.4 | 06.7 | 07.4 |
| 17 | 15.4 | 13.2 | 12.5 | 14.5 | 12.9 | 12.0 |
| 18 | 14.7 | 12.4 | 14.5 | 13.9 | 12.8 | 12.7 |
| 19 | 09.6 | 08.5 | 08.6 | 09.6 | 08.9 | 09.1 |
| 20 | 03.2 | 04.3 | 03.8 | 04.5 | 04.6 | 05.4 |
| 21 | 04.2 | 06.0 | 03.9 | 04.7 | 04.4 | 05.4 |
| 22 | 11.1 | 07.8 | 08.9 | 09.0 | 07.4 | 07.4 |
| 23 | 10.4 | 07.6 | 10.2 | 10.2 | 09.2 | 09.3 |
| 24 | 07.6 | 09.0 | 08.5 | 08.9 | 08.3 | 08.5 |
| 25 | 04.4 | 05.8 | 04.6 | 05.3 | 05.9 | 06.5 |
| 26 | 06.0 | 06.4 | 05.5 | 05.8 | 05.8 | 06.5 |
| 27 | 07.7 | 06.0 | 06.7 | 06.9 | 06.0 | 06.5 |
| 28 | 06.5 | 05.7 | 06.0 | 06.4 | 05.6 | 06.0 |
| 29 | 08.4 | 06.1 | 06.9 | 07.1 | 06.4 | 06.4 |
| 30 | 07.3 | 05.8 | 06.6 | 06.9 | 06.2 | 06.1 |
| 31 | 06.5 | 05.8 | 06.0 | 06.5 | 05.8 | 05.9 |
| MEANS | 1009.4 | 1008.2 | 1008.8 | 1009.1 | 1008.4 | 1008.8 |
| departure from normal | .... | +0.5 | .... | +1.6 | +1.0 | +1.6 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1016.9 | 18th | 0600 | 1964 | 1000.6 | 24th | 1500 | 1964 | 1964 |
| HAI | 1014.4 | 18th | 0600 | 1964 | 1002.3 | 20th | 1500 | 1964 | |
| NAJAF | 1016.3 | 18th | 0600 | 1964 | 1001.1 | 20th | 1500 | 1964 | |
| DIWANIYA | 1015.9 | 18th | 0600 | 1964 | 1002.7 | 6th | 1200 | 1964 | |
| NASIRIYA | 1015.0 | 18th | 0600 | 1964 | 1001.9 | 6th | 1200 | 1964 | |
| BASRAH | 1014.4 | 18th | 0600 | 1964 | 1002.9 | 6th | 0900 | 1964 | |
| NUKHAIB | 1016.9 | 18th | 0600 | 1964 | 1000.6 | 24th | 1500 | 1964 | RECORD |
| HAI | 1019.2 | 1st | 0600 | 1948 | 997.5 | 31st | 1500 | 1958 | |
| NAJAF | 1016.3 | 18th | 0600 | 1964 | 997.7 | 28th | 1500 | 1963 | |
| DIWANIYA | 1019.6 | 5th | 0600 | 1940 | 996.2 | 3rd | 0000 | 1946 | |
| NASIRIYA | 1018.3 | 1st | 0600 | 1948 | 997.2 | 3rd | 0000 | 1948 | |
| BASRAH | 1019.0 | 5th | 0600 | 1940 | 997.7 | 3rd | 0000 | 1959 | |

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TABLE -3

المعدل اليومي للرطوبة النسبية ( ٪ ) ( ٨ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| الايام DATE | سنجار SIN-JAR | موصل MO-SUL | كركوك KIR-KUK | رطبة RUT-BAH | حبانية HABB-ANIYA | بغداد BAG-HDAD | نكيب NUK-HAIB | حي HAI | نجف NA-JAF | ديوانية DIWA-NIYA | ناصرية NASI-RIYA | بصرة BAS-RAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 44 | 65 | 47 | 41 | 45 | 35 | 28 | 36 | 47 | 41 | 40 | 47 |
| 2 | 32 | 58 | 38 | 29 | 44 | 32 | 16 | 34 | 42 | 37 | 40 | 45 |
| 3 | 27 | 52 | 29 | 28 | 37 | 28 | 9 | 33 | 49 | 30 | 34 | 52 |
| 4 | 29 | 49 | 33 | 35 | 46 | 24 | 21 | 31 | 40 | 30 | 34 | 45 |
| 5 | 23 | 53 | 32 | 32 | 39 | 22 | 14 | 30 | 37 | 29 | 27 | 44 |
| 6 | 25 | 47 | 31 | 34 | 31 | 22 | 16 | 30 | 28 | 28 | 38 | [illegible] |
| 7 | 25 | 50 | 27 | 26 | 36 | 25 | 11 | 35 | 30 | 36 | 33 | 50 |
| 8 | 26 | 43 | 20 | 26 | 30 | 23 | 8 | 27 | 26 | 34 | 23 | 37 |
| 9 | 28 | 44 | 29 | 32 | 38 | 28 | 19 | 25 | 28 | 31 | 26 | 42 |
| 10 | 26 | 38 | 18 | 28 | 27 | 29 | 12 | 32 | 23 | 32 | 37 | 51 |
| 11 | 55 | 56 | 36 | 38 | 37 | 29 | 22 | 28 | 26 | 32 | 36 | 59 |
| 12 | 31 | 49 | 38 | 28 | 42 | 34 | 21 | 35 | 36 | 36 | 48 | 68 |
| 13 | 25 | 43 | 30 | 19 | 39 | 27 | 12 | 28 | 35 | 33 | 37 | 65 |
| 14 | 29 | 34 | 21 | 22 | 33 | 26 | 12 | 24 | 31 | 28 | 31 | 56 |
| 15 | 20 | 38 | 17 | 16 | 27 | 20 | 8 | 33 | 21 | 26 | 26 | 54 |
| 16 | 22 | 33 | 19 | 29 | 25 | 19 | 14 | 29 | 21 | 25 | 30 | 34 |
| 17 | 36 | 44 | 32 | 32 | 37 | 26 | 19 | 28 | 29 | 29 | 34 | 39 |
| 18 | 31 | 44 | 30 | 24 | 35 | 27 | 16 | 29 | 30 | 32 | 38 | 47 |
| 19 | 24 | 41 | 28 | 21 | 33 | 27 | 16 | 27 | 30 | 34 | 39 | [illegible] |
| 20 | 20 | 43 | 20 | 18 | 29 | 25 | 19 | 30 | 28 | 24 | 34 | 50 |
| 21 | 21 | 37 | 17 | 23 | 27 | 23 | 24 | 35 | 24 | 29 | 31 | 40 |
| 22 | 35 | 35 | 28 | 31 | 29 | 21 | 29 | 23 | 20 | 21 | 30 | 47 |
| 23 | 34 | 36 | 23 | 25 | 30 | 19 | 29 | 17 | 26 | 27 | 22 | 47 |
| 24 | 31 | 37 | 20 | 24 | 33 | 19 | 31 | 32 | 28 | 26 | 33 | 49 |
| 25 | 32 | 32 | 18 | 25 | 28 | 21 | 15 | 23 | 26 | 25 | 30 | 38 |
| 26 | 31 | 27 | 21 | 29 | 30 | 25 | 16 | 34 | 40 | 38 | 31 | 46 |
| 27 | 32 | 37 | 25 | 26 | 22 | 25 | 13 | 37 | 39 | 32 | 34 | 49 |
| 28 | 31 | 33 | 20 | 22 | 34 | 18 | 11 | 26 | 30 | 24 | 27 | 42 |
| 29 | 31 | 36 | 18 | 21 | 35 | 20 | 11 | 26 | 27 | 26 | 35 | 45 |
| 30 | 28 | 33 | 18 | 18 | 34 | 22 | 13 | 24 | 22 | 29 | 33 | 49 |
| 31 | 22 | 28 | 16 | 18 | 38 | 24 | 9 | 23 | 23 | 28 | 20 | 50 |
| MEANS | 29 | 42 | 26 | 26 | 35 | 25 | 17 | 29 | 31 | 30 | 33 | 48 |
| NORMAL | | | | | | | | | | | | |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 74 | 0300 | 11th | 14 | 1500 | 15th |
| MOSUL | 92 | 0000 | 1st | 13 | 1200 | 10th |
| KIRKUK | 71 | 00000 | 1st | 6 | 1200 | 30ty |
| RUTBAH | 74 | 0300 | 1st | 7 | 1500 | 19th |
| HABBANIYA | 73 | 0300 | 3rd | 7 | 0900 | 15th |
| BAGHDAD | 60 | 0300 | 2nd | 8 | 1500 | 30ty |
| NUKHAIB | 48 | 0600 | 1st | 3 | 1200 | 8th |
| HAI | 65 | 0300 | 27th | 14 | 1200 | 9th |
| NAJAF | 77 | 0300 | 4th | 9 | 1500 | 30ty |
| DIWANIYA | 68 | 0300 | 2nd | 9 | 1200 | 16th |
| NASIRIYA | 70 | 0300 | 4th | 7 | 1500 | 8th |
| BASRAH | 94 | 0000 | 14th | 7 | 1200 | 16th |

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TABLE 4-a.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEPERATURES ( C°)

| الايام | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 19.3 | 4.3 | 22.8 | 8.4 | 23.0 | 6.7 | 25.0 | 14.4 | 22.3 | 9.2 |
| 2 | 23.5 | 8.3 | 25.0 | 8.0 | 25.5 | 9.6 | 27.2 | 10.0 | 27.0 | 8.0 |
| 3 | 24.6 | 9.2 | 27.0 | 8.2 | 29.2 | 10.6 | 31.1 | 11.7 | 26.8 | 11.8 |
| 4 | 22.0 | 9.1 | 26.8 | 9.6 | 27.5 | 10.6 | 29.4 | 13.3 | 27.0 | 10.8 |
| 5 | 25.3 | 12.2 | 27.2 | 8.2 | 27.0 | 11.2 | 28.3 | 12.2 | 24.5 | 12.8 |
| 6 | 25.0 | 14.0 | 28.7 | 14.2 | 30.7 | 16.4 | 33.9 | 16.7 | 27.0 | 14.8 |
| 7 | 28.3 | 13.0 | 32.2 | 10.7 | 31.5 | 12.6 | 32.2 | 15.6 | 30.4 | 12.0 |
| 8 | 29.0 | 15.8 | 31.8 | 17.2 | 34.8 | 27.7 | 37.2 | 17.8 | 29.4 | 13.6 |
| 9 | 26.5 | 13.0 | 31.6 | 15.0 | 35.0 | 14.5 | 38.3 | 20.0 | 27.0 | 11.3 |
| 10 | 29.[illegible] | 17.0 | 36.2 | 14.3 | 37.4 | 21.0 | 39.4 | 27.8 | 25.2 | 13.0 |
| 11 | 20.0 | 8.3 | 24.0 | 10.8 | 25.5 | 13.1 | 28.9 | 16.7 | 23.4 | 12.4 |
| 12 | 24.5 | 12.0 | 28.6 | 11.2 | 28.0 | 8.8 | 30.6 | 12.8 | 28.5 | 10.0 |
| 13 | 28.0 | 12.5 | 31.2 | 10.8 | 30.9 | 12.8 | 32.8 | 13.3 | 30.6 | 12.7 |
| 14 | 28.3 | 14.2 | 33.6 | 19.2 | 34.2 | 14.9 | 36.7 | 17.2 | 31.0 | 13.5 |
| 15 | 31.2 | 13.0 | 35.0 | 14.2 | 35.7 | 16.4 | 36.7 | 17.8 | 31.3 | 16.5 |
| 16 | 30.1 | 17.8 | 34.2 | 17.2 | 37.1 | 17.8 | 38.9 | 18.9 | 28.3 | 14.4 |
| 17 | 25.5 | 9.5 | 29.2 | 16.0 | 29.2 | 13.4 | 31.5 | 18.9 | 26.5 | 11.7 |
| 18 | 28.0 | 15.5 | 31.0 | 13.4 | 31.4 | 13.0 | 32.8 | 13.9 | 31.0 | 11.6 |
| 19 | 29.6 | 17.2 | 33.3 | 14.8 | 33.7 | 15.4 | 35.6 | 16.7 | 32.6 | 14.0 |
| 20 | 32.5 | 17.8 | 36.4 | 14.6 | 36.6 | 17.5 | 38.9 | 18.9 | 35.5 | 18.9 |
| 21 | 32.8 | 22.1 | 35.8 | 19.4 | 38.5 | 18.8 | 40.0 | 22.2 | 35.3 | 15.6 |
| 22 | 28.5 | 17.0 | 33.4 | 19.3 | 34.0 | 15.3 | 36.1 | 23.9 | 31.2 | 15.6 |
| 23 | 31.6 | 20.0 | 35.0 | 14.8 | 35.2 | 16.8 | 37.2 | 17.8 | 34.2 | 15.8 |
| 24 | 33.3 | 20.1 | 37.2 | 16.3 | 37.1 | 18.6 | 37.2 | 20.0 | 36.0 | 18.3 |
| 25 | 34.2 | 22.0 | 38.2 | 17.4 | 38.4 | 21.2 | 40.0 | 25.6 | 36.0 | 21.0 |
| 26 | 32.5 | 21.8 | 37.6 | 22.6 | 36.6 | 24.0 | 38.9 | 31.7 | 32.4 | 17.2 |
| 27 | 31.2 | 20.5 | 35.2 | 15.4 | 35.8 | 18.0 | 38.0 | 22.2 | 34.1 | 16.2 |
| 28 | 32.3 | 19.2 | 37.0 | 14.4 | 36.8 | 19.2 | 37.8 | 19.4 | 33.5 | 19.2 |
| 29 | 34.0 | 19.4 | 37.2 | 15.8 | 37.9 | 18.6 | 38.3 | 21.7 | 35.6 | 17.3 |
| 30 | 35.6 | 24.0 | 38.2 | 14.4 | 39.0 | 19.2 | 40.0 | 20.0 | 37.6 | 18.0 |
| 31 | 36.7 | 25.8 | 39.8 | 20.0 | 40.1 | 21.0 | 40.6 | 20.6 | 39.2 | 17.2 |
| MEANS | 28.8 | 15.7 | 32.6 | 14.2 | 33.3 | 15.6 | 35.1 | 18.4 | 30.7 | 14.3 |
| departure from normal | .... | .... | -0.5 | -0.1 | -0.1 | -3.2 | +0.2 | -0.5 | -0.8 | -1.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 38.1 | 31 st | 1962 | 4.3 | 1 st | 1964 |
| MOSUL | 44.1 | 31 st | 1955 | 6.1 | 1 st | 1948 |
| KIRKUK | 43.3 | 7th | 1942 | 6.7 | 1 st | 1964 |
| KHANAQIN | 44.0 | 29th | 1960 | 8.3 | 1 st | 1948 |
| RUTBAH | 42.4 | 7th | 1942 | 5.6 | 1 st | 1948 |

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 26.3 | 13.8 | 26.2 | 11.8 | 25.1 | 10.6 | 37.3 | 14.0 |
| 2 | 28.4 | 11.8 | 28.5 | 10.2 | 28.4 | 11.0 | 29.8 | 11.0 |
| 3 | 24.5 | 11.7 | 32.8 | 13.2 | 33.5 | 10.2 | 33.0 | 13.0 |
| 4 | 30.6 | 13.6 | 30.3 | 19.4 | 29.8 | 9.8 | 33.2 | 15.2 |
| 5 | 30.7 | 15.7 | 29.2 | 18.0 | 28.0 | 11.5 | 32.0 | 15.3 |
| 6 | 32.9 | 18.8 | 34.2 | 20.3 | 31.4 | 14.2 | 36.0 | 15.0 |
| 7 | 34.4 | 16.6 | 34.4 | 15.8 | 33.3 | 15.2 | 35.0 | 19.0 |
| 8 | 3 8.1 | 20.1 | 37.0 | 20.8 | 35.6 | 17.5 | 37.1 | 18.6 |
| 9 | 38.9 | 19.0 | 38.6 | 20.6 | 33.6 | 16.8 | 40.2 | 20.2 |
| 10 | 34.7 | 18.8 | 36.8 | 20.3 | 30.6 | 13.8 | 37.0 | 24.2 |
| 11 | 27.6 | 15.6 | 28.7 | 14.7 | 27.4 | 14.2 | 31.5 | 19.8 |
| 12 | 30.6 | 14.2 | 31.2 | 15.3 | 29.8 | 10.5 | 32.6 | 16.0 |
| 13 | 35.2 | 16.4 | 33.8 | 14.8 | 34.1 | 12.2 | 35.0 | 15.7 |
| 14 | 34.9 | 17.0 | 35.7 | 17.6 | 34.0 | 17.0 | 36.8 | 15.7 |
| 15 | 38.8 | 17.5 | 37.9 | 17.1 | 37.3 | 15.0 | 37.7 | 16.9 |
| 16 | 38.8 | 21.8 | 40.2 | 19.3 | 34.4 | 18.0 | 39.6 | 20.4 |
| 17 | 30.6 | 17.8 | 30.8 | 19.2 | 30.6 | 16.4 | 33.6 | 22.2 |
| 18 | 34.0 | 16.6 | 34.5 | 19.3 | 32.6 | 13.8 | 34.6 | 18.7 |
| 19 | 35.9 | 18.6 | 36.8 | 20.2 | 35.4 | 17.0 | 37.1 | 18.0 |
| 20 | 41.6 | 19.6 | 39.8 | 20.6 | 39.0 | 18.2 | 40.2 | 20.0 |
| 21 | 42.0 | 22.2 | 41.5 | 21.5 | 40.0 | 19.5 | 41.6 | 22.7 |
| 22 | 36.0 | 21.3 | 37.3 | 25.0 | 35.0 | 19.0 | 41.0 | 22.8 |
| 23 | 38.2 | 20.0 | 37.2 | 23.5 | 36.0 | 19.6 | 40.1 | 25.4 |
| 24 | 38.4 | 21.9 | 38.0 | 25.5 | 38.9 | 22.6 | 35.1 | 26.2 |
| 25 | 40.8 | 28.2 | 40.5 | 25.5 | 38.5 | 21.5 | 40.1 | 30.4 |
| 26 | 38.6 | 28.2 | 40.2 | 27.0 | 37.2 | 25.5 | 39.0 | 30.4 |
| 27 | 39.4 | 22.5 | 38.7 | 22.8 | 38.5 | 21.5 | 38.8 | 23.4 |
| 28 | 39.7 | 21.0 | 39.4 | 23.2 | 38.5 | 20.0 | 40.1 | 22.1 |
| 29 | 38.9 | 21.7 | 39.1 | 23.3 | 38.5 | 20.5 | 40.0 | 23.2 |
| 30 | 41.3 | 22.2 | 41.7 | 21.2 | 40.2 | 20.0 | 40.8 | 21.6 |
| 31 | 42.4 | 22.2 | 42.3 | 21.2 | 42.0 | 21.4 | 42.0 | 23.5 |
| MEANS | 35.6 | 18.8 | 35.9 | 19.6 | 34.4 | 16.6 | 37.0 | 19.9 |
| departure from normal | -0.7 | -1.2 | +0.1 | -0.3 | .... | .... | 0.0 | -1.2 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 46.7 | 7th | 1942 | 8.3 | 4th | 1940 |
| BAGHDAD | 44.6 | 28th | 1960 | 10.2 | 2nd | 1964 |
| NUKHAIB | 42.0 | 31st | 1964 | 9.8 | 4th | 1964 |
| HAI | 46.1 | 26th | 1941 | 11.0 | 2nd | 1964 |

مايو ١٩٦٤

MAY 1964 =
TABLE 4-e.

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 16.6 | 15.4 | 28.0 | 14.0 | 28.3 | 17.1 | 28.6 | 20.0 |
| 2 | 28.3 | 13.0 | 29.4 | 10.0 | 29.2 | 13.7 | 28.5 | 15.4 |
| 3 | 34.0 | 16.0 | 34.7 | 11.6 | 33.0 | 13.5 | 30.8 | 16.3 |
| 4 | 32.4 | 16.0 | 33.6 | 17.6 | 33.5 | 18.3 | 32.5 | 16.7 |
| 5 | 31.2 | 16.4 | 32.5 | 16.9 | 34.3 | 17.7 | 31.9 | 21.2 |
| 6 | 34.0 | 16.6 | 35.9 | 15.8 | 34.8 | 17.5 | 37.1 | 20.2 |
| 7 | 34.2 | 19.5 | 34.6 | 16.7 | 35.0 | 21.8 | 34.5 | 21.2 |
| 8 | 37.0 | 20.4 | 37.0 | 19.4 | 39.8 | 22.1 | 41.3 | 21.5 |
| 9 | 38.8 | 21.0 | 40.0 | 19.8 | 39.0 | 22.3 | 43.8 | 23.6 |
| 10 | 37.2 | 21.8 | 39.0 | 22.0 | 44.0 | 26.8 | 43.3 | 28.6 |
| 11 | 28.2 | 17.2 | 29.5 | 17.2 | 30.2 | 22.9 | 31.9 | 24.6 |
| 12 | 30.8 | 16.0 | 32.4 | 14.6 | 30.9 | 20.0 | 30.5 | 20.5 |
| 13 | 34.6 | 17.4 | 36.0 | 16.1 | 35.2 | 16.6 | 33.3 | 19.4 |
| 14 | 34.4 | 19.8 | 36.2 | 16.7 | 36.2 | 18.9 | 35.0 | 21.8 |
| 15 | 38.4 | 19.8 | 38.8 | 18.6 | 40.0 | 19.6 | 39.2 | 21.7 |
| 16 | 39.4 | 22.5 | 40.4 | 19.0 | 40.2 | 23.6 | 43.5 | 21.8 |
| 17 | 31.0 | 20.7 | 33.3 | 20.6 | 33.2 | 24.9 | 33.9 | 24.8 |
| 18 | 33.5 | 18.5 | 35.0 | 16.5 | 32.4 | 21.8 | 32.5 | 22.0 |
| 19 | 36.4 | 19.0 | 37.6 | 15.8 | 35.4 | 19.0 | 34.8 | 21.4 |
| 20 | 40.0 | 19.0 | 41.0 | 21.6 | 40.0 | 20.6 | 39.6 | 21.5 |
| 21 | 41.4 | 21.0 | 43.0 | 19.3 | 42.7 | 25.3 | 43.4 | 22.3 |
| 22 | 38.0 | 26.0 | 40.2 | 26.2 | 39.8 | 26.5 | 42.7 | 25.4 |
| 23 | 39.3 | 23.0 | 40.2 | 24.0 | 39.9 | 26.6 | 38.8 | 27.0 |
| 24 | 37.5 | 24.6 | 39.0 | 26.6 | 38.2 | 27.3 | 38.8 | 24.8 |
| 25 | 41.3 | 25.8 | 41.4 | 25.5 | 41.0 | 25.4 | 42.2 | 26.5 |
| 26 | 39.4 | 27.0 | 41.5 | 27.7 | 40.2 | 29.8 | 38.9 | 28.4 |
| 27 | 39.4 | 22.0 | 41.5 | 24.8 | 40.0 | 29.3 | 39.6 | 28.8 |
| 28 | 40.2 | 23.0 | 41.2 | 26.1 | 41.1 | 26.6 | 41.0 | 26.4 |
| 29 | 39.4 | 26.1 | 40.5 | 23.6 | 40.4 | 24.0 | 39.4 | 27.4 |
| 30 | 41.4 | 24.0 | 41.5 | 23.0 | 40.2 | 23.1 | 37.9 | 24.3 |
| 31 | 42.6 | 26.0 | 42.5 | 22.1 | 42.7 | 23.4 | 39.6 | 25.2 |
| MEANS | 35.8 | 20.5 | 37.3 | 19.7 | 37.0 | 22.1 | 37.1 | 22.9 |
| departure from normal | .... | .... | +0.6 | +0.2 | +0.1 | -0.3 | +1.2 | -1.0 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 42.6 | 31st | 1964 | 13.0 | 2nd | 1964 |
| DIWANIYA | 45.6 | 12th | 1941 | 7.8 | 1st | 1948 |
| NASIRIYA | 46.2 | 24th | 1962 | 11.6 | 1st | 1948 |
| BASRAH | 45.6 | 23rd | 1951 | 8.9 | 1st | 1952 |

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TABLE 5.

المعدل الشهري لدرجات الحرارة الجافة ( سنتغراد )

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | | | TIME - G.M.T. | | | | | | |
| SINJAR | .... | 20.2 | 24.9 | 25.7 | 20.2 | 27.6 | [illegible] | .... | 25.2 |
| MOSUL | 16.5 | 15.5 | 23.4 | 30.2 | 31.8 | 30.0 | 21.0 | 29.7 | 23.9 |
| KIRKUK | 20.8 | 20.3 | 27.5 | 32.1 | 32.8 | 31.4 | 25.8 | 25.2 | 26.6 |
| KHANAQIN | .... | 20.0 | 29.0 | 33.4 | 34.7 | 32.9 | 27.4 | .... | 29.2 |
| RUTBAH | 16.6 | 15.2 | 23.5 | 27.9 | 30.0 | 28.7 | 23.5 | 19.8 | 23.0 |
| HABBANIYA | 20.5 | 19.8 | 27.6 | 33.6 | 35.1 | 33.9 | 28.6 | 23.5 | 27.5 |
| BAGHDAD | 22.6 | 21.0 | 28.6 | 33.8 | 35.3 | 33.7 | 29.9 | 25.8 | 28.7 |
| NUKHAIB | .... | .... | 25.5 | 30.8 | 33.4 | 32.7 | .... | .... | 30.6 |
| HAI | .... | 20.9 | 29.8 | 30.2 | 35.0 | 32.4 | 27.1 | .... | 30.2 |
| NAJAF | 23.0 | 20.0 | 25.5 | 33.8 | 35.7 | 34.5 | 29.6 | 23.8 | 28.8 |
| DIWANIYA | 21.7 | 20.7 | 30.6 | 35.8 | 36.8 | 34.1 | 27.7 | 24.9 | 29.0 |
| NASIRIYA | 24.6 | 23.1 | 29.2 | 34.2 | 35.6 | 33.9 | 29.3 | 26.4 | 29.6 |
| BASRAH | 24.7 | 23.7 | 30.6 | 35.1 | 35.7 | 33.0 | 29.3 | 26.7 | 29.8 |

TABLE 6.

المعدل الشهري لضغط البخار ( بالملي بار )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 8.5 | 9.4 | 9.2 | 8.8 | 9.1 | 8.4 | .... | 8.9 |
| MOSUL | 11.1 | 11.2 | 12.0 | 11.8 | 10.5 | 10.1 | 10.9 | 11.3 | 11.1 |
| KIRKUK | 8.4 | 8.6 | 8.9 | 7.4 | 5.7 | 6.8 | [illegible] | [illegible] | 7.9 |
| KHANAQIN | .... | 8.0 | 9.7 | 8.5 | 9.1 | 8.4 | [illegible] | .... | [illegible] |
| RUTBAH | 7.0 | 7.2 | 7.9 | 7.1 | 5.9 | 5.8 | [illegible] | 6.6 | 6.8 |
| HABBANIYA | 11.7 | 11.7 | 12.0 | 10.4 | 9.8 | 10.8 | [illegible] | 11.9 | [illegible] |
| BAGHDAD | 8.8 | 9.2 | 10.4 | 8.0 | 7.9 | 6.0 | [illegible] | [illegible] | [illegible] |
| NUKHAIB | .... | .... | 7.8 | 5.9 | 6.0 | 4.5 | .... | .... | 5.4 |
| HAI | .... | 11.6 | 12.2 | 11.3 | [illegible] | 11.3 | [illegible] | .... | 11.9 |
| NAJAF | 11.6 | 11.3 | 10.4 | [illegible] | 10.8 | 11.0 | [illegible] | 11.7 | [illegible] |
| DIWANIYA | 10.8 | 11.1 | 12.1 | 11.2 | 10.7 | 10.7 | [illegible] | 11.5 | 11.2 |
| NASIRIYA | 12.8 | 12.8 | 12.3 | 11.3 | 11.9 | 12.0 | 11.8 | 11.4 | 12.0 |
| BASRAH | 19.1 | 18.2 | 19.3 | 18.6 | 18.8 | 20.2 | [illegible] | 19.4 | 19.2 |

TABLE 7.

المعدل الشهري لدرجات الحرارة الرطبة ( سنتغراد )

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 12.5 | 14.7 | 15.7 | 16.2 | 15.8 | 15.0 | .... | 14.8 |
| MOSUL | 12.4 | 11.9 | 16.0 | 18.0 | 18.3 | 17.5 | 15.2 | 13.9 | 15.4 |
| KIRKUK | 12.7 | 12.8 | 15.9 | 16.6 | 16.8 | 16.4 | 14.9 | 13.7 | 15.0 |
| KHANAQIN | .... | 12.1 | 17.2 | 18.0 | 18.8 | 17.7 | 15.8 | .... | 15.6 |
| RUTBAH | 10.0 | 9.4 | 13.3 | 15.0 | 15.4 | 14.6 | 12.9 | 11.3 | 12.7 |
| HABBANIYA | 14.4 | 14.1 | 17.6 | 19.0 | 19.3 | 19.0 | 17.3 | 15.4 | 17.0 |
| BAGHDAD | 13.8 | 13.3 | 17.0 | 17.9 | 18.5 | 17.7 | 16.4 | 15.7 | 16.3 |
| NUKHAIB | .... | .... | 14.3 | 16.2 | 16.9 | 16.4 | .... | .... | 15.9 |
| HAI | .... | 14.5 | 19.1 | 19.9 | 20.2 | 19.5 | 17.2 | .... | 18.4 |
| NAJAF | 15.4 | 14.4 | 17.4 | 19.4 | 19.9 | 19.8 | 17.8 | 16.3 | 17.6 |
| DIWANIYA | 14.4 | 14.1 | 18.7 | 20.1 | 20.2 | 19.2 | 17.1 | 16.0 | 18.0 |
| NASIRIYA | 16.6 | 16.0 | 18.2 | 19.6 | 20.4 | 20.2 | 19.4 | 18.3 | 18.6 |
| BASRAH | 19.6 | 18.9 | 21.7 | 22.9 | 23.2 | 22.9 | 21.7 | 20.5 | 21.4 |

TABLE 8.

المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 4.6 | 5.5 | 5.7 | 5.2 | 5.0 | 4.3 | .... | 5.1 |
| MOSUL | 8.5 | 8.6 | 9.7 | 9.4 | 7.2 | 7.0 | 8.3 | 8.7 | 8.4 |
| KIRKUK | 4.1 | 5.0 | 5.1 | 2.3 | 0.8 | 1.1 | 4.1 | 3.8 | [illegible] |
| KHANAQIN | .... | 3.5 | 6.3 | 4.5 | 5.4 | 4.2 | 5.0 | .... | 4.8 |
| RUTBAH | 1.7 | 2.0 | 2.7 | 1.7 | -1.0 | -1.4 | 0.6 | 1.0 | 0.9 |
| HABBANIYA | 9.4 | 9.1 | 9.5 | 10.2 | 6.3 | 7.8 | 10.0 | 9.1 | 9.9 |
| BAGHDAD | 4.8 | 5.6 | 7.2 | 3.7 | 3.3 | 3.5 | 5.9 | 5.8 | 5.0 |
| NUKHAIB | .... | .... | 2.8 | 1.3 | -0.3 | -0.1 | .... | .... | 0.9 |
| HAI | .... | 8.8 | 11.0 | 8.5 | 8.2 | 9.2 | 9.4 | .... | 9.2 |
| NAJAF | 8.8 | 8.5 | 8.2 | 8.1 | 7.6 | 8.1 | 8.6 | 8.9 | 8.4 |
| DIWANIYA | 7.7 | 8.1 | 9.9 | 8.4 | 7.5 | 7.5 | 8.5 | 8.4 | 8.0 |
| NASIRIYA | 10.2 | 10.2 | 9.7 | 8.4 | 8.9 | 10.1 | 12.3 | 11.8 | 10.[illegible] |
| BASRAH | 16.4 | 15.5 | 16.4 | 15.9 | 15.7 | 17.1 | 17.5 | 16.7 | 16.[illegible] |

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TABLE -9. المعدل الشهري للرطوبة النسبية

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | TIME=G.M.T. 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,, | 37 | 31 | 28 | 24 | 24 | 31 | ,, | 29 |
| MOSUL | 61 | 65 | 43 | 28 | 22 | 24 | 38 | 51 | 42 |
| KIRKUK | 36 | 40 | 26 | 17 | 15 | 16 | 26 | 30 | 26 |
| KHANAQIN | ,, | 35 | 23 | 17 | 17 | 17 | 25 | ,, | 22 |
| RUTBAH | 37 | 43 | 30 | 21 | 14 | 15 | 23 | 29 | 27 |
| HABBANIYA | 49 | 51 | 34 | 20 | 18 | 22 | 36 | 42 | 35 |
| BAGHDAD | 33 | 38 | 26 | 16 | 14 | 15 | 25 | 30 | 24 |
| NUKHAIB | ,, | ,, | 24 | 16 | 12 | 12 | ,, | ,, | 16 |
| HAI | ,, | 47 | 32 | 20 | 19 | 23 | 33 | ,, | 29 |
| NAJAF | 42 | 46 | 29 | 22 | 19 | 21 | 29 | 36 | 31 |
| DIWANIYA | 42 | 46 | 28 | 19 | 17 | 20 | 31 | 36 | 30 |
| NASIRIYA | 41 | 45 | 31 | 22 | 21 | 25 | 37 | 41 | 33 |
| BASRAH | 62 | 62 | 43 | 34 | 33 | 40 | 53 | 56 | 48 |

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

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 10.8 | 10.6 | 10.2 | 09.3 | 08.8 | 10.4 | ,,,, | 1010.0 |
| MOSUL | 11.1 | 11.3 | 11.6 | 10.4 | 08.7 | 08.1 | 09.8 | 10.6 | 1010.2 |
| KIRKUK | 10.7 | 10.7 | 10.6 | 09.7 | 08.2 | 07.6 | 09.5 | 10.2 | 1009.7 |
| KHANAQIN | ,,,, | 10.5 | 09.0 | 08.1 | 07.1 | 06.8 | 08.8 | ,,,, | 1008.4 |
| RUTBAH | 10.3 | 10.9 | 11.3 | 10.9 | 09.8 | 09.4 | 09.9 | 10.1 | 1010.3 |
| HABBANIYA | 09.1 | 09.9 | 10.6 | 09.9 | 08.3 | 07.7 | 08.9 | 09.1 | 1009.2 |
| BAGHDAD | 08.9 | 09.4 | 10.4 | 10.1 | 08.5 | 07.8 | 08.9 | 09.1 | 1009.1 |
| NUKHAIB | ,,,, | ,,,, | 10.9 | 10.0 | 07.7 | 07.6 | ,,,, | ,,,, | 1009.1 |
| HAI | ,,,, | 08.5 | 09.5 | 09.2 | 08.0 | 07.5 | 08.1 | ,,,, | 1008.4 |
| NAJAF | 08.7 | 09.3 | 10.3 | 09.8 | 08.2 | 07.5 | 08.1 | 08.4 | 1008.5 |
| DIWANIYA | 08.9 | 09.6 | 10.3 | 09.8 | 08.3 | 08.0 | 08.9 | 09.0 | 1009.1 |
| NASIRIYA | 06.1 | 08.7 | 09.7 | 09.3 | 07.8 | 07.2 | 08.4 | 08.3 | 1008.2 |
| BASRAH | 08.3 | 08.9 | 10.0 | 09.5 | 08.4 | 07.8 | 08.7 | 08.7 | 1008.7 |

TABLE -11. المعدل كمية الغيوم الواطئة

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,, | 0.5 | 0.4 | 1.0 | 1.9 | 1.1 | 0.3 | ,,, | 0.9 |
| MOSUL | 0.7 | 1.1 | 1.4 | 2.6 | 2.8 | 2.3 | 0.8 | 0.4 | 1.5 |
| KIRKUK | 0.6 | 0.4 | 0.5 | 1.0 | 1.5 | 1.2 | 0.6 | 0.5 | 0.8 |
| KHANAQIN | ,,, | 0.9 | 1.0 | 1.8 | 1.4 | 1.5 | 1.4 | ,,, | 1.3 |
| RUTBAH | 0.1 | 0.3 | 0.3 | 0.3 | 1.4 | 1.0 | 0.5 | 0.0 | 0.5 |
| HABBANIYA | 0.4 | 0.3 | 0.1 | 0.4 | 0.5 | 0.5 | 0.1 | 0.3 | 0.3 |
| BAGHDAD | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.5 | 0.4 | 0.7 | 0.3 |
| NUKHAIB | ,,, | ,,, | 0.1 | 0.1 | 0.6 | 0.9 | ,,, | ,,, | 0.4 |
| HAI | ,,, | 0.3 | 0.5 | 0.2 | 0.6 | 0.4 | 0.4 | ,,, | 0.4 |
| NAJAF | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.3 | 0.5 | 0.2 | 0.2 |
| DIWANIYA | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.1 | 0.0 | 0.3 |
| NASIRIYA | 0.0 | 0.2 | 0.2 | 0.3 | 0.2 | 0.5 | 0.0 | 0.1 | 0.2 |
| BASRAH | 0.1 | 0.3 | 0.1 | 0.2 | 0.1 | 0.4 | 0.2 | 0.1 | 0.2 |

TABLE -12. معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 1.6 | 1.9 | 2.5 | 3.0 | 2.1 | 1.1 | ,,, | 2.0 |
| MOSUL | 1.3 | 2.2 | 3.0 | 4.3 | 4.3 | 3.5 | 1.6 | 0.8 | 2.6 |
| KIRKUK | 1.0 | 0.9 | 1.2 | 1.8 | 2.4 | 1.9 | 1.0 | 1.0 | 1.4 |
| KHANAQIN | ,,, | 1.4 | 1.6 | 2.2 | 2.4 | 2.5 | 2.0 | ,,, | 2.0 |
| RUTBAH | 0.5 | 0.9 | 1.4 | 1.1 | 2.2 | 1.8 | 1.2 | 0.5 | 1.2 |
| HABBANIYA | 1.3 | 1.3 | 1.3 | 1.9 | 2.0 | 2.0 | 1.4 | 1.4 | 1.6 |
| BAGHDAD | 1.3 | 1.2 | 1.1 | 1.6 | 1.9 | 1.9 | 1.7 | 1.5 | 1.5 |
| NUKHAIB | ,,, | ,,, | 1.5 | 1.2 | 1.4 | 1.4 | ,,, | ,,, | 1.4 |
| HAI | ,,, | 2.5 | 2.1 | 2.5 | 2.6 | 2.4 | 1.5 | ,,, | 2.3 |
| NAJAF | 0.9 | 1.0 | 1.3 | 1.2 | 1.0 | 1.6 | 1.2 | 1.2 | 1.2 |
| DIWANIYA | 1.3 | 1.2 | 1.4 | 2.0 | 1.7 | 1.7 | 1.4 | 1.0 | 1.5 |
| NASIRIYA | 1.3 | 2.1 | 1.8 | 1.8 | 2.1 | 2.2 | 1.2 | 1.1 | 1.7 |
| BASRAH | 1.3 | 2.0 | 1.7 | 1.5 | 1.8 | 1.7 | 1.4 | 1.2 | 1.6 |

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TABLE 13-a.

عدد تكرار وحدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF:

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 234 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 16 | 0 | 2 | 0 | 0 | 0 | 2 | 4 | 7 | 24 | 0 | 0 | 0 | 5 |
| | 0600 | 11 | 3 | 0 | 4 | 0 | 0 | 12 | 1 | 11 | 20 | 0 | 0 | 0 | 4 |
| | 0900 | 2 | 0 | 2 | 2 | 4 | 0 | 9 | 2 | 10 | 18 | 3 | 0 | 0 | 5 |
| | 1200 | 0 | 0 | 1 | 0 | 7 | 0 | 14 | 1 | 8 | 20 | 3 | 0 | 0 | 6 |
| | 1500 | 3 | 0 | 2 | 0 | 2 | 0 | 17 | 1 | 6 | 18 | 6 | 0 | 1 | 8 |
| | 1800 | 4 | 0 | 0 | 0 | 3 | 0 | 12 | 1 | 10 | 19 | 2 | 0 | 0 | 3 |
| | TOTAL | 36 | 3 | 7 | 6 | 16 | 0 | 66 | 9 | 52 | 119 | 14 | 0 | 1 | 5 |
| موصل MOSUL | 0000 | 1 | 0 | 1 | 0 | 6 | 1 | 2 | 11 | 9 | 19 | 3 | 0 | 0 | 5 |
| | 0300 | 2 | 0 | 2 | 1 | 3 | 2 | 3 | 4 | 14 | 17 | 0 | 0 | 0 | 4 |
| | 0600 | 9 | 2 | 1 | 2 | 1 | 0 | 2 | 10 | 4 | 22 | 5 | 0 | 0 | 7 |
| | 0900 | 5 | 6 | 3 | 5 | 3 | 0 | 5 | 4 | 0 | 25 | 6 | 0 | 0 | 9 |
| | 1200 | 7 | 3 | 3 | 5 | 4 | 0 | 2 | 4 | 3 | 23 | 5 | 0 | 0 | 8 |
| | 1500 | 7 | 2 | 2 | 0 | 3 | 1 | 3 | 11 | 2 | 26 | 3 | 0 | 0 | 8 |
| | 1800 | 2 | 0 | 1 | 1 | 1 | 0 | 9 | 9 | 8 | 17 | 6 | 0 | 0 | 6 |
| | 2100 | 0 | 0 | 1 | 2 | 3 | 0 | 6 | 7 | 12 | 15 | 4 | 0 | 0 | 5 |
| | TOTAL | 33 | 13 | 14 | 16 | 24 | 4 | 32 | 60 | 52 | 164 | 32 | 0 | 0 | 7 |
| كركوك KIRKUK | 0000 | 1 | 10 | 1 | 1 | 0 | 0 | 1 | 0 | 17 | 12 | 2 | 0 | 0 | 3 |
| | 0300 | 1 | 8 | 1 | 1 | 0 | 0 | 1 | 0 | 19 | 10 | 2 | 0 | 0 | 2 |
| | 0600 | 2 | 1 | 0 | 3 | 2 | 1 | 5 | 0 | 17 | 11 | 2 | 1 | 0 | 4 |
| | 0900 | 2 | 3 | 1 | 0 | 4 | 2 | 7 | 0 | 12 | 15 | 2 | 2 | 0 | 5 |
| | 1200 | 1 | 0 | 1 | 0 | 6 | 7 | 8 | 2 | 6 | 18 | 6 | 1 | 0 | 7 |
| | 1500 | 0 | 0 | 1 | 0 | 4 | 7 | 12 | 0 | 7 | 21 | 2 | 1 | 0 | 5 |
| | 1800 | 1 | 1 | 0 | 1 | 1 | 1 | 4 | 0 | 22 | 9 | 0 | 0 | 0 | 2 |
| | 2100 | 1 | 4 | 2 | 2 | 1 | 0 | 1 | 0 | 20 | 9 | 2 | 0 | 0 | 3 |
| | TOTAL | 9 | 27 | 7 | 8 | 18 | 18 | 39 | 2 | 120 | 105 | 18 | 5 | 0 | 4 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 13 | 4 | 4 | 0 | 0 | 0 | 10 | 20 | 1 | 0 | 0 | 3 |
| | 0600 | 4 | 0 | 0 | 1 | 5 | 0 | 2 | 1 | 18 | 11 | 1 | 1 | 0 | 9 |
| | 0900 | 3 | 0 | 0 | 2 | 6 | 0 | 11 | 5 | 4 | 24 | 1 | 2 | 0 | 6 |
| | 1200 | 3 | 0 | 1 | 0 | 9 | 0 | 9 | 6 | 3 | 26 | 2 | 0 | 0 | 6 |
| | 1500 | 4 | 0 | 0 | 1 | 6 | 0 | 10 | 6 | 4 | 25 | 0 | 2 | 0 | 7 |
| | 1800 | 1 | 0 | 1 | 0 | 5 | 0 | 4 | 4 | 16 | 14 | 1 | 0 | 0 | 3 |
| | TOTAL | 15 | 0 | 15 | 8 | 35 | 0 | 36 | 22 | 55 | 120 | 6 | 5 | 0 | 6 |
| رطبة RUTBAH | 0000 | 5 | 0 | 1 | 0 | 1 | 1 | 4 | 5 | 14 | 8 | 9 | 0 | 0 | 6 |
| | 0300 | 1 | 0 | 0 | 0 | 2 | 5 | 7 | 3 | 13 | 12 | 6 | 0 | 0 | 5 |
| | 0600 | 6 | 0 | 3 | 1 | 2 | 1 | 4 | 10 | 4 | 21 | 6 | 0 | 0 | 7 |
| | 0900 | 2 | 2 | 6 | 3 | 3 | 3 | 7 | 4 | 1 | 21 | 9 | 0 | 0 | 8 |
| | 1200 | 1 | 2 | 3 | 1 | 5 | 4 | 7 | 5 | 3 | 16 | 11 | 1 | 0 | 9 |
| | 1500 | 1 | 0 | 4 | 0 | 3 | 4 | 8 | 10 | 1 | 21 | 9 | 0 | 0 | 9 |
| | 1800 | 6 | 2 | 4 | 2 | 0 | 1 | 3 | 7 | 6 | 21 | 4 | 0 | 0 | 6 |
| | 2100 | 6 | 0 | 3 | 0 | 1 | 1 | 2 | 3 | 15 | 10 | 6 | 0 | 0 | 5 |
| | TOTAL | 28 | 6 | 24 | 7 | 17 | 20 | 42 | 43 | 57 | 130 | 60 | 1 | 0 | 7 |

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TABLE 13-5.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة | وقت كرينتش | DIRECTION الاتجاه | | | | | | | | سكون | SPEED IN KNOTS السرعة بالعقد | | | | معدل السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATIONS | TIME GMT. | N | NE | E | SE | S | SW | W | NW | CALM | 1-10 | 11-21 | 22-33 | ≥34 | MEAN V.K. |
| حبانية | 0000 | 3 | 1 | 2 | 0 | 0 | 0 | 3 | 4 | 18 | 11 | 2 | 0 | 0 | 3 |
| | 0300 | 0 | 3 | 0 | 1 | 1 | 0 | 10 | 7 | 9 | 17 | 5 | 0 | 0 | 5 |
| | 0600 | 7 | 1 | 2 | 0 | 1 | 0 | 10 | 6 | 4 | 20 | 6 | 1 | 0 | 8 |
| | 0900 | 3 | 0 | 3 | 1 | 5 | 2 | 7 | 9 | 1 | 20 | 9 | 1 | 0 | 10 |
| HABBANIYA | 1200 | 2 | 2 | 0 | 4 | 3 | 3 | 11 | 5 | 1 | 15 | 15 | 0 | 0 | 11 |
| | 1500 | 3 | 0 | 0 | 3 | 5 | 2 | 10 | 7 | 1 | 23 | 6 | 1 | 0 | 9 |
| | 1800 | 3 | 1 | 2 | 1 | 0 | 0 | 6 | 6 | 12 | 14 | 5 | 0 | 0 | 4 |
| | 2100 | 3 | 1 | 3 | 0 | 0 | 1 | 5 | 5 | 13 | 14 | 4 | 0 | 0 | 4 |
| | TOTAL | 24 | 9 | 12 | 10 | 15 | 8 | 62 | 49 | 59 | 134 | 52 | 3 | 0 | 7 |
| بغداد | 0000 | 8 | 3 | 1 | 4 | 0 | 0 | 2 | 10 | 3 | 22 | 6 | 0 | 0 | 7 |
| | 0300 | 6 | 4 | 1 | 4 | 0 | 0 | 4 | 7 | 5 | 23 | 3 | 0 | 0 | 6 |
| | 0600 | 9 | 2 | 0 | 4 | 2 | 2 | 3 | 8 | 1 | 24 | 6 | 0 | 0 | 7 |
| | 0900 | 9 | 2 | 1 | 3 | 2 | 2 | 3 | 8 | 1 | 17 | 13 | 0 | 0 | 11 |
| BAGHDAD | 1200 | 4 | 1 | 0 | 2 | 4 | 2 | 5 | 12 | 1 | 12 | 18 | 0 | 0 | 11 |
| | 1500 | 4 | 0 | 1 | 4 | 2 | 0 | 5 | 13 | 2 | 18 | 11 | 0 | 0 | 9 |
| | 1800 | 4 | 1 | 1 | 3 | 0 | 0 | 5 | 11 | 6 | 22 | 3 | 0 | 0 | 6 |
| | 2100 | 6 | 0 | 2 | 1 | 0 | 2 | 4 | 11 | 5 | 23 | 2 | 1 | 0 | 6 |
| | TOTAL | 50 | 13 | 7 | 25 | 10 | 8 | 31 | 80 | 24 | 161 | 62 | 1 | 0 | 8 |
| نخيب | 0600 | 5 | 0 | 4 | 0 | 6 | 3 | 1 | 4 | 8 | 13 | 10 | 0 | 0 | 8 |
| | 0900 | 2 | 0 | 3 | 2 | 6 | 5 | 1 | 7 | 5 | 17 | 8 | 1 | 0 | 8 |
| NUKHAIB | 1200 | 4 | 0 | 3 | 1 | 3 | 5 | 5 | 3 | 7 | 12 | 9 | 3 | 0 | 9 |
| | 1500 | 5 | 0 | 1 | 0 | 2 | 5 | 8 | 0 | 10 | 11 | 9 | 1 | 0 | 8 |
| | TOTAL | 16 | 0 | 11 | 3 | 17 | 18 | 15 | 14 | 30 | 53 | 36 | 5 | 0 | 8 |
| حي | 0300 | 3 | 1 | 2 | 0 | 1 | 2 | 16 | 2 | 4 | 27 | 0 | 0 | 0 | 4 |
| | 0600 | 3 | 1 | 4 | 0 | 2 | 2 | 11 | 6 | 2 | 25 | 4 | 0 | 0 | 6 |
| | 0900 | 1 | 3 | 1 | 1 | 3 | 1 | 12 | 6 | 3 | 23 | 5 | 0 | 0 | 7 |
| HAI | 1200 | 2 | 0 | 4 | 1 | 1 | 2 | 16 | 2 | 3 | 17 | 11 | 0 | 0 | 9 |
| | 1500 | 0 | 1 | 3 | 2 | 1 | 2 | 17 | 4 | 1 | 29 | 1 | 0 | 0 | 5 |
| | 1800 | 0 | 2 | 2 | 0 | 1 | 0 | 17 | 4 | 5 | 25 | 1 | 0 | 0 | 5 |
| | TOTAL | 9 | 8 | 16 | 4 | 9 | 9 | 89 | 24 | 18 | 146 | 22 | 0 | 0 | 6 |
| نجف | 0000 | 10 | 2 | 1 | 1 | 6 | 0 | 3 | 3 | 5 | 24 | 2 | 0 | 0 | 5 |
| | 0300 | 8 | 3 | 3 | 2 | 1 | 0 | 2 | 5 | 7 | 23 | 1 | 0 | 0 | 4 |
| | 0600 | 11 | 2 | 0 | 4 | 2 | 1 | 1 | 5 | 5 | 24 | 2 | 0 | 0 | 6 |
| | 0900 | 8 | 2 | 0 | 3 | 5 | 0 | 2 | 4 | 7 | 16 | 8 | 0 | 0 | 7 |
| NAJAF | 1200 | 11 | 3 | 1 | 3 | 5 | 1 | 3 | 3 | 1 | 21 | 9 | 0 | 0 | 8 |
| | 1500 | 8 | 2 | 2 | 4 | 4 | 1 | 2 | 7 | 1 | 24 | 6 | 0 | 0 | 7 |
| | 1800 | 9 | 5 | 1 | 2 | 3 | 1 | 2 | 4 | 4 | 25 | 2 | 0 | 0 | 6 |
| | 2100 | 9 | 2 | 1 | 3 | 2 | 0 | 2 | 4 | 8 | 22 | 1 | 0 | 0 | 4 |
| | TOTAL | 74 | 21 | 9 | 22 | 28 | 4 | 17 | 35 | 38 | 179 | 31 | 0 | 0 | 6 |

MAY 1964 .
TABLE 13-c.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطات STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34/ | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية | 0000 | 9 | 3 | 2 | 1 | 2 | 0 | 2 | 2 | 10 | 15 | 6 | 0 | 0 | 5 |
| | 0300 | 9 | 3 | 2 | 0 | 1 | 0 | 3 | 3 | 10 | 19 | 2 | 0 | 0 | 4 |
| | 0600 | 8 | 2 | 2 | 2 | 0 | 3 | 5 | 4 | 5 | 15 | 11 | 0 | 0 | 8 |
| | 0900 | 8 | 0 | 3 | 2 | 1 | 3 | 10 | 3 | 1 | 18 | 12 | 0 | 0 | 9 |
| DIWANIYA | 1200 | 10 | 1 | 0 | 1 | 3 | 1 | 10 | 3 | 2 | 11 | 13 | 0 | 0 | 10 |
| | 1500 | 7 | 1 | 3 | 2 | 2 | 1 | 7 | 5 | 3 | 18 | 10 | 0 | 0 | 8 |
| | 1800 | 10 | 5 | 4 | 0 | 1 | 1 | 4 | 2 | 4 | 26 | 1 | 0 | 0 | 5 |
| | 2100 | 9 | 1 | 5 | 1 | 2 | 0 | 5 | 2 | 6 | 24 | 1 | 0 | 0 | 5 |
| | TOTAL | 70 | 16 | 21 | 9 | 12 | 9 | 46 | 24 | 41 | 146 | 61 | 0 | 0 | 7 |
| ناصرية | 0000 | 9 | 3 | 0 | 4 | 3 | 0 | 4 | 6 | 2 | 26 | 3 | 0 | 0 | 6 |
| | 0300 | 6 | 2 | 3 | 2 | 2 | 1 | 9 | 5 | 1 | 29 | 1 | 0 | 0 | 4 |
| | 0600 | 3 | 2 | 2 | 3 | 3 | 0 | 7 | 10 | 1 | 26 | 4 | 0 | 0 | 7 |
| | 0900 | 1 | 2 | 3 | 3 | 0 | 0 | 7 | 14 | 1 | 24 | 6 | 0 | 0 | 8 |
| NASIRIYA | 1200 | 6 | 1 | 4 | 2 | 0 | 0 | 9 | 9 | 0 | 18 | 13 | 0 | 0 | 10 |
| | 1500 | 6 | 3 | 3 | 1 | 0 | 1 | 4 | 13 | 0 | 29 | 2 | 0 | 0 | 7 |
| | 1800 | 6 | 3 | 4 | 4 | 0 | 1 | 6 | 6 | 1 | 28 | 2 | 0 | 0 | 6 |
| | 2100 | 6 | 2 | 5 | 4 | 1 | 2 | 4 | 6 | 1 | 28 | 2 | 0 | 0 | 6 |
| | TOTAL | 43 | 18 | 24 | 23 | 9 | 5 | 50 | 69 | 7 | 208 | 33 | 0 | 0 | 7 |
| بصرة | 0000 | 8 | 2 | 1 | 3 | 1 | 1 | 5 | 8 | 2 | 28 | 1 | 0 | 0 | 5 |
| | 0300 | 9 | 2 | 4 | 1 | 3 | 0 | 5 | 5 | 2 | 28 | 1 | 0 | 0 | 5 |
| | 0600 | 10 | 2 | 5 | 0 | 1 | 0 | 3 | 9 | 1 | 21 | 9 | 0 | 0 | 8 |
| | 0900 | 3 | 2 | 1 | 2 | 2 | 1 | 0 | 19 | 1 | 15 | 15 | 0 | 0 | 11 |
| BASRAH | 1200 | 6 | 0 | 1 | 0 | 3 | 0 | 3 | 18 | 0 | 16 | 15 | 0 | 0 | 11 |
| | 1500 | 12 | 1 | 1 | 0 | 3 | 0 | 3 | 11 | 0 | 28 | 3 | 0 | 0 | 6 |
| | 1800 | 8 | 5 | 0 | 1 | 2 | 1 | 5 | 9 | 0 | 29 | 2 | 0 | 0 | 6 |
| | 2100 | 6 | 3 | 2 | 0 | 3 | 0 | 6 | 10 | 1 | 27 | 3 | 0 | 0 | 6 |
| | TOTAL | 62 | 17 | 15 | 7 | 18 | 3 | 30 | 89 | 7 | 192 | 49 | 0 | 0 | 7 |

TABLE 14 .

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 35 Knots | 270 | 1500 | 21st |
| MOSUL | 18 | 300 | 2100 | 21st |
| KIRKUK | 30 | 180 | 0900 | 10th |
| KHANAQIN | 31 | 180 | 0900 | 10th |
| RUTBAH | 22 | 310 | 1200 | 21st |
| HABBANIYA | 25 | 210 | 1500 | 21st |
| BAGHDAD | 25 | 320 | 2100 | 21st |
| RAI | 18 | 090 | 1200 | 8th |
| KUT AL AMARA | 26 | 230 | 1200 | 21st |
| NAJAF | 20 | 140 | 1200 | 26th |
| DIWANIYA | 20 | 180 | 1200 | 25th |
| NASIRIYA | 17 | 110 | 1200 | 8th |
| BASRAH | 20 | 310 | 1200 | 25th |

مايس ١٩٦٤

MAY 1964 .

TABLE 15-a.

الهطول اليومي (ملليمترات)

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

| الايام | سنجار | موصل | كركوك | خانقين | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | KHANAQIN | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | tr. | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | 1.0 | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | 0.5 | | | | | | |
| 12 | | | | | | | |
| 13 | tr. | tr. | | | | | |
| 14 | 1.2 | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | tr. | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | 0.5 | tr. |
| 25 | | | | | | | |
| 26 | | | tr. | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | 0.5 | |
| TOTAL | 1.7 | 1.0 | tr. | 0.0 | | 1.0 | tr. |
| NORMAL | 28.6 | 20.3 | 16.5 | 21.4 | 9.7 | 3.7 | 7.1 |

| STATIONS | HIGHEST AMOUNT OF RAIN IN ONE DAY | DAY | YEAR |
|---|---|---|---|
| SINJAR | 78.5 | 20th | 1959 |
| MOSUL | 40.4 | 11th | 1963 |
| KIRKUK | 45.1 | 10th | 1963 |
| KHANAQIN | 32.6 | 6th | 1950 |
| RUTBAH | 46.6 | 12th | 1957 |
| HABBANIYA | 17.7 | 1st | 1963 |
| BAGHDAD | 65.0 | 9th | 1959 |

MAY 1964.
TABLE 15-5.

الهطول اليومي (ملليمترات)

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | tr. | | | tr. | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | tr. | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | tr. | | |
| 24 | 0.4 | tr. | | tr. | | |
| 25 | | | | tr. | | |
| 26 | | 2.0 | | tr. | tr. | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| TOTAL | 0.4 | 2.0 | | tr. | tr. | |
| NORMAL | ... | 6.9 | ... | 9.0 | 5.4 | 7.3 |

| STATIONS | HIGHEST AMOUNT OF RAIN IN ONE DAY | DAY | YEAR |
|---|---|---|---|
| NUKHAIB | 6.0 | 5th | 1963 |
| HAI | 28.7 | 5th | 1949 |
| NAJAF | 13.8 | 17th | 1963 |
| DIWANIYA | 27.7 | 5th | 1963 |
| NASIRIYA | 40.2 | 15th | 1945 |
| BASRAH | 35.6 | 8th | 1950 |

مايس ١٩٦٤

MAY 1964 .
TABLE 15-c.

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الايام | افتخار | معقل | طوز | حلبجة | فاو | افراز | راوندوز | شقلاوة | هيت | عمادية |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE | IFTI-KHAR | MAQIL | TUZ | HALABJA | FAO | IFRAZ | RAWA-NDUZ | SHAQ-LAWA | HIT | AMADIYA |
| 1 | | | | | | 2.7 | | 4.0 | | 1.5 |
| 2 | | | | | | | | 2.0 | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | 0.1 | | 2.0 |
| 9 | | | | | | 1.7 | | 0.4 | | |
| 10 | | | | | | | | | | tr. |
| 11 | | | | | | | tr. | | | tr. |
| 12 | | | | | | | tr. | 2.0 | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | tr. | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | 4.5 |
| 26 | | | | | | | tr. | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| TOTAL | | | | | | 4.4 | tr. | 8.5 | | 8.0 |

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TABLE 15-d.

مايس ١٩٦٤

الهطول اليومي ( بالمليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الايام | عقرة | تلعفر | جلولاء | كربلاء | سامراء | المنصور | دوكان | حويجة | صلاح الدين |
|---|---|---|---|---|---|---|---|---|---|
| DATE | AQRA | TELA-AFAR | JALA-WLAA | KARBALAA | SAMI-RA'A | MANSOOR | DUKAN | HAWIJA | SALAH-ADDIN |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | tr. | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | 4.5 | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | tr. | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| TOTAL | tr. | 4.5 | | | | | | | |

TABLE - 16.

## CLIMATOLOGICAL SUMMARY — الملخصات المناخية

NUMBER OF DAYS FOR THE CASES OF PHENOMENA — عدد الايام التي حدثت فيها الظواهر الجوية

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 |
| MOSUL | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 5 | 2 | 0 | 8 | 0 |
| KIRKUK | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 5 | 8 | 0 | 0 | 20 | 0 |
| KHANAQIN | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 20 | 4 |
| RUTBAH | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 | 0 | 0 | 23 | 1 |
| HABBANIYA | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 6 | 3 | 0 | 21 | 3 |
| BAGHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 9 | 2 | 0 | 22 | 3 |
| HAI | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 17 | 3 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 1 | 0 | 21 | 1 |
| NUKHAIB | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 20 | 3 |
| DIWANIYA | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 | 5 | 1 | 0 | 21 | 3 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21 | 0 | 0 | 21 | 3 |
| BASRAH | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 16 | 2 | 0 | 18 | 1 |

TABLE - 17.

DURATION OF SUNSHINE — مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 356.6 | 14.1 | 4th | 0 |
| HABBANIYA | 329.3 | 13.0 | 12&18th | 0 |
| BAGHDAD | 292.6 | 12.7 | 12&29th | 2 |
| BASRAH | 316.2 | 12.8 | 2nd | 0 |

TABLE - 18.

المعدل الشهري لحرارة الحشيش و التربة ( سنتغراد )

MONTHLY MEAN TEMPERATURE OF :

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | ???? | 22.0 | ???? |
| KIRKUK | 12.0 | 23.2 | 20.3 |
| HABBANIYA | 17.4 | 29.3 | 25.7 |
| BAGHDAD | 15.3 | 28.1 | 24.7 |
| NAJAF | ???? | 28.2 | 27.1 |
| NASIRIYA | 20.8 | 30.2 | 25.2 |
| BASRAH | 16.8 | ???? | ???? |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

# معلومات مناخية لشهر حزيران ١٩٦٤

# MONTHLY CLIMATOLOGICAL DATA FOR JUNE 1964

مجلد ٢٧ ، عدد ( ٦ ) ، حزيران ١٩٦٤

VOLUME 27 , No. ( 6 ) , JUNE 1964

# C O N T E N T S


| | TABLE | PAGE |
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| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| Daily maximum and minimum temperature | 4a-c | 6-8 |
| monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | |
| " " dew-point | 8 | - |
| " " relativd-humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
| Surface-Wind , number of observations of : | 13a-c | 11-13 |
| Highest wind-speed during one hour | 14 | 13 |
| Daily precipitation | 15a&b | 14-15 |
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| Duration of sunshine | 17 | 16 |
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NOTES ON TABLES AND GEOGRAPHICAL DATA SEE : JANUARY 1964

JUNE 1964 .

TABLE 1-a.

( 1 )

حزيران ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 34.1 | 33.0 | 34.5 | 32.5 | 36.4 | 34.9 |
| 2 | 35.1 | 33.8 | 34.9 | 33.6 | 37.2 | 35.6 |
| 3 | 32.4 | 34.0 | 35.6 | 31.2 | 36.8 | 37.5 |
| 4 | 32.5 | 33.1 | 36.1 | 32.2 | 37.7 | 37.2 |
| 5 | 32.7 | 34.4 | 35.4 | 28.9 | 35.2 | 36.8 |
| 6 | 32.2 | 30.5 | 32.7 | 28.3 | 32.5 | 33.6 |
| 7 | 32.7 | 30.0 | 32.4 | 28.8 | 33.6 | 34.1 |
| 8 | 33.0 | 32.6 | 34.4 | 28.7 | 35.0 | 34.6 |
| 9 | 29.3 | 30.2 | 31.1 | 27.0 | 30.8 | 33.0 |
| 10 | 29.4 | 30.0 | 30.7 | 27.1 | 31.7 | 33.1 |
| 11 | 30.4 | 30.2 | 31.2 | 28.5 | 32.6 | 34.1 |
| 12 | 31.3 | 31.3 | 31.7 | 29.0 | 33.0 | 33.9 |
| 13 | 33.9 | 31.5 | 32.1 | 30.6 | 33.0 | 33.2 |
| 14 | 29.9 | 30.6 | 32.3 | 26.6 | 31.7 | 32.1 |
| 15 | 28.3 | 30.3 | 30.1 | 26.1 | 31.1 | 32.7 |
| 16 | 29.8 | 30.6 | 32.3 | 26.6 | 33.4 | 34.9 |
| 17 | 29.7 | 31.2 | 30.6 | 27.0 | 32.7 | 33.9 |
| 18 | 29.5 | 30.5 | 30.6 | 27.1 | 31.7 | 32.1 |
| 19 | 30.6 | 31.6 | 31.3 | 27.6 | 31.3 | 32.2 |
| 20 | 32.6 | 33.4 | 33.1 | 28.7 | 32.8 | 32.5 |
| 21 | 33.9 | 33.2 | 31.9 | 28.8 | 32.5 | 33.5 |
| 22 | 35.2 | 31.8 | 32.2 | 27.2 | 31.5 | 32.4 |
| 23 | 34.5 | 31.4 | 32.0 | 28.8 | 32.5 | 32.7 |
| 24 | 34.7 | 32.7 | 33.8 | 31.5 | 33.1 | 34.6 |
| 25 | 35.7 | 33.6 | 34.7 | 30.2 | 34.8 | 36.1 |
| 26 | 31.7 | 33.6 | 33.4 | 29.3 | 31.3 | 35.2 |
| 27 | 31.8 | 32.4 | 32.2 | 28.7 | 33.1 | 33.9 |
| 28 | 29.8 | 32.0 | 33.2 | 28.1 | 32.7 | 33.2 |
| 29 | 31.1 | 31.1 | 30.9 | 27.9 | 32.5 | 32.5 |
| 30 | 32.0 | 32.3 | 31.7 | 27.8 | 32.5 | 33.4 |
| MEANS | 32.0 | 31.9 | 32.6 | 28.7 | 33.3 | 34.0 |
| departure from normal | .... | +1.7 | +0.3 | +1.8 | +0.7 | +1.1 |

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

T I M E - G.M.T.

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

JUNE 1964 .
TABLE 1-6.

حزيران ١٩٦٤
المعدل اليومي لدرجات الحرارة ( سنتغراد )

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 39.8 | 34.0 | 35.4 | 35.2 | 34.7 | 33.5 |
| 2 | 39.8 | 36.2 | 38.0 | 36.1 | 35.8 | 35.1 |
| 3 | 42.4 | 36.1 | 38.7 | 36.9 | 37.2 | 35.3 |
| 4 | 40.4 | 35.5 | 38.5 | 36.9 | 37.9 | 35.9 |
| 5 | 38.9 | 36.8 | 37.2 | 37.5 | 38.2 | 36.0 |
| 6 | 39.3 | 36.4 | 35.6 | 36.1 | 36.2 | 36.2 |
| 7 | 37.6 | 33.8 | 35.2 | 34.6 | 35.0 | 35.6 |
| 8 | 36.8 | 35.2 | 37.7 | 35.8 | 36.0 | 35.9 |
| 9 | 33.2 | 34.5 | 34.4 | 33.6 | 34.4 | 33.8 |
| 10 | 32.1 | 34.2 | 34.3 | 33.1 | 34.4 | 33.2 |
| 11 | 34.9 | 34.6 | 35.0 | 34.2 | 32.9 | 32.9 |
| 12 | 36.0 | 34.5 | 35.0 | 33.4 | 30.4 | 33.1 |
| 13 | 39.7 | 34.4 | 35.4 | 32.7 | 31.2 | 31.9 |
| 14 | 33.9 | 34.2 | 34.1 | 33.0 | 33.2 | 32.5 |
| 15 | 33.6 | 33.8 | 34.1 | 33.3 | 33.6 | 33.1 |
| 16 | 35.6 | 34.3 | 36.1 | 35.6 | 35.1 | 33.7 |
| 17 | 32.2 | 35.1 | 35.0 | 34.6 | 35.4 | 34.5 |
| 18 | 35.1 | 33.9 | 34.7 | 33.9 | 34.2 | 33.6 |
| 19 | 34.8 | 33.0 | 33.8 | 32.4 | 32.6 | 32.4 |
| 20 | 35.5 | 33.0 | 34.4 | 33.0 | 32.0 | 32.0 |
| 21 | 35.8 | 33.6 | 35.2 | 33.6 | 33.0 | 33.1 |
| 22 | 35.5 | 34.1 | 35.9 | 32.6 | 33.1 | 32.5 |
| 23 | 35.3 | 33.4 | 35.0 | 33.3 | 32.9 | 32.7 |
| 24 | 39.9 | 36.2 | 33.7 | 34.4 | 34.3 | 32.7 |
| 25 | 38.2 | 36.6 | 36.5 | 35.8 | 35.8 | 34.9 |
| 26 | 37.2 | 36.8 | 37.2 | 35.9 | 35.7 | 35.1 |
| 27 | 35.8 | 35.1 | 35.6 | 34.3 | 34.5 | 34.4 |
| 28 | 35.3 | 35.6 | 35.9 | 34.6 | 35.2 | 35.1 |
| 29 | 34.5 | 34.0 | 34.3 | 33.0 | 33.5 | 33.7 |
| 30 | 35.0 | 33.1 | 34.4 | 33.1 | 31.9 | 32.9 |
| MEANS | 36.1 | 34.7 | 35.5 | 34.4 | 34.3 | 33.9 |
| departure from normal | .... | +0.4 | ....6 .... | +2.6 | +1.6 | +1.4 |

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

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1005.6 | 1006.5 | 1006.2 | 1005.5 | 1005.1 | 1005.5 |
| 2 | 06.9 | 07.2 | 07.2 | 05.7 | 05.7 | 06.0 |
| 3 | 09.1 | 08.3 | 07.6 | 06.5 | 06.3 | 06.3 |
| 4 | 06.9 | 06.6 | 05.4 | 05.4 | 04.7 | 05.2 |
| 5 | 03.7 | 03.8 | 04.5 | 06.4 | 04.3 | 04.2 |
| 6 | 03.7 | 03.8 | 03.4 | 05.8 | 03.9 | 03.6 |
| 7 | 02.4 | 03.1 | 02.7 | 03.5 | 01.9 | 01.8 |
| 8 | 00.3 | 00.8 | 00.6 | 02.5 | 00.1 | 00.1 |
| 9 | 05.0 | 05.1 | 05.0 | 07.0 | 05.3 | 04.8 |
| 10 | 09.1 | 08.7 | 08.2 | 08.7 | 07.7 | 07.2 |
| 11 | 09.2 | 08.5 | 07.8 | 09.1 | 07.2 | 06.7 |
| 12 | 05.1 | 04.6 | 03.9 | 06.7 | 04.5 | 03.6 |
| 13 | 00.8 | 01.1 | 00.6 | 03.7 | 01.3 | 00.7 |
| 14 | 01.8 | 02.0 | 01.6 | 04.3 | 02.6 | 02.1 |
| 15 | 04.3 | 04.1 | 04.2 | 05.7 | 03.6 | 03.2 |
| 16 | 03.5 | 03.6 | 02.8 | 04.9 | 02.1 | 01.8 |
| 17 | 04.4 | 04.1 | 04.0 | 06.2 | 03.8 | 03.4 |
| 18 | 04.9 | 04.9 | 04.7 | 06.6 | 04.4 | 04.2 |
| 19 | 04.4 | 03.5 | 03.0 | 05.1 | 03.8 | 03.6 |
| 20 | 01.4 | 01.3 | 00.5 | 04.7 | 01.7 | 01.2 |
| 21 | 99.9 | 00.1 | 00.6 | 03.7 | 01.4 | 00.9 |
| 22 | 00.8 | 00.4 | 00.2 | 02.7 | 00.4 | 00.2 |
| 23 | 01.3 | 00.4 | 00.2 | 02.1 | 00.4 | 00.2 |
| 24 | 00.8 | 99.8 | 99.4 | 00.0 | 99.6 | 99.2 |
| 25 | 01.1 | 99.7 | 98.8 | 00.1 | 98.6 | 98.1 |
| 26 | 98.8 | 98.3 | 97.9 | 01.3 | 98.6 | 97.6 |
| 27 | 98.1 | 94.8 | 98.6 | 00.9 | 98.8 | 98.5 |
| 28 | 00.0 | 99.8 | 99.1 | 01.8 | 99.5 | 99.0 |
| 29 | 99.4 | 99.8 | 99.7 | 02.5 | 00.3 | 99.9 |
| 30 | 00.0 | 00.4 | 99.8 | 02.9 | 00.4 | 99.5 |
| MEANS | 1003.1 | 1002.8 | 1002.6 | 1004.5 | 1002.6 | 1002.3 |
| Departure from Normal | .... | -0.6 | +0.2 | -1.9 | -0.8 | -0.7 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1010.2 | 11th | 0300 | 1964 | 995.5 | 26th | 1500 | 1964 | 1964 |
| MOSUL | 1010.3 | 11th | 0000 | 1964 | 996.1 | 26th | 1500 | 1964 | |
| KIRKUK | 1009.6 | 2nd | 2100 | 1964 | 995.6 | 26th | 1500 | 1964 | |
| RUTBAH | 1010.4 | 11th | 0600 | 1964 | 998.3 | 24th | 2100 | 1964 | |
| HABBANIYA | 1008.2 | 10th | 0900 | 1964 | 997.3 | 26th | 1500 | 1964 | |
| BAGHDAD | 1008.1 | 10th | 0600 | 1964 | 996.6 | 26th | 1500 | 1964 | |
| SINJAR | 1012.4 | 12th | 0900 | 1963 | 995.5 | 26th | 1500 | 1964 | RECORD |
| MOSUL | 1017.1 | 1st | 0300 | 1952 | 992.8 | 29th | 1800 | 1960 | |
| KIRKUK | 1014.4 | 1st | 0300 | 1952 | 991.2 | 1st | 1500 | 1951 | |
| RUTBAH | 1018.3 | 1st | 0300 | 1952 | 997.3 | 30th | 1200 | 1944 | |
| BAGHDAD | 1013.1 | 4th | 0600 | 1937 | 992.5 | 29th | 1500 | 1960 | |

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

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1004.2 | 1005.2 | 1004.9 | 1005.5 | 1005.2 | 1006.0 |
| 2 | 05.1 | 05.1 | 05.4 | 05.5 | 05.1 | 05.8 |
| 3 | 05.6 | 04.9 | 05.4 | 05.7 | 05.2 | 05.8 |
| 4 | 04.2 | 04.0 | 04.1 | 04.9 | 04.4 | 05.8 |
| 5 | 04.4 | 03.7 | 03.8 | 04.3 | 04.0 | 05.0 |
| 6 | 04.4 | 02.2 | 02.9 | 03.3 | 02.3 | 02.5 |
| 7 | 01.6 | 01.5 | 01.5 | 02.0 | 01.4 | 01.6 |
| 8 | 00.8 | 99.5 | 99.4 | 00.1 | 99.9 | 00.8 |
| 9 | 06.8 | 02.4 | 04.1 | 04.6 | 03.2 | 02.8 |
| 10 | 08.2 | 04.8 | 06.5 | 06.7 | 05.4 | 04.8 |
| 11 | 08.2 | 04.1 | 06.6 | 06.2 | 06.2 | 04.6 |
| 12 | 05.5 | 01.1 | 03.9 | 03.5 | 01.6 | 00.6 |
| 13 | 02.9 | 99.4 | 01.0 | 01.2 | 00.1 | 00.0 |
| 14 | 04.2 | 00.4 | 02.2 | 02.1 | 00.9 | 00.5 |
| 15 | 04.6 | 02.0 | 03.0 | 03.0 | 01.8 | 01.6 |
| 16 | 02.4 | 00.5 | 00.8 | 01.2 | 00.5 | 00.5 |
| 17 | 04.3 | 01.2 | 02.4 | 02.7 | 01.2 | 00.8 |
| 18 | 05.2 | 02.4 | 03.7 | 03.9 | 02.9 | 02.3 |
| 19 | 04.5 | 02.2 | 03.3 | 03.5 | 02.2 | 01.9 |
| 20 | 03.2 | 00.2 | 01.7 | 01.7 | 00.8 | 00.5 |
| 21 | 02.8 | 99.7 | 01.1 | 01.2 | 00.1 | 99.9 |
| 22 | 01.2 | 99.3 | 00.0 | 00.5 | 99.5 | 99.4 |
| 23 | 01.2 | 98.7 | 00.0 | 00.3 | 99.2 | 99.2 |
| 24 | 99.2 | 97.6 | 99.1 | 99.2 | 97.9 | 97.6 |
| 25 | 99.1 | 97.1 | 97.7 | 98.4 | 97.3 | 97.4 |
| 26 | 99.8 | 96.1 | 97.3 | 97.7 | 96.4 | 96.4 |
| 27 | 00.1 | 97.5 | 98.4 | 98.8 | 97.9 | 97.8 |
| 28 | 00.4 | 98.0 | 98.7 | 98.9 | 97.8 | 97.7 |
| 29 | 01.7 | 98.6 | 99.9 | 00.2 | 98.7 | 98.1 |
| 30 | 01.7 | 97.8 | 99.6 | 00.0 | 98.5 | 98.2 |
| MEANS | 1003.2 | 1000.9 | 1001.9 | 1002.2 | 1001.2 | 1001.2 |
| departure from normal | .... | -1.0 | .... | -0.1 | -0.8 | 0.0 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1009.5 | 10th | 0600 | 1964 | 997.3 | 24th | 1500 | 1964 | 1964 |
| HAI | 1006.7 | 3rd | 0600 | 1964 | 995.0 | 26th | 1500 | 1964 | |
| NAJAF | 1003.7 | 11th | 0900 | 1964 | 996.0 | 26th | 1500 | 1964 | |
| DIWANIYA | 1007.3 | 10th | 1800 | 1964 | 996.2 | 26th | 1500 | 1964 | |
| NASIRIYA | 1007.1 | 3rd | 0600 | 1964 | 995.2 | 26th | 1500 | 1964 | |
| BASRAH | 1007.3 | 2nd | 0600 | 1964 | 995.4 | 26th | 1500 | 1964 | |
| NUKHAIB | 1013.0 | 12th | 0600 | 1963 | 995.8 | 30th | 1500 | 1963 | RECORD |
| HAI | 1012.6 | 1st | 0300 | 1952 | 992.3 | 29th | 1500 | 1960 | |
| NAJAF | 1009.4 | 12th | 0300 | 1963 | 992.9 | 30th | 1500 | 1963 | |
| DIWANIYA | 1012.7 | 1st | 0600 | 1952 | 992.9 | 29th | 1500 | 1960 | |
| NASIRIYA | 1012.4 | 8th | 1800 | 1942 | 993.2 | 29th | 1500 | 1960 | |
| BASRAH | 1011.7 | 9th | 0600 | 1942 | 992.4 | 29th | 1500 | 1960 | |

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TABLE - 3.



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المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

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

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 46 | 0300 | 15th | 10 | 1200 | 23rd |
| MOSUL | 59 | 0300 | 4th | 11 | 1200 | 8th |
| KIRKUK | 42 | 0300 | 20ty | 4 | 1200 | 10th |
| RUTBAH | 59 | 0300 | 19th | 4 | 1200 | 8th |
| HABBANIYA | 59 | 0300 | 8th | 10 | 1200 | 8 th |
| BAGHDAD | 48 | 0000 | 1st | 7 | 1200 | 10th |
| NUKHAIB | 33 | 0600 | 24th | 7 | 1500 | 10th |
| HAI | 45 | 0300 | 2nd | 11 | 1200 | 8th |
| NAJAF | 51 | 0000 | 8th | 11 | 0900 | 6th |
| DIWANIYA | 62 | 0300 | 28th | 10 | 1200 | 3rd |
| NASIRIYA | 67 | 0000 | 17th | 9 | 1200 | 10th |
| BASRAH | 88 | 0300 | 14th | 14 | 0900 | 2nd |

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TABLE 4-a.

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 38.2 | 26.0 | 41.8 | 23.2 | 40.8 | 25.0 | 41.7 | 22.8 | 39.5 | 23.3 |
| 2 | 39.0 | 26.4 | 41.4 | 23.5 | 41.7 | 24.4 | 43.3 | 23.9 | 40.6 | 25.0 |
| 3 | 37.0 | 24.2 | 40.8 | 27.0 | 41.9 | 23.9 | 43.9 | 26.7 | 37.0 | 24.1 |
| 4 | 37.2 | 25.8 | 43.0 | 22.0 | 43.8 | 26.0 | 45.0 | 27.2 | 41.2 | 23.2 |
| 5 | 37.8 | 24.2 | 41.8 | 28.2 | 41.6 | 28.8 | 42.2 | 31.7 | 36.8 | 21.2 |
| 6 | 35.0 | 24.0 | 39.4 | 19.8 | 39.5 | 22.4 | 41.4 | 23.9 | 36.2 | 20.0 |
| 7 | 37.0 | 25.0 | 39.0 | 18.4 | 39.5 | 20.3 | 41.1 | 21.7 | 36.7 | 20.5 |
| 8 | 38.5 | 23.1 | 42.0 | 19.4 | 41.2 | 24.0 | 43.3 | 23.9 | 40.4 | 20.0 |
| 9 | 32.6 | 21.5 | 38.6 | 19.8 | 38.4 | 20.2 | 40.0 | 23.6 | 33.6 | 15.8 |
| 10 | 33.7 | 21.8 | 37.5 | 21.0 | 36.6 | 19.1 | 38.9 | 20.0 | 34.4 | 18.1 |
| 11 | 34.0 | 23.1 | 38.0 | 19.4 | 37.0 | 18.4 | 40.0 | 21.1 | 35.3 | 20.3 |
| 12 | 35.0 | 23.6 | 40.0 | 18.4 | 38.5 | 19.5 | 40.6 | 20.6 | 37.0 | 19.8 |
| 13 | 37.2 | 25.3 | 40.8 | 19.6 | 40.4 | 20.3 | 40.6 | 20.6 | 39.0 | 20.9 |
| 14 | 33.6 | 19.5 | 40.6 | 19.8 | 40.2 | 22.2 | 42.8 | 22.2 | 33.0 | 19.0 |
| 15 | 31.6 | 20.2 | 37.2 | 24.2 | 36.5 | 20.6 | 38.9 | 21.7 | 34.4 | 18.0 |
| 16 | 34.2 | 21.0 | 38.4 | 19.1 | 38.6 | 21.5 | 40.6 | 22.8 | 34.9 | 18.9 |
| 17 | 33.6 | 22.1 | 38.8 | 22.7 | 37.9 | 20.6 | 39.6 | 26.7 | 35.3 | 18.0 |
| 18 | 33.0 | 22.3 | 38.6 | 21.0 | 37.7 | 19.0 | 38.9 | 23.3 | 35.2 | 18.9 |
| 19 | 34.4 | 24.1 | 38.2 | 23.3 | 38.0 | 20.8 | 38.9 | 20.6 | 34.2 | 19.2 |
| 20 | 38.0 | 26.1 | 40.2 | 23.6 | 39.8 | 21.0 | 40.3 | 22.2 | 36.4 | 20.6 |
| 21 | 39.1 | 28.1 | 40.0 | 24.1 | 39.1 | 21.5 | 40.3 | 22.8 | 35.8 | 21.1 |
| 22 | 39.1 | 29.2 | 39.4 | 22.8 | 39.4 | 21.8 | 40.0 | 22.2 | 35.2 | 19.6 |
| 23 | 40.1 | 23.4 | 40.0 | 19.6 | 39.1 | 22.0 | 40.0 | 21.7 | 38.0 | 18.7 |
| 24 | 40.1 | 24.9 | 41.0 | 20.4 | 41.0 | 22.7 | 41.7 | 22.8 | 40.0 | 22.2 |
| 25 | 40.1 | 25.2 | 42.8 | 21.2 | 42.0 | 23.0 | 43.5 | 23.3 | 37.3 | 21.8 |
| 26 | 36.2 | 29.1 | 40.8 | 27.6 | 40.8 | 23.0 | 42.8 | 23.9 | 36.6 | 20.3 |
| 27 | 36.7 | 24.5 | 40.5 | 21.0 | 39.4 | 20.5 | 40.0 | 23.3 | 36.4 | 20.7 |
| 28 | 33.6 | 23.1 | 39.4 | 22.4 | 39.4 | 24.0 | 40.6 | 22.2 | 35.2 | 19.6 |
| 29 | 34.6 | 20.5 | 38.2 | 21.4 | 36.6 | 20.6 | 38.3 | 21.7 | 34.6 | 19.9 |
| 30 | 35.0 | 25.2 | 40.2 | 22.8 | 39.3 | 20.0 | 41.1 | 21.1 | 35.5 | 19.5 |
| MEANS | 36.2 | 24.1 | 39.9 | 21.9 | 39.5 | 21.9 | 41.0 | 23.1 | 36.5 | 20.3 |
| departure from normal | ... | ... | +0.1 | +3.3 | +0.3 | -1.7 | +0.3 | +0.7 | +0.5 | +1.6 |

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

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 44.6 | 23.7 | 43.0 | 24.0 | 43.0 | 25.5 | 42.8 | 24.2 |
| 2 | 46.7 | 28.6 | 44.4 | 26.2 | 42.5 | 27.4 | 43.8 | 25.2 |
| 3 | 46.7 | 28.5 | 44.2 | 29.5 | 44.0 | 27.0 | 45.0 | 25.6 |
| 4 | 45.8 | 28.7 | 44.3 | 30.4 | 43.6 | 24.8 | 43.9 | 26.8 |
| 5 | 43.4 | 29.2 | 44.4 | 28.3 | 42.6 | 23.5 | 43.0 | 30.8 |
| 6 | 40.4 | 28.2 | 41.2 | 25.5 | 41.5 | 23.5 | 43.8 | 30.2 |
| 7 | 43.4 | 22.5 | 41.8 | 22.2 | 41.5 | 22.2 | 42.0 | 24.8 |
| 8 | 44.1 | 23.4 | 44.0 | 22.9 | 41.0 | 21.2 | 43.8 | 24.4 |
| 9 | 38.9 | 23.3 | 40.0 | 23.5 | 38.5 | 22.5 | 41.6 | 26.1 |
| 10 | 39.6 | 22.7 | 39.6 | 24.9 | 39.0 | 19.5 | 41.8 | 25.2 |
| 11 | 40.9 | 22.8 | 41.3 | 26.8 | 39.0 | 20.6 | 41.6 | 24.4 |
| 12 | 40.6 | 22.4 | 41.2 | 27.2 | 39.0 | 21.6 | 40.6 | 26.2 |
| 13 | 41.2 | 22.8 | 40.8 | 23.4 | 41.6 | 22.0 | 40.6 | 26.5 |
| 14 | 38.8 | 25.6 | 39.8 | 23.4 | 38.5 | 26.0 | 43.3 | 23.6 |
| 15 | 38.0 | 22.4 | 39.4 | 25.4 | 39.0 | 22.5 | 40.0 | 25.0 |
| 16 | 41.8 | 23.5 | 41.4 | 26.9 | 39.0 | 24.5 | 42.0 | 25.4 |
| 17 | 40.2 | 25.0 | 40.6 | 27.8 | 39.0 | 23.2 | 42.8 | 26.4 |
| 18 | 40.0 | 21.9 | 40.5 | 27.0 | 39.5 | 21.5 | 42.0 | 24.4 |
| 19 | 38.6 | 22.8 | 38.8 | 24.8 | 38.6 | 22.0 | 40.6 | 24.2 |
| 20 | 39.8 | 24.6 | 40.0 | 22.6 | 39.6 | 23.6 | 39.8 | 24.0 |
| 21 | 40.3 | 25.5 | 40.8 | 25.6 | 39.6 | 24.3 | 40.8 | 24.2 |
| 22 | 40.6 | 22.7 | 41.2 | 21.1 | 40.5 | 21.0 | 40.8 | 25.0 |
| 23 | 40.5 | 23.4 | 40.4 | 22.5 | 41.5 | 21.0 | 40.7 | 24.2 |
| 24 | 43.1 | 23.2 | 43.0 | 21.8 | 43.0 | 22.8 | 43.6 | 25.8 |
| 25 | 45.6 | 23.9 | 43.9 | 25.7 | 42.2 | 26.2 | 44.3 | 26.3 |
| 26 | 42.5 | 27.2 | 42.8 | 25.2 | 42.2 | 22.5 | 44.0 | 27.0 |
| 27 | 41.3 | 25.0 | 42.4 | 24.1 | 41.0 | 22.0 | 41.5 | 25.6 |
| 28 | 40.9 | 23.6 | 41.9 | 21.6 | 39.4 | 23.6 | 42.4 | 25.7 |
| 29 | 40.4 | 23.9 | 38.6 | 26.0 | 38.2 | 23.8 | 41.3 | 25.0 |
| 30 | 40.6 | 24.9 | 40.7 | 25.6 | 39.0 | 22.6 | 40.8 | 23.2 |
| MEANS | 41.3 | 24.5 | 41.5 | 25.1 | 40.5 | 23.1 | 42.2 | 25.5 |
| departure from normal | +0.1 | +1.2 | +0.6 | +1.8 | .... | .... | +1.1 | +0.6 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 48.9 | 24th | 1942 | 15.6 | 3rd | 1943 |
| BAGHDAD | 48.3 | 18th | 1949 | 14.4 | 4th | 1943 |
| NUKHAIB | 44.4 | 27th | 1963 | 18.5 | 3rd | 1963 |
| HAI | 49.5 | 26th | 1942 | 18.3 | 1st | 1943 |

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TABLE 4-6.

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
|---|---|---|---|---|---|---|---|---|
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 45.0 | 25.0 | 44.4 | 23.7 | 44.4 | 26.7 | 42.4 | 24.9 |
| 2 | 45.4 | 28.4 | 45.3 | 26.2 | 45.8 | 27.1 | 43.7 | 27.0 |
| 3 | 46.3 | 29.0 | 46.0 | 25.8 | 46.3 | 28.1 | 43.2 | 26.5 |
| 4 | 45.0 | 28.0 | 45.2 | 29.6 | 47.0 | 29.6 | 45.1 | 28.5 |
| 5 | 44.4 | 30.0 | 44.5 | 31.1 | 44.4 | 32.4 | 44.5 | 30.2 |
| 6 | 42.4 | 28.0 | 43.6 | 28.7 | 44.4 | 30.0 | 42.7 | 31.4 |
| 7 | 43.0 | 27.0 | 43.6 | 22.8 | 43.5 | 26.9 | 41.5 | 30.4 |
| 8 | 44.4 | 29.0 | 45.5 | 23.6 | 44.9 | 27.0 | 43.6 | 27.4 |
| 9 | 44.0 | 27.0 | 42.2 | 26.6 | 42.7 | 28.9 | 40.0 | 28.9 |
| 10 | 40.5 | 23.6 | 42.4 | 22.6 | 41.9 | 26.5 | 39.2 | 26.4 |
| 11 | 43.2 | 26.0 | 42.0 | 25.8 | 40.6 | 27.4 | 38.3 | 26.2 |
| 12 | 42.4 | 26.4 | 41.5 | 25.0 | 34.5 | 26.3 | 37.2 | 28.2 |
| 13 | 41.4 | 26.0 | 41.1 | 23.0 | 37.8 | 24.4 | 37.8 | 26.0 |
| 14 | 40.6 | 26.4 | 42.0 | 23.0 | 41.5 | 26.2 | 39.8 | 24.2 |
| 15 | 40.0 | 25.4 | 41.2 | 23.2 | 41.0 | 24.7 | 39.0 | 25.7 |
| 16 | 42.5 | 25.2 | 44.0 | 26.1 | 43.7 | 25.4 | 40.7 | 26.1 |
| 17 | 42.0 | 24.5 | 43.0 | 26.5 | 43.4 | 27.4 | 41.7 | 27.0 |
| 18 | 40.6 | 25.2 | 41.0 | 25.2 | 40.2 | 27.4 | 39.2 | 25.7 |
| 19 | 40.2 | 27.0 | 40.0 | 23.6 | 40.2 | 25.4 | 38.6 | 26.1 |
| 20 | 41.0 | 25.2 | 40.2 | 23.5 | 38.6 | 23.3 | 38.1 | 25.5 |
| 21 | 41.4 | 27.0 | 41.5 | 25.3 | 39.4 | 26.6 | 39.5 | 26.9 |
| 22 | 43.2 | 25.4 | 42.0 | 22.7 | 41.8 | 26.0 | 39.2 | 25.9 |
| 23 | 41.4 | 26.7 | 41.8 | 23.5 | 41.8 | 24.8 | 39.9 | 24.8 |
| 24 | 41.8 | 24.5 | 44.0 | 24.3 | 44.2 | 24.9 | 39.8 | 26.0 |
| 25 | 45.0 | 25.5 | 45.2 | 22.6 | 45.4 | 24.1 | 43.3 | 26.9 |
| 26 | 44.4 | 29.4 | 44.0 | 26.5 | 45.1 | 27.4 | 41.7 | 27.0 |
| 27 | 42.6 | 28.4 | 42.8 | 24.4 | 43.0 | 27.4 | 40.8 | 28.2 |
| 28 | 43.4 | 26.4 | 43.0 | 24.5 | 43.5 | 27.8 | 41.5 | 27.7 |
| 29 | 40.2 | 28.4 | 40.3 | 23.0 | 41.7 | 26.6 | 39.5 | 27.5 |
| 30 | 40.2 | 27.5 | 40.7 | 23.5 | 38.2 | 25.6 | 38.9 | 26.4 |
| MEANS | 42.2 | 26.8 | 42.8 | 24.9 | 42.4 | 26.7 | 40.7 | 27.0 |
| Departure from normal | .... | .... | +0.2 | +2.4 | +3.8 | +1.8 | +2.3 | -0.1 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 47.0 | 26th | 1963 | 22.4 | 12th | 1963 |
| DIWANIYA | 47.0 | 2nd | 1962 | 14.4 | 18t | 1942 |
| NASIRIYA | 48.3 | 27th | 1955 | 18.3 | 26th | 1945 |
| BASRAH | 48.2 | 26th | 1957 | 20.5 | 18t | 1952 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| | T I M E - G . M . T . | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
| SINJAR | .... | 27.0 | 31.0 | 34.0 | 35.1 | 34.3 | 30.6 | .... | 32.0 |
| MOSUL | 25.1 | 22.9 | 31.7 | 37.4 | 39.2 | 37.6 | 32.2 | 28.6 | 31.8 |
| KIRKUK | 26.9 | 26.0 | 33.9 | 37.5 | 38.9 | 37.8 | 31.5 | 28.6 | 32.6 |
| KHANAQIN | .... | 24.7 | 35.8 | 39.3 | 40.5 | 38.9 | 33.1 | .... | 35.4 |
| RUTBAH | 22.7 | 21.1 | 27.9 | 32.8 | 35.7 | 38.9 | 29.3 | 25.6 | 28.8 |
| HABBANIYA | 26.6 | 25.5 | 33.5 | 39.4 | 41.1 | 39.3 | 31.9 | 29.0 | 33.3 |
| BAGHDAD | 28.3 | 26.5 | 33.7 | 39.2 | 41.1 | 39.6 | 34.5 | 30.5 | 34.2 |
| NUKHAIB | .... | .... | 31.7 | 34.5 | 39.2 | 38.9 | .... | .... | 36.1 |
| HAI | 27.1 | 26.6 | 35.1 | 40.9 | 41.8 | 38.3 | 32.5 | .... | 34.6 |
| NAJAF | 29.9 | 27.3 | 34.6 | 40.0 | 41.8 | 40.7 | 35.2 | .... | 35.6 |
| DIWANIYA | 26.9 | 25.9 | 36.1 | 41.3 | 42.5 | 40.1 | 32.7 | 29.4 | 34.4 |
| NASIRIYA | 27.5 | 27.5 | 34.4 | 40.2 | 41.4 | 39.0 | 33.6 | 30.5 | 34.3 |
| BASRAH | 28.8 | 28.1 | 34.9 | 38.7 | 39.8 | 37.0 | 32.8 | 30.6 | 33.8 |

TABLE 6 . معدل الشهري لضغط البخار ( ملليبارات )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 10.6 | 10.9 | 10.4 | 10.2 | 10.1 | 9.9 | .... | 10.3 |
| MOSUL | 11.3 | 12.4 | 14.1 | 14.0 | 12.1 | 11.3 | 11.3 | 11.0 | 12.2 |
| KIRKUK | 9.0 | 9.7 | 9.7 | 7.7 | 7.1 | 6.9 | 9.1 | 9.4 | 8.6 |
| KHANAQIN | ... | 7.9 | 9.5 | 9.5 | 9.6 | 9.0 | 9.8 | ... | 9.2 |
| RUTBAH | 9.6 | 11.1 | 11.0 | 9.8 | 8.4 | 7.9 | 8.6 | 8.6 | 9.4 |
| HABBANIYA | 14.5 | 14.2 | 15.4 | 13.9 | 12.7 | 14.0 | 15.3 | 14.4 | 14.3 |
| BAGHDAD | 10.9 | 10.7 | 11.7 | 10.3 | 9.6 | 9.9 | 11.0 | 11.0 | 10.6 |
| NUKHAIB | .... | .... | 9.2 | 7.0 | 9.7 | 9.1 | ... | .... | 8.8 |
| HAI | 11.7 | 12.3 | 16.1 | 13.4 | 13.5 | 14.7 | 13.8 | .... | 13.6 |
| NAJAF | 13.0 | 12.8 | 14.5 | 13.1 | 13.2 | 12.9 | 14.9 | .... | 13.4 |
| DIWANIYA | 13.5 | 13.5 | 14.5 | 14.3 | 14.0 | 13.4 | 14.3 | 13.3 | 13.9 |
| NASIRIYA | 14.7 | 15.1 | 16.8 | 15.2 | 14.6 | 16.7 | 19.1 | 17.3 | 16.2 |
| BASRAH | 20.4 | 22.2 | 24.0 | 23.6 | 23.1 | 25.4 | 26.2 | 23.8 | 23.6 |

TABLE 7 . معدل الشهري لحرارة الوصلة الرطبة ( سنتغراد )

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 16.6 | 18.3 | 19.1 | 19.6 | 19.2 | 17.6 | .... | 18.4 |
| MOSUL | 16.2 | 15.7 | 20.0 | 22.0 | 21.8 | 20.7 | 18.9 | 17.4 | 19.1 |
| KIRKUK | 15.7 | 15.7 | 18.8 | 19.2 | 19.4 | 19.0 | 17.7 | 16.6 | 17.8 |
| KHANAQIN | .... | 14.2 | 19.4 | 20.6 | 21.1 | 20.3 | 18.4 | .... | 19.0 |
| RUTBAH | 14.3 | 14.4 | 17.2 | 18.5 | 18.9 | 18.4 | 16.5 | 15.0 | 16.7 |
| HABBANIYA | 18.7 | 14.7 | 21.2 | 22.6 | 22.6 | 22.6 | 20.6 | 19.2 | 20.3 |
| BAGHDAD | 17.1 | 16.4 | 19.8 | 21.0 | 21.2 | 21.3 | 19.3 | 18.2 | 19.3 |
| NUKHAIB | .... | .... | 17.8 | 19.2 | 20.5 | 20.1 | .... | .... | 19.4 |
| HAI | 17.2 | 17.3 | 22.0 | 22.8 | 23.8 | 22.7 | 20.2 | .... | 20.9 |
| NAJAF | 18.9 | 17.8 | 21.3 | 22.4 | 23.1 | 22.6 | 21.6 | .... | 21.1 |
| DIWANIYA | 18.0 | 17.4 | 21.7 | 23.4 | 23.5 | 22.6 | 20.3 | 18.6 | 20.7 |
| NASIRIYA | 19.0 | 18.9 | 22.1 | 23.3 | 23.5 | 23.5 | 22.8 | 21.0 | 21.8 |
| BASRAH | 21.7 | 22.2 | 25.0 | 26.0 | 26.1 | 26.2 | 25.2 | 23.6 | 24.5 |

TABLE 8 . معدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 7.8 | 8.3 | 7.3 | 7.3 | 7.2 | 6.5 | ... | 7.4 |
| MOSUL | 8.6 | 10.0 | 12.0 | 11.7 | 9.5 | 8.6 | 8.6 | 8.2 | 9.7 |
| KIRKUK | 5.1 | 6.2 | 6.1 | 2.7 | 1.5 | 1.2 | 5.2 | 5.7 | 4.2 |
| KHANAQIN | ... | 3.4 | 5.8 | 5.9 | 6.1 | 5.2 | 6.6 | ... | 5.5 |
| RUTBAH | 6.2 | 8.4 | 8.2 | 6.4 | 3.1 | 3.0 | 4.4 | 4.7 | 5.6 |
| HABBANIYA | 12.4 | 12.6 | 13.1 | 11.6 | 10.3 | 11.7 | 13.2 | 12.2 | 12.1 |
| BAGHDAD | 8.1 | 8.1 | 9.5 | 7.3 | 6.1 | 6.7 | 8.1 | 8.2 | 7.8 |
| NUKHAIB | ... | ... | 5.6 | 5.7 | 6.2 | 5.2 | ... | ... | 5.7 |
| HAI | 9.2 | 10.0 | 13.9 | 11.0 | 11.2 | 12.4 | 11.7 | ... | 11.3 |
| NAJAF | 10.8 | 10.5 | 12.4 | 10.8 | 11.0 | 10.6 | 12.7 | .... | 11.3 |
| DIWANIYA | 11.2 | 11.4 | 12.3 | 12.3 | 11.7 | 11.1 | 11.7 | 10.9 | 11.6 |
| NASIRIYA | 12.4 | 12.8 | 14.6 | 12.8 | 12.2 | 14.3 | 16.6 | 14.8 | 13.8 |
| BASRAH | 17.6 | 18.7 | 20.1 | 19.9 | 19.5 | 21.2 | 21.5 | 20.5 | 19.8 |

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TABLE - 9.

MONTHLY MEAN RELATIVE HUMIDITY (%)

T I M E - G . M . T .

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 30 | 25 | 19 | 16 | 19 | 23 | [illegible] | 24 |
| MOSUL | 36 | 45 | 30 | 22 | 17 | 18 | 24 | [illegible] | [illegible] |
| KIRKUK | 26 | 30 | 19 | 12 | 10 | 11 | 20 | [illegible] | 19 |
| KHANAQIN | ... | 26 | 16 | 13 | 13 | 13 | 20 | [illegible] | 17 |
| RUTBAH | 35 | 45 | 30 | 20 | 15 | 24 | 30 | [illegible] | 26 |
| HABBANIYA | 33 | 45 | 30 | 20 | 16 | 20 | 33 | [illegible] | 29 |
| BAGHDAD | 30 | 32 | 23 | 15 | 12 | 16 | 21 | [illegible] | [illegible] |
| NUKHAIB | ... | ... | 20 | 17 | 13 | 13 | [illegible] | [illegible] | 16 |
| HAI | 33 | 36 | 28 | 18 | 17 | 22 | 28 | [illegible] | 26 |
| NAJAF | 34 | 35 | 26 | 18 | 16 | 17 | 26 | [illegible] | 24 |
| DIWANIYA | 38 | 41 | 24 | 18 | 16 | 18 | 25 | [illegible] | 27 |
| NASIRIYA | 34 | [illegible] | 32 | 21 | 15 | 25 | 37 | [illegible] | 32 |
| BASRAH | 52 | 59 | 43 | 35 | 32 | 47 | 53 | [illegible] | 46 |

TABLE -10.

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 04.1 | 04.0 | 03.2 | 02.4 | 01.7 | 03.1 | ... | 1003.1 |
| MOSUL | 03.8 | 04.3 | 04.3 | 03.1 | 01.5 | 00.9 | 02.3 | 03.2 | 1002.9 |
| KIRKUK | 03.4 | 03.8 | 03.4 | 02.6 | 01.3 | 00.5 | 02.6 | 03.3 | 1002.[illegible] |
| KHANAQIN | .... | 03.4 | 01.5 | 01.0 | 00.0 | 00.0 | 01.4 | ... | 1001.2 |
| RUTBAH | 04.3 | 05.2 | 05.5 | 05.0 | 04.2 | 04.3 | 03.5 | 04.0 | 1004.[illegible] |
| HABBANIYA | 02.6 | 03.1 | 03.9 | 02.9 | 02.1 | 01.3 | 02.2 | 02.3 | 1002.6 |
| BAGHDAD | 02.0 | 02.7 | 03.4 | 02.7 | 01.9 | 01.2 | 01.6 | 02.5 | 1002.2 |
| NUKHAIB | .... | .... | 03.3 | 04.0 | 02.1 | 01.4 | .... | .... | 1003.3 |
| HAI | 00.6 | 01.1 | 01.7 | 01.5 | 00.5 | 00.0 | 00.9 | .... | 1000.9 |
| NAJAF | 01.6 | 02.3 | 03.2 | 02.9 | 01.5 | 00.7 | 01.4 | .... | 1001.9 |
| DIWANIYA | 02.0 | 02.7 | 03.2 | 03.0 | 01.8 | 01.2 | 01.7 | 01.9 | 1002.2 |
| NASIRIYA | 00.9 | 01.4 | 02.1 | 01.9 | 00.8 | 00.2 | 01.1 | 01.0 | 1001.[illegible] |
| BASRAH | 00.7 | 01.1 | 02.0 | 01.9 | 01.0 | 00.4 | 00.8 | 01.9 | 1001.[illegible] |

TABLE -11.

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

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

TABLE - 12.

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 0.6 | 0.5 | 1.2 | 1.7 | 1.2 | 0.7 | ... | 1.0 |
| MOSUL | 0.9 | 1.0 | 1.0 | 1.4 | 2.0 | 1.8 | 1.2 | 0.7 | 1.3 |
| KIRKUK | 0.3 | 0.4 | 0.1 | 0.6 | 0.9 | 0.9 | 0.4 | 0.4 | 0.5 |
| KHANAQIN | ... | 0.5 | 0.5 | 0.6 | 0.8 | 0.8 | 0.4 | ... | 0.7 |
| RUTBAH | 0.1 | 0.4 | 0.3 | 0.8 | 1.2 | 1.2 | 0.2 | 0.1 | 0.5 |
| HABBANIYA | 0.6 | 0.8 | 0.7 | 0.7 | 0.9 | 0.7 | 0.5 | 0.3 | 0.7 |
| BAGHDAD | 0.4 | 0.7 | 0.6 | 0.9 | 0.7 | 0.7 | 0.6 | 0.4 | 0.6 |
| NUKHAIB | ... | ... | 0.5 | 0.8 | 0.9 | 0.9 | ... | ... | 0.8 |
| HAI | 0.0 | 0.7 | 0.8 | 0.6 | 0.5 | 0.5 | 0.2 | ... | 0.5 |
| NAJAF | 0.5 | 0.4 | 0.3 | 0.5 | 0.8 | 1.0 | 0.7 | ... | 0.6 |
| DIWANIYA | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | 0.5 |
| NASIRIYA | 0.4 | 0.5 | 0.7 | 0.9 | 0.7 | 0.7 | 0.0 | 0.0 | 0.5 |
| BASRAH | 0.3 | 0.5 | 0.4 | 0.7 | 0.9 | 0.7 | 0.1 | 0.1 | 0.5 |

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TABLE 13-a. عدد تكرار وحدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل سرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 14 | 1 | 0 | 0 | 1 | 0 | 2 | 4 | 8 | 20 | 2 | 0 | 0 | 6 |
| | 0600 | 5 | 2 | 4 | 0 | 3 | 0 | 8 | 4 | 4 | 24 | 2 | 0 | 0 | 6 |
| | 0900 | 0 | 1 | 2 | 2 | 5 | 1 | 12 | 4 | 3 | 20 | 7 | 0 | 0 | 8 |
| | 1200 | 2 | 0 | 0 | 0 | 8 | 1 | 12 | 5 | 2 | 14 | 13 | 1 | 0 | 10 |
| | 1500 | 2 | 0 | 0 | 0 | 7 | 0 | 17 | 0 | 4 | 17 | 8 | 1 | 0 | 8 |
| | 1800 | 4 | 0 | 0 | 0 | 2 | 0 | 12 | 7 | 5 | 23 | 2 | 0 | 0 | 6 |
| | TOTAL | 27 | 4 | 6 | 2 | 26 | 2 | 63 | 24 | 26 | 118 | 34 | 2 | 0 | 6 |
| موصل MOSUL | 0000 | 1 | 0 | 0 | 0 | 3 | 0 | 5 | 6 | 15 | 11 | 4 | 0 | 0 | 4 |
| | 0300 | 2 | 1 | 0 | 1 | 3 | 1 | 4 | 5 | 13 | 16 | 1 | 0 | 0 | 4 |
| | 0600 | 9 | 1 | 3 | 1 | 1 | 0 | 3 | 10 | 2 | 21 | 7 | 0 | 0 | 8 |
| | 0900 | 3 | 1 | 5 | 3 | 4 | 2 | 7 | 4 | 1 | 18 | 11 | 0 | 0 | 9 |
| | 1200 | 5 | 1 | 2 | 0 | 7 | 0 | 8 | 7 | 0 | 15 | 15 | 0 | 0 | 10 |
| | 1500 | 2 | 2 | 1 | 0 | 7 | 1 | 10 | 6 | 1 | 19 | 10 | 0 | 0 | 10 |
| | 1800 | 3 | 0 | 0 | 0 | 2 | 1 | 13 | 8 | 3 | 17 | 10 | 0 | 0 | 9 |
| | 2100 | 2 | 1 | 0 | 1 | 0 | 0 | 6 | 12 | 8 | 16 | 6 | 0 | 0 | 8 |
| | TOTAL | 27 | 7 | 11 | 6 | 27 | 5 | 56 | 58 | 43 | 133 | 64 | 0 | 0 | 8 |
| كركوك KIRKUK | 0000 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 20 | 8 | 2 | 0 | 0 | 3 |
| | 0300 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 25 | 5 | 0 | 0 | 0 | 1 |
| | 0600 | 1 | 1 | 0 | 1 | 2 | 1 | 5 | 2 | 17 | 12 | 0 | 1 | 0 | 3 |
| | 0900 | 0 | 0 | 1 | 1 | 1 | 5 | 9 | 3 | 10 | 16 | 3 | 1 | 0 | 6 |
| | 1200 | 1 | 0 | 0 | 1 | 2 | 10 | 10 | 1 | 5 | 17 | 8 | 0 | 0 | 8 |
| | 1500 | 1 | 0 | 0 | 0 | 1 | 6 | 15 | 2 | 5 | 18 | 7 | 0 | 0 | 7 |
| | 1800 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 1 | 21 | 8 | 0 | 1 | 0 | 2 |
| | 2100 | 1 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 23 | 7 | 0 | 0 | 0 | 1 |
| | TOTAL | 4 | 16 | 3 | 3 | 7 | 23 | 48 | 10 | 126 | 91 | 20 | 3 | 0 | 4 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 7 | 0 | 6 | 0 | 2 | 0 | 15 | 15 | 0 | 0 | 0 | 2 |
| | 0600 | 5 | 0 | 2 | 0 | 4 | 0 | 4 | 1 | 14 | 16 | 0 | 0 | 0 | 3 |
| | 0900 | 2 | 1 | 1 | 0 | 5 | 0 | 11 | 6 | 4 | 25 | 1 | 0 | 0 | 5 |
| | 1200 | 2 | 0 | 2 | 0 | 6 | 0 | 11 | 9 | 0 | 28 | 1 | 1 | 0 | 7 |
| | 1500 | 6 | 0 | 0 | 0 | 2 | 0 | 16 | 5 | 1 | 29 | 0 | 0 | 0 | 5 |
| | 1800 | 1 | 0 | 0 | 0 | 3 | 0 | 8 | 3 | 15 | 15 | 0 | 0 | 0 | 2 |
| | TOTAL | 16 | 1 | 12 | 0 | 26 | 0 | 52 | 24 | 49 | 128 | 2 | 1 | 0 | 4 |
| رطبة RUTBAH | 0000 | 5 | 0 | 0 | 1 | 0 | 0 | 4 | 12 | 8 | 8 | 10 | 4 | 0 | 10 |
| | 0300 | 2 | 0 | 0 | 0 | 0 | 1 | 12 | 8 | 7 | 19 | 4 | 0 | 0 | 6 |
| | 0600 | 4 | 1 | 2 | 0 | 0 | 0 | 7 | 8 | 8 | 18 | 4 | 0 | 0 | 6 |
| | 0900 | 3 | 0 | 1 | 2 | 2 | 3 | 10 | 2 | 5 | 22 | 3 | 0 | 0 | 5 |
| | 1200 | 0 | 0 | 1 | 2 | 4 | 4 | 16 | 2 | 1 | 19 | 10 | 0 | 0 | 9 |
| | 1500 | 2 | 0 | 3 | 0 | 1 | 4 | 16 | 3 | 1 | 18 | 11 | 0 | 0 | 9 |
| | 1800 | 1 | 1 | 1 | 0 | 0 | 0 | 12 | 11 | 4 | 23 | 3 | 0 | 0 | 8 |
| | 2100 | 4 | 1 | 1 | 0 | 0 | 0 | 9 | 11 | 4 | 17 | 9 | 0 | 0 | 8 |
| | TOTAL | 21 | 3 | 9 | 5 | 7 | 14 | 86 | 57 | 38 | 144 | 54 | 4 | 0 | 7 |

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TABLE 13-b.

حزيران ١٩٦٤

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND. NUMBER OF OBSERVATIONS OF :

| المحطة | وقت كرينتش | DIRECTION الاتجاه | | | | | | | | ريح ساكن | SPEED IN KNOTS السرعة بالعقد | | | | معدل السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATIONS | TIME GMT. | N | NE | E | SE | S | SW | W | NW | CALM | 1-10 | 11-21 | 22-33 | 34 | MEAN V.K. |
| حبانية | 0000 | 3 | 0 | 3 | 2 | 1 | 0 | 6 | 5 | 10 | 19 | 1 | 0 | 0 | 4 |
| | 0300 | 2 | 1 | 1 | 0 | 0 | 1 | 12 | 8 | 5 | 23 | 2 | 0 | 0 | 5 |
| | 0600 | 4 | 0 | 0 | 0 | 0 | 1 | 11 | 13 | 1 | 14 | 15 | 0 | 0 | 11 |
| | 0900 | 3 | 1 | 1 | 0 | 2 | 0 | 11 | 12 | 0 | 18 | 12 | 0 | 0 | 9 |
| HABBANIYA | 1200 | 4 | 2 | 0 | 0 | 1 | 3 | 12 | 6 | 2 | 18 | 10 | 0 | 0 | 8 |
| | 1500 | 5 | 1 | 0 | 0 | 0 | 0 | 13 | 9 | 2 | 25 | 3 | 0 | 0 | 8 |
| | 1800 | 4 | 1 | 1 | 1 | 0 | 0 | 6 | 7 | 10 | 20 | 0 | 0 | 0 | 3 |
| | 2100 | 4 | 1 | 2 | 0 | 0 | 0 | 7 | 7 | 9 | 18 | 3 | 0 | 0 | 4 |
| | TOTAL | 29 | 7 | 8 | 3 | 4 | 5 | 78 | 67 | 39 | 155 | 46 | 0 | 0 | 7 |
| بغداد | 0000 | 10 | 2 | 1 | 0 | 0 | 0 | 2 | 10 | 5 | 21 | 4 | 0 | 0 | 6 |
| | 0300 | 11 | 2 | 0 | 0 | 1 | 0 | 1 | 10 | 5 | 20 | 5 | 0 | 0 | 6 |
| | 0600 | 8 | 1 | 1 | 0 | 1 | 0 | 2 | 15 | 2 | 18 | 10 | 0 | 0 | 9 |
| | 0900 | 13 | 0 | 0 | 1 | 2 | 1 | 2 | 10 | 1 | 15 | 14 | 0 | 0 | 10 |
| BAGHDAD | 1200 | 4 | 0 | 0 | 3 | 0 | 1 | 13 | 8 | 1 | 13 | 15 | 1 | 0 | 11 |
| | 1500 | 2 | 0 | 0 | 1 | 1 | 0 | 10 | 14 | 2 | 20 | 7 | 1 | 0 | 9 |
| | 1800 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 6 | 20 | 4 | 0 | 0 | 6 |
| | 2100 | 10 | 0 | 0 | 0 | 0 | 1 | 1 | 12 | 6 | 20 | 4 | 0 | 0 | 6 |
| | TOTAL | 61 | 5 | 2 | 5 | 5 | 3 | 32 | 95 | 32 | 143 | 62 | 3 | 0 | 8 |
| نخيب | 0600 | 18 | 0 | 4 | 1 | 0 | 0 | 3 | 3 | 1 | 16 | 13 | 0 | 0 | 10 |
| | 0900 | 11 | 0 | 5 | 0 | 0 | 0 | 6 | 4 | 4 | 20 | 6 | 0 | 0 | 7 |
| NUKHAIB | 1200 | 9 | 1 | 4 | 1 | 0 | 0 | 4 | 8 | 3 | 25 | 2 | 0 | 0 | 7 |
| | 1500 | 7 | 0 | 3 | 0 | 2 | 1 | 6 | 4 | 7 | 19 | 4 | 0 | 0 | 5 |
| | TOTAL | 45 | 1 | 16 | 2 | 2 | 1 | 19 | 19 | 15 | 80 | 25 | 0 | 0 | 7 |
| حي | 0000 | 1 | 0 | 0 | 0 | 0 | 1 | 24 | 1 | 3 | 24 | 3 | 0 | 0 | 6 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 2 | 24 | 3 | 1 | 28 | 1 | 0 | 0 | 5 |
| | 0600 | 1 | 1 | 0 | 0 | 1 | 0 | 18 | 6 | 3 | 22 | 5 | 0 | 0 | 6 |
| | 0900 | 0 | 0 | 2 | 0 | 0 | 0 | 23 | 4 | 1 | 19 | 9 | 1 | 0 | 9 |
| HAI | 1200 | 0 | 1 | 0 | 1 | 0 | 0 | 24 | 2 | 2 | 17 | 10 | 1 | 0 | 9 |
| | 1500 | 0 | 1 | 1 | 0 | 0 | 0 | 23 | 4 | 1 | 24 | 5 | 0 | 0 | 7 |
| | 1800 | 0 | 0 | 1 | 0 | 1 | 1 | 23 | 2 | 2 | 27 | 1 | 0 | 0 | 5 |
| | TOTAL | 2 | 3 | 4 | 1 | 2 | 4 | 159 | 22 | 13 | 161 | 34 | 2 | 0 | 7 |
| نجف | 0000 | 15 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 6 | 24 | 0 | 0 | 0 | 5 |
| | 0300 | 20 | 1 | 1 | 2 | 0 | 0 | 3 | 2 | 1 | 28 | 1 | 0 | 0 | 5 |
| | 0600 | 21 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 2 | 19 | 9 | 0 | 0 | 9 |
| | 0900 | 20 | 3 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 21 | 8 | 0 | 0 | 9 |
| NAJAF | 1200 | 23 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 20 | 8 | 0 | 0 | 9 |
| | 1500 | 16 | 4 | 3 | 1 | 0 | 0 | 3 | 3 | 0 | 22 | 8 | 0 | 0 | 9 |
| | 1800 | 15 | 4 | 2 | 3 | 1 | 0 | 0 | 1 | 4 | 25 | 1 | 0 | 0 | 5 |
| | TOTAL | 30 | 15 | 11 | 10 | 8 | 1 | 9 | 10 | 16 | 159 | 35 | 0 | 0 | 7 |

TABLE 13-a. عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت گرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 12 | 1 | 2 | 0 | 0 | 0 | 7 | 1 | 7 | 15 | 8 | 0 | 0 | 5 |
| | 0300 | 11 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 15 | 7 | 0 | 0 | 6 |
| | 0600 | 15 | 2 | 1 | 1 | 1 | 1 | 8 | 1 | 0 | 13 | 17 | 0 | 0 | 10 |
| | 0900 | 12 | 1 | 0 | 1 | 1 | 0 | 10 | 2 | 3 | 10 | 17 | 0 | 0 | 10 |
| | 1200 | 14 | 1 | 0 | 0 | 0 | 2 | 12 | 1 | 0 | 15 | 14 | 1 | 0 | 10 |
| | 1500 | 14 | 0 | 0 | 0 | 0 | 1 | 8 | 5 | 2 | 17 | 11 | 0 | 0 | 7 |
| | 1800 | 10 | 4 | 2 | 0 | 0 | 0 | 7 | 4 | 3 | 26 | 1 | 0 | 0 | 5 |
| | 2100 | 15 | 2 | 3 | 0 | 0 | 0 | 5 | 2 | 3 | 22 | 5 | 0 | 0 | 6 |
| | TOTAL | 103 | 13 | 8 | 2 | 2 | 4 | 66 | 16 | 26 | 133 | 80 | 1 | 0 | 8 |
| ناصرية NASIRIYA | 0000 | 10 | 0 | 1 | 0 | 2 | 0 | 10 | 5 | 2 | 23 | 5 | 0 | 0 | 6 |
| | 0300 | 9 | 1 | 0 | 1 | 1 | 2 | 8 | 5 | 3 | 25 | 1 | 0 | 0 | 5 |
| | 0600 | 4 | 2 | 0 | 1 | 0 | 1 | 9 | 13 | 0 | 29 | 1 | 0 | 0 | 7 |
| | 0900 | 3 | 0 | 1 | 1 | 0 | 0 | 10 | 15 | 0 | 22 | 8 | 0 | 0 | 9 |
| | 1200 | 5 | 0 | 0 | 2 | 0 | 0 | 9 | 14 | 0 | 23 | 7 | 0 | 0 | 9 |
| | 1500 | 7 | 0 | 2 | 3 | 0 | 1 | 5 | 12 | 0 | 24 | 6 | 0 | 0 | 8 |
| | 1800 | 3 | 0 | 2 | 4 | 1 | 1 | 3 | 16 | 0 | 29 | 1 | 0 | 0 | 6 |
| | 2100 | 6 | 0 | 1 | 3 | 1 | 0 | 6 | 12 | 1 | 29 | 0 | 0 | 0 | 5 |
| | TOTAL | 47 | 3 | 7 | 15 | 5 | 5 | 60 | 92 | 6 | 205 | 29 | 0 | 0 | 7 |
| بصرة BASRAH | 0000 | 11 | 1 | 0 | 0 | 0 | 2 | 6 | 10 | 0 | 26 | 4 | 0 | 0 | 6 |
| | 0300 | 8 | 1 | 0 | 0 | 0 | 0 | 7 | 14 | 0 | 28 | 2 | 0 | 0 | 6 |
| | 0600 | 11 | 1 | 0 | 0 | 0 | 0 | 1 | 17 | 0 | 22 | 8 | 0 | 0 | 8 |
| | 0900 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 26 | 0 | 12 | 18 | 0 | 0 | 11 |
| | 1200 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 11 | 19 | 0 | 0 | 11 |
| | 1500 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 0 | 27 | 3 | 0 | 0 | 7 |
| | 1800 | 10 | 3 | 0 | 0 | 0 | 0 | 3 | 14 | 0 | 25 | 5 | 0 | 0 | 7 |
| | 2100 | 11 | 1 | 0 | 0 | 0 | 4 | 1 | 11 | 2 | 24 | 4 | 0 | 0 | 7 |
| | TOTAL | 69 | 8 | 0 | 0 | 0 | 6 | 20 | 135 | 2 | 175 | 63 | 0 | 0 | 8 |

TABLE -14 . اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED DURING ONE HOUR

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K) | | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|---|
| SINJAR | 30 | Knots | 360 | 1200 | 4th |
| MOSUL | 18 | | 300 | 2100 | 11th |
| KIRKUK | 25 | | 210 | 0600 | 3rd |
| KHANAQIN | 23 | | 320 | 1200 | 11th |
| RUTBAH | 28 | | 340 | 0000 | 16th |
| HABBANIYA | 21 | | 290 | 0600 | 14th |
| BAGHDAD | 25 | | 300 | 1800 | 4th |
| HAI | 25 | | 270 | 1200 | 12th |
| NAJAF | 20 | | 360 | 0900 | 14th |
| DIWANIYA | 23 | | 270 | 1200 | 30th |
| NASIRIYA | 17 | | 230 | 1500 | 5th |
| BASRAH | 20 | | 320 | 0900 | 20th |
| NUKHAIB | 18 | | 360 | 0600 | 14th |

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TABLE 15-a.



حزيران ١٩٦٤

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATIONS ( MILLIMETERS )

| الايام | سنجار | موصل | كركوك | خانقين | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | KHANAQIN | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | | | | | | | |
| 2 | tr. | | | | tr. | | |
| 3 | | | | | tr. | | |
| 4 | 1.6 | tr. | | | | tr. | |
| 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 | 1.6 | tr. | | | tr. | tr. | |
| NORMAL | 0.0 | 0.7 | 0.2 | 0.4 | 0.7 | 0.0 | 0.1 |

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

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TABLE 15-b.

DAILY PRECIPITATION ( MILLIMETERS )

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

| STATIONS | HIGHEST AMOUNT OF RAIN IN ONE DAY | DAY | YEAR |
|---|---|---|---|
| HAI | 0.3 mm | 4th | 1957 |
| NAJAF | tr. | 1st | 1963 |
| DIWANIYA | tr. | 11th | 1944 |
| NASIRIYA | tr. | 5th | 1964 |
| BASRAH | tr. | 2nd | 1958 |

## CLIMATOLOGICAL SUMMARY الملخصات المناخيـــــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA: عدد الايام التي حدثت فيها الظواهر الجوية

| ATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NJAR | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1 |
| SUL | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 22 | 1 |
| RKUK | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 9 | 9 | 0 | 0 | 27 | 0 |
| ANAQIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 26 | 1 |
| TBAH | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 26 | 0 |
| BBANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 0 | 26 | 0 |
| GHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 6 | 6 | 2 | 0 | 25 | 0 |
| KHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 26 | 1 |
| I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 27 | 1 |
| JAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 26 | 1 |
| WANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 3 | 2 | 0 | 27 | 1 |
| SIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 18 | 3 | 0 | 26 | 1 |
| SRAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 1 | 0 | 26 | 0 |

BLE - 17 .

DURATION OF SUNSHINE مدة سطوع الشمس

| ATION | MONTHLY TOTAL SUNSHINE HOURS | MAX SUNSHINE DURING ONE DAY HOURS | MAX SUNSHINE DURING ONE DAY DAY | No. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| OSUL | 372.7 | 14.2 | 12th | 0 |
| ABBANIYA | 359.9 | 13.3 | 19th | 0 |
| AGHDAD | 331.7 | 13.2 | 27th | 0 |
| ASRAH | 336.7 | 13.3 | 15th | 0 |

TABLE - 18. المعدل الشهري لحرارة الحشيش و التربـــة ( سنتغراد )

MONTHLY MEAN TEMPERATURE OF :

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | ,,,, | 31.5 | ,,,, |
| KIRKUK | 16.4 | 27.6 | 24.3 |
| HABBANIYA | 23.2 | 34.6 | 29.5 |
| BAGHDAD | 20.5 | 33.3 | 28.0 |
| NAJAF | ,,,, | 34.6 | 33.0 |
| NASIRIYA | 24.6 | 35.4 | 29.0 |
| BASRAH | 19.8 | ,,,, | ,,,, |

JULY 1964 ( 7 )

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الانواء الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر تموز ١٩٦٤

مجلد ٢٧ ، عدد ( ٧ ) تموز ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR JULY 1964

VOLUME 27 , No. ( 7 ) , J U L Y 1 9 6 4

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| Maximum & Minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative-humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest wind-speed during one hour | 14 | 13 |
| Daily precipitation | 15a&b | 14-15 |
| Climatological summary | 16 | 16 |
| Duration of sunshine | 17 | 16 |
| Monthly mean temperature of grass & earth | 18 | 16 |


NOTES ON TABLES AND GEOGRAPHICAL DATA SEE: JANUARY 1964.

JULY 1964 . تموز ١٩٦٤

TABLE 1-a.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | هبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 31.8 | 30.9 | 32.2 | 28.3 | 28.5 | 33.2 |
| 2 | 32.1 | 32.1 | 32.1 | 28.6 | 32.2 | 32.5 |
| 3 | 35.3 | 34.9 | 34.6 | 28.8 | 33.9 | 33.6 |
| 4 | 33.3 | 34.3 | 34.5 | 28.1 | 33.3 | 33.7 |
| 5 | 35.9 | 33.7 | 33.7 | 28.1 | 33.4 | 32.2 |
| 6 | 36.3 | 35.0 | 34.8 | 27.8 | 34.0 | 32.7 |
| 7 | 36.5 | 36.2 | 34.2 | 28.9 | 33.4 | 32.5 |
| 8 | 36.9 | 35.2 | 34.6 | 32.1 | 33.6 | 33.3 |
| 9 | 33.3 | 32.9 | 33.6 | 29.4 | 33.8 | 33.6 |
| 10 | 32.1 | 32.6 | 34.6 | 28.6 | 34.0 | 33.8 |
| 11 | 31.7 | 33.2 | 32.5 | 26.9 | 32.7 | 32.6 |
| 12 | 35.9 | 35.0 | 34.3 | 29.0 | 34.0 | 33.0 |
| 13 | 39.5 | 38.3 | 39.3 | 31.2 | 34.5 | 34.6 |
| 14 | 39.5 | 38.4 | 40.6 | 32.4 | 36.4 | 38.4 |
| 15 | 38.3 | 38.9 | 38.9 | 33.2 | 37.3 | 39.3 |
| 16 | 36.3 | 37.2 | 37.5 | 34.0 | 37.1 | 39.3 |
| 17 | 34.0 | 36.3 | 36.3 | 32.1 | 35.2 | 36.7 |
| 18 | 34.7 | 34.2 | 34.8 | 32.4 | 34.2 | 35.3 |
| 19 | 35.7 | 34.5 | 36.0 | 30.4 | 34.9 | 35.2 |
| 20 | 35.9 | 35.1 | 35.5 | 30.8 | 35.2 | 34.0 |
| 21 | 33.4 | 34.3 | 34.6 | 31.0 | 34.8 | 35.4 |
| 22 | 35.3 | 35.2 | 35.3 | 31.3 | 35.1 | 35.0 |
| 23 | 36.4 | 36.2 | 36.8 | 31.9 | 36.0 | 35.9 |
| 24 | 36.0 | 35.8 | 36.9 | 32.6 | 36.6 | 35.7 |
| 25 | 37.1 | 36.0 | 36.4 | 31.8 | 35.4 | 36.7 |
| 26 | 37.6 | 35.9 | 35.6 | 30.8 | 34.0 | 34.6 |
| 27 | 37.2 | 36.1 | 35.8 | 32.1 | 34.7 | 33.5 |
| 28 | 36.3 | 35.1 | 36.4 | 33.2 | 35.7 | 35.2 |
| 29 | 35.5 | 34.5 | 35.6 | 31.6 | 35.5 | 35.3 |
| 30 | 35.4 | 33.6 | 35.1 | 31.1 | 35.1 | 34.7 |
| 31 | 34.1 | 33.3 | 34.4 | 31.9 | 34.5 | 34.7 |
| MEANS | 35.1 | 35.0 | 35.4 | 30.7 | 34.5 | 34.7 |
| departure from normal | .... | +1.3 | +0.3 | +0.6 | -0.4 | -0.3 |

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

T I M E - G . M . T

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

JULY 1964 .
TABLE 1-b.

تموز ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 35.4 | 33.8 | 34.3 | 32.5 | 31.9 | 32.0 |
| 2 | 35.4 | 33.8 | 33.7 | 32.7 | 31.0 | 31.5 |
| 3 | 36.3 | 33.9 | 35.1 | 33.3 | 31.5 | 31.9 |
| 4 | 36.5 | 34.5 | 35.2 | 33.7 | 32.0 | 32.6 |
| 5 | 36.1 | 33.7 | 35.5 | 32.2 | 31.7 | 31.7 |
| 6 | 36.9 | 33.6 | 35.7 | 32.9 | 32.2 | 31.7 |
| 7 | 35.4 | 33.5 | 35.1 | 31.2 | 33.2 | 31.7 |
| 8 | 37.8 | 32.7 | 35.2 | 33.0 | 33.6 | 33.4 |
| 9 | 37.2 | 33.3 | 36.4 | 35.1 | 35.0 | 34.4 |
| 10 | 36.0 | 35.1 | 36.0 | 33.8 | 34.0 | 33.8 |
| 11 | 35.2 | 34.0 | 34.9 | 33.7 | 31.6 | 32.6 |
| 12 | 36.0 | 33.8 | 35.0 | 33.5 | 31.3 | 30.4 |
| 13 | 39.6 | 35.2 | 36.7 | 34.6 | 35.0 | 31.7 |
| 14 | 42.0 | 36.7 | 40.4 | 37.9 | 36.5 | 35.6 |
| 15 | 41.7 | 36.9 | 39.2 | 36.9 | 36.8 | 36.1 |
| 16 | 41.6 | 37.9 | 40.1 | 37.9 | 37.8 | 35.7 |
| 17 | 39.5 | 39.3 | 40.0 | 37.7 | 38.9 | 37.4 |
| 18 | 39.3 | 34.1 | 38.9 | 36.6 | 36.9 | 35.2 |
| 19 | 38.2 | 36.3 | 39.4 | 36.8 | 37.7 | 35.1 |
| 20 | 38.3 | 35.4 | 37.2 | 34.7 | 35.9 | 34.9 |
| 21 | 38.6 | 35.3 | 38.2 | 35.7 | 35.7 | 35.3 |
| 22 | 39.3 | 35.7 | 38.3 | 37.0 | 36.3 | 35.0 |
| 23 | 40.9 | 35.7 | 38.6 | 36.0 | 35.7 | 34.3 |
| 24 | 41.0 | 36.3 | 39.3 | 35.9 | 35.9 | 34.9 |
| 25 | 40.4 | 35.9 | 38.4 | 36.2 | 35.7 | 35.0 |
| 26 | 39.5 | 35.4 | 37.3 | 34.1 | 35.9 | 34.7 |
| 27 | 39.5 | 35.8 | 37.7 | 35.4 | 36.1 | 34.7 |
| 28 | 40.5 | 35.1 | 37.6 | 35.5 | 36.6 | 35.6 |
| 29 | 40.1 | 34.3 | 35.7 | 36.0 | 36.7 | 35.0 |
| 30 | 39.1 | 34.9 | 39.2 | 35.3 | 36.1 | 36.5 |
| 31 | 38.3 | 35.3 | 36.9 | 34.8 | 35.0 | 34.9 |
| MEANS | 38.4 | 35.1 | 37.1 | 34.9 | 34.8 | 34.0 |
| departure from normal | .... | -0.7 | .... | +1.0 | +0.7 | +0.2 |

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

JULY 1964 .
TABLE 2-a.

تموز ١٩٦٤
المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 999.3 | 999.3 | 999.2 | 1002.2 | 999.9 | 999.6 |
| 2 | 99.0 | 99.4 | 99.0 | 03.0 | 99.9 | 99.5 |
| 3 | 97.8 | 97.9 | 96.1 | 02.1 | 97.7 | 96.6 |
| 4 | 98.3 | 99.9 | 96.3 | 02.2 | 98.4 | 97.0 |
| 5 | 97.1 | 98.6 | 96.4 | 02.7 | 98.1 | 97.0 |
| 6 | 95.1 | 98.1 | 94.7 | 01.2 | 96.0 | 95.9 |
| 7 | 92.8 | 93.1 | 93.5 | 98.1 | 95.2 | 94.6 |
| 8 | 92.3 | 93.1 | 94.1 | 96.5 | 93.5 | 94.0 |
| 9 | 96.7 | 96.2 | 98.1 | 00.5 | 98.4 | 98.0 |
| 10 | 00.6 | 00.5 | 99.7 | 02.8 | 00.3 | 99.8 |
| 11 | 01.1 | 00.2 | 99.8 | 03.9 | 00.6 | 99.6 |
| 12 | 98.5 | 97.8 | 97.2 | 03.5 | 98.8 | 97.6 |
| 13 | 98.0 | 97.3 | 96.3 | 02.5 | 96.6 | 96.6 |
| 14 | 97.6 | 97.3 | 95.9 | 01.6 | 96.7 | 95.6 |
| 15 | 97.8 | 97.8 | 97.3 | 01.0 | 98.1 | 97.0 |
| 16 | 99.8 | 00.1 | 99.9 | 01.8 | 00.3 | 99.5 |
| 17 | 01.6 | 01.0 | 00.7 | 03.1 | 00.9 | 00.2 |
| 18 | 99.6 | 99.6 | 99.7 | 01.4 | 99.9 | 99.7 |
| 19 | 97.4 | 97.7 | 97.4 | 00.3 | 97.7 | 97.2 |
| 20 | 97.6 | 97.8 | 98.3 | 01.3 | 99.2 | 99.9 |
| 21 | 01.6 | 02.1 | 02.7 | 03.8 | 02.7 | 02.4 |
| 22 | 03.0 | 03.3 | 02.7 | 04.7 | 03.2 | 02.7 |
| 23 | 01.4 | 01.4 | 99.9 | 02.9 | 00.3 | 99.6 |
| 24 | 98.5 | 98.0 | 96.1 | 01.0 | 97.6 | 96.9 |
| 25 | 96.8 | 96.8 | 96.3 | 00.2 | 97.4 | 96.4 |
| 26 | 96.7 | 97.0 | 97.2 | 00.8 | 98.3 | 97.7 |
| 27 | 98.6 | 99.2 | 99.4 | 01.1 | 99.6 | 99.6 |
| 28 | 99.1 | 99.2 | 99.2 | 01.1 | 99.3 | 99.0 |
| 29 | 97.3 | 97.7 | 97.8 | 00.2 | 98.0 | 97.7 |
| 30 | 95.6 | 96.1 | 96.8 | 00.0 | 97.7 | 97.3 |
| 31 | 97.3 | 97.4 | 97.4 | 00.0 | 98.2 | 98.0 |
| MEANS | 998.3 | 998.4 | 997.9 | 1001.5 | 998.7 | 998.8 |
| departure from normal | .... | -0.1 | +0.5 | -1.0 | -1.2 | +0.3 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1003.9 | 22nd | 0600 | 1964 | 991.3 | 8th | 1500 | 1964 | 1964 |
| MOSUL | 1005.0 | 22nd | 0300 | 1964 | 990.5 | 7th | 1500 | 1964 | |
| KIRKUK | 1004.4 | 22nd | 0000 | 1964 | 991.5 | 7th | 1500 | 1964 | |
| RUTBAH | 1006.0 | 22nd | 0600 | 1964 | 995.5 | 8th | 1200 | 1964 | |
| HABBANIYA | 1004.7 | 22nd | 0600 | 1964 | 993.4 | 8th | 1500 | 1964 | |
| BAGHDAD | 1004.0 | 22nd | 0600 | 1964 | 993.0 | 8th | 0000 | 1964 | |
| SINJAR | 1005.8 | 4th | 1800 | 1962 | 991.3 | 8th | 1500 | 1964 | RECORD |
| MOSUL | 1015.0 | 23rd | 0600 | 1941 | 990.2 | 22nd | 1300 | 1939 | |
| KIRKUK | 1007.4 | 12th | 0300 | 1958 | 990.3 | 26th | 1800 | 1950 | |
| RUTBAH | 1010.8 | 2nd | 0600 | 1944 | 993.8 | 26th | 1200 | 1950 | |
| BAGHDAD | 1008.5 | 4th | 18&21 | 1957 | 990.0 | 19th | 0600 | 1948 | |

تموز ١٩٦٤

JULY 1964.
TABLE 2-4.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1001.4 | 997.8 | 999.2 | 998.6 | 998.5 | 998.2 |
| 2 | 01.7 | 97.3 | 99.3 | 99.5 | 97.7 | 97.1 |
| 3 | 00.0 | 95.2 | 97.6 | 97.2 | 95.8 | 95.3 |
| 4 | 00.0 | 95.4 | 97.7 | 97.8 | 96.2 | 95.8 |
| 5 | 99.7 | 95.8 | 98.2 | 98.0 | 96.6 | 96.0 |
| 6 | 99.0 | 94.4 | 96.6 | 97.0 | 95.9 | 95.3 |
| 7 | 97.4 | 94.1 | 95.4 | 95.9 | 95.5 | 95.6 |
| 8 | 95.1 | 93.7 | 94.1 | 94.8 | 94.7 | 96.0 |
| 9 | 99.2 | 96.7 | 97.2 | 98.2 | 97.3 | 98.0 |
| 10 | 02.0 | 98.5 | 99.8 | 00.2 | 99.3 | 99.0 |
| 11 | 02.4 | 97.3 | 99.7 | 99.7 | 97.9 | 96.8 |
| 12 | 01.7 | 95.8 | 98.5 | 98.4 | 96.9 | 95.7 |
| 13 | 99.5 | 95.7 | 96.6 | 97.2 | 95.8 | 95.7 |
| 14 | 98.4 | 94.0 | 95.1 | 95.8 | 94.6 | 95.1 |
| 15 | 99.5 | 94.8 | 96.8 | 96.9 | 96.0 | 96.1 |
| 16 | 00.8 | 96.9 | 99.0 | 98.9 | 97.5 | 98.2 |
| 17 | 02.0 | 97.0 | 99.9 | 99.7 | 98.0 | 97.4 |
| 18 | 00.7 | 97.5 | 99.6 | 99.5 | 98.0 | 97.6 |
| 19 | 98.8 | 96.1 | 97.3 | 97.5 | 96.5 | 96.5 |
| 20 | 00.4 | 97.6 | 98.8 | 99.3 | 98.6 | 98.8 |
| 21 | 03.2 | 00.1 | 01.8 | 02.2 | 01.5 | 01.7 |
| 22 | 03.5 | 00.6 | 02.2 | 02.3 | 01.1 | 00.7 |
| 23 | 01.7 | 98.3 | 99.9 | 99.9 | 99.0 | 98.8 |
| 24 | 99.2 | 96.1 | 97.3 | 97.5 | 96.5 | 96.3 |
| 25 | 98.3 | 94.6 | 96.4 | 96.6 | 95.2 | 94.9 |
| 26 | 99.2 | 96.4 | 98.0 | 98.4 | 97.2 | 96.7 |
| 27 | 00.5 | 99.0 | 99.6 | 00.1 | 99.5 | 98.5 |
| 28 | 00.4 | 99.0 | 99.3 | 99.9 | 99.5 | 00.1 |
| 29 | 99.6 | 97.4 | 97.6 | 98.2 | 97.8 | 98.5 |
| 30 | 99.0 | 96.4 | 96.9 | 97.6 | 97.0 | 97.5 |
| 31 | 99.0 | 97.6 | 98.1 | 98.7 | 98.0 | 98.4 |
| MEANS | 1000.1 | 996.7 | 998.2 | 998.4 | 997.4 | 997.3 |
| departure from normal | .... | -1.1 | .... | +0.4 | -0.4 | 0.0 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR |
|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1005.4 | 22nd | 0600 | 1964 | 993.7 | 21st | 1500 | 1964 |
| HAI | 1002.0 | 28th | 0600 | 1964 | 992.7 | 14th | 1500 | 1964 |
| NAJAF | 1003.8 | 22nd | 0900 | 1964 | 992.9 | 8th | 1500 | 1964 |
| DIWANIYA | 1003.4 | 22nd | 0900 | 1964 | 993.8 | 8th | 0000 | 1964 |
| NASIRIYA | 1002.7 | 21st | 0600 | 1964 | 993.6 | 14th | 1500 | 1964 |
| BASRAH | 1002.5 | 21st | 0900 | 1964 | 993.7 | 13th | 1500 | 1964 |
| NUKHAIB | 1005.6 | 7th | 0600 | 1963 | 993.7 | 21st | 1500 | 1964 |
| HAI | 1006.8 | 4th | 0900 | 1957 | 990.2 | 3rd | 0000 | 1959 |
| NAJAF | 1003.8 | 22nd | 0900 | 1964 | 991.7 | 22nd | 1800 | 1963 |
| DIWANIYA | 1007.9 | 12th | 0600 | 1958 | 991.1 | 26th | 1500 | 1954 |
| NASIRIYA | 1006.7 | 4th | 0600 | 1957 | 991.3 | 22nd | 1500 | 1956 |
| BASRAH | 1006.0 | 4th | 0900 | 1957 | 990.3 | 3rd | 1500 | 1959 |

تموز ١٩٦٤

JULY 1964 .

TABLE -3.

المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| الايام DATE | سنجار SIN-JAR | موصل MO-SUL | كركوك KIR-KUK | رطبة RUT-BAH | حبانية HABB-ANIYA | بغداد BAG-HDAD | نخيب NUKH-AIB | حي HAI | نجف NA-JAF | ديوانية DIWA-NIYA | ناصرية NASI-RIYA | بصرة BAS-RAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 26 | 26 | 18 | 25 | 33 | 28 | 22 | 23 | 26 | 28 | 32 | 52 |
| 2 | 26 | 28 | 22 | 19 | 32 | 27 | 15 | 22 | 30 | 27 | 34 | 48 |
| 3 | 21 | 24 | 19 | 19 | 32 | 26 | 19 | 25 | 33 | 29 | 33 | 49 |
| 4 | 24 | 22 | 17 | 22 | 28 | 23 | 16 | 24 | 23 | 26 | 33 | 45 |
| 5 | 14 | 27 | 17 | 23 | 27 | 24 | 14 | 27 | 19 | 28 | 28 | 44 |
| 6 | 17 | 23 | 19 | 27 | 24 | 24 | 11 | 27 | 21 | 27 | 27 | 42 |
| 7 | 18 | 23 | 18 | 27 | 31 | 26 | 15 | 27 | 20 | 32 | 22 | 43 |
| 8 | 18 | 21 | 16 | 21 | 35 | 25 | 10 | 29 | 24 | 29 | 26 | 34 |
| 9 | 16 | 24 | 16 | 29 | 31 | 24 | 11 | 38 | 26 | 30 | 27 | 34 |
| 10 | 18 | 27 | 15 | 29 | 26 | 21 | 14 | 24 | 23 | 29 | 28 | 43 |
| 11 | 19 | 20 | 17 | 32 | 31 | 19 | 14 | 23 | 24 | 25 | 32 | 41 |
| 12 | 17 | 20 | 18 | 32 | 25 | 18 | 12 | 24 | 27 | 25 | 29 | 41 |
| 13 | 17 | 21 | 15 | 29 | 28 | 24 | 8 | 26 | 18 | 29 | 26 | 47 |
| 14 | 19 | 21 | 15 | 26 | 21 | 16 | 6 | 34 | 15 | 25 | 32 | 45 |
| 15 | 15 | 18 | 11 | 23 | 29 | 14 | 8 | 31 | 20 | 25 | 41 | 42 |
| 16 | 15 | 16 | 15 | 17 | 27 | 15 | 7 | 27 | 25 | 28 | 41 | 46 |
| 17 | 20 | 21 | 16 | 21 | 26 | 22 | 11 | 22 | 19 | 18 | 25 | 41 |
| 18 | 25 | 27 | 18 | 18 | 30 | 21 | 10 | 23 | 16 | 27 | 28 | 39 |
| 19 | 18 | 26 | 18 | 27 | 32 | 26 | 13 | 29 | 18 | 31 | 23 | 43 |
| 20 | 19 | 13 | 19 | 29 | 30 | 29 | 13 | 31 | 22 | 34 | 28 | 43 |
| 21 | 29 | 25 | 21 | 28 | 35 | 24 | 13 | 29 | 24 | 34 | 30 | 41 |
| 22 | 21 | 26 | 18 | 23 | 28 | 24 | 10 | 27 | 22 | 33 | 27 | 40 |
| 23 | 19 | 28 | 21 | 17 | 28 | 25 | 7 | 28 | 20 | 33 | 25 | 44 |
| 24 | 18 | 24 | 22 | 21 | 24 | 30 | 7 | 28 | 21 | 37 | 26 | 47 |
| 25 | 13 | 21 | 16 | 22 | 22 | 24 | 9 | 26 | 23 | 28 | 25 | 42 |
| 26 | 17 | 24 | 17 | 16 | 27 | 34 | 10 | 25 | 19 | 28 | 25 | 38 |
| 27 | 14 | 25 | 12 | 18 | 31 | 27 | 10 | 26 | 15 | 30 | 25 | 37 |
| 28 | 12 | 25 | 14 | 18 | 33 | 26 | 8 | 28 | 19 | 27 | 27 | 31 |
| 29 | 20 | 32 | 16 | 23 | 31 | 29 | 8 | 39 | 18 | 31 | 27 | 32 |
| 30 | 15 | 28 | 17 | 26 | 30 | 28 | 10 | 35 | 20 | 29 | 26 | 29 |
| 31 | 17 | 28 | 15 | 22 | 36 | 31 | 10 | 31 | 24 | 32 | 25 | 50 |
| MEANS | 19 | 24 | 17 | 24 | 29 | 24 | 11 | 28 | 22 | 29 | 28 | 42 |
| NORMAL | .. | 26 | 19 | 24 | 23 | 22 | .. | 25 | .. | 28 | 30 | 49 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 41 | 0300 | 21st | 10 | 1500 | 27th |
| MOSUL | 52 | 0300 | 5th | 9 | 1200 | 16th |
| KIRKUK | 37 | 0300 | 24th | 4 | 1500 | 27th |
| RUTBAH | 57 | 0300 | 12th | 6 | 1500 | 26th |
| HABBANIYA | 59 | 0000 | 22nd | 10 | 1200 | 24th |
| BAGHDAD | 58 | 0000 | 2nd | 7 | 1200 | 15th |
| NUKHAIB | 29 | 0600 | 3rd | 3 | 1500 | 27th |
| HAI | 63 | 0300 | 29th | 13 | 1200 | 1st |
| NAJAF | 42 | 0000 | 3rd | 6 | 1200 | 26th |
| DIWANIYA | 57 | 0000 | 21st | 11 | 1500 | 25th |
| NASIRIYA | 66 | 0300 | 15th | 7 | 1200 | 17th |
| BASRAH | 74 | 0300 | 31st | 4 | 0900 | 30th |

JULY 1964 .
TABLE 4-a.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 35.0 | 26.2 | 40.1 | 19.8 | 39.2 | 22.4 | 40.0 | 21.1 | 35.2 | 19.8 |
| 2 | 36.2 | 25.0 | 40.0 | 21.2 | 38.5 | 21.6 | 39.4 | 21.1 | 36.0 | 20.3 |
| 3 | 39.0 | 27.8 | 42.8 | 22.8 | 42.6 | 21.4 | 43.3 | 22.2 | 37.0 | 19.8 |
| 4 | 26.5 | 28.0 | 42.6 | 28.0 | 42.8 | 24.2 | 44.4 | 24.4 | 36.4 | 19.8 |
| 5 | 39.6 | 27.2 | 43.8 | 24.3 | 42.8 | 20.8 | 42.2 | 21.7 | 36.2 | 19.7 |
| 6 | 40.0 | 29.0 | 44.1 | 23.6 | 43.9 | 21.5 | 43.9 | 21.7 | 35.4 | 19.2 |
| 7 | 40.6 | 30.0 | 43.6 | 27.6 | 43.0 | 22.3 | 42.2 | 23.3 | 36.4 | 19.6 |
| 8 | 41.2 | 26.5 | 44.8 | 23.6 | 41.6 | 24.6 | 42.2 | 25.0 | 40.0 | 23.0 |
| 9 | 37.8 | 27.0 | 42.0 | 22.6 | 41.2 | 23.1 | 42.8 | 25.0 | 37.0 | 21.5 |
| 10 | 36.0 | 25.8 | 40.4 | 20.8 | 40.6 | 24.9 | 41.7 | 23.3 | 36.2 | 21.3 |
| 11 | 35.5 | 22.3 | 39.4 | 26.4 | 38.9 | 21.4 | 40.6 | 22.2 | 33.6 | 20.3 |
| 12 | 40.0 | 28.2 | 45.0 | 22.2 | 43.7 | 21.4 | 42.2 | 21.1 | 37.0 | 20.0 |
| 13 | 43.2 | 32.1 | 48.0 | 28.2 | 48.4 | 26.0 | 48.9 | 24.4 | 40.2 | 20.8 |
| 14 | 43.6 | 33.2 | 48.0 | 27.8 | 49.0 | 29.7 | 48.9 | 28.9 | 41.8 | 21.6 |
| 15 | 42.5 | 31.2 | 48.2 | 29.2 | 47.2 | 28.3 | 47.8 | 28.3 | 42.5 | 22.0 |
| 16 | 42.0 | 30.1 | 45.3 | 27.6 | 44.1 | 25.9 | 46.1 | 25.6 | 42.0 | 24.0 |
| 17 | 36.6 | 29.5 | 44.8 | 28.2 | 44.5 | 25.1 | 45.6 | 26.1 | 40.5 | 23.2 |
| 18 | 38.0 | 29.1 | 43.6 | 24.4 | 42.1 | 25.2 | 42.8 | 22.8 | 41.0 | 22.1 |
| 19 | 38.5 | 30.0 | 43.4 | 23.4 | 43.1 | 25.0 | 43.9 | 22.8 | 38.2 | 21.8 |
| 20 | 40.0 | 29.1 | 43.6 | 23.0 | 42.8 | 24.0 | 43.3 | 25.0 | 38.0 | 22.0 |
| 21 | 38.3 | 25.0 | 42.4 | 24.8 | 41.7 | 24.8 | 42.8 | 25.6 | 39.4 | 22.5 |
| 22 | 39.5 | 25.6 | 44.0 | 25.5 | 42.5 | 24.4 | 42.8 | 24.4 | 39.5 | 21.3 |
| 23 | 40.2 | 29.0 | 43.6 | 28.8 | 42.1 | 29.0 | 43.9 | 23.3 | 41.4 | 22.0 |
| 24 | 40.0 | 28.4 | 44.3 | 28.8 | 43.6 | 26.1 | 43.9 | 24.4 | 41.3 | 22.7 |
| 25 | 39.6 | 32.0 | 45.6 | 27.3 | 44.5 | 26.3 | 45.0 | 25.6 | 41.2 | 21.8 |
| 26 | 41.0 | 31.6 | 45.3 | 28.0 | 44.8 | 24.0 | 44.4 | 25.0 | 39.6 | 21.1 |
| 27 | 41.5 | 29.3 | 45.3 | 24.8 | 43.4 | 24.8 | 42.2 | 25.0 | 40.4 | 23.3 |
| 28 | 40.8 | 29.0 | 44.3 | 23.4 | 43.7 | 25.4 | 43.9 | 25.0 | 42.0 | 22.0 |
| 29 | 39.6 | 30.1 | 43.7 | 23.2 | 43.1 | 25.0 | 43.3 | 26.1 | 40.0 | 23.4 |
| 30 | 38.5 | 28.3 | 42.8 | 24.3 | 42.2 | 27.4 | 42.8 | 25.0 | 38.0 | 22.2 |
| 31 | 38.0 | 27.5 | 42.2 | 21.0 | 41.8 | 25.0 | 41.7 | 26.7 | 39.2 | 23.4 |
| MEANS | 39.3 | 27.5 | 43.8 | 25.0 | 43.0 | 24.5 | 43.5 | 24.3 | 38.8 | 21.5 |
| departure from normal | .... | .... | +0.4 | +2.8 | +0.4 | -2.0 | -0.1 | -1.1 | +0.2 | -0.3 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 44.7 | 19th | 1962 | 22.3 | 11th | 1964 |
| MOSUL | 51.1 | 21st | 1937 | 13.8 | 12th | 1958 |
| KIRKUK | 49.0 | 14th | 1964 | 20.0 | 13th | 1950 |
| KHANAQIN | 50.0 | 19th | 1940 | 15.5 | 12th | 1958 |
| RUTBAH | 46.1 | 21&22nd | 1940 | 14.4 | 6th | 1933 |

JULY 1964 . تموز ١٩٦٤

TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 40.8 | 23.4 | 40.2 | 22.7 | 39.6 | 22.5 | 40.5 | 24.8 |
| 2 | 39.8 | 23.4 | 39.5 | 22.7 | 38.8 | 22.7 | 40.5 | 24.4 |
| 3 | 42.2 | 25.7 | 41.5 | 25.0 | 40.2 | 22.9 | 41.5 | 24.3 |
| 4 | 41.7 | 26.6 | 40.7 | 28.4 | 40.1 | 22.6 | 42.0 | 24.8 |
| 5 | 42.3 | 24.2 | 40.6 | 24.0 | 40.0 | 21.2 | 40.3 | 25.4 |
| 6 | 42.3 | 25.4 | 41.2 | 25.8 | 40.1 | 22.7 | 40.0 | 25.7 |
| 7 | 40.9 | 24.2 | 41.3 | 23.4 | 39.1 | 23.2 | 40.4 | 24.1 |
| 8 | 42.3 | 25.3 | 41.9 | 22.2 | 42.5 | 24.4 | 40.6 | 21.4 |
| 9 | 41.3 | 26.1 | 42.6 | 23.7 | 41.3 | 24.7 | 41.6 | 23.2 |
| 10 | 40.2 | 23.9 | 42.4 | 24.3 | 39.6 | 23.9 | 42.7 | 25.8 |
| 11 | 40.0 | 23.4 | 40.8 | 23.4 | 38.7 | 23.2 | 41.0 | 24.0 |
| 12 | 42.2 | 25.0 | 40.5 | 24.7 | 38.8 | 23.4 | 40.6 | 24.2 |
| 13 | 46.7 | 26.6 | 45.5 | 23.2 | 44.0 | 23.7 | 44.5 | 25.4 |
| 14 | 47.9 | 28.9 | 49.0 | 26.7 | 45.7 | 27.4 | 46.3 | 27.4 |
| 15 | 46.1 | 27.8 | 47.4 | 31.5 | 45.5 | 27.7 | 46.0 | 29.0 |
| 16 | 45.5 | 29.5 | 46.4 | 31.6 | 45.3 | 28.6 | 44.8 | 27.6 |
| 17 | 44.1 | 26.6 | 45.6 | 26.5 | 43.8 | 27.9 | 46.5 | 31.0 |
| 18 | 43.2 | 24.6 | 43.9 | 25.7 | 43.5 | 25.4 | 44.0 | 28.4 |
| 19 | 43.4 | 24.7 | 44.5 | 24.7 | 42.5 | 27.1 | 45.0 | 26.4 |
| 20 | 42.8 | 26.7 | 42.6 | 24.0 | 42.4 | 25.0 | 42.9 | 27.2 |
| 21 | 42.9 | 27.2 | 43.2 | 28.1 | 42.3 | 24.9 | 44.0 | 24.8 |
| 22 | 43.4 | 26.0 | 44.0 | 25.0 | 42.9 | 25.7 | 43.8 | 27.3 |
| 23 | 44.4 | 25.6 | 44.6 | 25.6 | 44.3 | 24.1 | 44.0 | 24.6 |
| 24 | 45.3 | 27.7 | 45.0 | 26.2 | 44.5 | 25.4 | 44.8 | 26.2 |
| 25 | 45.5 | 26.7 | 46.1 | 28.3 | 44.9 | 24.4 | 44.5 | 25.0 |
| 26 | 43.9 | 26.7 | 44.4 | 27.0 | 43.9 | 24.2 | 44.0 | 27.3 |
| 27 | 43.5 | 23.9 | 43.8 | 21.4 | 43.6 | 23.6 | 44.3 | 26.6 |
| 28 | 45.2 | 27.5 | 44.6 | 26.1 | 44.2 | 24.1 | 44.0 | 24.2 |
| 29 | 46.6 | 26.0 | 43.5 | 23.9 | 44.8 | 25.0 | 44.5 | 23.0 |
| 30 | 43.6 | 26.8 | 43.0 | 25.5 | 42.5 | 24.1 | 44.0 | 24.2 |
| 31 | 43.2 | 26.0 | 42.3 | 25.0 | 42.3 | 25.2 | 42.8 | 28.0 |
| MEANS | 43.3 | 25.9 | 43.3 | 25.4 | 42.3 | 24.5 | 43.1 | 25.8 |
| DEPARTURE FROM NORMAL | -0.6 | +0.2 | -0.1 | +0.2 | .... | .... | +0.1 | -0.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 50.6 | 3rd | 1948 | 21.1 | 21st | 1948 |
| BAGHDAD | 50.0 | 31st | 1957 | 16.6 | 8th | 1946 |
| NUKHAIB | 45.7 | 14th | 1964 | 20.2 | 29th | 1963 |
| HAI | 50.0 | 22nd | 1943 | 21.4 | 8th | 1964 |

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TABLE 4-c.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 40.5 | 24.0 | 41.0 | 21.6 | 39.4 | 22.6 | 37.2 | 27.6 |
| 2 | 40.2 | 25.0 | 40.4 | 24.0 | 38.2 | 23.7 | 36.8 | 24.2 |
| 3 | 42.4 | 27.5 | 41.7 | 25.3 | 38.2 | 25.2 | 37.3 | 27.4 |
| 4 | 42.4 | 29.2 | 41.5 | 27.2 | 38.0 | 26.4 | 38.4 | 26.2 |
| 5 | 41.3 | 26.7 | 40.3 | 25.3 | 38.6 | 25.1 | 36.6 | 27.7 |
| 6 | 42.2 | 27.2 | 41.7 | 26.2 | 39.0 | 25.9 | 36.7 | 26.0 |
| 7 | 42.2 | 26.7 | 41.5 | 20.6 | 40.8 | 25.3 | 38.4 | 26.1 |
| 8 | 42.4 | 25.2 | 42.6 | 21.1 | 42.0 | 23.3 | 42.4 | 23.4 |
| 9 | 45.2 | 26.4 | 44.0 | 25.6 | 44.0 | 25.0 | 41.7 | 28.0 |
| 10 | 42.8 | 27.0 | 42.5 | 24.1 | 43.6 | 26.0 | 41.3 | 27.3 |
| 11 | 42.4 | 26.5 | 41.4 | 23.0 | 39.1 | 24.8 | 37.2 | 28.1 |
| 12 | 41.4 | 27.2 | 41.0 | 26.5 | 37.4 | 24.7 | 36.2 | 27.6 |
| 13 | 45.4 | 27.0 | 44.6 | 24.6 | 43.5 | 26.4 | 38.6 | 26.4 |
| 14 | 50.4 | 31.5 | 47.2 | 27.2 | 45.9 | 27.8 | 44.9 | 27.7 |
| 15 | 47.4 | 31.5 | 45.6 | 28.7 | 46.7 | 29.2 | 44.9 | 27.9 |
| 16 | 48.0 | 29.8 | 47.7 | 28.3 | 46.5 | 31.7 | 44.8 | 29.8 |
| 17 | 47.4 | 30.6 | 47.2 | 30.1 | 48.8 | 29.8 | 44.2 | 30.7 |
| 18 | 44.6 | 31.0 | 45.6 | 26.0 | 45.8 | 28.4 | 42.0 | 29.4 |
| 19 | 45.6 | 29.6 | 46.2 | 25.0 | 47.1 | 28.6 | 42.5 | 27.6 |
| 20 | 43.4 | 27.5 | 42.8 | 21.0 | 44.1 | 28.1 | 41.9 | 27.6 |
| 21 | 45.4 | 29.0 | 45.0 | 25.7 | 45.5 | 26.8 | 42.8 | 26.7 |
| 22 | 44.6 | 28.5 | 45.1 | 28.0 | 45.0 | 27.4 | 41.6 | 27.5 |
| 23 | 45.2 | 28.0 | 44.4 | 26.7 | 43.8 | 27.3 | 40.7 | 28.9 |
| 24 | 45.7 | 29.3 | 44.8 | 26.3 | 45.6 | 26.9 | 43.0 | 27.2 |
| 25 | 46.2 | 31.2 | 45.6 | 26.1 | 45.6 | 26.7 | 42.6 | 27.5 |
| 26 | 44.8 | 28.4 | 43.7 | 25.2 | 45.5 | 25.6 | 41.7 | 29.2 |
| 27 | 45.5 | 26.6 | 45.5 | 25.0 | 46.3 | 24.1 | 41.3 | 26.4 |
| 28 | 46.4 | 27.4 | 45.7 | 24.5 | 46.3 | 24.9 | 42.3 | 28.5 |
| 29 | 45.5 | 29.2 | 46.5 | 24.7 | 46.4 | 26.2 | 44.0 | 26.7 |
| 30 | 45.6 | 27.5 | 44.7 | 25.5 | 46.0 | 28.1 | 47.6 | 28.5 |
| 31 | 44.3 | 25.4 | 44.0 | 26.4 | 45.0 | 25.2 | 44.8 | 26.9 |
| MEANS | 44.4 | 28.0 | 43.9 | 25.5 | 43.5 | 26.4 | 41.2 | 27.4 |
| departure from normal | .... | .... | +1.5 | +1.8 | +0.8 | +0.9 | +0.9 | -0.2 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 50.4 | 14th | 1964 | 24.0 | 1st | 1964 |
| DIWANIYA | 49.5 | 4th | 1945 | 16.5 | 12th | 1958 |
| NASIRIYA | 49.5 | 19th | 1962 | 20.0 | 15th | 1952 |
| BASRAH | 50.5 | 26th | 1951 | 22.2 | 15th | 1952 |

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TABLE 5.

المعدل الشهري لدرجات الحرارة للبصلة الجافة ( سنتغراد )

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | T I M E - G . M . T . | | | | | | | | |
| SINJAR | .... | 30.9 | 34.4 | 37.1 | 38.4 | 38.2 | 33.6 | .... | 35.4 |
| MOSUL | 27.6 | 25.9 | 33.7 | 40.9 | 43.0 | 41.7 | 35.7 | 31.2 | 35.0 |
| KIRKUK | 29.1 | 27.8 | 35.8 | 40.8 | 42.5 | 41.3 | 34.5 | 31.3 | 3[illegible] |
| KHANAQIN | .... | 25.7 | 35.9 | 41.3 | 43.1 | 41.8 | 35.6 | .... | 37.2 |
| RUTBAH | 23.0 | 22.2 | 30.0 | 35.6 | 38.2 | 37.2 | 34.1 | 25.1 | 30.8 |
| HABBANIYA | 28.0 | 26.6 | 33.4 | 41.1 | 42.5 | 41.4 | 33.6 | 30.9 | 34.7 |
| BAGHDAD | 28.4 | 26.4 | 33.8 | 40.5 | 42.9 | 41.3 | 34.3 | 30.4 | 34.7 |
| NUKHAIB | .... | .... | 32.7 | 38.5 | 41.3 | 41.1 | .... | .... | 38.4 |
| HAI | 28.3 | 26.3 | 34.7 | 41.0 | 42.1 | 39.5 | 33.5 | .... | 35.1 |
| NAJAF | 30.2 | 28.9 | 35.2 | 40.9 | 43.5 | 42.9 | 37.9 | .... | 37.1 |
| DIWANIYA | 27.9 | 29.7 | 35.5 | 41.9 | 43.7 | 41.6 | 32.9 | 29.8 | 35.4 |
| NASIRIYA | 28.6 | 27.0 | 33.9 | 41.1 | 42.7 | 40.1 | 34.1 | 31.2 | 34.8 |
| BASRAH | 29.4 | 27.8 | 33.8 | 38.6 | 40.3 | 37.8 | 33.8 | 31.7 | 34.2 |

TABLE 6 .

المعدل الشهري لضغط البخار ( ملليبارات )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 10.1 | 10.9 | 10.9 | 10.5 | 10.4 | 10.4 | .... | 10.5 |
| MOSUL | 11.0 | 12.0 | 13.8 | 15.0 | 14.0 | 12.7 | 11.9 | 11.6 | 12.8 |
| KIRKUK | 8.9 | 9.4 | 9.8 | 9.5 | 8.4 | 7.6 | 8.9 | 9.5 | 9.0 |
| KHANAQIN | .... | 8.2 | 10.9 | 10.7 | 10.9 | 10.2 | 10.3 | .... | 10.2 |
| RUTBAH | 9.8 | 11.0 | 11.2 | 9.1 | 8.4 | 8.5 | 9.2 | 8.9 | 9.5 |
| HABBANIYA | 14.0 | 14.4 | 13.1 | 13.9 | 14.2 | 15.1 | 15.7 | 14.6 | 14.6 |
| BAGHDAD | 12.3 | 12.3 | 13.8 | 12.8 | 11.5 | 11.1 | 12.4 | 12.6 | 12.3 |
| NUKHAIB | ... | ... | 8.9 | 7.1 | 6.0 | 6.0 | ... | ... | 7.0 |
| HAI | 12.1 | 13.3 | 16.8 | 16.3 | 16.1 | 16.2 | 15.0 | .... | 17.1 |
| NAJAF | 12.1 | 11.7 | 14.1 | 14.2 | 14.3 | 13.2 | 14.4 | .... | 13.4 |
| DIWANIYA | 14.1 | 14.3 | 17.1 | 16.6 | 15.3 | 15.0 | 16.0 | 15.1 | 15.4 |
| NASIRIYA | 13.6 | 13.3 | 14.8 | 14.7 | 14.2 | 16.7 | 17.7 | 16.2 | 15.2 |
| BASRAH | 20.1 | 20.3 | 22.0 | 23.6 | 21.4 | 23.8 | 23.0 | 21.2 | 21.9 |

TABLE 7 .

المعدل الشهري لدرجات الحرارة للبصلة الرطبة ( سنتغراد )

MONTHLY MEAN WET-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 17.9 | 19.4 | 20.0 | 21.4 | 20.6 | 19.1 | ... | 19.7 |
| MOSUL | 17.1 | 16.9 | 20.6 | 23.5 | 23.7 | 22.8 | 20.4 | 18.7 | 20.1 |
| KIRKUK | 16.6 | 16.3 | 19.5 | 21.2 | 21.3 | 20.5 | 18.6 | 17.7 | 19.0 |
| KHANAQIN | .... | 14.8 | 20.4 | 21.8 | 22.5 | 21.7 | 19.6 | .... | 20.1 |
| RUTBAH | 15.0 | 14.9 | 18.1 | 19.2 | 19.8 | 19.4 | 17.3 | 15.8 | 17.4 |
| HABBANIYA | 18.6 | 18.3 | 21.7 | 23.8 | 23.8 | 23.7 | 21.4 | 19.9 | 21.4 |
| BAGHDAD | 18.0 | 14.0 | 20.6 | 22.5 | 22.7 | 22.3 | 20.0 | 18.9 | 19.9 |
| NUKHAIB | .... | .... | 18.1 | 19.3 | 19.8 | 19.8 | .... | .... | 19.3 |
| HAI | 17.8 | 14.5 | 22.3 | 24.0 | 24.4 | 23.7 | 21.0 | .... | 21.1 |
| NAJAF | 19.3 | 17.8 | 20.9 | 23.1 | 23.9 | 23.1 | 22.0 | .... | 21.4 |
| DIWANIYA | 18.4 | 18.2 | 22.5 | 25.0 | 24.3 | 23.0 | 21.2 | 19.6 | 21.5 |
| NASIRIYA | 18.6 | 17.9 | 21.1 | 23.4 | 23.7 | 23.7 | 22.3 | 20.7 | 21.4 |
| BASRAH | 21.7 | 21.3 | 23.9 | 25.9 | 25.7 | 25.8 | 24.3 | 23.0 | 24.0 |

TABLE 8 .

المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 7.1 | 7.8 | 7.6 | 7.4 | 7.2 | 7.1 | ... | 7.2 |
| MOSUL | 8.1 | 9.5 | 11.5 | 12.6 | 11.7 | 10.2 | 9.3 | 9.0 | 10.2 |
| KIRKUK | 5.0 | 5.7 | 6.2 | 5.9 | 4.1 | 2.6 | 4.9 | 6.0 | 5.0 |
| KHANAQIN | ... | 4.0 | 8.0 | 7.5 | 8.0 | 7.0 | 7.2 | ... | 7.0 |
| RUTBAH | 6.5 | 8.1 | 8.4 | 5.2 | 4.0 | 4.1 | 4.9 | 5.1 | 5.8 |
| HABBANIYA | 11.6 | 12.1 | 14.5 | 13.6 | 11.9 | 12.9 | 13.4 | 12.3 | 12.8 |
| BAGHDAD | 9.7 | 10.0 | 11.5 | 10.4 | 8.6 | 9.2 | 9.8 | 9.9 | 9.9 |
| NUKHAIB | ... | ... | 5.1 | 1.6 | -0.6 | -0.8 | ... | ... | 1.3 |
| HAI | 9.7 | 11.2 | 14.6 | 14.1 | 13.8 | 13.6 | 12.7 | .... | 12.8 |
| NAJAF | 9.5 | 8.9 | 11.7 | 12.0 | 11.7 | 10.4 | 11.9 | .... | 10.9 |
| DIWANIYA | 11.8 | 12.1 | 14.9 | 14.3 | 12.8 | 12.5 | 13.4 | 12.5 | 13.0 |
| NASIRIYA | 10.9 | 10.6 | 12.7 | 12.6 | 11.8 | 14.3 | 15.0 | 13.6 | 12.7 |
| BASRAH | 17.5 | 17.4 | 18.6 | 19.4 | 18.4 | 20.0 | 19.5 | 18.2 | 18.6 |

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TABLE - 9.

المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | TIME - G.M.T. 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,, | 24 | 20 | 17 | 16 | 16 | 20 | ,, | 19 |
| MOSUL | 30 | 36 | 27 | 19 | 16 | 16 | 21 | 26 | 24 |
| KIRKUK | 23 | 26 | 17 | 13 | 10 | 10 | 17 | 21 | 17 |
| KHANAQIN | ,, | 25 | 19 | 14 | 13 | 13 | 18 | ,, | 17 |
| RUTBAH | 33 | 41 | 27 | 16 | 13 | 10 | 20 | 25 | 23 |
| HABBANIYA | 37 | 41 | 33 | 21 | 17 | 19 | 31 | 33 | 29 |
| BAGHDAD | 33 | 36 | 26 | 14 | 13 | 15 | 24 | 29 | 24 |
| NUKHAIB | ,, | ,, | 18 | 11 | 8 | 8 | ,, | ,, | 11 |
| HAI | 32 | 39 | 30 | 21 | 19 | 23 | 30 | ,, | 28 |
| NAJAF | 26 | 29 | 25 | 19 | 16 | 16 | 23 | ,, | 22 |
| DIWANIYA | 38 | 41 | 29 | 20 | 17 | 19 | 32 | 35 | 29 |
| NASIRIYA | 34 | 37 | 28 | 19 | 17 | 23 | 33 | 35 | 28 |
| BASRAH | 49 | 54 | 42 | 35 | 29 | 37 | 44 | 46 | 42 |

TABLE -10.

المعدل الشهري للضغط الجوي على سطح البحر ( ملليبارات )

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 98.8 | 98.8 | 97.5 | 97.9 | 97.0 | 98.5 | ,,,, | 998.1 |
| MOSUL | 98.9 | 99.7 | 99.6 | 97.8 | 97.0 | 96.9 | 97.7 | 98.6 | 998.3 |
| KIRKUK | 98.7 | 99.2 | 98.5 | 97.7 | 96.4 | 95.9 | 98.1 | 98.8 | 997.9 |
| KHANAQIN | ,,,, | 99.0 | 97.2 | 96.5 | 95.5 | 96.0 | 97.1 | ,,,,, | 996.9 |
| RUTBAH | 01.5 | 02.1 | 02.4 | 01.8 | 01.1 | 00.7 | 01.3 | 01.3 | 1001.7 |
| HABBANIYA | 98.4 | 99.0 | 99.9 | 99.4 | 98.4 | 97.6 | 98.5 | 98.5 | 998.7 |
| BAGHDAD | 97.6 | 98.4 | 99.0 | 99.0 | 97.8 | 97.4 | 98.0 | 98.0 | 998.2 |
| NUKHAIB | ,,,, | ,,,, | 01.8 | 00.7 | 99.3 | 98.6 | ,,,, | ,,,, | 1000.1 |
| HAI | 96.2 | 96.7 | 97.6 | 96.4 | 96.2 | 95.8 | 96.7 | ,,,, | 996.5 |
| NAJAF | 97.7 | 98.4 | 99.3 | 99.2 | 97.9 | 97.0 | 97.9 | ,,,, | 998.2 |
| DIWANIYA | 98.0 | 98.6 | 99.4 | 99.5 | 98.2 | 97.6 | 98.3 | 98.3 | 998.5 |
| NASIRIYA | 97.0 | 97.5 | 98.3 | 98.1 | 97.1 | 96.6 | 97.4 | 97.4 | 997.4 |
| BASRAH | 97.0 | 97.3 | 98.4 | 98.2 | 97.2 | 96.0 | 97.2 | 97.2 | 997.3 |

TABLE -11.

المعدل الشهري لكمية الغيوم الواطئة ( اثمان )

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,, | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | ,,, | 0.0 |
| MOSUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| KIRKUK | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| KHANAQIN | ,,, | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ,,, | 0.0 |
| RUTBAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HABBANIYA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BAGHDAD | 0.0 | 0.0 | 0.8 | 1.0 | 0.3 | 0.1 | 0.0 | 0.0 | 0.2 |
| 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 |
| NAJAF | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.0 | 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 | 0.0 | 0.3 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.5 |
| BASRAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.0 | 0.3 | 0.0 | 0.3 |

TABLE -12.

المعدل الشهري لمجموع كمية الغيوم ( اثمان )

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ,,,, | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | ,,, | 0.1 |
| MOSUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 | 0.1 |
| KIRKUK | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| KHANAQIN | ,,, | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | ,,, | 0.1 |
| RUTBAH | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 |
| HABBANIYA | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| BAGHDAD | 0.2 | 0.2 | 0.9 | 1.1 | 0.3 | 0.0 | 0.4 | 0.3 | 0.4 |
| NUKHAIB | ,,, | ,,, | 0.1 | 0.3 | 0.2 | 0.4 | ,,, | ,,, | 0.3 |
| HAI | 0.0 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | ,,, | 0.3 |
| NAJAF | 0.0 | 0.1 | 0.5 | 0.5 | 0.6 | 0.3 | 0.2 | ,,, | 0.3 |
| DIWANIYA | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 |
| NASIRIYA | 0.0 | 0.3 | 0.5 | 1.9 | 1.1 | 1.1 | 0.1 | 0.1 | 0.6 |
| BASRAH | 0.0 | 0.7 | 0.5 | 0.3 | 0.9 | 1.2 | 0.3 | 0.1 | 0.5 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE - WIND, NUMBER OF OBSERVATIONS OF :

| المحطة | وقت كرينتش | DIRECTION الاتجاه | | | | | | | | هدوء سائل | SPEED IN KNOTS السرعة بالعقد | | | | معدل السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATIONS | TIME GMT. | N | NE | E | SE | S | SW | W | NW | CALM | 1-10 | 11-21 | 22-33 | 34/ | MEAN V.K. |
| سنجار | 0300 | 15 | 0 | 0 | 0 | 2 | 0 | 2 | 7 | 5 | 22 | 4 | 0 | 0 | 6 |
| | 0600 | 4 | 0 | 1 | 0 | 4 | 1 | 7 | 4 | 10 | 20 | 1 | 0 | 0 | 5 |
| | 0900 | 2 | 0 | 2 | 0 | 7 | 1 | 11 | 3 | 5 | 22 | 4 | 0 | 0 | 6 |
| SINJAR | 1200 | 3 | 0 | 1 | 0 | 6 | 0 | 15 | 3 | 2 | 24 | 5 | 0 | 0 | 7 |
| | 1500 | 0 | 0 | 0 | 1 | 4 | 0 | 18 | 2 | 5 | 20 | 6 | 0 | 0 | 7 |
| | 1800 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 15 | 12 | 19 | 0 | 0 | 0 | 4 |
| | TOTAL | 27 | 0 | 4 | 1 | 24 | 2 | 53 | 34 | 39 | 127 | 20 | 0 | 0 | 6 |
| موصل | 0000 | 5 | 0 | 2 | 2 | 1 | 0 | 4 | 8 | 9 | 13 | 9 | 0 | 0 | 7 |
| | 0300 | 5 | 0 | 0 | 0 | 4 | 0 | 3 | 12 | 7 | 22 | 2 | 0 | 0 | 6 |
| | 0600 | 11 | 3 | 2 | 1 | 2 | 0 | 3 | 8 | 1 | 22 | 7 | 1 | 0 | 9 |
| | 0900 | 5 | 3 | 4 | 0 | 6 | 3 | 8 | 2 | 0 | 19 | 12 | 0 | 0 | 10 |
| MOSUL | 1200 | 4 | 1 | 4 | 2 | 4 | 1 | 5 | 10 | 0 | 20 | 11 | 0 | 0 | 9 |
| | 1500 | 4 | 2 | 2 | 2 | 2 | 0 | 14 | 3 | 2 | 24 | 5 | 0 | 0 | 8 |
| | 1800 | 4 | 0 | 0 | 0 | 0 | 2 | 14 | 8 | 3 | 14 | 14 | 0 | 0 | 9 |
| | 2100 | 2 | 0 | 1 | 1 | 2 | 0 | 8 | 11 | 6 | 16 | 8 | 1 | 0 | 8 |
| | TOTAL | 40 | 9 | 15 | 8 | 21 | 6 | 59 | 62 | 28 | 150 | 68 | 2 | 0 | 8 |
| كركوك | 0000 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 1 | 24 | 7 | 0 | 0 | 0 | 2 |
| | 0300 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 24 | 6 | 1 | 0 | 0 | 1 |
| | 0600 | 1 | 3 | 1 | 2 | 3 | 0 | 5 | 2 | 14 | 17 | 0 | 0 | 0 | 3 |
| | 0900 | 1 | 1 | 0 | 0 | 3 | 10 | 9 | 1 | 6 | 23 | 2 | 0 | 0 | 5 |
| KIRKUK | 1200 | 1 | 0 | 0 | 0 | 2 | 8 | 13 | 1 | 6 | 19 | 6 | 0 | 0 | 7 |
| | 1500 | 0 | 0 | 0 | 0 | 1 | 6 | 16 | 2 | 6 | 19 | 6 | 0 | 0 | 2 |
| | 1800 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 22 | 9 | 0 | 0 | 0 | 2 |
| | 2100 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 27 | 4 | 0 | 0 | 0 | 1 |
| | TOTAL | 5 | 15 | 3 | 3 | 10 | 26 | 49 | 8 | 129 | 104 | 15 | 0 | 0 | 3 |
| خانقين | 0300 | 0 | 1 | 3 | 0 | 6 | 0 | 1 | 0 | 20 | 11 | 0 | 0 | 0 | 1 |
| | 0600 | 1 | 1 | 3 | 0 | 4 | 0 | 5 | 1 | 16 | 15 | 0 | 0 | 0 | 2 |
| | 0900 | 5 | 0 | 0 | 0 | 6 | 0 | 8 | 11 | 1 | 30 | 0 | 0 | 0 | 5 |
| KHANAQIN | 1200 | 1 | 0 | 0 | 0 | 6 | 0 | 17 | 7 | 0 | 30 | 1 | 0 | 0 | 7 |
| | 1500 | 2 | 0 | 0 | 0 | 5 | 0 | 16 | 7 | 1 | 28 | 2 | 0 | 0 | 6 |
| | 1800 | 1 | 0 | 0 | 0 | 4 | 1 | 11 | 1 | 13 | 18 | 0 | 0 | 0 | 3 |
| | TOTAL | 10 | 2 | 6 | 0 | 31 | 1 | 58 | 27 | 51 | 132 | 3 | 0 | 0 | 4 |
| رطبة | 0000 | 0 | 0 | 0 | 0 | 2 | 1 | 20 | 5 | 3 | 19 | 8 | 1 | 0 | 9 |
| | 0300 | 0 | 0 | 0 | 0 | 1 | 3 | 20 | 5 | 2 | 23 | 5 | 1 | 0 | 7 |
| | 0600 | 3 | 0 | 0 | 0 | 0 | 0 | 12 | 15 | 1 | 25 | 5 | 0 | 0 | 7 |
| | 0900 | 2 | 0 | 0 | 0 | 1 | 0 | 17 | 10 | 1 | 25 | 5 | 0 | 0 | 7 |
| RUTBAH | 1200 | 5 | 0 | 0 | 0 | 0 | 5 | 11 | 9 | 1 | 23 | 7 | 0 | 0 | 8 |
| | 1500 | 3 | 0 | 0 | 0 | 0 | 1 | 17 | 8 | 2 | 23 | 6 | 0 | 0 | 8 |
| | 1800 | 5 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 6 | 22 | 3 | 0 | 0 | 5 |
| | 2100 | 3 | 0 | 0 | 0 | 0 | 1 | 12 | 7 | 8 | 13 | 10 | 0 | 0 | 7 |
| | TOTAL | 21 | 0 | 0 | 0 | 4 | 11 | 119 | 69 | 24 | 173 | 49 | 2 | 0 | 7 |

JULY 1964 .
TABLE 13-b.

تموز ١٩٦٤

عدد تكرار رصدات الرياح السطحية

SURFACE- WIND, NUMBER OF OBSERVATIONS OF :

| المحطة | وقت كرينتش | DIRECTION الاتجاه | | | | | | | | ريح ساكن | SPEED IN KNOTS السرعة بالعقد | | | | معدل السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATIONS | TIME GMT. | N | NE | E | SE | S | SW | W | NW | CA-LM | 1-10 | 11-21 | 22-33 | 34 | MEAN V.K. |
| حبانية | 0000 | 0 | 1 | 0 | 0 | 0 | 3 | 14 | 6 | 7 | 17 | 7 | 0 | 0 | 7 |
| | 0300 | 1 | 0 | 0 | 0 | 0 | 1 | 19 | 7 | 3 | 23 | 5 | 0 | 0 | 8 |
| | 0600 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 17 | 0 | 7 | 23 | 1 | 0 | 14 |
| | 0900 | 3 | 0 | 0 | 0 | 2 | 1 | 11 | 14 | 0 | 12 | 18 | 1 | 0 | 13 |
| HABBANIYA | 1200 | 1 | 0 | 0 | 0 | 3 | 0 | 17 | 10 | 0 | 8 | 23 | 0 | 0 | 13 |
| | 1500 | 3 | 1 | 0 | 0 | 4 | 0 | 17 | 5 | 1 | 23 | 7 | 0 | 0 | 8 |
| | 1800 | 1 | 0 | 1 | 0 | 0 | 1 | 12 | 8 | 8 | 20 | 3 | 0 | 0 | 5 |
| | 2100 | 0 | 0 | 0 | 1 | 1 | 0 | 13 | 3 | 13 | 9 | 9 | 0 | 0 | 6 |
| | TOTAL | 9 | 2 | 1 | 1 | 10 | 6 | 117 | 70 | 32 | 119 | 95 | 2 | 0 | 9 |
| بغداد | 0000 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 8 | 15 | 7 | 1 | 0 | 7 |
| | 0300 | 1 | 0 | 1 | 0 | 0 | 0 | 5 | 17 | 7 | 18 | 6 | 0 | 0 | 7 |
| | 0600 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 23 | 4 | 11 | 15 | 1 | 0 | 12 |
| | 0900 | 1 | 0 | 0 | 0 | 1 | 2 | 4 | 21 | 2 | 11 | 16 | 2 | 0 | 12 |
| BAGHDAD | 1200 | 4 | 1 | 0 | 1 | 2 | 2 | 8 | 13 | 0 | 11 | 20 | 0 | 0 | 13 |
| | 1500 | 1 | 0 | 0 | 0 | 2 | 1 | 11 | 14 | 2 | 13 | 16 | 0 | 0 | 11 |
| | 1800 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 14 | 10 | 18 | 3 | 0 | 0 | 5 |
| | 2100 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 18 | 11 | 13 | 7 | 0 | 0 | 6 |
| | TOTAL | 11 | 1 | 1 | 1 | 7 | 5 | 40 | 138 | 44 | 110 | 90 | 4 | 0 | 9 |
| نخيب | 0600 | 17 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 0 | 15 | 16 | 0 | 0 | 12 |
| | 0900 | 7 | 3 | 0 | 0 | 0 | 0 | 4 | 10 | 7 | 13 | 11 | 0 | 0 | 8 |
| NUKHAIB | 1200 | 6 | 2 | 0 | 0 | 1 | 0 | 13 | 5 | 4 | 17 | 10 | 0 | 0 | 9 |
| | 1500 | 5 | 0 | 0 | 0 | 1 | 0 | 9 | 12 | 4 | 19 | 8 | 0 | 0 | 8 |
| | TOTAL | 35 | 5 | 0 | 0 | 2 | 0 | 27 | 40 | 15 | 64 | 45 | 0 | 0 | 9 |
| حي | 0000 | 0 | 0 | 0 | 1 | 0 | 0 | 22 | 4 | 4 | 24 | 3 | 0 | 0 | 8 |
| | 0300 | 1 | 0 | 0 | 0 | 1 | 0 | 18 | 7 | 4 | 24 | 3 | 0 | 0 | 6 |
| | 0600 | 0 | 1 | 0 | 0 | 2 | 0 | 17 | 8 | 3 | 23 | 5 | 0 | 0 | 6 |
| | 0900 | 0 | 0 | 1 | 2 | 1 | 0 | 3 | 18 | 19 | 12 | 0 | 0 | 0 | 6 |
| HAI | 1200 | 1 | 1 | 1 | 1 | 0 | 0 | 21 | 5 | 1 | 19 | 11 | 0 | 0 | 9 |
| | 1500 | 1 | 0 | 0 | 0 | 0 | 2 | 18 | 7 | 3 | 22 | 6 | 0 | 0 | 8 |
| | 1800 | 1 | 0 | 1 | 0 | 0 | 1 | 22 | 4 | 2 | 27 | 2 | 0 | 0 | 6 |
| | TOTAL | 4 | 2 | 3 | 4 | 4 | 3 | 121 | 53 | 46 | 151 | 30 | 0 | 0 | 7 |
| نجف | 0000 | 17 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 4 | 22 | 5 | 0 | 0 | 7 |
| | 0300 | 20 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 0 | 23 | 8 | 0 | 0 | 8 |
| | 0600 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 15 | 15 | 1 | 0 | 12 |
| | 0900 | 19 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 3 | 11 | 16 | 1 | 0 | 11 |
| NAJAF | 1200 | 16 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 3 | 14 | 13 | 1 | 0 | 11 |
| | 1500 | 20 | 1 | 1 | 0 | 0 | 0 | 3 | 6 | 0 | 19 | 12 | 0 | 0 | 10 |
| | 1800 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 5 | 6 | 22 | 3 | 0 | 0 | 5 |
| | TOTAL | 139 | 2 | 1 | 1 | 0 | 0 | 19 | 39 | 16 | 126 | 72 | 3 | 0 | 9 |

تموز ١٩٦٤

JULY 1964 .

TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE- WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 11 | 2 | 0 | 0 | 0 | 1 | 13 | 3 | 1 | 18 | 12 | 0 | 0 | 8 |
| | 0300 | 11 | 0 | 0 | 0 | 0 | 0 | 13 | 5 | 2 | 18 | 11 | 0 | 0 | 8 |
| | 0600 | 13 | 0 | 0 | 0 | 0 | 1 | 10 | 7 | 0 | 9 | 22 | 0 | 0 | 12 |
| | 0900 | 12 | 0 | 0 | 0 | 0 | 1 | 14 | 3 | 1 | 11 | 17 | 2 | 0 | 11 |
| | 1200 | 13 | 0 | 0 | 0 | 0 | 0 | 13 | 4 | 1 | 11 | 19 | 0 | 0 | 12 |
| | 1500 | 13 | 1 | 0 | 0 | 0 | 0 | 14 | 3 | 0 | 16 | 15 | 0 | 0 | 13 |
| | 1800 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 7 | 20 | 4 | 0 | 0 | 6 |
| | 2100 | 9 | 0 | 2 | 0 | 1 | 0 | 8 | 5 | 6 | 21 | 4 | 0 | 0 | 5 |
| | TOTAL | 81 | 3 | 2 | 0 | 1 | 3 | 95 | 35 | 18 | 124 | 104 | 2 | 0 | 9 |
| ناصرية NASIRIYA | 0000 | 2 | 0 | 1 | 2 | 2 | 0 | 15 | 6 | 3 | 26 | 2 | 0 | 0 | 6 |
| | 0300 | 1 | 0 | 0 | 0 | 2 | 1 | 17 | 8 | 2 | 27 | 2 | 0 | 0 | 6 |
| | 0600 | 2 | 0 | 0 | 0 | 1 | 1 | 9 | 18 | 0 | 23 | 8 | 0 | 0 | 8 |
| | 0900 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 16 | 0 | 20 | 11 | 0 | 0 | 10 |
| | 1200 | 5 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 16 | 15 | 0 | 0 | 10 |
| | 1500 | 5 | 0 | 2 | 1 | 0 | 0 | 12 | 11 | 0 | 29 | 2 | 0 | 0 | 8 |
| | 1800 | 3 | 0 | 1 | 5 | 0 | 0 | 11 | 11 | 0 | 30 | 1 | 0 | 0 | 7 |
| | 2100 | 4 | 0 | 0 | 2 | 3 | 0 | 16 | 4 | 2 | 27 | 2 | 0 | 0 | 6 |
| | TOTAL | 26 | 0 | 4 | 10 | 8 | 2 | 104 | 87 | 7 | 198 | 43 | 0 | 0 | 8 |
| بصرة BASRAH | 0000 | 3 | 1 | 0 | 0 | 4 | 2 | 7 | 14 | 0 | 24 | 7 | 0 | 0 | 8 |
| | 0300 | 3 | 0 | 1 | 2 | 2 | 1 | 7 | 13 | 2 | 23 | 6 | 0 | 0 | 7 |
| | 0600 | 4 | 1 | 1 | 2 | 1 | 1 | 5 | 15 | 1 | 19 | 11 | 0 | 0 | 9 |
| | 0900 | 3 | 0 | 1 | 1 | 0 | 1 | 1 | 24 | 0 | 17 | 13 | 1 | 0 | 11 |
| | 1200 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 26 | 0 | 13 | 18 | 0 | 0 | 11 |
| | 1500 | 4 | 0 | 0 | 1 | 1 | 1 | 3 | 20 | 1 | 20 | 10 | 0 | 0 | 8 |
| | 1800 | 3 | 2 | 0 | 2 | 2 | 0 | 3 | 17 | 2 | 15 | 14 | 0 | 0 | 9 |
| | 2100 | 2 | 0 | 0 | 1 | 7 | 1 | 2 | 18 | 0 | 23 | 8 | 0 | 0 | 8 |
| | TOTAL | 25 | 4 | 3 | 10 | 18 | 7 | 28 | 147 | 6 | 154 | 87 | 1 | 0 | 9 |

TABLE 14 .

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 16 knots | 250 | 1200 | 17th |
| MOSUL | 25 | 330 | 2100 | 3rd |
| KIRKUK | 20 | 270 | 1500 | 14th |
| KHANAQIN | 16 | 320 | 1500 | 4th |
| RUTBAH | 25 | 290 | 0000 | 8th |
| HABBANIYA | 22 | 280 | 0900 | 6th |
| BAGHDAD | 25 | 310 | 0600 | 6th |
| HAI | 18 | 290 | 0900 | 2nd |
| NUKHAIB | 24 | 340 | 0600 | 13th |
| NAJAF | 30 | 360 | 0600 | 4th |
| DIWANIYA | 23 | 290 | 0900 | 6th |
| NASIRIYA | 17 | 290 | 0000 | 12th |
| BASRAH | 22 | 320 | 0900 | 12th |

تموز ١٩٦٤

JULY 1964 .
TABLE 15-a.

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الايام | سنجار | موصل | كركوك | خانقين | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | KHANAQIN | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| TOTAL | | | | | | | |
| NORMAL | | 0.1 | | 0.6 | | | |

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

JULY 1964 .
TABLE 15-b.

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| TOTAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NORMAL | | | | 0.2 | | 0.1 |

| STATION | HIGHEST AMOUNT OF RAIN DURING A DAY | DAY | YEAR |
|---|---|---|---|
| DIWANIYA | 3.7 | 30th | 1945 |
| NASIRIYA | 4.0 | 30th | 1954 |
| BASRAH | 3.2 | 30th | 1945 |

## CLIMATOLOGICAL SUMMARY الملخصات المناخية

### NUMBER OF DAYS FOR THE CASES OF PHENOMENA عدد الايام التي حدثت فيها الظواهر الجوية

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| MOSUL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 30 | 0 |
| KIRKUK | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 7 | 6 | 0 | 0 | 31 | 0 |
| KHANAQIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 30 | 0 |
| BUTBAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| HABBANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 6 | 3 | 0 | 30 | 0 |
| BAGHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 14 | 5 | 5 | 0 | 28 | 0 |
| NUKHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 1 | 0 | 30 | 0 |
| HAI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 29 | 0 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 | 29 | 0 |
| DIWANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 30 | 0 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 5 | 0 | 25 | 0 |
| BASRAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 5 | 0 | 28 | 0 |

TABLE - 17.

### DURATION OF SUNSHINE مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 412.4 | 14.0 | 12th | 0 |
| HABBANIYA | 376.3 | 13.0 | 1,6,11&19 | 0 |
| BAGHDAD | 327.3 | 13.1 | 1st | 0 |
| BASRAH | 320.6 | 12.8 | 28th | 0 |

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

### MONTHLY MEAN TEMPERATURE OF: ($C^{o}$)

| STATION | GRASS MINIMUM TEMPERATURE $C^{o}$ | EARTH TEMPERATURE $C^{o}$ 0.3 M. | EARTH TEMPERATURE $C^{o}$ 1.2 M. |
|---|---|---|---|
| MOSUL | .... | 31.5 | .... |
| KIRKUK | 18.9 | 30.7 | 27.0 |
| HABBANIYA | 24.5 | 35.0 | 31.4 |
| BAGHDAD | 21.6 | 34.5 | 29.8 |
| NAJAF | .... | 35.5 | 34.4 |
| NASIRIYA | 24.5 | 35.6 | 30.7 |
| BASRAH | 21.1 | .... | .... |

الجمهورية العراقيـــــــة

وزارة المواصـــلات

مديرية الطيران المدني العامـــــــة

مفتشية الانواء الجوية العامـــة

شعبة المنـــاخ

بغـداد

*****

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

==========

معلومات مناخية لشهر آب ١٩٦٤

مجلد ٢٧ عدد ( ٨ ) ، آب ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA ( AUGUST 1964 )

VOLUME 27 , NO. ( 8 ) , AUGUST 1 9 6 4

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| Daily maximum and minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest wind-speed during one hour | 14 | 13 |
| Daily-precipitation | 15a&b | 14-15 |
| Climatological summary | 16 | 16 |
| Duration of sunshine hours | 17 | 16 |
| Monthly mean temperature of grass & earth | 18 | 16 |


Geographical data and Notes on tables see : JANUARY 1964 .

AUGUST 1964.
TABLE 1-a.

( ٢ )

١٩٦٤ ٦

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C° ) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 33.7 | 33.9 | 34.0 | 30.6 | 34.0 | 34.2 |
| 2 | 33.2 | 32.4 | 33.2 | 29.2 | 33.1 | 35.5 |
| 3 | 32.3 | 32.3 | 32.8 | 29.3 | 32.5 | 33.5 |
| 4 | 34.0 | 33.4 | 33.4 | 28.3 | 32.9 | 32.7 |
| 5 | 35.5 | 34.3 | 33.9 | 29.5 | 33.6 | 32.9 |
| 6 | 35.9 | 34.8 | 35.8 | 30.0 | 35.1 | 34.8 |
| 7 | 36.3 | 34.1 | 35.8 | 29.9 | 33.4 | 33.2 |
| 8 | 35.7 | 33.3 | 34.5 | 30.7 | 32.9 | 32.2 |
| 9 | 34.0 | 31.6 | 33.0 | 29.5 | 32.4 | 32.5 |
| 10 | 35.1 | 32.6 | 33.3 | 29.0 | 33.0 | 33.3 |
| 11 | 35.1 | 33.2 | 33.3 | 26.8 | 33.1 | 35.9 |
| 12 | 34.1 | 33.9 | 33.3 | 28.6 | 32.5 | 32.6 |
| 13 | 33.6 | 33.6 | 33.3 | 28.0 | 31.8 | 32.6 |
| 14 | 34.9 | 34.0 | 33.9 | 27.8 | 32.5 | 32.6 |
| 15 | 35.2 | 32.8 | 34.0 | 29.4 | 32.8 | 33.2 |
| 16 | 36.5 | 33.2 | 34.7 | 30.4 | 33.7 | 32.3 |
| 17 | 37.5 | 34.0 | 34.6 | 30.6 | 35.0 | 32.5 |
| 18 | 34.9 | 32.5 | 34.6 | 30.4 | 33.5 | 32.6 |
| 19 | 33.2 | 32.5 | 34.1 | 30.3 | 33.3 | 34.5 |
| 20 | 32.4 | 30.9 | 33.0 | 29.7 | 32.7 | 33.8 |
| 21 | 35.8 | 33.5 | 34.8 | 29.6 | 33.1 | 33.5 |
| 22 | 37.0 | 33.2 | 35.0 | 29.9 | 33.5 | 32.3 |
| 23 | 36.1 | 33.4 | 34.7 | 30.5 | 33.4 | 32.6 |
| 24 | 34.3 | 32.3 | 33.9 | 29.1 | 32.6 | 32.1 |
| 25 | 35.5 | 32.6 | 34.6 | 28.0 | 32.4 | 30.7 |
| 26 | 32.8 | 30.6 | 32.5 | 29.4 | 32.7 | 32.5 |
| 27 | 30.6 | 28.6 | 31.0 | 28.9 | 31.2 | 32.4 |
| 28 | 31.1 | 29.3 | 32.8 | 27.8 | 33.2 | 34.9 |
| 29 | 32.1 | 31.5 | 32.8 | 27.2 | 32.7 | 34.0 |
| 30 | 31.6 | 30.7 | 32.0 | 26.7 | 31.8 | 34.2 |
| 31 | 29.4 | 30.1 | 30.1 | 26.4 | 30.7 | 31.8 |
| MEANS | 34.1 | 32.6 | 33.6 | 29.1 | 36.2 | 33.2 |
| DEPARTURE FROM NORMAL | .... | -0.1 | -1.2 | -1.0 | -1.3 | -1.4 |

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

T I M E ; G.M.T.

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

AUGUST 1964 . آب ١٩٦٤

TABLE 1-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 37.5 | 35.2 | 37.4 | 36.1 | 35.9 | 34.3 |
| 2 | 36.2 | 35.2 | 36.4 | 35.4 | 35.8 | 34.5 |
| 3 | 35.8 | 34.2 | 35.4 | 33.2 | 33.8 | 33.2 |
| 4 | 35.2 | 33.6 | 34.4 | 32.6 | 33.0 | 32.4 |
| 5 | 36.6 | 33.7 | 33.9 | 32.6 | 33.3 | 32.1 |
| 6 | 37.7 | 35.1 | 35.3 | 35.1 | 34.9 | 33.9 |
| 7 | 37.1 | 34.8 | 35.3 | 33.6 | 33.7 | 33.6 |
| 8 | 37.2 | 33.6 | 35.5 | 32.9 | 33.2 | 32.4 |
| 9 | 37.3 | 34.7 | 35.0 | 33.5 | 33.6 | 31.9 |
| 10 | 36.9 | 33.7 | 35.0 | 32.9 | 32.3 | 32.8 |
| 11 | 35.8 | 34.3 | 34.7 | 33.0 | 32.8 | 31.7 |
| 12 | 35.3 | 33.9 | 32.7 | 32.6 | 32.5 | 31.5 |
| 13 | 35.2 | 34.3 | 33.3 | 32.7 | 32.9 | 31.8 |
| 14 | 35.2 | 33.4 | 33.8 | 32.4 | 33.1 | 32.0 |
| 15 | 35.4 | 33.5 | 34.4 | 32.9 | 33.7 | 31.9 |
| 16 | 33.2 | 34.3 | 35.5 | 33.4 | 34.2 | 32.7 |
| 17 | 37.4 | 33.5 | 35.6 | 32.0 | 34.4 | 32.4 |
| 18 | 37.3 | 33.8 | 36.2 | 32.5 | 34.1 | 33.1 |
| 19 | 32.8 | 34.5 | 36.3 | 33.5 | 34.2 | 32.9 |
| 20 | 37.5 | 34.5 | 35.8 | 33.4 | 33.4 | 33.3 |
| 21 | 32.1 | 34.7 | 35.1 | 32.3 | 33.3 | 32.1 |
| 22 | 37.6 | 33.9 | 34.8 | 32.2 | 33.7 | 31.7 |
| 23 | 37.3 | 33.9 | 35.1 | 33.2 | 33.4 | 32.3 |
| 24 | 36.4 | 34.0 | 34.5 | 32.7 | 33.2 | 31.9 |
| 25 | 37.9 | 32.5 | 34.2 | 30.9 | 33.2 | 30.6 |
| 26 | 37.1 | 33.8 | 34.6 | 32.8 | 33.3 | 30.2 |
| 27 | 36.4 | 34.2 | 34.9 | 33.9 | 34.4 | 32.1 |
| 28 | 36.7 | 34.6 | 35.5 | 35.1 | 35.3 | 33.5 |
| 29 | 36.9 | 35.4 | 35.3 | 34.5 | 35.1 | 34.0 |
| 30 | 37.0 | 35.4 | 34.9 | 33.5 | 33.9 | 33.6 |
| 31 | 36.2 | 34.5 | 32.8 | 32.1 | 32.4 | 31.7 |
| MEANS | 36.7 | 34.5 | 35.0 | 33.2 | 33.7 | 32.5 |
| DEPARTURE FROM NORMAL | .... | -0.9 | .... | -0.4 | -0.5 | -1.3 |

NOTE: AT NUKHAIB, OBSERVATION 0000, 0300, 1000, & 2100 ARE MISSED.

AT HAI , OBSERVATION 2100 IS MISSED.

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TABLE 2-a.

المعدل اليومي للضغط الجوي على سطح البحر ( ملليبارات )

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 997.7 | 997.8 | 998.6 | 1000.6 | 998.8 | 998.4 |
| 2 | 97.7 | 97.5 | 97.9 | 00.5 | 97.8 | 97.0 |
| 3 | 98.3 | 98.6 | 98.6 | 01.9 | 99.4 | 98.9 |
| 4 | 99.3 | 99.9 | 99.5 | 03.3 | 1000.8 | 99.9 |
| 5 | 1000.7 | 1000.8 | 1000.9 | 04.6 | 01.7 | 01.2 |
| 6 | 00.1 | 99.6 | 98.7 | 03.9 | 00.1 | 99.0 |
| 7 | 97.1 | 97.1 | 96.5 | 02.3 | 97.1 | 97.6 |
| 8 | 97.0 | 97.2 | 97.5 | 01.4 | 98.9 | 98.2 |
| 9 | 99.0 | 99.7 | 99.6 | 02.6 | 00.5 | 00.1 |
| 10 | 98.0 | 98.1 | 97.9 | 02.4 | 98.8 | 98.0 |
| 11 | 96.7 | 96.9 | 96.5 | 01.3 | 97.5 | 96.5 |
| 12 | 96.7 | 96.9 | 96.5 | 00.9 | 97.6 | 96.6 |
| 13 | 96.1 | 96.6 | 96.1 | 01.3 | 97.4 | 96.0 |
| 14 | 98.9 | 99.9 | 98.4 | 02.9 | 99.4 | 98.6 |
| 15 | 00.7 | 01.2 | 00.6 | 04.4 | 01.6 | 01.0 |
| 16 | 97.8 | 98.1 | 97.2 | 02.6 | 98.5 | 97.8 |
| 17 | 92.5 | 03.6 | 03.7 | 998.7 | 95.1 | 94.8 |
| 18 | 96.7 | 96.9 | 97.2 | 99.8 | 97.8 | 97.5 |
| 19 | 00.7 | 02.0 | 00.9 | 02.8 | 00.9 | 00.4 |
| 20 | 02.2 | 02.4 | 01.7 | 04.4 | 02.8 | 01.5 |
| 21 | 99.6 | 99.9 | 98.6 | 03.2 | 99.8 | 99.9 |
| 22 | 98.0 | 98.7 | 98.3 | 02.3 | 99.5 | 99.2 |
| 23 | 98.9 | 99.2 | 98.6 | 02.1 | 99.3 | 99.0 |
| 24 | 99.0 | 98.8 | 98.4 | 02.5 | 99.3 | 98.8 |
| 25 | 98.0 | 98.4 | 98.1 | 02.3 | 98.9 | 98.5 |
| 26 | 99.5 | 99.6 | 00.0 | 02.7 | 00.5 | 00.2 |
| 27 | 01.8 | 02.2 | 02.2 | 02.5 | 01.9 | 01.9 |
| 28 | 03.0 | 03.6 | 02.8 | 03.3 | 01.6 | 01.1 |
| 29 | 02.7 | 02.6 | 01.8 | 03.6 | 01.4 | 00.6 |
| 30 | 03.1 | 03.6 | 02.9 | 05.0 | 02.4 | 01.6 |
| 31 | 06.1 | 05.6 | 05.2 | 08.1 | 05.4 | 04.4 |
| MEANS | 999.1 | 999.5 | 999.1 | 1002.6 | 999.8 | 999.2 |
| DEPARTURE FROM NORMAL | .... | +0.1 | -0.2 | -1.3 | -1.3 | -1.0 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1006.9 | 31st | 0600 | 1964 | 991.5 | 17th | 1500 | 1964 | 1964 |
| MOSUL | 1007.0 | 31st | 0300 | 1964 | 990.9 | 17th | 1500 | 1964 | |
| KIRKUK | 1006.6 | 31st | 0300 | 1964 | 991.7 | 17th | 1200 | 1964 | |
| RUTBAH | 1009.4 | 31st | 0600 | 1964 | 997.5 | 17th | 1500 | 1964 | |
| HABBANIYA | 1006.4 | 31st | 0600 | 1964 | 994.1 | 17th | 1500 | 1964 | |
| BAGHDAD | 1005.7 | 31st | 0600 | 1964 | 993.9 | 17th | 1500 | 1964 | |
| SINJAR | 1010.8 | 26th | 0600 | 1962 | 991.5 | 17th | 1500 | 1964 | RECORD |
| MOSUL | 1010.7 | 26th | 0600 | 1962 | 990.9 | 17th | 1500 | 1964 | |
| KIRKUK | 1009.7 | 25th | 2100 | 1962 | 990.1 | 13th | 1500 | 1952 | |
| RUTBAH | 1013.7 | 3rd | 0300 | 1953 | 992.0 | 2nd | 0000 | 1961 | |
| BAGHDAD | 1007.6 | 25th | 0600 | 1962 | 992.7 | 3rd | 1500 | 1954 | |

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

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 999.8 | 997.3 | 997.5 | 998.2 | 997.5 | 997.8 |
| 2 | 98.7 | 96.1 | 96.4 | 97.2 | 96.7 | 96.8 |
| 3 | 1001.4 | 97.2 | 98.3 | 99.3 | 98.0 | 97.4 |
| 4 | 03.2 | 98.3 | 1000.5 | 1000.7 | 99.5 | 99.2 |
| 5 | 04.1 | 99.5 | 01.5 | 01.6 | 1000.4 | 1000.2 |
| 6 | 02.4 | 97.4 | 99.7 | 99.5 | 98.0 | 97.6 |
| 7 | 00.6 | 95.8 | 97.8 | 98.3 | 96.9 | 96.0 |
| 8 | 00.5 | 96.8 | 98.5 | 99.0 | 97.8 | 97.5 |
| 9 | 02.0 | 98.5 | 99.8 | 00.1 | 98.7 | 98.3 |
| 10 | 01.0 | 95.6 | 98.1 | 98.2 | 96.8 | 96.0 |
| 11 | 00.2 | 94.2 | 96.7 | 97.0 | 95.4 | 94.5 |
| 12 | 00.2 | 94.2 | 96.9 | 96.8 | 95.2 | 94.2 |
| 13 | 99.3 | 93.5 | 96.4 | 96.4 | 94.9 | 94.2 |
| 14 | 01.6 | 97.1 | 99.1 | 99.5 | 98.5 | 98.4 |
| 15 | 00.7 | 99.9 | 01.1 | 01.4 | 00.3 | 00.0 |
| 16 | 00.9 | 96.7 | 98.4 | 98.2 | 97.3 | 97.0 |
| 17 | 97.0 | 93.9 | 95.7 | 96.0 | 95.5 | 96.1 |
| 18 | 99.2 | 96.5 | 98.0 | 98.6 | 97.6 | 97.0 |
| 19 | 01.6 | 98.0 | 00.5 | 00.7 | 99.4 | 98.6 |
| 20 | 03.4 | 98.9 | 01.5 | 01.5 | 99.9 | 98.9 |
| 21 | 01.8 | 97.2 | 99.8 | 99.7 | 98.6 | 98.1 |
| 22 | 01.6 | 98.2 | 99.8 | 00.1 | 99.4 | 97.1 |
| 23 | 01.1 | 98.0 | 98.9 | 99.6 | 98.7 | 98.8 |
| 24 | 01.3 | 97.4 | 99.0 | 99.4 | 98.3 | 97.9 |
| 25 | 00.2 | 97.6 | 97.3 | 99.3 | 98.5 | 98.9 |
| 26 | 01.4 | 99.1 | 00.8 | 00.8 | 00.0 | 00.0 |
| 27 | 01.9 | 1000.4 | 01.8 | 01.6 | 00.7 | 00.3 |
| 28 | 01.5 | 00.0 | 00.0 | 00.7 | 00.0 | 00.3 |
| 29 | 01.9 | 98.7 | 99.8 | 00.5 | 98.8 | 98.6 |
| 30 | 01.8 | 98.5 | 00.7 | 01.2 | 99.6 | 99.0 |
| 31 | 01.3 | 01.1 | 03.7 | 04.0 | 01.9 | 00.6 |
| MEANS | 1001.1 | 997.5 | 999.2 | 999.5 | 998.3 | 997.9 |
| DEPARTURE FROM NORMAL | .... | -1.8 | .... | -0.1 | -1.1 | -1.1 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1005.9 | 5th | 0600 | 1964 | 995.4 | 17th | 1500 | 1964 | 1964 |
| HAI | 1002.1 | 31st | 0600 | 1964 | 992.2 | 13th | 1500 | 1964 | |
| NAJAF | 1004.6 | 31st | 0600 | 1964 | 994.5 | 17th | 1500 | 1964 | |
| DIWANIYA | 1005.1 | 31st | 0600 | 1964 | 995.1 | 13th | 0000 | 1964 | |
| NASIRIYA | 1002.6 | 31st | 0600 | 1964 | 994.3 | 13th | 0000 | 1964 | |
| BASRAH | 1001.7 | 28th | 0600 | 1964 | 992.9 | 13th | 1500 | 1964 | |
| NUKHAIB | 1005.9 | 5th | 0600 | 1964 | 995.4 | 17th | 1500 | 1964 | RECORD |
| HAI | 1008.4 | 30th | 0600 | 1953 | 992.2 | 13th | 1500 | 1964 | |
| NAJAF | 1004.6 | 31st | 0600 | 1964 | 993.2 | 12th | 1500 | 1963 | |
| DIWANIYA | 1009.0 | 30th | 0600 | 1953 | 991.8 | 3rd | 1500 | 1954 | |
| NASIRIYA | 1008.1 | 31st | 0600 | 1953 | 992.1 | 3rd | 2100 | 1954 | |
| BASRAH | 1007.5 | 31st | 0600 | 1953 | 992.4 | 3rd | 1500 | 1954 | |

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TABLE - 3.

DAILY MEAN RELATIVE HUMIDITY [illegible] OBSERVATIONS

| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19 | 25 | 20 | 25 | 38 | 30 | 15 | 30 | 25 | 29 | 31 | 40 |
| 2 | 19 | 31 | 20 | 28 | 36 | 26 | 22 | 28 | 22 | 29 | 23 | 37 |
| 3 | 24 | 35 | 24 | 25 | 33 | 32 | 22 | 26 | 25 | 30 | 26 | 42 |
| 4 | 23 | 33 | 23 | 25 | 36 | 33 | 24 | 24 | 21 | 32 | 28 | 41 |
| 5 | 19 | 34 | 24 | 30 | 36 | 35 | 19 | 30 | 22 | 32 | 24 | 45 |
| 6 | 13 | 28 | 15 | 30 | 30 | 32 | 15 | 33 | 24 | 32 | 27 | 42 |
| 7 | 15 | 19 | 16 | 25 | 25 | 28 | 24 | 27 | 25 | 27 | 23 | 40 |
| 8 | 12 | 22 | 15 | 20 | 27 | 25 | 15 | 26 | 24 | 26 | 20 | 42 |
| 9 | 13 | 25 | 21 | 21 | 30 | 26 | 24 | 23 | 21 | 26 | 19 | 44 |
| 10 | 13 | 26 | 18 | 24 | [illegible] | 27 | 14 | 27 | 24 | 28 | 24 | 45 |
| 11 | 13 | 30 | 17 | 29 | 29 | 24 | 17 | 27 | 23 | 29 | 24 | 43 |
| 12 | 19 | 31 | 22 | 29 | 37 | 34 | 24 | 27 | 25 | 32 | 26 | 44 |
| 13 | 19 | 31 | 22 | 28 | 34 | 33 | 19 | 29 | 25 | 32 | 30 | 45 |
| 14 | 13 | 27 | 19 | 33 | 35 | 28 | 18 | 32 | 25 | 35 | 28 | 45 |
| 15 | 13 | 26 | 16 | 31 | 28 | 28 | 15 | 30 | 24 | 29 | 30 | 43 |
| 16 | 12 | 23 | 15 | 29 | 33 | 25 | 17 | 26 | 22 | 28 | 27 | 36 |
| 17 | 14 | 20 | 14 | 29 | 30 | 27 | 16 | 28 | 22 | 30 | 20 | 39 |
| 18 | 13 | 24 | 13 | 23 | 29 | 26 | 15 | 29 | 21 | 35 | 23 | 41 |
| 19 | 14 | 26 | 17 | 21 | 34 | 21 | 14 | 24 | 17 | 26 | 22 | 39 |
| 20 | 15 | 24 | 17 | 19 | 35 | 20 | 14 | 22 | 21 | 23 | 22 | 39 |
| 21 | 12 | 19 | 20 | 27 | 29 | 24 | 22 | 24 | 23 | 28 | 20 | 42 |
| 22 | 12 | 22 | 19 | 26 | 25 | 28 | 16 | 27 | 21 | 30 | 21 | 46 |
| 23 | 12 | 23 | 16 | 28 | 30 | 25 | 17 | 27 | 20 | 28 | 26 | 50 |
| 24 | 14 | 26 | 16 | 24 | 26 | 23 | 15 | 24 | 22 | 23 | 23 | 41 |
| 25 | 13 | 25 | 16 | 22 | 26 | 25 | 15 | 28 | 24 | 29 | 19 | 43 |
| 26 | 16 | 27 | 15 | 23 | 26 | 26 | 17 | 22 | 23 | 27 | 23 | 43 |
| 27 | 16 | 33 | 17 | 22 | 35 | 28 | 16 | 25 | 23 | 29 | 23 | 40 |
| 28 | 16 | 35 | 19 | 24 | 35 | 21 | 16 | 28 | 24 | 25 | 26 | 38 |
| 29 | 15 | 22 | 18 | 24 | 32 | 21 | 14 | 24 | 24 | 25 | 25 | 43 |
| 30 | 15 | 24 | 14 | 28 | 31 | 19 | 14 | 21 | 25 | 24 | 20 | 30 |
| 31 | 18 | 24 | 16 | 26 | 27 | 18 | 14 | 18 | 28 | 24 | 21 | 33 |
| MEANS | 15 | 27 | 18 | 26 | 32 | 26 | 18 | 27 | 23 | 27 | 24 | 42 |
| NORMAL | .. | 28 | 18 | 23 | 25 | 22 | .. | 24 | .. | 29 | 26 | 48 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 31 | 0600 | 3rd | 9 | 1500 | 16th |
| MOSUL | 56 | 0300 | 27th | 8 | 1500 | 8th |
| KIRKUK | 38 | 0300 | 12th | 4 | 1200 | 30th |
| RUTBAH | 61 | 0300 | 11th | 7 | 1200 | 20th |
| HABBANIYA | 57 | 0300 | 30th | 8 | 1200 | 17th |
| BAGHDAD | 54 | 0300 | 14th | 6 | 1200 | 31st |
| NUKHAIB | 36 | 0600 | 12th | 8 | 1500 | 19th |
| HAI | 49 | 0300 | 2nd | 11 | 1200 | 20th |
| NAJAF | 41 | 0300 | 3rd | 8 | 1200 | 23rd |
| DIWANIYA | 52 | 2100 | 14th | 10 | 1200 | 24th |
| NASIRIYA | 62 | 2100 | 15th | 7 | 1500 | 2nd |
| BASRAH | 79 | 0300 | 19th | 10 | 1200 | 30th |

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TABLE 4 :

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 37.5 | 25.6 | 41.3 | 24.2 | 40.6 | 25.4 | 41.7 | 25.0 | 37.5 | 22.8 |
| 2 | 36.0 | 27.0 | 40.3 | 23.0 | 40.2 | 25.0 | 41.1 | 25.0 | 36.5 | 21.7 |
| 3 | 36.5 | 24.8 | 40.0 | 23.0 | 40.0 | 25.1 | 40.0 | 22.8 | 36.4 | 21.4 |
| 4 | 37.5 | 28.0 | 41.8 | 24.0 | 41.0 | 24.2 | 41.1 | 22.2 | 35.0 | 20.6 |
| 5 | 39.5 | 26.2 | 42.6 | 25.2 | 41.8 | 25.0 | 42.2 | 22.2 | 37.0 | 20.5 |
| 6 | 39.1 | 31.0 | 44.0 | 23.4 | 44.4 | 25.9 | 43.9 | 22.2 | 38.4 | 21.4 |
| 7 | 40.0 | 31.4 | 44.6 | 22.0 | 44.2 | 27.0 | 43.3 | 21.7 | 38.0 | 21.6 |
| 8 | 39.5 | 31.2 | 44.2 | 21.7 | 43.0 | 24.2 | 42.8 | 22.8 | 38.6 | 21.2 |
| 9 | 39.0 | 24.1 | 42.0 | 20.0 | 41.2 | 23.4 | 41.1 | 21.1 | 37.5 | 21.5 |
| 10 | 38.6 | 29.0 | 42.3 | 20.0 | 42.1 | 23.0 | 42.2 | 20.6 | 36.5 | 21.2 |
| 11 | 37.5 | 28.6 | 42.0 | 20.8 | 42.9 | 22.4 | 42.8 | 20.6 | 36.0 | 19.6 |
| 12 | 37.8 | 28.5 | 42.6 | 26.5 | 42.0 | 24.2 | 42.8 | 20.6 | 36.8 | 20.0 |
| 13 | 37.5 | 26.4 | 42.2 | 25.8 | 42.4 | 24.1 | 43.9 | 21.7 | 36.4 | 19.8 |
| 14 | 38.2 | 28.9 | 42.8 | 24.2 | 43.1 | 23.4 | 42.8 | 21.1 | 36.0 | 19.5 |
| 15 | 39.0 | 29.2 | 42.8 | 20.6 | 43.4 | 25.3 | 43.9 | 22.8 | 37.6 | 20.5 |
| 16 | 40.0 | 28.9 | 43.8 | 22.1 | 44.8 | 23.0 | 43.9 | 20.6 | 38.7 | 21.1 |
| 17 | 41.8 | 29.0 | 45.6 | 19.8 | 43.5 | 26.0 | 42.8 | 22.2 | 38.5 | 22.5 |
| 18 | 39.5 | 30.2 | 42.2 | 20.4 | 42.0 | 24.9 | 41.7 | 25.0 | 38.5 | 22.2 |
| 19 | 37.0 | 29.3 | 41.0 | 22.2 | 40.7 | 27.0 | 41.1 | 21.7 | 38.1 | 21.6 |
| 20 | 36.8 | 27.4 | 41.2 | 19.0 | 40.9 | 23.5 | 41.1 | 20.6 | 38.5 | 20.7 |
| 21 | 39.5 | 29.1 | 43.2 | 21.6 | 44.0 | 24.0 | 43.3 | 20.6 | 37.6 | 20.7 |
| 22 | 40.5 | 28.8 | 44.2 | 20.4 | 44.2 | 25.8 | 42.8 | 24.4 | 38.5 | 21.3 |
| 23 | 39.0 | 32.0 | 42.8 | 21.8 | 43.5 | 23.6 | 42.2 | 22.8 | 38.3 | 22.5 |
| 24 | 38.5 | 28.1 | 42.2 | 21.4 | 42.0 | 25.2 | 42.2 | 21.1 | 37.5 | 20.3 |
| 25 | 38.3 | 30.1 | 42.2 | 20.6 | 43.5 | 25.1 | 43.3 | 17.2 | 38.5 | 20.0 |
| 26 | 36.2 | 28.3 | 41.8 | 20.2 | 41.7 | 21.0 | 41.1 | 16.7 | 37.5 | 20.3 |
| 27 | 35.0 | 24.1 | 37.9 | 16.8 | 39.0 | 22.0 | 39.4 | 18.3 | 37.0 | 19.3 |
| 28 | 35.2 | 24.0 | 38.4 | 19.2 | 40.5 | 24.0 | 42.2 | 18.3 | 35.7 | 19.1 |
| 29 | 36.0 | 26.2 | 40.2 | 22.6 | 42.2 | 24.0 | 42.2 | 18.9 | 36.5 | 17.6 |
| 30 | 34.8 | 26.0 | 40.0 | 19.2 | 39.2 | 23.7 | 41.1 | 16.7 | 35.0 | 18.3 |
| 31 | 33.6 | 24.1 | 38.4 | 20.2 | 38.6 | 21.5 | 40.0 | 15.6 | 34.6 | 18.4 |
| MEANS | 37.9 | 27.9 | 41.6 | 21.7 | 42.0 | 24.3 | 42.1 | 21.6 | 37.2 | 20.6 |
| DEPARTURE FROM NORMAL | **** | **** | -1.8 | +0.6 | -0.3 | -1.9 | -1.0 | -3.3 | -1.7 | -0.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 44.6 | 17th | 1962 | 22.6 | 17th | 1963 |
| MOSUL | 49.8 | 6th | 1957 | 12.8 | 26th | 1952 |
| KIRKUK | 47.4 | 6th | 1956 | 19.4 | 26th | 1941 |
| KHANAQIN | 49.5 | 8th | 1938 | 11.6 | 24th | 1942 |
| RUTBAH | 43.6 | 10th | 1930 | 15.0 | 25th | 1949 |

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 42.1 | 25.6 | 42.3 | 24.2 | 41.4 | 22.1 | 42.8 | 26.4 |
| 2 | 41.3 | 25.0 | 41.9 | 25.3 | 39.8 | 24.1 | 43.2 | 25.3 |
| 3 | 39.2 | 26.1 | 39.2 | 27.8 | 39.0 | 24.6 | 40.6 | 26.8 |
| 4 | 40.0 | 25.6 | 39.9 | 26.2 | 38.6 | 23.2 | 40.4 | 24.4 |
| 5 | 42.2 | 24.1 | 40.9 | 22.8 | 40.8 | 23.1 | 41.4 | 23.0 |
| 6 | 43.4 | 28.2 | 43.2 | 26.9 | 41.5 | 25.1 | 43.4 | 27.6 |
| 7 | 43.3 | 24.6 | 41.5 | 26.2 | 41.4 | 24.0 | 41.6 | 23.0 |
| 8 | 42.2 | 24.5 | 42.4 | 23.7 | 41.6 | 23.3 | 42.1 | 24.6 |
| 9 | 41.6 | 24.2 | 40.8 | 24.0 | 42.4 | 24.1 | 42.0 | 25.2 |
| 10 | 42.3 | 25.0 | 41.0 | 26.2 | 40.4 | 23.4 | 41.3 | 22.8 |
| 11 | 42.4 | 25.6 | 41.3 | 25.5 | 39.5 | 21.4 | 41.8 | 25.8 |
| 12 | 39.9 | 25.6 | 39.4 | 25.6 | 38.6 | 21.0 | 39.6 | 26.8 |
| 13 | 40.4 | 24.7 | 40.5 | 26.5 | 38.8 | 23.1 | 41.6 | 26.7 |
| 14 | 42.7 | 24.9 | 42.3 | 24.9 | 39.0 | 23.1 | 41.2 | 26.0 |
| 15 | 42.3 | 23.9 | 41.7 | 24.5 | 39.4 | 22.8 | 42.2 | 24.0 |
| 16 | 43.6 | 23.4 | 43.4 | 22.1 | 42.0 | 23.0 | 43.0 | 25.1 |
| 17 | 43.4 | 27.2 | 43.2 | 23.0 | 41.5 | 23.2 | 43.1 | 23.0 |
| 18 | 43.4 | 25.0 | 42.2 | 22.1 | 41.0 | 23.6 | 44.0 | 23.3 |
| 19 | 43.4 | 23.9 | 42.9 | 23.7 | 42.0 | 24.1 | 43.1 | 22.0 |
| 20 | 41.2 | 23.8 | 41.2 | 26.4 | 41.4 | 23.6 | 42.0 | 24.0 |
| 21 | 42.4 | 23.1 | 43.2 | 23.0 | 41.5 | 22.3 | 42.8 | 27.3 |
| 22 | 42.5 | 24.2 | 42.4 | 21.2 | 41.3 | 21.4 | 43.0 | 23.0 |
| 23 | 44.1 | 23.0 | 43.2 | 20.5 | 42.0 | 23.6 | 43.4 | 23.0 |
| 24 | 41.7 | 23.6 | 40.8 | 23.5 | 40.3 | 22.5 | 43.0 | 26.0 |
| 25 | 43.1 | 21.1 | 42.1 | 19.0 | 41.5 | 21.2 | 43.0 | 21.6 |
| 26 | 42.5 | 21.7 | 42.0 | 19.3 | 40.4 | 21.4 | 41.8 | 23.8 |
| 27 | 40.4 | 23.3 | 39.9 | 22.0 | 40.5 | 21.5 | 43.0 | 25.0 |
| 28 | 43.9 | 21.6 | 43.0 | 26.2 | 40.6 | 22.3 | 45.1 | 24.8 |
| 29 | 42.2 | 24.5 | 42.4 | 24.0 | 41.4 | 22.6 | 44.6 | 25.0 |
| 30 | 41.5 | 23.1 | 42.0 | 27.2 | 41.0 | 22.4 | 43.8 | 25.2 |
| 31 | 38.3 | 24.6 | 39.2 | 25.1 | 40.4 | 22.0 | 41.8 | 28.0 |
| MEANS | 42.0 | 24.3 | 41.6 | 24.1 | 40.7 | 22.9 | 42.4 | 24.9 |
| DEPARTURE FROM NORMAL | -1.7 | -0.5 | -1.9 | -0.6 | .... | .... | -1.5 | -1.0 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 50.0 | 1&8th | 1938 | 19.4 | 29th | 1941 |
| BAGHDAD | 50.2 | 5th | 1957 | 17.8 | 22nd | 1937 |
| NUKHAIB | 45.0 | 23rd | 1963 | 21.0 | 12th | 1964 |
| HAI | 48.9 | 26th | 1943 | 18.9 | 30th | 1941 |

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TABLE 4-e.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 44.9 | 27.5 | 45.4 | 24.9 | 44.8 | 26.1 | 42.3 | 26.5 |
| 2 | 43.2 | 28.0 | 43.8 | 27.5 | 44.2 | 25.7 | 41.2 | 27.0 |
| 3 | 40.5 | 29.4 | 41.0 | 25.1 | 41.8 | 25.9 | 39.7 | 25.9 |
| 4 | 42.1 | 27.0 | 40.4 | 25.0 | 40.5 | 26.0 | 37.4 | 26.6 |
| 5 | 41.4 | 23.2 | 41.4 | 22.2 | 41.9 | 23.8 | 39.0 | 24.9 |
| 6 | 44.0 | 22.2 | 43.5 | 28.0 | 44.1 | 27.1 | 41.0 | 26.2 |
| 7 | 42.8 | 25.5 | 41.0 | 25.0 | 42.2 | 25.0 | 38.3 | 27.7 |
| 8 | 43.0 | 24.8 | 42.2 | 22.0 | 42.1 | 23.6 | 39.0 | 24.6 |
| 9 | 43.0 | 25.2 | 43.2 | 23.5 | 42.3 | 24.6 | 38.0 | 24.3 |
| 10 | 42.0 | 26.0 | 41.7 | 23.8 | 39.5 | 24.0 | 37.5 | 24.1 |
| 11 | 42.0 | 25.5 | 41.0 | 25.4 | 40.3 | 25.2 | 37.6 | 26.4 |
| 12 | 40.2 | 25.0 | 39.5 | 26.5 | 39.0 | 26.4 | 37.2 | 25.8 |
| 13 | 40.0 | 25.5 | 40.2 | 26.2 | 40.9 | 26.6 | 38.3 | 25.5 |
| 14 | 34.5 | 35.4 | 40.2 | 26.5 | 41.7 | 25.8 | 38.4 | 25.7 |
| 15 | 42.2 | 25.5 | 41.[illegible] | 24.2 | 42.8 | 25.0 | 40.1 | 24.4 |
| 16 | 44.2 | 26.0 | 43.4 | 24.5 | 43.4 | 24.6 | 40.2 | 25.2 |
| 17 | 43.8 | 26.4 | 43.4 | 22.2 | 43.5 | 25.3 | 41.0 | 24.8 |
| 18 | 44.3 | 27.2 | 43.0 | 23.8 | 44.6 | 23.2 | 42.7 | 24.7 |
| 19 | 43.8 | 25.8 | 44.4 | 22.[illegible] | 44.0 | 24.[illegible] | 41.2 | 24.8 |
| 20 | 42.4 | 24.2 | 42.0 | 24.3 | 42.4 | 23.6 | 39.3 | 23.4 |
| 21 | 42.6 | 25.4 | 42.7 | 23.0 | 43.0 | 23.5 | 38.8 | 25.3 |
| 22 | 42.5 | 24.0 | 42.0 | 20.0 | 42.8 | 24.9 | 40.0 | 22.4 |
| 23 | 43.4 | 25.2 | 43.0 | 22.2 | 44.5 | 22.8 | 41.6 | 23.6 |
| 24 | 42.4 | 23.8 | 41.4 | 24.0 | 43.8 | 24.2 | 41.1 | 22.8 |
| 25 | 43.2 | 23.2 | 42.5 | 19.2 | 43.2 | 20.9 | 40.6 | 21.7 |
| 26 | 43.4 | 24.4 | 42.0 | 20.5 | 43.4 | 22.4 | 40.0 | 21.6 |
| 27 | 42.6 | 24.6 | 42.5 | 24.5 | 43.9 | 23.8 | 40.8 | 24.2 |
| 28 | 44.0 | 25.2 | 44.1 | 26.3 | 45.5 | 26.2 | 43.8 | 24.4 |
| 29 | 44.3 | 24.7 | 44.3 | 24.7 | 45.5 | 24.1 | 42.9 | 25.2 |
| 30 | 44.0 | 23.8 | 43.4 | 23.6 | 42.0 | 25.0 | 40.7 | 26.6 |
| 31 | 40.2 | 24.5 | 39.8 | 23.1 | 40.2 | 24.7 | 38.4 | 27.5 |
| MEANS | 42.5 | 25.6 | 42.3 | 24.0 | 42.7 | 24.6 | 39.9 | 25.2 |
| DEPARTURE FROM NORMAL | .... | .... | -0.4 | +1.1 | -1.4 | -0.1 | -0.4 | -1.4 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 47.3 | 4th | 1963 | 22.2 | 6th | 1964 |
| DIWANIYA | 48.3 | 26th | 1943 | 16.1 | 29th | 1941 |
| NASIRIYA | 49.4 | 15th | 1951 | 16.1 | 24th | 1946 |
| BASRAH | 48.9 | 9th | 1938 | 20.0 | 29th | 1941 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | | | TIME - G.M.T. | | | | | | |
| SINJAR | .... | 29.7 | 33.3 | 36.0 | 37.3 | 37.2 | 32.2 | .... | 34.3 |
| MOSUL | 24.7 | 23.3 | 30.7 | 39.2 | 41.2 | 39.7 | 33.2 | 28.5 | 32.6 |
| KIRKUK | 27.3 | 25.6 | 33.6 | 39.7 | 41.5 | 39.7 | 32.7 | 29.4 | 33.7 |
| KHANAQIN | .... | 23.6 | 34.4 | 39.9 | 41.8 | 39.7 | 32.8 | .... | 35.4 |
| RUTBAH | 22.9 | 21.1 | 27.9 | 34.1 | 36.8 | 35.5 | 29.3 | 25.6 | 29.1 |
| HABBANIYA | 25.6 | 24.0 | 31.8 | 39.3 | 41.6 | 39.1 | 31.8 | 28.9 | 32.9 |
| BAGHDAD | 27.6 | 25.2 | 31.6 | 38.7 | 41.2 | 39.1 | 32.0 | 29.5 | 33.1 |
| NUKHAIB | .... | .... | 31.4 | 36.7 | 39.9 | 39.2 | .... | .... | 36.8 |
| HAI | 27.4 | 25.7 | 33.3 | 40.5 | 42.1 | 38.3 | 32.2 | .... | 34.2 |
| NAJAF | 28.5 | 22.8 | 33.7 | 39.3 | 41.7 | 40.7 | 34.9 | .... | 34.5 |
| DIWANIYA | 26.1 | 24.7 | 33.7 | 40.3 | 41.9 | 39.2 | 31.5 | 28.0 | 33.2 |
| NASIRIYA | 27.0 | 25.1 | 33.1 | 40.6 | 42.1 | 39.0 | 33.3 | 29.7 | 33.7 |
| BASRAH | 27.5 | 25.5 | 32.3 | 37.4 | 39.1 | 36.0 | 32.3 | 30.0 | 32.5 |

TABLE 6 . المعدل الشهري للضغط البخاري ( ملليبارات )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 7.8 | 8.2 | 7.8 | 7.7 | 7.5 | 7.8 | .... | 7.6 |
| MOSUL | 11.6 | 11.2 | 13.5 | 14.7 | 13.1 | 11.7 | 10.8 | 10.11 | 12.2 |
| KIRKUK | 8.5 | 8.9 | 9.5 | 8.4 | 7.8 | 7.3 | 8.6 | 9.0 | 8.5 |
| KHANAQIN | .... | 8.1 | 10.4 | 10.3 | 10.3 | 10.0 | 10.9 | .... | 10.0 |
| RUTBAH | 10.6 | 11.4 | 11.3 | 9.6 | 8.0 | 8.0 | 8.6 | 9.0 | 9.6 |
| HABBANIYA | 14.0 | 14.2 | 17.1 | 15.8 | 13.7 | 12.3 | 15.3 | 14.1 | 14.6 |
| BAGHDAD | 11.8 | 11.9 | 14.8 | 14.9 | 11.9 | 12.7 | 12.2 | 11.9 | 11.5 |
| NUKHAIB | .... | .... | 11.7 | 10.7 | 10.1 | 9.1 | .... | .... | 10.4 |
| HAI | 11.6 | 11.9 | 15.8 | 14.7 | 14.0 | 14.9 | 13.4 | .... | 13.8 |
| NAJAF | 12.1 | 11.6 | 13.0 | 11.8 | 12.3 | 11.6 | 12.3 | .... | 12.1 |
| DIWANIYA | 12.5 | 12.9 | 15.4 | 15.3 | 11.9 | 13.1 | 13.9 | 13.1 | 13.5 |
| NASIRIYA | 11.1 | 10.2 | 12.9 | 12.0 | 11.4 | 12.7 | 12.9 | 12.5 | 12.0 |
| BASRAH | 18.4 | 16.5 | 19.9 | 21.7 | 20.3 | 22.0 | 20.7 | 18.8 | 19.8 |

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

MONTHLY MEAN WET-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 16.2 | 17.8 | 18.7 | 19.1 | 18.9 | 17.6 | .... | 18.1 |
| MOSUL | 16.2 | 15.3 | 19.4 | 22.8 | 22.8 | 21.7 | 19.1 | 17.2 | 19.3 |
| KIRKUK | 15.6 | 15.0 | 18.4 | 20.3 | 20.7 | 19.8 | 17.9 | 15.6 | 18.0 |
| KHANAQIN | .... | 13.9 | 19.3 | 21.2 | 21.8 | 21.0 | 18.9 | .... | 19.4 |
| RUTBAH | 15.0 | 14.6 | 17.3 | 18.9 | 19.2 | 18.7 | 16.6 | 15.2 | 16.9 |
| HABBANIYA | 17.3 | 17.5 | 21.2 | 23.2 | 23.2 | 23.1 | 20.5 | 19.3 | 20.7 |
| BAGHDAD | 17.4 | 16.5 | 20.5 | 22.6 | 22.3 | 22.6 | 19.3 | 18.1 | 19.9 |
| NUKHAIB | .... | .... | 18.8 | 20.2 | 21.1 | 20.4 | .... | .... | 20.1 |
| HAI | 17.3 | 16.8 | 21.3 | 23.2 | 23.8 | 22.6 | 19.9 | .... | 20.7 |
| NAJAF | 17.9 | 16.7 | 20.1 | 22.0 | 22.7 | 22.1 | 20.3 | .... | 20.3 |
| DIWANIYA | 17.2 | 16.7 | 21.2 | 23.2 | 22.6 | 21.5 | 19.8 | 18.3 | 20.1 |
| NASIRIYA | 16.8 | 15.6 | 20.0 | 22.2 | 22.4 | 21.9 | 20.0 | 18.5 | 19.7 |
| BASRAH | 20.4 | 18.8 | 22.7 | 25.0 | 25.0 | 24.6 | 23.0 | 21.3 | 22.6 |

TABLE 8 . المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 3.1 | 3.7 | 3.4 | 3.0 | 2.9 | 3.5 | .... | 3.3 |
| MOSUL | 8.8 | 8.2 | 10.9 | 12.4 | 10.7 | 8.8 | 7.6 | 7.8 | 9.4 |
| KIRKUK | 4.3 | 4.9 | 5.9 | 3.9 | 2.9 | 2.1 | 4.5 | 5.1 | 4.2 |
| KHANAQIN | .... | 3.8 | 7.3 | 7.2 | 7.2 | 6.7 | 8.0 | ... | 6.7 |
| RUTBAH | 7.5 | 8.7 | 8.6 | 6.3 | 3.9 | 3.6 | 4.9 | 5.3 | 6.1 |
| HABBANIYA | 11.6 | 11.9 | 11.7 | 13.5 | 12.0 | 13.1 | 13.2 | 11.8 | 12.4 |
| BAGHDAD | 9.5 | 9.5 | 13.0 | 12.4 | 9.0 | 10.2 | 9.6 | 9.0 | 10.3 |
| NUKHAIB | ... | ... | 9.0 | 7.6 | 6.8 | 5.3 | ... | ... | 7.2 |
| HAI | 9.1 | 9.5 | 13.7 | 12.3 | 12.0 | 12.7 | 11.2 | .... | 11.5 |
| NAJAF | 9.7 | 9.0 | 10.8 | 9.2 | 10.5 | 9.0 | 9.8 | ... | 9.7 |
| DIWANIYA | 10.0 | 10.6 | 13.5 | 12.7 | 9.4 | 8.5 | 11.6 | 10.9 | 10.9 |
| NASIRIYA | 8.0 | 7.0 | 10.5 | 9.4 | 8.6 | 10.2 | 10.3 | 9.7 | 9.2 |
| BASRAH | 15.9 | 14.2 | 17.3 | 18.7 | 17.5 | 18.9 | 17.8 | 15.8 | 17.0 |

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TABLE - 9.

المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( ٪ )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | | | T I M E - G . M . T . | | | | | | |
| SINJAR | ... | 19 | 17 | 13 | 12 | 13 | 16 | ... | 15 |
| MOSUL | 38 | 39 | 31 | 21 | 17 | 16 | 22 | 28 | 27 |
| KIRKUK | 24 | 27 | 19 | 12 | 10 | 10 | 18 | 23 | 18 |
| KHANAQIN | ... | 28 | 19 | 14 | 13 | 14 | 22 | ... | 18 |
| RUTBAH | 38 | 46 | 30 | 18 | 13 | 14 | 21 | 27 | 26 |
| HABBANIYA | 40 | 45 | 38 | 22 | 18 | 22 | 33 | 35 | 32 |
| BAGHDAD | 32 | 37 | 33 | 21 | 15 | 18 | 26 | 30 | 26 |
| NUKHAIB | ... | ... | 26 | 18 | 14 | 13 | ... | ... | 18 |
| HAI | 32 | 36 | 31 | 20 | 17 | 22 | 25 | ... | 26 |
| NAJAF | 31 | 35 | 25 | 17 | 15 | 15 | 22 | ... | 23 |
| DIWANIYA | 37 | 41 | 29 | 20 | 15 | 18 | 30 | 35 | 28 |
| NASIRIYA | 31 | 32 | 25 | 16 | 14 | 18 | 25 | 30 | 24 |
| BASRAH | 50 | 51 | 41 | 34 | 30 | 37 | 43 | 45 | 41 |

TABLE -10.

المعدل الشهري للضغط الجوي على سطح البحر ( ملي بار )

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 99.7 | 99.6 | 99.2 | 98.4 | 96.1 | 99.6 | .... | 998.8 |
| MOSUL | 99.9 | 00.8 | 00.7 | 99.4 | 97.9 | 97.4 | 99.2 | 99.8 | 999.4 |
| KIRKUK | 99.7 | 00.3 | 99.9 | 98.7 | 97.4 | 97.1 | 99.4 | 00.0 | 999.1 |
| KHANAQIN | .... | 00.0 | 98.3 | 97.3 | 96.3 | 96.4 | 98.5 | .... | 997.8 |
| RUTBAH | 02.2 | 03.0 | 03.5 | 02.9 | 02.1 | 01.9 | 02.6 | 02.5 | 1002.6 |
| HABBANIYA | 99.3 | 00.2 | 01.2 | 00.4 | 99.1 | 98.8 | 99.7 | 99.9 | 999.8 |
| BAGHDAD | 98.6 | 99.7 | 99.5 | 98.7 | 98.8 | 98.0 | 99.1 | 99.1 | 999.1 |
| NUKHAIB | .... | .... | 02.9 | 01.9 | 00.1 | 99.4 | .... | .... | 1001.1 |
| HAI | 97.0 | 97.5 | 98.5 | 98.3 | 97.1 | 96.5 | 97.6 | .... | 997.5 |
| NAJAF | 98.4 | 99.5 | 00.5 | 00.0 | 98.7 | 98.1 | 99.0 | [illegible] | 999.2 |
| DIWANIYA | 98.9 | 99.8 | 00.5 | 00.5 | 99.0 | 98.5 | 99.5 | 99.4 | 999.5 |
| NASIRIYA | 97.9 | 98.5 | 99.2 | 99.0 | 97.8 | 97.6 | 98.5 | 98.3 | 998.4 |
| BASRAH | 97.5 | 97.9 | 98.9 | 98.7 | 97.7 | 97.2 | 98.1 | 97.8 | 998.0 |

TABLE -11.

المعدل الشهري لكمية الغيوم الواطئة ( أكفاء )

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | ... | 0.0 |
| MOSUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 |
| KIRKUK | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| KHANAQIN | ... | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | ... | 0.0 |
| RUTBAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| HABBANIYA | 0.0 | 0.0 | 0.3 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |
| BAGHDAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUKHAIB | ... | ... | 0.0 | 0.0 | 0.0 | 0.0 | ... | ... | 0.0 |
| HAI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NAJAF | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 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 | 0.0 | 0.5 | 2.3 | 2.1 | 1.8 | 0.0 | 0.0 | 0.8 |
| BASRAH | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.3 |

TABLE -12.

معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | ... | 0.0 |
| MOSUL | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 |
| KIRKUK | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| KHANAQIN | ... | 0.0 | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | ... | 0.1 |
| RUTBAH | 0.0 | 0.3 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| HABBANIYA | 0.0 | 0.0 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| BAGHDAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| NUKHAIB | ... | ... | 0.0 | 0.0 | 0.0 | 0.1 | ... | ... | 0.0 |
| HAI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ... | 0.0 |
| NAJAF | 0.0 | 0.1 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | ... | 0.1 |
| DIWANIYA | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASIRIYA | 0.0 | 0.1 | 0.5 | 2.3 | 2.1 | 1.8 | 0.0 | 0.0 | 0.9 |
| BASRAH | 0.0 | 0.2 | 0.1 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.3 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت گرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 14 | 0 | 0 | 0 | 1 | 0 | 4 | 8 | 4 | 22 | 5 | 0 | 0 | 7 |
| | 0600 | 7 | 0 | 4 | 0 | 0 | 1 | 6 | 6 | 7 | 19 | 5 | 0 | 0 | 5 |
| | 0900 | 2 | 0 | 4 | 0 | 2 | 1 | 15 | 2 | 5 | 21 | 5 | 0 | 0 | 6 |
| | 1200 | 5 | 0 | 3 | 0 | 5 | 0 | 13 | 2 | 3 | 22 | 6 | 0 | 0 | 7 |
| | 1500 | 1 | 1 | 0 | 0 | 2 | 0 | 17 | 5 | 4 | 23 | 4 | 0 | 0 | 7 |
| | 1800 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 4 | 4 | 25 | 2 | 0 | 0 | 6 |
| | TOTAL | 30 | 1 | 11 | 0 | 10 | 2 | 77 | 28 | 27 | 132 | 27 | 0 | 0 | 7 |
| موصل MOSUL | 0000 | 0 | 2 | 0 | 0 | 4 | 1 | 4 | 6 | 14 | 12 | 5 | 0 | 0 | 5 |
| | 0300 | 5 | 0 | 1 | 0 | 2 | 0 | 7 | 7 | 9 | 19 | 3 | 0 | 0 | 5 |
| | 0600 | 11 | 1 | 0 | 0 | 1 | 0 | 4 | 13 | 1 | 23 | 7 | 0 | 0 | 6 |
| | 0900 | 11 | 0 | 0 | 0 | 3 | 0 | 11 | 4 | 2 | 21 | 8 | 0 | 0 | 9 |
| | 1200 | 5 | 4 | 2 | 0 | 5 | 2 | 6 | 6 | 1 | 20 | 10 | 0 | 0 | 9 |
| | 1500 | 2 | 1 | 3 | 0 | 3 | 1 | 10 | 10 | 1 | 22 | 8 | 0 | 0 | 8 |
| | 1800 | 1 | 0 | 0 | 0 | 1 | 0 | 12 | 12 | 5 | 14 | 12 | 0 | 0 | 9 |
| | 2100 | 4 | 0 | 2 | 0 | 0 | 0 | 6 | 12 | 7 | 18 | 6 | 0 | 0 | 7 |
| | TOTAL | 39 | 8 | 8 | 0 | 19 | 4 | 60 | 70 | 40 | 149 | 59 | 0 | 0 | 8 |
| كركوك KIRKUK | 0000 | 1 | 5 | 1 | 0 | 0 | 0 | 1 | 1 | 22 | 9 | 0 | 0 | 0 | 2 |
| | 0300 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 24 | 7 | 0 | 0 | 0 | 1 |
| | 0600 | 0 | 0 | 1 | 0 | 3 | 1 | 4 | 3 | 19 | 12 | 0 | 0 | 0 | 2 |
| | 0900 | 2 | 0 | 0 | 0 | 2 | 3 | 13 | 6 | 5 | 24 | 2 | 0 | 0 | 5 |
| | 1200 | 0 | 0 | 1 | 0 | 0 | 6 | 19 | 0 | 5 | 23 | 3 | 0 | 0 | 7 |
| | 1500 | 1 | 0 | 0 | 0 | 1 | 4 | 18 | 3 | 4 | 26 | 1 | 0 | 0 | 5 |
| | 1800 | 1 | 0 | 0 | 1 | 0 | 1 | 6 | 0 | 22 | 9 | 0 | 0 | 0 | 1 |
| | 2100 | 1 | 1 | 2 | 0 | 0 | 0 | 3 | 1 | 23 | 8 | 0 | 0 | 0 | 1 |
| | TOTAL | 6 | 11 | 6 | 1 | 6 | 15 | 64 | 15 | 224 | 118 | 6 | 0 | 0 | 3 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 15 | 0 | 6 | 0 | 2 | 0 | 8 | 23 | 0 | 0 | 0 | 4 |
| | 0600 | 1 | 0 | 5 | 0 | 4 | 0 | 6 | 3 | 12 | 19 | 0 | 0 | 0 | 3 |
| | 0900 | 2 | 0 | 0 | 0 | 2 | 0 | 16 | 8 | 3 | 27 | 1 | 0 | 0 | 6 |
| | 1200 | 0 | 0 | 0 | 0 | 3 | 0 | 22 | 6 | 0 | 29 | 2 | 0 | 0 | 7 |
| | 1500 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 8 | 0 | 31 | 0 | 0 | 0 | 6 |
| | 1800 | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 3 | 18 | 13 | 0 | 0 | 0 | 2 |
| | TOTAL | 6 | 0 | 20 | 0 | 18 | 0 | 73 | 28 | 41 | 142 | 3 | 0 | 0 | 5 |
| رطبة RUTBAH | 0000 | 4 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 11 | 9 | 11 | 0 | 0 | 7 |
| | 0300 | 2 | 0 | 0 | 0 | 1 | 0 | 13 | 8 | 7 | 17 | 7 | 0 | 0 | 7 |
| | 0600 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 13 | 2 | 23 | 6 | 0 | 0 | 7 |
| | 0900 | 6 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 5 | 23 | 3 | 0 | 0 | 5 |
| | 1200 | 2 | 0 | 0 | 0 | 1 | 0 | 11 | 13 | 4 | 22 | 5 | 0 | 0 | 7 |
| | 1500 | 6 | 0 | 1 | 0 | 0 | 0 | 12 | 10 | 2 | 28 | 1 | 0 | 0 | 6 |
| | 1800 | 7 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 7 | 24 | 0 | 0 | 0 | 5 |
| | 2100 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 9 | 10 | 13 | 8 | 0 | 0 | 6 |
| | TOTAL | 30 | 0 | 1 | 0 | 2 | 0 | 92 | 74 | 48 | 159 | 41 | 0 | 0 | 6 |

AUGUST 1964 .
TABLE 13-b.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.R. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 5 | 5 | 22 | 4 | 0 | 0 | 6 |
| | 0300 | 1 | 0 | 0 | 0 | 0 | 0 | 18 | 10 | 2 | 17 | 12 | 0 | 0 | 10 |
| | 0600 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 14 | 0 | 9 | 21 | 1 | 0 | 13 |
| | 0900 | 3 | 1 | 0 | 0 | 0 | 0 | 24 | 3 | 0 | 8 | 23 | 0 | 0 | 14 |
| | 1200 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 11 | 1 | 9 | 20 | 1 | 0 | 13 |
| | 1500 | 2 | 0 | 0 | 0 | 1 | 0 | 20 | 6 | 2 | 23 | 6 | 0 | 0 | 8 |
| | 1800 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 3 | 7 | 24 | 0 | 0 | 0 | 5 |
| | 2100 | 2 | 0 | 0 | 0 | 0 | 0 | 20 | 3 | 6 | 23 | 2 | 0 | 0 | 6 |
| | TOTAL | 13 | 1 | 0 | 0 | 1 | 1 | 154 | 55 | 23 | 135 | 88 | 2 | 0 | 9 |
| بغداد BAGHDAD | 0000 | 3 | 2 | 0 | 0 | 0 | 0 | 4 | 19 | 3 | 19 | 9 | 0 | 0 | 9 |
| | 0300 | 5 | 1 | 0 | 0 | 0 | 0 | 6 | 15 | 4 | 17 | 10 | 0 | 0 | 8 |
| | 0600 | 4 | 1 | 0 | 0 | 0 | 0 | 4 | 21 | 1 | 15 | 15 | 0 | 0 | 12 |
| | 0900 | 4 | 0 | 0 | 1 | 0 | 0 | 6 | 20 | 0 | 9 | 21 | 1 | 0 | 13 |
| | 1200 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 16 | 0 | 10 | 20 | 1 | 0 | 14 |
| | 1500 | 3 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 2 | 17 | 12 | 0 | 0 | 10 |
| | 1800 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 17 | 8 | 20 | 3 | 0 | 0 | 6 |
| | 2100 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 18 | 6 | 18 | 7 | 0 | 0 | 7 |
| | TOTAL | 28 | 4 | 0 | 1 | 0 | 0 | 52 | 139 | 24 | 125 | 97 | 2 | 0 | 10 |
| نخيب NUKHAIB | 0600 | 15 | 0 | 1 | 0 | 0 | 0 | 10 | 5 | 0 | 5 | 19 | 7 | 0 | 17 |
| | 0900 | 7 | 1 | 0 | 0 | 0 | 0 | 10 | 13 | 0 | 9 | 20 | 2 | 0 | 14 |
| | 1200 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 2 | 13 | 14 | 2 | 0 | 11 |
| | 1500 | 0 | 0 | 1 | 0 | 0 | 1 | 18 | 9 | 2 | 18 | 11 | 0 | 0 | 9 |
| | TOTAL | 23 | 1 | 2 | 0 | 0 | 1 | 53 | 40 | 4 | 45 | 64 | 11 | 0 | 13 |
| حي HAI | 0000 | 2 | 0 | 0 | 0 | 0 | 0 | 16 | 13 | 0 | 22 | 9 | 0 | 0 | 10 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 10 | 1 | 23 | 7 | 0 | 0 | 8 |
| | 0600 | 3 | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 0 | 22 | 8 | 1 | 0 | 9 |
| | 0900 | 1 | 0 | 0 | 0 | 0 | 1 | 20 | 8 | 1 | 14 | 15 | 1 | 0 | 11 |
| | 1200 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 14 | 1 | 19 | 11 | 0 | 0 | 9 |
| | 1500 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 13 | 1 | 13 | 17 | 0 | 0 | 12 |
| | 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 9 | 1 | 27 | 3 | 0 | 0 | 7 |
| | TOTAL | 7 | 0 | 0 | 0 | 0 | 2 | 123 | 80 | 5 | 140 | 70 | 2 | 0 | 8 |
| نجف NAJAF | 0000 | 18 | 1 | 0 | 0 | 0 | 0 | 5 | 6 | 1 | 28 | 2 | 0 | 0 | 6 |
| | 0300 | 22 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 28 | 3 | 0 | 0 | 7 |
| | 0600 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 18 | 13 | 0 | 0 | 10 |
| | 0900 | 26 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 16 | 15 | 1 | 0 | 10 |
| | 1200 | 25 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 0 | 20 | 10 | 1 | 0 | 11 |
| | 1500 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 27 | 4 | 0 | 0 | 4 |
| | 1800 | 26 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 31 | 0 | 0 | 0 | 5 |
| | TOTAL | 174 | 3 | 2 | 1 | 1 | 1 | 13 | 20 | 2 | 168 | 45 | 2 | 0 | 8 |

AUGUST 1964 .
TABLE 13-c.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ساكن Calm | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 8 | 0 | 0 | 0 | 0 | 1 | 15 | 4 | 3 | 18 | 10 | 0 | 0 | 8 |
| | 0300 | 5 | 0 | 0 | 0 | 0 | 0 | 16 | 7 | 3 | 23 | 5 | 0 | 0 | 7 |
| | 0600 | 14 | 1 | 0 | 0 | 0 | 0 | 11 | 3 | 2 | 11 | 18 | 0 | 0 | 11 |
| | 0900 | 10 | 0 | 0 | 1 | 0 | 1 | 13 | 5 | 1 | 7 | 22 | 1 | 0 | 13 |
| | 1200 | 8 | 0 | 0 | 0 | 1 | 0 | 17 | 5 | 0 | 7 | 23 | 1 | 0 | 14 |
| | 1500 | 13 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 2 | 16 | 13 | 0 | 0 | 9 |
| | 1800 | 9 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 5 | 21 | 5 | 0 | 0 | 6 |
| | 2100 | 9 | 0 | 0 | 0 | 0 | 0 | 18 | 3 | 1 | 25 | 5 | 0 | 0 | 7 |
| | TOTAL | 76 | 1 | 0 | 1 | 1 | 2 | 112 | 38 | 17 | 128 | 91 | 2 | 0 | 9 |
| ناصرية NASIRIYA | 0000 | 2 | 0 | 0 | 0 | 0 | 1 | 22 | 6 | 0 | 31 | 0 | 0 | 0 | 7 |
| | 0300 | 2 | 0 | 0 | 0 | 0 | 1 | 21 | 6 | 1 | 30 | 0 | 0 | 0 | 7 |
| | 0600 | 2 | 0 | 0 | 0 | 0 | 0 | 13 | 15 | 1 | 17 | 13 | 0 | 0 | 11 |
| | 0900 | 3 | 0 | 0 | 1 | 0 | 0 | 4 | 23 | 0 | 10 | 21 | 0 | 0 | 13 |
| | 1200 | 2 | 0 | 0 | 0 | 1 | 0 | 6 | 22 | 0 | 11 | 20 | 0 | 0 | 13 |
| | 1500 | 1 | 0 | 0 | 1 | 0 | 0 | 15 | 14 | 0 | 22 | 9 | 0 | 0 | 10 |
| | 1800 | 1 | 0 | 1 | 0 | 0 | 0 | 18 | 10 | 1 | 30 | 0 | 0 | 0 | 7 |
| | 2100 | 1 | 1 | 0 | 0 | 0 | 0 | 19 | 9 | 1 | 30 | 0 | 0 | 0 | 7 |
| | TOTAL | 14 | 1 | 1 | 2 | 1 | 2 | 118 | 105 | 4 | 181 | 63 | 0 | 0 | 9 |
| بصرة BASRAH | 0000 | 5 | 0 | 0 | 0 | 0 | 0 | 11 | 15 | 0 | 21 | 10 | 0 | 0 | 8 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 15 | 0 | 22 | 9 | 0 | 0 | 9 |
| | 0600 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 25 | 0 | 13 | 18 | 0 | 0 | 12 |
| | 0900 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 29 | 0 | 8 | 22 | 1 | 0 | 13 |
| | 1200 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 5 | 26 | 0 | 0 | 14 |
| | 1500 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 23 | 0 | 16 | 15 | 0 | 0 | 10 |
| | 1800 | 2 | 1 | 0 | 0 | 0 | 0 | 4 | 23 | 1 | 12 | 18 | 0 | 0 | 11 |
| | 2100 | 1 | 0 | 1 | 0 | 0 | 1 | 4 | 24 | 0 | 13 | 18 | 0 | 0 | 11 |
| | TOTAL | 18 | 2 | 1 | 0 | 0 | 1 | 41 | 184 | 1 | 120 | 126 | 1 | 0 | 11 |

TABLE 14 .

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|---|
| SINJAR | 18 | Knots | 260 | 1200 | 26th |
| MOSUL | 18 | | 300 | 0000 | 13th |
| KIRKUK | 18 | | 290 | 1200 | 30th |
| KHANAQIN | 13 | | 270 | 1200 | 13th |
| RUTBAH | 18 | | 280 | 0000 | 17th |
| HABBANIYA | 23 | | 270 | 1200 | 3rd |
| BAGHDAD | 22 | | 320 | 1200 | 13th |
| HAI | 24 | | 310 | 0900 | 31st |
| NUKHAIB | 28 | | 340 | 0600 | 13th |
| NAJAF | 30 | | 360 | 1200 | 13th |
| DIWANIYA | 25 | | 310 | 1200 | 31st |
| NASIRIYA | 19 | | 330 | 0900 | 31st |
| BASRAH | 24 | | 320 | 0900 | 11th |

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TABLE 15-a.

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الايام | سنجار | موصل | كركوك | خانقين | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | KHANAQIN | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| TOTAL | | | 0 | 0 | 0 | | 0 |
| NORMAL | | | 0.1 | | | | |

| STATIONS | HIGHEST AMOUNT OF RAIN DURING ONE HOUR | DAY | YEAR |
|---|---|---|---|
| MOSUL | 0.2 mm. | 5th | 1954 |
| KIRKUK | 0.2 | 10th | 1956 |
| KHANAQIN | 1.9 | 22nd | 1938 |
| RUTBAH | tr. | 10th | 1952 |
| HABBANIYA | tr. | 10th | 1956 |
| BAGHDAD | tr. | 7th | 1942 |

AUGUST 1964 . آب ١٩٦٤

TABLE 15-b.

الهطول اليومي ( ملليمترات )

DAILY PRECIPITATION ( MILLIMETERS )

| الأيام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| TOTAL | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NORMAL | | | | | | |

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

## CLIMATOLOGICAL SUMMARY الملخصات المناخية

### NUMBER OF DAYS FOR THE CASES OF PHENOMENA عدد الايام التي حدثت فيها الظواهر الجوية

| STATION | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| MOSUL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| KIRKUK | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 4 | 2 | 0 | 0 | 31 | 0 |
| KHANAQIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| RUTBAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 31 | 0 |
| HABBANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 1 | 0 | 31 | 0 |
| BAGHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 12 | 4 | 4 | 0 | 31 | 0 |
| NUKHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 31 | 0 |
| HAI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 0 | 31 | 0 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 1 | 0 | 30 | 0 |
| DIWANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 31 | 0 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 9 | 0 | 22 | 0 |
| BASRAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 4 | 0 | 28 | 0 |

### TABLE - 17. DURATION OF SUNSHINE مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 397.8 | 13.4 | 16th | 0 |
| HABBANIYA | 369.4 | 12,7 | 6th | 0 |
| BAGHDAD | 336.3 | 12.4 | 1,21&23 | 0 |
| BASRAH | 308.6 | 12.6 | 1&2nd | 0 |

### TABLE - 18. MONTHLY MEAN TEMPERATURE OF : المعدل الشهري لحرارة الحشيش و التربة ( سنتغراد )

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M |
|---|---|---|---|
| MOSUL | .... | 29.5 | .... |
| KIRKUK | 18.5 | 30.7 | 28.7 |
| HABBANIYA | 23.0 | 34.4 | 32.0 |
| BAGHDAD | 20.0 | 33.8 | 30.7 |
| NAJAF | .... | 34.9 | 33.5 |
| NASIRIYA | 23.2 | 34.7 | 31.5 |
| BASRAH | 19.3 | .... | .... |

Weather Bureau
Iraq
Baghdad

DUPLICATE SUPPLUS
Copy No. 16

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

# REPUBLIC OF IRAQ

## MINISTRY OF COMMUNICATIONS

### DIRECTORATE GENERAL OF CIVIL AVIATION

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مديرية الانواء الجوية

## METEOROLOGICAL DEPARTMENT

شعبة احصائيات المناخ

CLIMATOLOGICAL SECTION

تقرير المناخ الشهرى

# Monthly Climatological Data

No. 9, 10, 11 & 12
Vol. 28
Months : SEPTEMBER, OCTOBER, NOVEMBER & DECEMBER
Year : 1964

العـــدد : ٩ ، ١٠ ، ١١ و١٢
مجلـد : ٢٨
الشهر : ايلـول ، تشرين الاول تشرين الثاني وكانون الاول
السنة :ـ ١٩٦٤

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

شعبة المناخ

بغداد

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MINISTRY OF COMMUNICATIONS

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CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر ايلول ١٩٦٤

مجلد ٢٧ عدد ( ٩ ) ، ايلول ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR SEPTEMBER 1964

VOLUME 27 , No. ( 9 ) , S E P T E M B E R 1964

# C O N T E N T S


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| = = relative humidity | 3 | 5 |
| = maximum and minimum temperature | 4a-c | 6-8 |
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| = = vapour-pressure | 6 | 9 |
| = = wet-bulb temperature | 7 | 9 |
| = = dew-point | 8 | 9 |
| = = relative-humidity | 9 | 10 |
| = = pressure at M.S.L. | 10 | 10 |
| = = low-cloud-amount | 11 | 10 |
| = = total-cloud-amount | 12 | 10 |
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Notes on tables and Geographical data see : JANUARY 1964 .

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TABLE 1-a.

ايلول ١٩٦٤
المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 32.1 | 30.7 | 30.4 | 26.4 | 30.9 | 31.6 |
| 2 | 33.8 | 28.4 | 31.9 | 27.3 | 30.9 | 31.8 |
| 3 | 35.4 | 29.5 | 32.2 | 27.8 | 30.3 | 30.8 |
| 4 | 34.6 | 30.4 | 33.0 | 29.0 | 30.5 | 30.8 |
| 5 | 33.6 | 30.5 | 33.3 | 28.8 | 31.4 | 32.8 |
| 6 | 33.4 | 31.1 | 35.0 | 29.8 | 32.8 | 32.7 |
| 7 | 31.6 | 31.2 | 33.2 | 27.8 | 32.3 | 33.3 |
| 8 | 31.5 | 27.3 | 30.4 | 29.3 | 29.5 | 30.2 |
| 9 | 32.5 | 28.5 | 31.1 | 26.3 | 28.4 | 28.8 |
| 10 | 30.3 | 28.7 | 30.8 | 26.1 | 28.2 | 29.2 |
| 11 | 30.7 | 28.5 | 31.1 | 25.3 | 30.0 | 32.1 |
| 12 | 30.9 | 30.4 | 32.2 | 27.3 | 30.7 | 31.7 |
| 13 | 31.0 | 30.9 | 33.8 | 26.9 | 32.1 | 33.6 |
| 14 | 30.5 | 30.5 | 30.7 | 26.3 | 31.0 | 31.8 |
| 15 | 31.0 | 28.9 | 30.8 | 25.5 | 29.2 | 30.4 |
| 16 | 29.7 | 30.5 | 31.5 | 24.5 | 29.8 | 30.6 |
| 17 | 29.5 | 29.1 | 31.2 | 24.1 | 29.1 | 29.1 |
| 18 | 29.8 | 27.1 | 29.5 | 27.0 | 28.1 | 28.4 |
| 19 | 29.6 | 27.0 | 30.1 | 27.5 | 27.7 | 28.9 |
| 20 | 29.9 | 28.1 | 31.1 | 25.6 | 29.8 | 30.4 |
| 21 | 28.0 | 25.9 | 29.1 | 24.5 | 27.8 | 30.1 |
| 22 | 30.6 | 27.3 | 29.3 | 24.9 | 27.7 | 27.7 |
| 23 | 30.5 | 28.7 | 28.6 | 24.2 | 27.3 | 29.3 |
| 24 | 27.6 | 28.4 | 28.3 | 23.1 | 27.5 | 28.5 |
| 25 | 24.9 | 26.5 | 26.3 | 22.3 | 26.7 | 28.5 |
| 26 | 24.3 | 26.3 | 26.1 | 24.0 | 26.3 | 27.5 |
| 27 | 26.1 | 26.0 | 26.9 | 26.2 | 27.4 | 27.5 |
| 28 | 29.5 | 26.5 | 28.5 | 24.5 | 27.5 | 29.2 |
| 29 | 24.7 | 26.1 | 28.9 | 22.7 | 27.3 | 28.4 |
| 30 | 27.9 | 24.4 | 25.3 | 23.0 | 25.9 | 26.9 |
| MEANS | 30.2 | 28.4 | 30.4 | 25.9 | 29.1 | 30.1 |
| DEPARTURE FROM NORMAL | .... | +1.3 | 0.0 | -0.7 | -1.1 | -0.7 |

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

T I M E - G. M. T.

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

SEPTEMPER 1964 . ايلول ١٩٦٤

TABLE 1-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 35.6 | 32.5 | 32.3 | 30.8 | 31.2 | 29.5 |
| 2 | 35.4 | 32.1 | 33.2 | 31.8 | 31.9 | 29.7 |
| 3 | 35.9 | 32.0 | 33.0 | 30.9 | 32.5 | 30.3 |
| 4 | 37.0 | 32.0 | 33.7 | 30.3 | 32.8 | [illegible] |
| 5 | 37.6 | 33.6 | 34.2 | 32.0 | 33.8 | 31.6 |
| 6 | 38.1 | 33.7 | 35.3 | 32.6 | 33.6 | 31.6 |
| 7 | 36.9 | 32.1 | 35.6 | 33.6 | 33.9 | 31.0 |
| 8 | 36.1 | 33.0 | 32.0 | 30.8 | 33.2 | 31.8 |
| 9 | 36.2 | 30.2 | 32.1 | 28.9 | 30.6 | 29.8 |
| 10 | 34.9 | 31.7 | 31.4 | 30.4 | 31.2 | 29.1 |
| 11 | 34.0 | 31.8 | 32.0 | 32.6 | 33.0 | 30.9 |
| 12 | 34.5 | 31.6 | 32.6 | 33.5 | 34.3 | 31.4 |
| 13 | 35.0 | 33.7 | 32.2 | 32.6 | 34.5 | 32.4 |
| 14 | 34.8 | 32.0 | 32.9 | 31.4 | 32.5 | 31.7 |
| 15 | 33.6 | 32.5 | 30.9 | 30.7 | 30.4 | 30.0 |
| 16 | 34.2 | 30.6 | 31.5 | 30.2 | 31.0 | 28.1 |
| 17 | 33.6 | 29.0 | 32.5 | 28.8 | 30.6 | 28.2 |
| 18 | 33.6 | 29.9 | 29.7 | 28.3 | 30.0 | 29.1 |
| 19 | 34.8 | 30.2 | 30.0 | 29.8 | 30.1 | 29.5 |
| 20 | 34.1 | 30.5 | 31.2 | 29.9 | 30.9 | 28.0 |
| 21 | 31.8 | 32.0 | 30.4 | 30.7 | 31.6 | 29.8 |
| 22 | 33.1 | 29.9 | 30.3 | 28.7 | 29.3 | 28.8 |
| 23 | 31.5 | 29.3 | 29.1 | 28.9 | 29.0 | 28.3 |
| 24 | 30.6 | 30.3 | 28.6 | 28.1 | 29.2 | 28.3 |
| 25 | 30.0 | 30.0 | 28.3 | 28.6 | 28.8 | 27.6 |
| 26 | 30.6 | 31.4 | 28.6 | 27.8 | 28.7 | 27.7 |
| 27 | 32.3 | 29.2 | 29.4 | 28.2 | 28.7 | 27.0 |
| 28 | 33.0 | 27.6 | 30.3 | 29.4 | 29.2 | 27.8 |
| 29 | 30.8 | 27.6 | 28.6 | 28.9 | 28.3 | 27.3 |
| 30 | 30.1 | 28.2 | 28.0 | 28.1 | 28.5 | 27.7 |
| MEANS | 34.0 | 31.0 | 31.3 | 30.2 | 31.1 | 29.5 |
| DEPARTURE FROM NORMAL | ..... | -1.0 | ..... | -1.6 | -0.5 | -1.9 |

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

AT HAI, OBSERVATION 2100 IS MISSED.

SEPTEMBER 1964 . — أيلول ١٩٦٤

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1003.6 | 1003.7 | 1003.4 | 1007.9 | 1001.9 | 1003.0 |
| 2 | 00.9 | 01.8 | 01.0 | 05.9 | 01.8 | 02.7 |
| 3 | 00.3 | 01.5 | 00.7 | 04.5 | 01.7 | 01.1 |
| 4 | 01.5 | 02.4 | 01.9 | 04.1 | 02.5 | 02.1 |
| 5 | 02.8 | 03.8 | 03.5 | 04.3 | 03.2 | 02.9 |
| 6 | 03.7 | 04.1 | 03.2 | 03.5 | 02.9 | 02.9 |
| 7 | 02.4 | 02.4 | 01.8 | 04.4 | 01.7 | 01.3 |
| 8 | 02.8 | 03.9 | 03.4 | 06.5 | 04.1 | 03.8 |
| 9 | 02.4 | 03.4 | 02.7 | 05.8 | 03.8 | 03.6 |
| 10 | 03.8 | 04.1 | 04.4 | 05.2 | 04.1 | 04.2 |
| 11 | 05.7 | 06.2 | 05.4 | 06.9 | 04.3 | 04.2 |
| 12 | 06.0 | 06.0 | 04.9 | 06.4 | 04.6 | 04.1 |
| 13 | 06.4 | 06.0 | 04.0 | 06.9 | 03.9 | 03.2 |
| 14 | 07.8 | 07.7 | 07.4 | 10.3 | 07.8 | 06.6 |
| 15 | 10.1 | 10.3 | 08.7 | 12.5 | 08.9 | 07.5 |
| 16 | 09.4 | 08.6 | 06.1 | 10.7 | 06.0 | 04.7 |
| 17 | 07.1 | 07.1 | 05.1 | 09.2 | 05.8 | 05.1 |
| 18 | 07.2 | 07.7 | 07.4 | 07.5 | 07.3 | 07.2 |
| 19 | 07.1 | 08.2 | 07.7 | 06.1 | 07.1 | 07.2 |
| 20 | 05.6 | 06.5 | 06.2 | 07.5 | 05.8 | 05.7 |
| 21 | 07.1 | 07.9 | 07.6 | 09.3 | 07.3 | 06.7 |
| 22 | 05.4 | 06.0 | 05.1 | 08.4 | 05.6 | 05.3 |
| 23 | 06.5 | 07.1 | 06.6 | 08.9 | 07.0 | 06.5 |
| 24 | 10.7 | 10.0 | 09.1 | 12.5 | 09.8 | 06.5 |
| 25 | 13.2 | 12.1 | 11.4 | 14.1 | 12.1 | 11.2 |
| 26 | 12.1 | 11.2 | 10.5 | 12.7 | 11.4 | 10.3 |
| 27 | 11.1 | 09.9 | 09.4 | 09.9 | 09.5 | 09.1 |
| 28 | 10.4 | 12.1 | 11.6 | 09.7 | 11.2 | 11.2 |
| 29 | 15.0 | 14.7 | 13.5 | 15.4 | 13.6 | 13.3 |
| 30 | 14.9 | 14.5 | 14.2 | 15.3 | 14.3 | 14.0 |
| MEANS | 1006.7 | 1007.1 | 1006.3 | 1008.4 | 1006.4 | 1005.9 |
| DEPARTURE FROM NORMAL | .... | -0.6 | +0.4 | -0.5 | -0.3 | -0.7 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1016.5 | 29th | 0900 | 1964 | 998.8 | 3rd | 1500 | 1964 | 1964 |
| MOSUL | 1016.4 | 30th | 0600 | 1964 | 998.8 | 2nd | 1500 | 1964 | |
| KIRKUK | 1016.0 | 30th | 0600 | 1964 | 998.6 | 2nd | 1500 | 1964 | |
| RUTBAH | 1017.3 | 30th | 0600 | 1964 | 1002.0 | 6th | 1200 | 1964 | |
| HABBANIYA | 1015.7 | 30th | 0600 | 1964 | 1000.3 | 2nd | 1500 | 1964 | |
| BAGHDAD | 1015.8 | 30th | 0600 | 1964 | 999.9 | 3rd | 1500 | 1964 | |
| SINJAR | 1016.5 | 29th | 0900 | 1964 | 998.4 | 3rd | 1500 | 1963 | Average |
| MOSUL | 1018.7 | 30th | 0600 | 1938 | 997.8 | 4th | 1500 | 1959 | |
| KIRKUK | 1017.1 | 29th | 0300 | 1962 | 995.5 | 1st | 1500 | 1955 | |
| RUTBAH | 1023.2 | 30th | 0200 | 1938 | 997.9 | 1st | 1200 | 1955 | |
| BAGHDAD | 1017.5 | 30th | 0600 | 1938 | 996.5 | 1st | 1500 | 1955 | |

SEPTEMBER 1964.

TABLE 2-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1000.1 | 1001.3 | 1003.0 | 1003.3 | 1001.7 | 1001.1 |
| 2 | 02.6 | 99.6 | 00.8 | 01.3 | 99.7 | 99.8 |
| 3 | 02.9 | 99.9 | 01.1 | 01.8 | 00.5 | 00.4 |
| 4 | 03.6 | 01.2 | 02.3 | 02.9 | 02.0 | 01.9 |
| 5 | 03.4 | 01.8 | 02.6 | 03.3 | 02.5 | 03.0 |
| 6 | 03.3 | 02.3 | 02.4 | 03.3 | 02.8 | 03.2 |
| 7 | 02.6 | 01.2 | 00.9 | 01.7 | 01.1 | 01.5 |
| 8 | 01.8 | 01.8 | 03.6 | 03.8 | 02.2 | 01.7 |
| 9 | 04.1 | 02.7 | 04.2 | 03.9 | 03.4 | 03.5 |
| 10 | 05.0 | 03.2 | 04.3 | 04.1 | 03.7 | 04.1 |
| 11 | 07.2 | 03.5 | 04.3 | 04.1 | 03.4 | 03.8 |
| 12 | 07.2 | 03.3 | 02.7 | 03.7 | 02.9 | 03.1 |
| 13 | 04.7 | 02.2 | 03.1 | 03.4 | 02.5 | 02.4 |
| 14 | 08.2 | 04.7 | 06.6 | 06.8 | 04.8 | 05.2 |
| 15 | 10.0 | 05.7 | 07.4 | 08.0 | 06.5 | 06.0 |
| 16 | 07.0 | 03.0 | 04.8 | 05.0 | 03.7 | 04.1 |
| 17 | 06.8 | 04.1 | 05.2 | 05.6 | 04.9 | 05.1 |
| 18 | 07.4 | 06.3 | 07.1 | 07.3 | 06.7 | 06.8 |
| 19 | 07.0 | 05.9 | 06.1 | 07.1 | 06.4 | 06.6 |
| 20 | 06.0 | 04.7 | 05.5 | 05.9 | 05.0 | 05.2 |
| 21 | 08.7 | 04.6 | 05.4 | 06.1 | 05.1 | 05.0 |
| 22 | 06.6 | 04.6 | 05.3 | 05.8 | 05.3 | 05.4 |
| 23 | 07.7 | 04.5 | 06.1 | 06.8 | 05.6 | 05.5 |
| 24 | 10.7 | 06.2 | 08.5 | 08.7 | 07.1 | 06.6 |
| 25 | 12.9 | 08.2 | 10.6 | 10.7 | 09.1 | 08.8 |
| 26 | 11.7 | 08.0 | 10.2 | 10.0 | 08.8 | 08.8 |
| 27 | 09.6 | 06.9 | 08.7 | 08.9 | 07.6 | 07.2 |
| 28 | 11.0 | 09.6 | 10.2 | 10.8 | 09.9 | 10.7 |
| 29 | 13.3 | 12.2 | 13.7 | 12.9 | 12.3 | 13.3 |
| 30 | 14.3 | 11.9 | 13.2 | 13.3 | 12.1 | 11.8 |
| MEANS | 1006.6 | 1004.5 | 1005.7 | 1006.0 | 1005.0 | 1005.1 |
| DEPARTURE FROM NORMAL | .... | -0.9 | ..... | +0.4 | -0.3 | +0.1 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR |
|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1015.9 | 30th | 0600 | 1964 | 999.1 | 1st | 1500 | 1964 |
| HAI | 1013.4 | 30th | 0600 | 1964 | 998.5 | 2nd | 1500 | 1964 |
| NAJAF | 1014.2 | 30th | 0600 | 1964 | 999.1 | 7th | 1500 | 1964 |
| DIWANIYA | 1014.7 | 30th | 0600 | 1964 | 999.8 | 7th | 1500 | 1964 |
| NASIRIYA | 1013.1 | 29th | 0900 | 1964 | 998.3 | 2nd | 1500 | 1964 |
| BASRAH | 1014.4 | 29th | 0600 | 1964 | 998.5 | 2nd | 1500 | 1964 |
| NUKHAIB | 1015.9 | 30th | 0600 | 1964 | 999.1 | 1st | 1500 | 1964 |
| HAI | 1016.3 | 29th | 0600 | 1962 | 995.5 | 3rd | 1500 | 1956 |
| NAJAF | 1014.2 | 30th | 0600 | 1964 | 998.0 | 3rd | 1500 | 1963 |
| DIWANIYA | 1015.7 | 29th | 0600 | 1962 | 995.2 | 3rd | 1500 | 1956 |
| NASIRIYA | 1016.1 | 29th | 0600 | 1962 | 995.1 | 8th | 0600 | 1948 |
| BASRAH | 1016.7 | 29th | 0600 | 1962 | 995.7 | 1st | 0300 | 1955 |

SEPTEMBER 1964 .
TABLE - 3 .

المعدل اليومي للرطوبة النسبية ( ٪ ) ١٩٦٤ ايلول

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | SIN-JAR | MO-SUL | KIR-KUK | RUT-BAH | HABB-ANIYA | BAG-HDAD | NUKH-AIB | HAI | NA-JAF | DIWA-NIYA | NASI-RIYA | BAS-RAH |
| 1 | 13 | 22 | 15 | 23 | 31 | 21 | 14 | 23 | 25 | 28 | 22 | 40 |
| 2 | 11 | 28 | 14 | 22 | 28 | 25 | 14 | 27 | 25 | 27 | 23 | 53 |
| 3 | 11 | 31 | 12 | 18 | 28 | 26 | 12 | 29 | 27 | 31 | 21 | 45 |
| 4 | 12 | 27 | 13 | 18 | 38 | 30 | 12 | 28 | 22 | 30 | 21 | 47 |
| 5 | 13 | 31 | 16 | 22 | 44 | 29 | 11 | 26 | 23 | 32 | 19 | 34 |
| 6 | 16 | 33 | 16 | 21 | 33 | 31 | 11 | 28 | 23 | 33 | 22 | 35 |
| 7 | 14 | 25 | 16 | 18 | 28 | 29 | 14 | 35 | 22 | 27 | 23 | 44 |
| 8 | 15 | 30 | 14 | 20 | 28 | 24 | 14 | 26 | 26 | 27 | 21 | 40 |
| 9 | 15 | 29 | 15 | 19 | 38 | 33 | 14 | 28 | 25 | 28 | 21 | 52 |
| 10 | 20 | 33 | 15 | 24 | 42 | 38 | 13 | 29 | 26 | 31 | 22 | 38 |
| 11 | 20 | 36 | 18 | 33 | 35 | 29 | 17 | 32 | 26 | 30 | 22 | 40 |
| 12 | 18 | 29 | 16 | 30 | 35 | 22 | 16 | 35 | 29 | 26 | 30 | 44 |
| 13 | 18 | 31 | 15 | 26 | 32 | 19 | 13 | 29 | 25 | 27 | 24 | 37 |
| 14 | 16 | 33 | 18 | 25 | 35 | 20 | 18 | 28 | 25 | 25 | 24 | 40 |
| 15 | 14 | 32 | 20 | 25 | 45 | 27 | 15 | 24 | 32 | 26 | 28 | 37 |
| 16 | 17 | 32 | 20 | 20 | 44 | 32 | 14 | 31 | 28 | 30 | 29 | 40 |
| 17 | 17 | 31 | 21 | 18 | 54 | 32 | 13 | 36 | 26 | 32 | 27 | 53 |
| 18 | 15 | 29 | 21 | 9 | 48 | 30 | 14 | 32 | 30 | 33 | 22 | 47 |
| 19 | 13 | 30 | 15 | 13 | 45 | 30 | 13 | 26 | 34 | 28 | 21 | 42 |
| 20 | 12 | 27 | 13 | 27 | 41 | 30 | 16 | 26 | 29 | 27 | 19 | 50 |
| 21 | 20 | 35 | 20 | 30 | 54 | 30 | 24 | 25 | 31 | 27 | 21 | 42 |
| 22 | 13 | 32 | 18 | 20 | 44 | 35 | 18 | 30 | 28 | 32 | 23 | 43 |
| 23 | 17 | 30 | 19 | 24 | 38 | 23 | 17 | 29 | 29 | 31 | 22 | 37 |
| 24 | 14 | 34 | 22 | 43 | 38 | 32 | 27 | 30 | 29 | 32 | 24 | 43 |
| 25 | 25 | 37 | 26 | 45 | 40 | 31 | 24 | 28 | 32 | 34 | 28 | 39 |
| 26 | 25 | 33 | 23 | 36 | 40 | 34 | 25 | 32 | 29 | 39 | 29 | 39 |
| 27 | 21 | 33 | 18 | 29 | 38 | 35 | 20 | 28 | 30 | 36 | 24 | 44 |
| 28 | 20 | 39 | 22 | 39 | 40 | 31 | 18 | 33 | 29 | 32 | 28 | 47 |
| 29 | 26 | 42 | 24 | 40 | 46 | 35 | 24 | 39 | 27 | 36 | 37 | 57 |
| 30 | 22 | 38 | 29 | 38 | 43 | 31 | 30 | 29 | 34 | 32 | 29 | 42 |
| MEANS | 17 | 32 | 18 | 26 | 39 | 29 | 17 | 29 | 28 | 30 | 24 | 43 |
| NORMAL | .. | 34 | 21 | 27 | 29 | 26 | .. | 24 | .. | 32 | 25 | 46 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 39 | 0300 | 25th | 8 | 1500 | 2nd |
| MOSUL | 65 | 0300 | 29th | 12 | 1200 | 20th |
| KIRKUK | 49 | 0300 | 30th | 4 | 0900 | 20th |
| RUTBAH | 69 | 0300 | 21st | 3 | 0900 | 18th |
| HABBANIYA | 75 | 0300 | 21st | 13 | 1200 | 6th |
| BAGHDAD | 59 | 0300 | 29th | 11 | 1200 | 12th |
| NUKHAIB | 42 | 0600 | 21st | 7 | 1200 | 8,9th |
| HAI | 54 | 0300 | 29th | 11 | 1200 | 27th |
| NAJAF | 55 | 0300 | 23rd | 10 | 1200 | 17th |
| DIWANIYA | 58 | 0300 | 26th | 12 | 1200 | 7,20th |
| NASIRIYA | 63 | 0300 | 29th | 7 | 1200 | 27th |
| BASRAH | 89 | 0300 | 29th | 18 | 1200 | 18th |

SEPTEMBER 1964.
TABLE 4-a.

ايلول ١٩٦٤
درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | رطبة | | حبانية | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | RUTBAH | | HABBANIYA | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 36.2 | 24.8 | 40.2 | 19.4 | 40.4 | 19.6 | 35.5 | 17.0 | 40.0 | 21.2 |
| 2 | 38.0 | 25.8 | 41.2 | 15.1 | 42.5 | 21.3 | 36.5 | 17.3 | 40.3 | 22.2 |
| 3 | 38.5 | 27.8 | 42.0 | 17.2 | 41.4 | 21.6 | 37.4 | 17.0 | 41.1 | 21.6 |
| 4 | 38.0 | 30.0 | 42.2 | 16.8 | 41.9 | 23.9 | 38.8 | 18.2 | 42.3 | 21.1 |
| 5 | 37.6 | 27.8 | 40.9 | 18.0 | 40.9 | 23.8 | 38.6 | 18.4 | 43.4 | 22.7 |
| 6 | 37.5 | 28.0 | 43.0 | 19.4 | 42.5 | 25.5 | 40.5 | 19.1 | 43.4 | 21.8 |
| 7 | 35.0 | 27.5 | 40.0 | 21.4 | 41.0 | 25.6 | 35.2 | 21.0 | 42.2 | 22.2 |
| 8 | 34.8 | 26.1 | 39.6 | 16.0 | 37.9 | 22.6 | 35.0 | 17.6 | 38.6 | 21.1 |
| 9 | 36.0 | 25.4 | 39.6 | 15.0 | 39.4 | 21.9 | 35.5 | 15.5 | 38.6 | 18.9 |
| 10 | 33.5 | 25.4 | 38.5 | 18.4 | 37.6 | 22.7 | 35.1 | 16.5 | 39.4 | 18.4 |
| 11 | 34.2 | 25.0 | 38.3 | 18.0 | 38.9 | 20.8 | 33.2 | 18.0 | 42.2 | 18.5 |
| 12 | 34.4 | 24.8 | 38.7 | 20.2 | 40.0 | 25.0 | 35.9 | 16.6 | 40.1 | 21.1 |
| 13 | 34.3 | 26.0 | 39.0 | 22.0 | 42.0 | 25.5 | 34.4 | 18.6 | 42.2 | 22.8 |
| 14 | 33.8 | 25.6 | 37.3 | 23.4 | 37.4 | 23.4 | 34.5 | 18.7 | 38.6 | 22.8 |
| 15 | 33.4 | 24.8 | 37.0 | 18.2 | 38.5 | 22.3 | 33.3 | 17.5 | 37.4 | 21.4 |
| 16 | 32.8 | 23.8 | 36.0 | 26.7 | 37.6 | 26.8 | 33.5 | 17.4 | 38.2 | 21.6 |
| 17 | 33.5 | 23.6 | 37.2 | 22.8 | 37.5 | 25.5 | 34.2 | 13.8 | 38.9 | 20.7 |
| 18 | 34.0 | 22.9 | 37.4 | 17.2 | 37.0 | 21.0 | 36.7 | 15.4 | 38.6 | 18.9 |
| 19 | 24.8 | 21.7 | 38.6 | 15.3 | 38.1 | 21.0 | 37.6 | 16.5 | 39.5 | 17.8 |
| 20 | 34.5 | 22.8 | 39.3 | 14.8 | 39.5 | 22.9 | 34.3 | 16.9 | 41.1 | 18.4 |
| 21 | 33.0 | 20.3 | 37.6 | 15.8 | 36.0 | 22.3 | 32.3 | 16.7 | 36.1 | 19.6 |
| 22 | 33.9 | 25.0 | 38.2 | 13.4 | 38.1 | 21.0 | 33.4 | 15.5 | 37.2 | 19.2 |
| 23 | 35.4 | 25.1 | 36.8 | 18.3 | 36.5 | 19.7 | 32.6 | 17.1 | 37.4 | 18.9 |
| 24 | 33.4 | 18.7 | 35.7 | 19.6 | 36.5 | 19.8 | 29.8 | 16.1 | 36.2 | 19.2 |
| 25 | 31.5 | 14.2 | 35.7 | 19.2 | 34.8 | 18.5 | 29.4 | 16.0 | 34.0 | 18.9 |
| 26 | 30.4 | 14.6 | 34.1 | 18.4 | 34.5 | 17.5 | 32.7 | 15.1 | 34.8 | 18.6 |
| 27 | 31.4 | 15.1 | 36.2 | 15.4 | 35.1 | 18.1 | 34.4 | 16.6 | 36.4 | 19.1 |
| 28 | 36.0 | 20.1 | 37.6 | 16.2 | 36.9 | 18.5 | 33.0 | 16.5 | 37.9 | 18.9 |
| 29 | 35.2 | 20.4 | 35.5 | 16.4 | 36.4 | 22.2 | 30.0 | 15.7 | 38.4 | 18.1 |
| 30 | 35.2 | 18.3 | 32.2 | 18.3 | 32.4 | 18.1 | 30.2 | 15.1 | 32.9 | 21.2 |
| MEANS | 34.3 | 23.4 | 38.2 | 18.2 | 38.3 | 21.9 | 34.4 | 16.9 | 38.9 | 20.2 |
| DEPARTURE FROM NORMAL | **** | **** | -0.7 | +2.4 | +0.1 | -0.2 | -1.2 | -0.4 | -1.1 | -1.2 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 39.1 | 6th | 1962 | 14.2 | 25th | 1964 |
| MOSUL | 47.2 | ? | 1935 | 6.9 | 26th | 1956 |
| KIRKUK | 46.1 | 2nd | 1945 | 9.5 | 30th | 1938 |
| RUTBAH | 45.0 | 3rd | 1925 | 8.9 | 21st | 1936 |
| HABBANIYA | 48.4 | 2nd | 1945 | 11.1 | 30th | 1938 |

SEPTEMBER 1964.
TABLE 4-b.

ايلول ١٩٦٤

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | خانقين | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | KHANAQIN | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 41.1 | 17.2 | 40.1 | 22.9 | 40.2 | 21.8 | 40.6 | 25.0 |
| 2 | 42.2 | 20.0 | 41.0 | 22.6 | 41.3 | 21.7 | 41.8 | 22.6 |
| 3 | 42.2 | 21.1 | 39.6 | 22.3 | 40.4 | 20.8 | 42.3 | 21.6 |
| 4 | 41.7 | 19.4 | 41.1 | 18.6 | 41.0 | 20.6 | 42.0 | 21.2 |
| 5 | 42.2 | 20.0 | 42.3 | 20.4 | 42.2 | 21.4 | 43.2 | 24.0 |
| 6 | 42.2 | 20.0 | 43.4 | 20.9 | 42.8 | 21.7 | 43.2 | 23.2 |
| 7 | 42.8 | 22.2 | 42.4 | 22.4 | 42.2 | 23.0 | 43.0 | 22.8 |
| 8 | 38.3 | 21.1 | 38.4 | 22.8 | 40.8 | 21.3 | 42.0 | 25.6 |
| 9 | 38.3 | 17.8 | 38.4 | 20.6 | 41.7 | 21.6 | 40.0 | 18.8 |
| 10 | 38.9 | 17.2 | 39.6 | 17.6 | 39.0 | 20.6 | 40.6 | 20.0 |
| 11 | 39.4 | 18.9 | 41.0 | 19.2 | 39.0 | 20.8 | 43.0 | 21.6 |
| 12 | 41.1 | 22.2 | 40.5 | 20.7 | 38.8 | 20.6 | 42.8 | 23.6 |
| 13 | 42.8 | 20.0 | 42.9 | 26.5 | 39.0 | 20.9 | 45.1 | 23.8 |
| 14 | 38.9 | 20.0 | 39.6 | 24.4 | 38.3 | 21.4 | 41.6 | 22.0 |
| 15 | 37.8 | 18.9 | 37.3 | 23.1 | 36.8 | 20.8 | 39.0 | 26.6 |
| 16 | 41.1 | 17.8 | 39.0 | 22.3 | 38.0 | 20.6 | 40.8 | 20.2 |
| 17 | 39.4 | 18.3 | 38.2 | 21.0 | 37.2 | 18.4 | 39.2 | 20.0 |
| 18 | 37.2 | 18.3 | 37.8 | 18.9 | 37.6 | 17.5 | 39.2 | 20.2 |
| 19 | 38.3 | 17.8 | 38.6 | 17.1 | 39.2 | 15.4 | 40.0 | 20.5 |
| 20 | 40.6 | 19.4 | 40.1 | 18.5 | 38.6 | 19.3 | 41.2 | 18.4 |
| 21 | 37.8 | 17.8 | 37.7 | 24.0 | 36.0 | 19.5 | 41.2 | 21.6 |
| 22 | 36.7 | 15.6 | 36.9 | 18.0 | 36.4 | 18.4 | 38.2 | 21.8 |
| 23 | 37.2 | 17.2 | 37.4 | 22.0 | 35.5 | 26.5 | 38.5 | 18.2 |
| 24 | 37.8 | 16.1 | 36.6 | 17.6 | 35.1 | 18.0 | 38.0 | 23.4 |
| 25 | 36.7 | 13.9 | 35.4 | 22.0 | 33.6 | 18.4 | 38.2 | 21.6 |
| 26 | 36.1 | 14.4 | 35.5 | 18.7 | 33.8 | 17.4 | 35.0 | 20.0 |
| 27 | 36.7 | 13.9 | 36.8 | 17.8 | 36.4 | 17.6 | 38.4 | 20.3 |
| 28 | 37.2 | 16.1 | 37.7 | 17.5 | 36.4 | 18.0 | 39.0 | 19.0 |
| 29 | 37.8 | 18.9 | 37.8 | 17.2 | 35.4 | 18.0 | 39.0 | 15.8 |
| 30 | 33.9 | 17.2 | 33.3 | 21.7 | 34.4 | 17.6 | 36.0 | 20.6 |
| MEANS | 39.1 | 18.3 | 38.6 | 20.7 | 38.2 | 19.7 | 40.4 | 21.5 |
| DEPARTURE FROM NORMAL | -0.2 | -2.8 | -1.3 | -0.3 | .... | ..... | 0.5 | -1.1 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| KHANAQIN | 48.4 | 5&6th | 1938 | 10.6 | 30th | 1938 |
| BAGHDAD | 46.6 | 2&6th | 1945 | 10.5 | 30th | 1938 |
| NUKHAIB | 42.8 | 6th | 1964 | 15.4 | 19th | 1964 |
| HAI | 48.4 | 16th | 1945 | 15.0 | 28th | 1961 |

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TABLE 4-a.

ايلول ١٩٦٤

درجات الحرارة العظمى و الصغرى اليومية ( منفرد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 40.2 | 22.4 | 39.0 | 21.7 | 38.8 | 23.9 | 35.6 | 24.6 |
| 2 | 41.5 | 22.8 | 41.8 | 23.2 | 43.1 | 22.2 | 39.0 | 21.8 |
| 3 | 41.8 | 23.5 | 41.0 | 22.0 | 43.0 | 23.0 | 38.4 | 22.6 |
| 4 | 42.5 | 23.5 | 41.2 | 18.1 | 42.6 | 23.0 | 38.8 | 21.8 |
| 5 | 44.2 | 23.2 | 42.5 | 21.6 | 43.8 | 21.3 | 40.5 | 21.7 |
| 6 | 45.2 | 23.5 | 44.7 | 22.1 | 44.6 | 22.8 | 39.4 | 22.5 |
| 7 | 45.1 | 24.7 | 45.2 | 21.5 | 44.5 | 23.0 | 41.0 | 24.0 |
| 8 | 39.4 | 24.0 | 40.7 | 23.5 | 43.6 | 23.4 | 42.2 | 23.4 |
| 9 | 39.6 | 21.0 | 38.5 | 18.9 | 40.1 | 21.6 | 37.5 | 22.2 |
| 10 | 40.6 | 21.4 | 41.9 | 18.0 | 41.5 | 20.3 | 38.0 | 20.7 |
| 11 | 41.4 | 21.2 | 42.6 | 20.5 | 43.1 | 20.9 | 41.1 | 21.6 |
| 12 | 42.5 | 22.2 | 43.5 | 22.2 | 44.7 | 23.2 | 40.7 | 23.1 |
| 13 | 43.2 | 20.5 | 42.8 | 22.9 | 45.9 | 23.7 | 41.7 | 22.8 |
| 14 | 41.4 | 23.2 | 41.2 | 22.2 | 42.2 | 23.9 | 39.0 | 24.5 |
| 15 | 39.1 | 24.2 | 38.1 | 21.5 | 38.8 | 22.6 | 35.8 | 25.8 |
| 16 | 39.2 | 24.5 | 39.7 | 21.7 | 40.3 | 22.1 | 35.9 | 20.8 |
| 17 | 38.5 | 21.6 | 39.2 | 20.2 | 40.0 | 21.6 | 36.5 | 20.6 |
| 18 | 39.0 | 20.8 | 39.4 | 16.3 | 39.7 | 20.6 | 39.2 | 20.4 |
| 19 | 40.2 | 21.1 | 39.6 | 16.5 | 39.8 | 18.0 | 37.4 | 22.1 |
| 20 | 42.2 | 22.4 | 40.6 | 18.6 | 42.2 | 19.1 | 38.9 | 18.3 |
| 21 | 38.8 | 20.5 | 40.8 | 20.5 | 42.9 | 21.8 | 39.9 | 20.2 |
| 22 | 37.6 | 21.2 | 38.0 | 18.9 | 38.4 | 21.2 | 36.9 | 22.1 |
| 23 | 37.6 | 18.3 | 38.0 | 19.5 | 38.8 | 17.7 | 37.6 | 19.8 |
| 24 | 35.4 | 21.5 | 36.5 | 18.7 | 38.5 | 20.3 | 37.9 | 20.7 |
| 25 | 35.4 | 20.5 | 36.2 | 20.7 | 37.7 | 29.9 | 35.6 | 29.3 |
| 26 | 35.6 | 20.2 | 35.4 | 20.0 | 38.0 | 19.7 | 34.2 | 22.2 |
| 27 | 37.4 | 21.5 | 37.8 | 18.7 | 38.3 | 19.9 | 36.1 | 20.2 |
| 28 | 39.2 | 22.2 | 39.7 | 18.6 | 39.9 | 21.2 | 39.0 | 16.6 |
| 29 | 38.4 | 20.2 | 39.3 | 18.5 | 37.9 | 18.8 | 36.6 | 20.1 |
| 30 | 34.6 | 21.2 | 35.8 | 23.0 | 37.5 | 18.9 | 36.5 | 20.3 |
| MEANS | 39.9 | 21.3 | 40.4 | 20.4 | 40.9 | 21.3 | 38.2 | 21.6 |
| DEPARTURE FROM NORMAL | .... | .... | +0.3 | +0.7 | -0.6 | -0.2 | -1.1 | -0.8 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 45.6 | 17th | 1963 | 18.3 | 23rd | 1964 |
| DIWANIYA | 46.6 | 1st | 1945 | 11.6 | 25&28th | 1943 |
| NASIRIYA | 48.9 | 6th | 1940 | 13.9 | 23rd | 1940 |
| BASRAH | 46.6 | 9th | 1951 | 13.1 | 16th | 1958 |

SEPTEMBER 1964. ( سبتمبر ) المعدل الشهري لدرجات الحرارة للبصلة الجافة ( سنتغراد ) ايلول ١٩٦٤

TABLE 5.

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | | | T I M E - G . M . T . | | | | | | |
| SINJAR | .... | 24.9 | 29.0 | 32.5 | 34.5 | 32.6 | 28.7 | .... | 30.3 |
| MOSUL | 21.3 | 19.2 | 26.3 | 35.5 | 37.4 | 35.0 | 28.5 | 24.0 | 28.4 |
| KIRKUK | 24.7 | 22.8 | 30.5 | 36.6 | 37.5 | 35.1 | 29.1 | 26.4 | 30.4 |
| KHANAQIN | .... | 19.6 | 30.7 | 37.0 | 38.9 | 35.9 | 28.9 | .... | 31.8 |
| RUTBAH | 19.4 | 17.4 | 24.5 | 31.1 | 34.1 | 32.2 | 25.9 | 22.1 | 27.8 |
| HABBANIYA | 22.5 | 20.0 | 28.0 | 36.4 | 38.4 | 34.4 | 27.4 | 25.2 | 29.0 |
| BAGHDAD | 24.7 | 21.6 | 28.5 | 36.3 | 38.9 | 35.7 | 28.9 | 26.5 | 30.1 |
| NUKHAIB | .... | .... | 27.4 | 34.7 | 37.5 | 36.3 | .... | .... | 34.0 |
| HAI | 23.9 | 22.2 | 29.5 | 38.4 | 39.8 | 34.9 | 28.6 | .... | 30.9 |
| NAJAF | 24.8 | 22.7 | 30.0 | 36.5 | 39.0 | 37.3 | 31.3 | 31.9 | 31.7 |
| DIWANIYA | 23.1 | 20.6 | 31.9 | 38.2 | 39.8 | 34.1 | 28.4 | 25.7 | 30.2 |
| NASIRIYA | 24.2 | 21.9 | 30.0 | 38.7 | 40.4 | 35.5 | 30.2 | 26.[illegible] | 31.1 |
| BASRAH | 24.0 | 22.0 | 29.5 | 35.7 | 37.4 | 32.4 | 28.1 | 26.1 | 29.4 |

TABLE 6.

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS) المعدل الشهري لضغط البخار ( ملي بار )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 7.0 | 7.4 | 7.1 | 6.7 | 6.6 | 6.8 | .... | 6.9 |
| MOSUL | 10.2 | 10.4 | 11.6 | 13.7 | 12.4 | 12.8 | 11.2 | 10.8 | 11.5 |
| KIRKUK | 7.1 | 7.2 | 7.7 | 6.8 | 6.3 | 6.7 | 7.9 | 7.2 | 7.1 |
| KHANAQIN | .... | 7.1 | 9.6 | 9.5 | 9.5 | 9.7 | 10.3 | .... | 9.3 |
| RUTBAH | 7.4 | 8.3 | 9.5 | 8.7 | 7.3 | 7.5 | 7.5 | 7.7 | 8.0 |
| HABBANIYA | 13.5 | 13.1 | 15.6 | 15.8 | 14.8 | 17.6 | 14.8 | 13.8 | 14.9 |
| BAGHDAD | 10.5 | 10.3 | 12.8 | 13.0 | 12.2 | 12.4 | 11.9 | 11.4 | 11.8 |
| NUKHAIB | .... | .... | 9.4 | 8.0 | 7.7 | 7.7 | .... | .... | 8.2 |
| HAI | 10.7 | 10.3 | 13.4 | 14.7 | 13.2 | 14.5 | 12.0 | .... | 12.7 |
| NAJAF | 11.3 | 10.7 | 12.6 | 12.3 | 12.9 | 12.6 | 12.7 | 11.5 | 12.1 |
| DIWANIYA | 11.2 | 10.8 | 13.4 | 12.8 | 11.8 | 13.8 | 12.5 | 11.6 | 12.2 |
| NASIRIYA | 9.9 | 9.0 | 10.6 | 9.9 | 8.9 | 11.3 | 11.0 | 10.7 | 10.2 |
| BASRAH | 14.9 | 13.9 | 16.5 | 18.6 | 17.0 | 20.9 | 19.6 | 16.7 | 17.3 |

TABLE 7.

MONTHLY MEAN WET-BULB TEMPERATURES (C°) المعدل الشهري لدرجات الحرارة للبصلة الرطبة ( سنتغراد )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 13.7 | 15.8 | 17.3 | 17.4 | 16.8 | 15.2 | .... | 16.0 |
| MOSUL | 14.0 | 13.2 | 16.8 | 21.1 | 21.2 | 20.6 | 17.3 | 15.4 | 17.5 |
| KIRKUK | 13.8 | 12.9 | 16.5 | 18.4 | 18.6 | 17.9 | 16.1 | 14.6 | 16.1 |
| KHANAQIN | .... | 11.5 | 17.5 | 19.8 | 20.5 | 19.4 | 17.2 | .... | 17.7 |
| RUTBAH | 11.6 | 11.2 | 15.1 | 17.3 | 17.9 | 13.7 | 14.5 | 12.9 | 14.3 |
| HABBANIYA | 16.1 | 15.2 | 19.3 | 22.3 | 22.6 | 22.3 | 19.1 | 17.4 | 19.3 |
| BAGHDAD | 15.7 | 14.6 | 18.2 | 21.1 | 21.5 | 20.7 | 18.0 | 16.8 | 18.6 |
| NUKHAIB | .... | .... | 16.2 | 18.4 | 19.2 | 18.7 | .... | .... | 18.1 |
| HAI | 15.1 | 14.4 | 18.9 | 22.4 | 22.4 | 21.0 | 17.9 | .... | 18.9 |
| NAJAF | 15.9 | 14.9 | 18.9 | 20.9 | 22.0 | 21.2 | 18.3 | 17.0 | 18.6 |
| DIWANIYA | 15.3 | 14.1 | 19.3 | 22.1 | 21.9 | 20.6 | 18.0 | 16.5 | 18.5 |
| NASIRIYA | 15.1 | 13.7 | 17.8 | 20.7 | 20.8 | 20.5 | 18.0 | 16.6 | 17.9 |
| BASRAH | 17.5 | 16.2 | 20.3 | 23.2 | 23.1 | 23.1 | 21.2 | 19.1 | 20.5 |

TABLE 8.

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 1.6 | 2.4 | 1.9 | 0.8 | 0.9 | 1.4 | .... | 1.5 |
| MOSUL | 7.0 | 7.3 | 9.0 | 11.5 | 9.8 | 10.4 | 8.3 | 7.8 | 8.9 |
| KIRKUK | 1.9 | 1.9 | 3.0 | 1.1 | 0.1 | 0.8 | 3.2 | 2.0 | 1.8 |
| KHANAQIN | .... | 2.1 | 6.2 | 6.1 | 6.1 | 6.3 | 6.8 | .... | 5.6 |
| RUTBAH | 1.9 | 3.4 | 5.6 | 4.2 | 2.5 | 2.3 | 2.3 | 2.9 | 3.1 |
| HABBANIYA | 11.2 | 10.8 | 13.2 | 13.4 | 12.5 | 14.8 | 12.5 | 11.4 | 12.5 |
| BAGHDAD | 7.6 | 7.3 | 10.3 | 10.7 | 9.5 | 10.0 | 9.3 | 8.7 | 9.2 |
| NUKHAIB | .... | .... | 5.9 | 3.4 | 3.0 | 3.0 | .... | .... | 3.8 |
| HAI | 7.3 | 7.4 | 11.3 | 12.5 | 10.8 | 12.3 | 9.6 | .... | 10.2 |
| NAJAF | 8.6 | 7.9 | 10.2 | 9.8 | 10.4 | 10.0 | 10.3 | 8.9 | 9.5 |
| DIWANIYA | 8.5 | 7.9 | 11.2 | 10.5 | 9.6 | 11.2 | 9.9 | 8.9 | 9.7 |
| NASIRIYA | 6.6 | 5.2 | 7.7 | 6.5 | 4.9 | 8.6 | 8.1 | 7.7 | 6.9 |
| BASRAH | 12.5 | 11.6 | 14.2 | 16.2 | 14.7 | 17.9 | 16.9 | 14.3 | 14.8 |

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TABLE - 9. — المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

T I M E - G . M . T .

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 22 | 19 | 15 | 12 | 14 | 18 | ... | 17 |
| MOSUL | 41 | 47 | 34 | 24 | 19 | 23 | 29 | 37 | 32 |
| KIRKUK | 24 | 27 | 18 | 12 | 10 | 12 | 22 | 21 | 18 |
| KHANAQIN | ... | 31 | 22 | 15 | 14 | 17 | 26 | | 21 |
| RUTBAH | 33 | 42 | 31 | 20 | 15 | 16 | [illegible] | 29 | 26 |
| HABBANIYA | 50 | 55 | 41 | 26 | 22 | 22 | [illegible] | 44 | 39 |
| BAGHDAD | 34 | 41 | 33 | 22 | 18 | 21 | 30 | 33 | 29 |
| NUKHAIB | ... | ... | 26 | 15 | 12 | 15 | ... | ... | 17 |
| HAI | 35 | 39 | 33 | 22 | 18 | 28 | 34 | ... | 29 |
| NAJAF | 36 | 39 | 29 | 20 | 18 | 20 | 28 | 33 | 28 |
| DIWANIYA | 40 | 42 | 31 | 19 | 17 | 24 | 37 | 36 | 30 |
| NASIRIYA | 33 | 35 | 25 | 14 | 12 | 19 | 26 | 31 | 24 |
| BASRAH | 51 | 53 | 40 | 32 | 27 | 42 | 51 | 50 | 43 |

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

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 07.4 | 07.5 | 07.0 | 05.8 | 05.7 | 07.1 | .... | 1006.8 |
| MOSUL | 07.5 | 08.3 | 08.5 | 06.7 | 05.3 | 05.2 | 06.8 | 07.6 | 1007.0 |
| KIRKUK | 06.6 | 07.2 | 07.2 | 05.9 | 04.5 | 04.7 | 06.7 | 07.1 | 1006.3 |
| KHANAQIN | .... | 07.1 | 05.4 | 04.1 | 03.1 | 03.5 | 05.8 | .... | 1004.8 |
| RUTBAH | 08.1 | 09.0 | 09.6 | 08.9 | 07.9 | 07.9 | 08.2 | 08.2 | 1008.5 |
| HABBANIYA | 06.0 | 06.8 | 07.6 | 06.8 | 05.7 | 05.5 | 06.5 | 06.4 | 1006.4 |
| BAGHDAD | 05.4 | 05.7 | 07.1 | 06.7 | 05.2 | 05.1 | 05.7 | 06.0 | 1005.9 |
| NUKHAIB | .... | .... | 08.7 | 07.0 | 06.0 | 05.7 | .... | .... | 1006.8 |
| HAI | 03.6 | 04.5 | 05.5 | 05.2 | 04.0 | 03.9 | 04.8 | .... | 1004.5 |
| NAJAF | 05.2 | 05.9 | 06.9 | 06.2 | 04.8 | 04.6 | 05.6 | 07.2 | 1005.8 |
| DIWANIYA | 03.1 | 06.3 | 07.0 | 08.7 | 05.6 | 05.1 | 06.1 | 06.0 | 1006.0 |
| NASIRIYA | 04.5 | 05.1 | 06.2 | 05.3 | 04.1 | 04.1 | 05.1 | 05.1 | 1004.9 |
| BASRAH | 04.3 | 05.0 | 06.2 | 05.8 | 04.5 | 04.4 | 05.2 | 05.1 | 1005.1 |

TABLE -11. — معدل كمية الغيوم الواطئة

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | ... | 0.0 |
| MOSUL | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.1 |
| KIRKUK | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KHANAQIN | ... | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | ... | 0.1 |
| RUTBAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.0 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUKHAIB | ... | ... | 0.0 | 0.0 | 0.0 | 0.0 | ... | ... | 0.0 |
| HAI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ... | 0.0 |
| NAJAF | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| DIWANIYA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NASIRIYA | 0.0 | 0.0 | 0.3 | 0.8 | 1.1 | 0.3 | 0.0 | 0.0 | 0.3 |
| BASRAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.1 |

TABLE -12. — معدل مجموع كمية الغيوم

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

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

SEPTEMBER 1964.
TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت جرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | CALM سكون | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 18 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 0 | 25 | 5 | 0 | 0 | 5 |
| | 0600 | 8 | 0 | 7 | 0 | 0 | 0 | 9 | 3 | 3 | 21 | 5 | 1 | 0 | 8 |
| | 0900 | 3 | 0 | 2 | 0 | 1 | 0 | 13 | 6 | 5 | 16 | 8 | 1 | 0 | 8 |
| | 1200 | 4 | 0 | 2 | 0 | 3 | 2 | 12 | 5 | 2 | 17 | 11 | 0 | 0 | 8 |
| | 1500 | 5 | 0 | 0 | 0 | 1 | 0 | 17 | 4 | 3 | 24 | 6 | 0 | 0 | 7 |
| | 1800 | 9 | 0 | 0 | 0 | 0 | 0 | 13 | 4 | 4 | 16 | 10 | 0 | 0 | 7 |
| | TOTAL | 47 | 0 | 11 | 0 | 5 | 2 | 66 | 32 | 17 | 116 | 45 | 2 | 0 | 8 |
| موصل MOSUL | 0000 | 1 | 0 | 2 | 0 | 2 | 0 | 14 | 6 | 5 | 20 | 5 | 0 | 0 | 5 |
| | 0300 | 2 | 1 | 1 | 0 | 3 | 0 | 9 | 7 | 7 | 21 | 2 | 0 | 0 | 7 |
| | 0600 | 8 | 0 | 3 | 0 | 3 | 0 | 4 | 12 | 0 | 27 | 3 | 0 | 0 | 8 |
| | 0900 | 8 | 2 | 3 | 1 | 3 | 0 | 9 | 3 | 1 | 23 | 6 | 0 | 0 | 8 |
| | 1200 | 5 | 1 | 2 | 1 | 2 | 0 | 6 | 12 | 1 | 20 | 8 | 1 | 0 | 8 |
| | 1500 | 2 | 1 | 1 | 0 | 0 | 2 | 14 | 5 | 5 | 23 | 2 | 0 | 0 | 8 |
| | 1800 | 0 | 0 | 1 | 1 | 1 | 1 | 13 | 9 | 4 | 15 | 11 | 0 | 0 | 8 |
| | 2100 | 1 | 0 | 2 | 2 | 4 | 0 | 9 | 5 | 7 | 19 | 4 | 0 | 0 | 5 |
| | TOTAL | 27 | 5 | 15 | 5 | 18 | 3 | 78 | 59 | 30 | 168 | 41 | 1 | 0 | 6 |
| كركوك KIRKUK | 0000 | 7 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 10 | 19 | 1 | 0 | 0 | 4 |
| | 0300 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 14 | 1 | 0 | 0 | 2 |
| | 0600 | 6 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 19 | 10 | 1 | 0 | 0 | 2 |
| | 0900 | 2 | 1 | 0 | 2 | 0 | 3 | 17 | 0 | 5 | 24 | 1 | 0 | 0 | 5 |
| | 1200 | 1 | 1 | 0 | 0 | 0 | 3 | 20 | 1 | 4 | 22 | 4 | 0 | 0 | 6 |
| | 1500 | 2 | 0 | 0 | 0 | 1 | 4 | 19 | 0 | 4 | 25 | 1 | 0 | 0 | 5 |
| | 1800 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 20 | 10 | 0 | 0 | 0 | 2 |
| | 2100 | 4 | 12 | 0 | 0 | 0 | 0 | 4 | 2 | 8 | 22 | 0 | 0 | 0 | 3 |
| | TOTAL | 27 | 38 | 0 | 2 | 1 | 10 | 74 | 3 | 85 | 146 | 9 | 0 | 0 | 4 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 19 | 4 | 2 | 1 | 0 | 0 | 4 | 26 | 0 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 8 | 0 | 2 | 0 | 2 | 0 | 18 | 11 | 1 | 0 | 0 | 2 |
| | 0900 | 4 | 0 | 0 | 0 | 3 | 0 | 13 | 10 | 0 | 30 | 0 | 0 | 0 | 7 |
| | 1200 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 13 | 1 | 26 | 3 | 0 | 0 | 7 |
| | 1500 | 1 | 0 | 0 | 0 | 1 | 1 | 15 | 10 | 2 | 28 | 0 | 0 | 0 | 5 |
| | 1800 | 4 | 0 | 1 | 0 | 3 | 1 | 7 | 1 | 13 | 17 | 0 | 0 | 0 | 2 |
| | TOTAL | 11 | 0 | 28 | 4 | 11 | 3 | 51 | 34 | 38 | 138 | 4 | 0 | 0 | 5 |
| رطبة RUTBAH | 0000 | 3 | 0 | 0 | 0 | 1 | 2 | 6 | 3 | 15 | 12 | 3 | 0 | 0 | 4 |
| | 0300 | 0 | 0 | 0 | 0 | 3 | 2 | 8 | 4 | 13 | 15 | 1 | 0 | 0 | 5 |
| | 0600 | 10 | 2 | 1 | 0 | 1 | 1 | 3 | 7 | 5 | 24 | 1 | 0 | 0 | 5 |
| | 0900 | 10 | 3 | 1 | 2 | 1 | 1 | 2 | 3 | 7 | 22 | 1 | 0 | 0 | 5 |
| | 1200 | 8 | 0 | 0 | 2 | 1 | 3 | 6 | 6 | 4 | 24 | 2 | 0 | 0 | 5 |
| | 1500 | 5 | 1 | 0 | 1 | 0 | 1 | 7 | 8 | 7 | 20 | 3 | 0 | 0 | 4 |
| | 1800 | 10 | 1 | 3 | 0 | 1 | 2 | 2 | 4 | 7 | 23 | 0 | 0 | 0 | 4 |
| | 2100 | 2 | 0 | 2 | 0 | 1 | 2 | 0 | 3 | 20 | 10 | 0 | 0 | 0 | 2 |
| | TOTAL | 48 | 7 | 7 | 5 | 9 | 14 | 34 | 41 | 78 | 151 | 11 | 0 | 0 | 4 |

SEPTEMBER 1964.

TABLE 13-b.

عدد تكرار رصدات الرياح السطحية — ايلول ١٩٦٤

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت ج.م.و TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | CALM سكون | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34+ | MEAN V.K. معدل السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 1 | 0 | 1 | 0 | 0 | 1 | 8 | 10 | 9 | 18 | 3 | 0 | 0 | 5 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 8 | 9 | 20 | 1 | 0 | 0 | 5 |
| | 0600 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 15 | 2 | 15 | 13 | 0 | 0 | 9 |
| | 0900 | 2 | 1 | 0 | 0 | 1 | 1 | 9 | 14 | 2 | 15 | 13 | 0 | 0 | 10 |
| | 1200 | 4 | 0 | 0 | 0 | 4 | 1 | 7 | 13 | 1 | 16 | 13 | 0 | 0 | 10 |
| | 1500 | 1 | 0 | 1 | 0 | 0 | 0 | 5 | 17 | 6 | 21 | 3 | 0 | 0 | 5 |
| | 1800 | 0 | 0 | 1 | 0 | 0 | 0 | 13 | 4 | 12 | 15 | 3 | 0 | 0 | 4 |
| | 2100 | 1 | 0 | 1 | 1 | 0 | 0 | 9 | 8 | 10 | 15 | 5 | 0 | 0 | 5 |
| | TOTAL | 9 | 1 | 4 | 1 | 5 | 4 | 76 | 89 | 51 | 135 | 54 | 0 | 0 | 7 |
| بغداد BAGHDAD | 0000 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 18 | 7 | 16 | 7 | 0 | 0 | 7 |
| | 0300 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 10 | 17 | 3 | 0 | 0 | 5 |
| | 0600 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 17 | 5 | 17 | 8 | 0 | 0 | 8 |
| | 0900 | 7 | 0 | 0 | 1 | 0 | 2 | 5 | 13 | 1 | 19 | 10 | 0 | 0 | 10 |
| | 1200 | 6 | 0 | 0 | 0 | 1 | 3 | 7 | 13 | 0 | 15 | 13 | 2 | 0 | 11 |
| | 1500 | 4 | 1 | 0 | 0 | 0 | 0 | 4 | 15 | 6 | 19 | 5 | 0 | 0 | 6 |
| | 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 21 | 7 | 21 | 2 | 0 | 0 | 4 |
| | 2100 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 18 | 7 | 17 | 6 | 0 | 0 | 7 |
| | TOTAL | 29 | 3 | 0 | 1 | 1 | 5 | 27 | 131 | 43 | 141 | 54 | 2 | 0 | 7 |
| نخيب NUKHAIB | 0600 | 6 | 0 | 0 | 0 | 0 | 0 | 13 | 7 | 4 | 7 | 18 | 1 | 0 | 12 |
| | 0900 | 5 | 0 | 0 | 1 | 0 | 0 | 9 | 9 | 6 | 8 | 16 | 0 | 0 | 9 |
| | 1200 | 4 | 0 | 0 | 1 | 3 | 1 | 6 | 11 | 4 | 17 | 9 | 0 | 0 | 8 |
| | 1500 | 5 | 1 | 0 | 0 | 1 | 0 | 7 | 10 | 6 | 16 | 8 | 0 | 0 | 8 |
| | TOTAL | 20 | 1 | 0 | 2 | 4 | 1 | 35 | 37 | 20 | 48 | 51 | 1 | 0 | 9 |
| حي HAI | 0000 | 0 | 0 | 0 | 0 | 0 | 1 | 22 | 6 | 1 | 25 | 4 | 0 | 0 | 8 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 4 | 3 | 26 | 1 | 0 | 0 | 6 |
| | 0600 | 2 | 1 | 1 | 0 | 0 | 0 | 18 | 6 | 2 | 23 | 5 | 0 | 0 | 6 |
| | 0900 | 1 | 0 | 0 | 0 | 0 | 0 | 17 | 7 | 4 | 19 | 7 | 0 | 0 | 7 |
| | 1200 | 1 | 0 | 0 | 0 | 0 | 1 | 18 | 6 | 4 | 18 | 8 | 0 | 0 | 7 |
| | 1500 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 8 | 6 | 23 | 1 | 0 | 0 | 5 |
| | 1800 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 4 | 6 | 22 | 2 | 0 | 0 | 5 |
| | TOTAL | 3 | 1 | 1 | 0 | 0 | 2 | 134 | 41 | 26 | 156 | 28 | 0 | 0 | 6 |
| نجف NAJAF | 0000 | 18 | 1 | 0 | 2 | 0 | 0 | 2 | 6 | 1 | 28 | 1 | 0 | 0 | 6 |
| | 0300 | 13 | 1 | 0 | 2 | 0 | 0 | 4 | 10 | 0 | 29 | 1 | 0 | 0 | 6 |
| | 0600 | 11 | 1 | 0 | 0 | 2 | 0 | 3 | 12 | 1 | 26 | 3 | 0 | 0 | 9 |
| | 0900 | 18 | 1 | 1 | 1 | 0 | 0 | 4 | 5 | 0 | 25 | 5 | 0 | 0 | 8 |
| | 1200 | 19 | 2 | 0 | 1 | 0 | 1 | 2 | 4 | 1 | 22 | 7 | 0 | 0 | 8 |
| | 1500 | 19 | 3 | 0 | 2 | 0 | 0 | 2 | 3 | 1 | 24 | 5 | 0 | 0 | 7 |
| | 1800 | 16 | 2 | 0 | 3 | 0 | 2 | 2 | 4 | 1 | 29 | 0 | 0 | 0 | 5 |
| | TOTAL | 114 | 11 | 1 | 11 | 2 | 3 | 19 | 44 | 5 | 183 | 22 | 0 | 0 | 7 |

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TABLE 13 - c.

عدد تكرار رصدات الرياح السطحية — ايلول ١٩٦٤

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | ≥34 | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 7 | 3 | 0 | 0 | 0 | 1 | 12 | 3 | 4 | 17 | 9 | 0 | 0 | 7 |
| | 0300 | 9 | 0 | 0 | 0 | 0 | 0 | 16 | 3 | 2 | 21 | 7 | 0 | 0 | 7 |
| | 0600 | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 1 | 17 | 12 | 0 | 0 | 9 |
| | 0900 | 11 | 1 | 0 | 0 | 0 | 0 | 13 | 4 | 1 | 14 | 15 | 0 | 0 | 10 |
| | 1200 | 17 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 1 | 11 | 13 | 0 | 0 | 11 |
| | 1500 | 20 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 22 | 4 | 0 | 0 | 5 |
| | 1800 | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 7 | 20 | 3 | 0 | 0 | 5 |
| | 2100 | 11 | 2 | 0 | 0 | 0 | 0 | 12 | 2 | 3 | 20 | 7 | 0 | 0 | 7 |
| | TOTAL | 95 | 6 | 0 | 0 | 0 | 1 | 86 | 29 | 23 | 142 | 75 | 0 | 0 | 8 |
| ناصرية NASIRIYA | 0000 | 1 | 1 | 0 | 0 | 1 | 0 | 16 | 9 | 2 | 28 | 0 | 0 | 0 | 6 |
| | 0300 | 0 | 0 | 1 | 0 | 0 | 1 | 22 | 6 | 0 | 30 | 0 | 0 | 0 | 6 |
| | 0600 | 0 | 0 | 0 | 0 | 1 | 1 | 17 | 11 | 0 | 23 | 7 | 0 | 0 | 8 |
| | 0900 | 1 | 0 | 0 | 2 | 0 | 1 | 4 | 22 | 0 | 17 | 13 | 0 | 0 | 10 |
| | 1200 | 7 | 0 | 2 | 1 | 0 | 0 | 2 | 18 | 0 | 13 | 17 | 0 | 0 | 10 |
| | 1500 | 4 | 2 | 0 | 2 | 0 | 0 | 6 | 15 | 1 | 29 | 0 | 0 | 0 | 6 |
| | 1800 | 1 | 0 | 2 | 1 | 0 | 0 | 11 | 12 | 3 | 27 | 0 | 0 | 0 | 6 |
| | 2100 | 1 | 0 | 2 | 0 | 0 | 1 | 14 | 9 | 3 | 27 | 0 | 0 | 0 | 6 |
| | TOTAL | 15 | 3 | 7 | 6 | 2 | 4 | 92 | 102 | 9 | 194 | 37 | 0 | 0 | 7 |
| بصرة BASRAH | 0000 | 3 | 0 | 0 | 0 | 2 | 2 | 10 | 13 | 0 | 25 | 5 | 0 | 0 | 7 |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 12 | 3 | 25 | 2 | 0 | 0 | 6 |
| | 0600 | 4 | 0 | 1 | 0 | 0 | 0 | 8 | 17 | 0 | 27 | 3 | 0 | 0 | 7 |
| | 0900 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 24 | 0 | 21 | 9 | 0 | 0 | 10 |
| | 1200 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 26 | 0 | 16 | 14 | 0 | 0 | 10 |
| | 1500 | 3 | 0 | 0 | 1 | 0 | 0 | 5 | 21 | 0 | 29 | 1 | 0 | 0 | 6 |
| | 1800 | 5 | 1 | 0 | 0 | 1 | 2 | 3 | 18 | 0 | 28 | 2 | 0 | 0 | 7 |
| | 2100 | 4 | 0 | 0 | 0 | 0 | 1 | 12 | 11 | 2 | 23 | 5 | 0 | 0 | 7 |
| | TOTAL | 23 | 2 | 3 | 1 | 3 | 6 | 55 | 142 | 5 | 194 | 41 | 0 | 0 | 8 |

TABLE 14.

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 26 knots | 320 | 0900 | 26th |
| MOSUL | 23 | 150 | 1200 | 20th |
| KIRKUK | 17 | 360 | 0600 | 16th |
| KHANAQIN | 17 | 320 | 1200 | 26th |
| RUTBAH | 18 | 150 | 1200 | 19th |
| HABBANIYA | 20 | 300 | 1200 | 25th |
| BAGHDAD | 24 | 330 | 1200 | 26th |
| HAI | 20 | 320 | 0600 | 15th |
| NUKHAIB | 25 | 320 | 0600 | 3rd |
| DIWANIYA | 19 | 340 | 1200 | 25th |
| NAJAF | 18 | 360 | 1200 | 25th |
| NASIRIYA | 17 | 320 | 0900 | 26th |
| BASRAH | 20 | 320 | 1200 | 26th |

SEPTEMBER 1964 . TABLE - 16 .

ايلول ١٩٦٤ ( 16 )

## CLIMATOLOGICAL SUMMARY

الملخصات المناخيـــة

NUMBER OF DAYS FOR THE CASES OF PHENOMENA

عدد الايام التي حدثت فيها الظواهر الجويـــــة

| STATIONS | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 |
| MOSUL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 30 | 0 |
| KIRKUK | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 3 | 0 | 0 | 0 | 30 | 0 |
| RUTBAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 29 | 0 |
| HABBANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 30 | 0 |
| KHANAQIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 |
| BAGHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 5 | 0 | 1 | 0 | 30 | 0 |
| NUKHAIB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 30 | 0 |
| HAI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| DIWANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 30 | 0 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 21 | 3 | 0 | 30 | 0 |
| BASRAH | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 7 | 1 | 0 | 30 | 0 |

TABLE - 17.

DURATION OF SUNSHINE

مدة سطوع الشمس

| STATIONS | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 350.8 | 12.9 | 1st | 0 |
| HABBANIYA | 338.7 | 11.7 | 4&8th | 0 |
| BAGHDAD | 310.3 | 11.5 | 9th | 0 |
| BASRAH | 312.9 | 11.7 | 6th | 0 |

TABLE - 18.

MONTHLY MEAN TEMPERATURE OF :

المعدل الشهري لحرارة الحشيش و التربـــة ( سنتغراد )

| STATIONS | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M. | EARTH TEMPERATURE C° 1.2 M. |
|---|---|---|---|
| MOSUL | .... | 22.6 | .... |
| KIRKUK | 18.4 | 27.1 | 29.4 |
| HABBANIYA | 28.6 | 31.8 | 31.1 |
| BAGHDAD | 16.2 | 30.9 | 30.3 |
| NAJAF | .... | 32.7 | 32.8 |
| NASIRIYA | 19.7 | 32.2 | 30.9 |
| BASRAH | 15.7 | .... | .... |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مديرية الارصاد الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر تشرين الاول ١٩٦٤

مجلد ٢٧ ، العدد ( ١٠ ) ، تشرين الاول ١٩٦٤

CLIMATOLOGICAL DATA FOR OCTOBER 1964 .

VOLUME 27 , NO. ( 10 ) , OCTOBER 1964 .

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| = = pressure at M.S.L. | 2a&b | 3-4 |
| = = relative humidity | 3 | 5 |
| = maximum and minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| = = vapour-pressure | 6 | 9 |
| = = wet-bulb temperature | 7 | 9 |
| = = dew-point | 8 | 9 |
| = = relative-humidity | 9 | 10 |
| = = pressure at M.S.L. | 10 | 10 |
| = = low-cloud-amount | 11 | 10 |
| = = total-cloud-amount | 12 | 10 |
| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest wind-Speed during one hour | 14 | 13 |
| Daily-precipitation | 15a-b | 14-15 |
| Climatological summary | 16 | 16 |
| Duration of sunshine hour | 17 | 16 |
| Monthly mean temperature of grass & earth | 18 | 16 |


NOTES ON TABLES AND GEOGRAPHICAL DATA SEE : JANUARY 1964 .

OCTOBER 1964 .
TABLE 1-e.

( ١ )

تشرين الاول ١٩٦٤

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C° ) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KARKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 28.4 | 23.1 | 24.8 | 24.9 | 25.0 | 25.2 |
| 2 | 27.0 | 25.0 | 26.3 | 21.9 | 26.3 | 26.8 |
| 3 | 21.9 | 21.0 | 22.8 | 17.9 | 22.7 | 22.3 |
| 4 | 22.6 | 20.4 | 22.1 | 18.7 | 20.1 | 20.2 |
| 5 | 19.3 | 17.7 | 21.0 | 17.0 | 21.4 | 22.0 |
| 6 | 22.1 | 18.5 | 21.2 | 15.8 | 19.1 | 19.4 |
| 7 | 23.0 | 19.1 | 23.4 | 16.3 | 20.7 | 20.8 |
| 8 | 24.7 | 18.9 | 23.7 | 19.0 | 20.7 | 20.4 |
| 9 | 25.6 | 21.0 | 23.7 | 19.7 | 21.8 | 22.0 |
| 10 | 24.9 | 20.5 | 23.5 | 21.1 | 22.9 | 24.2 |
| 11 | 26.2 | 20.4 | 24.2 | 21.4 | 22.4 | 22.7 |
| 12 | 27.8 | 21.6 | 27.1 | 21.5 | 22.9 | 22.0 |
| 13 | 27.6 | 22.5 | 26.4 | 21.3 | 21.9 | 22.9 |
| 14 | 27.9 | 21.9 | 26.5 | 21.1 | 21.4 | 23.3 |
| 15 | 27.7 | 21.6 | 25.7 | 21.3 | 21.9 | 22.9 |
| 16 | 23.3 | 22.1 | 25.8 | 23.7 | 22.2 | 22.5 |
| 17 | 28.7 | 21.7 | 25.7 | 20.9 | 22.5 | 22.9 |
| 18 | 26.7 | 21.1 | 25.5 | 21.6 | 21.9 | 23.5 |
| 19 | 26.2 | 20.8 | 24.8 | 21.2 | 21.5 | 22.9 |
| 20 | 26.7 | 21.0 | 25.0 | 21.2 | 22.0 | 22.7 |
| 21 | 26.8 | 19.3 | 23.7 | 20.9 | 22.8 | 22.2 |
| 22 | 26.2 | 18.5 | 23.2 | 20.9 | 22.3 | 21.4 |
| 23 | 26.2 | 18.6 | 22.7 | 20.0 | 21.6 | 20.6 |
| 24 | 26.2 | 18.2 | 22.7 | 19.4 | 20.7 | 20.4 |
| 25 | 24.3 | 18.4 | 22.8 | 18.8 | 19.6 | 20.2 |
| 26 | 25.5 | 21.3 | 24.4 | 18.0 | 18.1 | 19.8 |
| 27 | 22.9 | 20.9 | 23.8 | 16.9 | 17.8 | 19.2 |
| 28 | 22.0 | 17.3 | 21.0 | 16.7 | 17.3 | 19.8 |
| 29 | 19.8 | 17.6 | 21.0 | 16.4 | 18.1 | 18.7 |
| 30 | 19.3 | 17.1 | 20.4 | 15.3 | 17.7 | 21.4 |
| 31 | 19.0 | 16.2 | 20.1 | 15.3 | 17.8 | 20.0 |
| MEANS | 24.9 | 20.1 | 23.7 | 19.6 | 21.1 | 21.8 |
| DEPARTURE FROM NORMAL | .... | 0.0 | -0.5 | -1.5 | -3.3 | -3.0 |

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

T I M E - G.M.T.

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

OCTOBER 1964 . تشرين الاول ١٩٦٤

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

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 28.5 | 27.9 | 28.2 | 26.6 | 27.8 | 25.5 |
| 2 | 28.0 | 28.4 | 29.4 | 28.4 | 29.1 | 26.2 |
| 3 | 26.1 | 27.0 | 24.8 | 24.9 | 26.2 | 28.5 |
| 4 | 25.8 | 21.9 | 23.0 | 20.9 | 23.0 | 22.2 |
| 5 | 26.3 | 24.9 | 25.1 | 22.8 | 24.3 | 23.3 |
| 6 | 24.2 | 23.2 | 21.7 | 20.8 | 23.6 | 24.7 |
| 7 | 24.6 | 22.7 | 22.5 | 20.9 | 22.8 | 22.0 |
| 8 | 28.5 | 23.2 | 22.6 | 21.7 | 23.3 | 22.9 |
| 9 | 29.8 | 23.4 | 23.6 | 22.3 | 23.3 | 23.7 |
| 10 | 28.8 | 24.4 | 24.7 | 23.9 | 23.9 | 22.5 |
| 11 | 28.2 | 25.4 | 24.6 | 23.2 | 24.2 | 23.5 |
| 12 | 25.7 | 22.4 | 24.5 | 23.6 | 23.1 | 22.6 |
| 13 | 28.4 | 23.1 | 24.8 | 24.2 | 23.3 | 23.8 |
| 14 | 27.4 | 24.0 | 24.8 | 23.4 | 24.3 | 23.9 |
| 15 | 27.3 | 22.9 | 24.7 | 24.2 | 24.8 | 25.5 |
| 16 | 28.4 | 24.3 | 25.2 | 24.2 | 25.2 | 24.3 |
| 17 | 29.4 | 25.5 | 24.4 | 23.9 | 24.8 | 23.5 |
| 18 | 26.8 | 26.0 | 24.4 | 22.9 | 23.7 | 23.3 |
| 19 | 29.4 | 26.4 | 24.2 | 24.2 | 24.3 | 23.5 |
| 20 | 29.3 | 24.6 | 23.4 | 23.1 | 23.9 | 23.4 |
| 21 | 27.9 | 23.7 | 26.0 | 22.7 | 24.0 | 22.1 |
| 22 | 25.1 | 21.1 | 24.4 | 22.9 | 21.3 | 21.9 |
| 23 | 28.3 | 23.7 | 23.3 | 22.2 | 22.5 | 20.7 |
| 24 | 26.8 | 22.5 | 23.4 | 22.2 | 21.4 | 20.8 |
| 25 | 27.3 | 22.1 | 23.5 | 21.6 | 21.9 | 21.3 |
| 26 | 25.8 | 20.2 | 21.6 | 19.9 | 20.7 | 21.3 |
| 27 | 23.8 | 20.0 | 21.3 | 21.2 | 20.4 | 20.0 |
| 28 | 23.9 | 21.0 | 19.9 | 19.2 | 21.3 | 20.8 |
| 29 | 22.9 | 20.6 | 20.5 | 20.1 | 22.0 | 21.2 |
| 30 | 22.8 | 21.1 | 21.5 | 22.1 | 23.1 | 22.5 |
| 31 | 23.1 | 21.8 | 20.7 | 22.0 | 21.5 | 22.2 |
| MEANS | 27.0 | 23.5 | 23.8 | 22.8 | 23.5 | 23.0 |
| DEPARTURE FROM NORMAL | .... | -3.0 | .... | -3.2 | -2.4 | -2.7 |

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

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

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1012.2 | 1012.3 | 1011.7 | 1010.9 | 1011.4 | 1011.4 |
| 2 | 06.0 | 06.9 | 07.2 | 09.6 | 07.3 | 07.1 |
| 3 | 09.7 | 10.4 | 10.4 | 14.2 | 11.7 | [illegible] |
| 4 | 11.6 | 11.8 | 11.5 | 13.2 | 11.8 | 12.0 |
| 5 | 13.0 | 13.1 | 12.8 | 14.8 | 12.9 | 13.8 |
| 6 | 14.8 | 15.4 | 14.2 | 17.6 | 14.9 | 14.6 |
| 7 | 14.4 | 14.9 | 12.8 | 16.9 | 14.0 | 13.3 |
| 8 | 16.3 | 16.9 | 15.4 | 17.7 | 16.2 | 15.6 |
| 9 | 16.7 | 17.1 | 16.0 | 18.1 | 16.4 | 15.0 |
| 10 | 14.2 | 14.6 | 13.8 | 16.2 | 14.3 | 15.7 |
| 11 | 12.8 | 13.1 | 11.6 | 15.0 | 11.9 | 12.8 |
| 12 | 12.0 | 13.1 | 11.3 | 13.9 | 11.1 | 11.2 |
| 13 | 12.5 | 13.1 | 12.0 | 13.6 | 11.6 | 11.6 |
| 14 | 13.4 | 14.2 | 13.1 | 14.4 | 13.0 | 12.9 |
| 15 | 14.3 | 15.2 | 14.5 | 15.1 | 14.4 | 14.4 |
| 16 | 15.4 | 17.0 | 16.3 | 16.5 | 17.0 | 16.5 |
| 17 | 16.1 | 17.3 | 16.6 | 16.9 | 16.7 | 16.7 |
| 18 | 15.0 | 16.1 | 15.1 | 15.4 | 15.9 | 15.0 |
| 19 | 16.1 | 17.2 | 16.1 | 16.1 | 15.9 | 15.7 |
| 20 | 17.6 | 18.5 | 17.1 | 17.5 | 17.3 | 17.1 |
| 21 | 17.2 | 18.3 | 17.3 | 18.9 | 17.4 | 15.7 |
| 22 | 15.7 | 16.9 | 15.7 | 17.1 | 15.8 | 15.7 |
| 23 | 14.7 | 15.6 | 14.7 | 16.5 | 14.8 | 14.6 |
| 24 | 16.1 | 17.6 | 16.6 | 17.8 | 16.6 | 16.5 |
| 25 | 16.9 | 17.7 | 16.5 | 18.2 | 16.3 | 16.4 |
| 26 | 15.8 | 16.2 | 14.6 | 15.6 | 14.3 | 14.4 |
| 27 | 14.7 | 14.7 | 13.5 | 14.8 | 13.2 | 13.3 |
| 28 | 15.1 | 16.5 | 15.7 | 15.7 | 14.8 | 15.0 |
| 29 | 18.0 | 18.9 | 18.1 | 18.2 | 17.2 | 17.7 |
| 30 | 19.1 | 19.9 | 19.0 | 18.6 | 17.8 | 17.9 |
| 31 | 20.4 | 21.1 | 19.6 | 20.6 | 19.5 | 19.2 |
| MEANS | 1014.8 | 1015.5 | 1014.5 | 1016.0 | 1014.6 | 1014.1 |
| DEPARTURE FROM NORMAL | .... | +1.0 | +1.4 | +1.0 | +1.2 | +1.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1021.2 | 3rd | 0600 | 1964 | 1003.5 | 2nd | 1500 | 1964 | 1964 |
| MOSUL | 1022.6 | 31st | 0600 | 1964 | 1003.3 | 2nd | 1500 | 1964 | |
| KIRKUK | 1020.7 | 3rd | 0600 | 1964 | 1004.8 | 2nd | 1500 | 1964 | |
| RUTBAH | 1022.1 | 31st | 1800 | 1964 | 1008.4 | 1st | 1200 | 1964 | |
| HABBANIYA | 1020.8 | 31st | 0600 | 1964 | 1005.4 | 2nd | 1200 | 1964 | |
| BAGHDAD | 1020.2 | 31st | 2100 | 1964 | 1004.7 | 2nd | 1200 | 1964 | |
| SINJAR | 1023.3 | 28th | 0300 | 1962 | 1005.6 | 10th | 1200 | 1962 | RECORD |
| MOSUL | 1026.0 | 26th | 0600 | 1950 | 1003.2 | 12th | 1200 | 1948 | |
| KIRKUK | 1024.4 | 29th | 0600 | 1947 | 1002.5 | 7th | 1200 | 1950 | |
| RUTBAH | 1027.3 | 15th | 0000 | 1948 | 1000.0 | 8th | 1200 | 1962 | |
| BAGHDAD | 1023.4 | 29th | 0300 | 1947 | 1003.8 | 11th | 1500 | 1958 | |

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

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1014.8 | 1009.4 | 1011.2 | 1011.2 | 1009.8 | 1009.3 |
| 2 | 13.8 | 06.9 | 07.0 | 07.7 | 07.5 | 07.4 |
| 3 | 13.3 | 09.9 | 11.1 | 11.5 | 10.4 | 09.9 |
| 4 | 12.9 | 12.0 | 12.1 | 12.5 | 12.2 | 12.2 |
| 5 | 12.4 | 11.4 | 12.1 | 12.3 | 11.1 | 11.5 |
| 6 | 15.8 | 12.2 | 14.5 | 14.2 | 12.5 | 11.9 |
| 7 | 14.9 | 11.3 | 13.8 | 13.4 | 12.5 | 12.9 |
| 8 | 17.6 | 13.8 | 15.6 | 15.7 | 14.6 | 14.5 |
| 9 | 18.4 | 14.4 | 16.1 | 15.9 | 14.7 | 14.7 |
| 10 | 14.8 | 11.3 | 13.5 | 13.2 | 11.6 | 11.9 |
| 11 | 14.4 | 10.0 | 11.7 | 11.6 | 10.3 | 10.3 |
| 12 | 12.2 | 10.4 | 11.0 | 10.9 | 10.4 | 10.7 |
| 13 | 12.3 | 10.7 | 11.4 | 11.5 | 11.1 | 11.8 |
| 14 | 13.8 | 12.5 | 12.6 | 13.1 | 12.7 | 13.7 |
| 15 | 14.5 | 14.0 | 14.3 | 14.5 | 14.0 | 14.8 |
| 16 | 16.9 | 15.5 | 15.8 | 16.2 | 15.8 | 16.3 |
| 17 | 18.4 | 15.0 | 16.2 | 16.8 | 15.8 | 16.1 |
| 18 | 14.5 | 13.3 | 14.4 | 15.1 | 14.5 | 15.0 |
| 19 | 15.4 | 14.2 | 15.0 | 15.5 | 14.9 | 15.1 |
| 20 | 17.5 | 15.2 | 16.3 | 17.0 | 16.0 | 16.2 |
| 21 | 18.9 | 16.0 | 16.9 | 17.2 | 16.5 | 16.9 |
| 22 | 16.9 | 14.4 | 14.9 | 15.4 | 14.5 | 15.3 |
| 23 | 15.3 | 13.6 | 14.4 | 14.6 | 13.6 | 14.3 |
| 24 | 18.0 | 15.3 | 16.4 | 16.3 | 15.5 | 15.8 |
| 25 | 16.9 | 15.9 | 16.4 | 16.3 | 16.0 | 16.5 |
| 26 | 14.0 | 14.1 | 14.2 | 14.7 | 13.9 | 14.7 |
| 27 | 12.5 | 12.8 | 12.4 | 13.0 | 13.0 | 13.7 |
| 28 | 14.7 | 14.3 | 14.0 | 14.8 | 14.6 | 15.5 |
| 29 | 16.5 | 17.2 | 16.2 | 17.1 | 16.8 | 18.0 |
| 30 | 15.9 | 16.8 | 15.8 | 16.0 | 15.7 | 17.4 |
| 31 | 15.1 | 17.0 | 17.8 | 18.0 | 16.2 | 16.4 |
| MEANS | 1015.3 | 1013.3 | 1014.0 | 1014.3 | 1013.5 | 1013.8 |
| DEPARTURE FROM NORMAL | .... | +0.6 | .... | +1.9 | +1.0 | +1.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1020.9 | 21st | 0600 | 1964 | 1010.5 | 4th | 1500 | 1964 | 1964 |
| HAI | 1018.7 | 29th | 0600 | 1964 | 1005.7 | 2nd | 1500 | 1964 | |
| NAJAF | 1019.2 | 31st | 2100 | 1964 | 1005.2 | 2nd | 1500 | 1964 | |
| DIWANIYA | 1019.7 | 31st | 2100 | 1964 | 1005.2 | 2nd | 1200 | 1964 | |
| NASIRIYA | 1018.8 | 29th | 0600 | 1964 | 1005.5 | 2nd | 1500 | 1964 | |
| BASRAH | 1019.4 | 30th | 0600 | 1964 | 1006.6 | 2nd | 1200 | 1964 | |
| NUKHAIB | 1020.9 | 21st | 0600 | 1964 | 1007.6 | 4th | 1500 | 1963 | RECORD |
| HAI | 1022.4 | 29th | 0600 | 1947 | 1002.9 | 1st | 0000 | 1954 | |
| NAJAF | 1019.2 | 31st | 2100 | 1964 | 1004.4 | 22nd | 1500 | 1963 | |
| DIWANIYA | 1022.7 | 29th | 0600 | 1947 | 1002.6 | 1st | 0000 | 1954 | |
| NASIRIYA | 1022.5 | 29th | 0600 | 1947 | 1003.2 | 1st | 0000 | 1954 | |
| BASRAH | 1021.0 | 26th | 0600 | 1950 | 1002.9 | 1st | 0000 | 1954 | |

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TABLE - 3

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

| DATE | SIN-JAR | MO-SUL | KIR-KUK | RUT-BAH | HABB-ANIYA | BAG-HDAD | NUKH-AIB | HAI | NA-JAF | DIWA-NIYA | NASI-RIYA | BAS-RAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 24 | 36 | 25 | 26 | 47 | 33 | 32 | 29 | 27 | 36 | 29 | 39 |
| 2 | 24 | 31 | 22 | 45 | 43 | 45 | 20 | 34 | 27 | 34 | 30 | 49 |
| 3 | 23 | 41 | 29 | 31 | 41 | 34 | 16 | 34 | 33 | 36 | 32 | 46 |
| 4 | 18 | 36 | 20 | 27 | 43 | 34 | 20 | 32 | 38 | 38 | 26 | 47 |
| 5 | 17 | 35 | 18 | 24 | 35 | 33 | 11 | 29 | 31 | 42 | 24 | 51 |
| 6 | 16 | 37 | 16 | 26 | 35 | 31 | 13 | 26 | 39 | 31 | 19 | 40 |
| 7 | 14 | 37 | 19 | 27 | 40 | 38 | 12 | 30 | 33 | 37 | 22 | 49 |
| 8 | 11 | 41 | 17 | 18 | 38 | 37 | 15 | 30 | 36 | 35 | 21 | 51 |
| 9 | 11 | 35 | 14 | 24 | 31 | 30 | 8 | 29 | 32 | 44 | 19 | 48 |
| 10 | 12 | 38 | 15 | 28 | 33 | 26 | 15 | 27 | 37 | 45 | 19 | 44 |
| 11 | 14 | 36 | 18 | 36 | 47 | 37 | 25 | 29 | 30 | 42 | 27 | 45 |
| 12 | 14 | 37 | 14 | 32 | 43 | 37 | 15 | 40 | 32 | 39 | 36 | 35 |
| 13 | 11 | 36 | 15 | 30 | 43 | 37 | 18 | 39 | 29 | 36 | 30 | 51 |
| 14 | 13 | 37 | 17 | 26 | 47 | 35 | 21 | 40 | 31 | 36 | 27 | 43 |
| 15 | 12 | 37 | 18 | 24 | 44 | 35 | 24 | 42 | 30 | 36 | 30 | 49 |
| 16 | 14 | 35 | 19 | 29 | 45 | 34 | 21 | 38 | 30 | 33 | 20 | 51 |
| 17 | 15 | 39 | 20 | 17 | 44 | 37 | 23 | 29 | 32 | 34 | 24 | 44 |
| 18 | 13 | 41 | 19 | 16 | 42 | 37 | 28 | 30 | 30 | 35 | 22 | 43 |
| 19 | 15 | 38 | 19 | 21 | 42 | 32 | 27 | 28 | 34 | 35 | 22 | 48 |
| 20 | 13 | 36 | 17 | 22 | 43 | 34 | 31 | 28 | 34 | 34 | 24 | 38 |
| 21 | 10 | 35 | 19 | 17 | 33 | 36 | 31 | 34 | 31 | 34 | 24 | 44 |
| 22 | 9 | 35 | 19 | 16 | 35 | 40 | 22 | 39 | 27 | 39 | 28 | 41 |
| 23 | 9 | 36 | 18 | 16 | 43 | 46 | 26 | 29 | 30 | 36 | 25 | 50 |
| 24 | 10 | 40 | 19 | 18 | 48 | 44 | 18 | 36 | 23 | 40 | 29 | 50 |
| 25 | 13 | 40 | 20 | 20 | 48 | 42 | 21 | 35 | 22 | 39 | 26 | 47 |
| 26 | 12 | 33 | 21 | 20 | 44 | 39 | 12 | 41 | 28 | 45 | 25 | 50 |
| 27 | 15 | 35 | 21 | 23 | 54 | 38 | 19 | 39 | 33 | 39 | 32 | 51 |
| 28 | 19 | 43 | 22 | 24 | 54 | 33 | 23 | 33 | 39 | 41 | 37 | 51 |
| 29 | 21 | 40 | 22 | 20 | 48 | 43 | 27 | 39 | 34 | 39 | 36 | 50 |
| 30 | 23 | 41 | 23 | 25 | 51 | 28 | 25 | 31 | 28 | 32 | 37 | 52 |
| 31 | 15 | 41 | 23 | 21 | 53 | 21 | 23 | 37 | 28 | 0 | 40 | 62 |
| MEANS | 15 | 37 | 19 | 24 | 43 | 36 | 20 | 33 | 31 | 37 | 27 | 48 |
| NORMAL | .. | 48 | 28 | 32 | 36 | 34 | .. | 34 | .. | 38 | 32 | 55 |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 37 | 0300 | 2nd | 7 | 1500 | 22nd |
| MOSUL | 75 | 0000 | 3rd | 14 | 1200 | 21st |
| KIRKUK | 47 | 0000 | 3rd | 7 | 1200 | 9th 13th |
| RUTBAH | 69 | 0300 | 3rd | 7 | 1200 | 1st |
| HABBANIYA | 88 | 0000 | 31st | 13 | 1200 | 9th |
| BAGHDAD | 80 | 0000 | 8th | 9 | 1200 | 10th |
| NUKHAIB | 55 | 0600 | 21st | 5 | 1200 | 9th |
| HAI | 69 | 0300 | 29th | 12 | 1200 | 6th |
| NAJAF | 55 | 0300 | 28th | 12 | 1200 | 31st |
| DIWANIYA | 80 | 0300 | 5th | 16 | 1200 | 13th |
| NASIRIYA | 76 | 0300 | 31st | 6 | 1200 | 9th |
| BASRAH | 95 | 0300 | 31st | 13 | 0900 | 24th |

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TABLE 4-a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| DATE | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 34.6 | 19.4 | 34.0 | 13.2 | 32.9 | 16.5 | 33.9 | [illegible] | 36.0 | 15.2 |
| 2 | 31.1 | 18.0 | 34.3 | 12.9 | 34.7 | 19.4 | 36.7 | [illegible] | 30.5 | 15.4 |
| 3 | 25.6 | 15.5 | 28.5 | 17.3 | 28.5 | 18.5 | 30.6 | [illegible] | 23.9 | 16.0 |
| 4 | 26.5 | 15.0 | 29.7 | 11.8 | 28.2 | 14.5 | 30.0 | 10.6 | 28.3 | 8.3 |
| 5 | 22.7 | 15.3 | 26.8 | 8.8 | 29.0 | 14.3 | 29.4 | 10.0 | 22.8 | 12.2 |
| 6 | 26.7 | 16.0 | 28.2 | 9.8 | 29.3 | 12.0 | 29.4 | [illegible] | 23.9 | 8.2 |
| 7 | 27.3 | 15.1 | 31.6 | 11.4 | 33.1 | 14.2 | 33.3 | 10.0 | 27.0 | 6.0 |
| 8 | 28.1 | 17.3 | 31.3 | 8.5 | 32.5 | 14.3 | 33.3 | 10.0 | 30.4 | 9.0 |
| 9 | 30.0 | 18.4 | 32.0 | 8.8 | 32.6 | 14.0 | 33.9 | 10.6 | 31.2 | 9.4 |
| 10 | 27.9 | 19.2 | 32.3 | 9.4 | 31.9 | 15.2 | 33.3 | 8.3 | 30.2 | 12.0 |
| 11 | 30.6 | 18.0 | 33.8 | 10.4 | 33.5 | 14.0 | 32.8 | 12.2 | 29.8 | 13.6 |
| 12 | 33.1 | 20.4 | 35.3 | 10.5 | 36.0 | 18.2 | 36.1 | 12.2 | 30.7 | 12.4 |
| 13 | 32.0 | 20.8 | 35.9 | 11.4 | 35.5 | 17.0 | 36.1 | 13.3 | 31.1 | 13.0 |
| 14 | 32.9 | 20.5 | 36.1 | 11.0 | 35.5 | 19.8 | 35.0 | 13.9 | 31.0 | [illegible] |
| 15 | 32.2 | 20.3 | 34.8 | 10.4 | 34.4 | 18.1 | 33.9 | 15.6 | 32.0 | [illegible] |
| 16 | 33.6 | 22.1 | 34.2 | 10.8 | 34.2 | 17.8 | 35.9 | 13.3 | 32.5 | [illegible] |
| 17 | 32.1 | 23.8 | 34.1 | 10.4 | 34.0 | 18.4 | 33.3 | 13.3 | 32.9 | 11.0 |
| 18 | 31.8 | 20.2 | 33.1 | 11.2 | 33.5 | 18.5 | 33.3 | 12.2 | 33.2 | [illegible] |
| 19 | 31.0 | 18.3 | 33.6 | 10.4 | 33.1 | 18.5 | 33.9 | 12.2 | 32.7 | 10.7 |
| 20 | 31.1 | 19.2 | 32.6 | 10.0 | 33.1 | 17.5 | 33.9 | [illegible] | 33.0 | [illegible] |
| 21 | 30.0 | 21.0 | 31.9 | 9.2 | 33.4 | 16.1 | 33.3 | 12.2 | 30.9 | [illegible] |
| 22 | 29.8 | 19.2 | 32.5 | 7.5 | 32.8 | 16.2 | 32.8 | [illegible] | 31.5 | 11.0 |
| 23 | 29.6 | 19.0 | 31.4 | 7.6 | 32.0 | 14.4 | 31.7 | [illegible] | 30.7 | 11.0 |
| 24 | 29.0 | 20.3 | 30.8 | 7.4 | 32.0 | 15.2 | 32.8 | 9.4 | 31.0 | 9.6 |
| 25 | 28.8 | 18.1 | 31.1 | 7.9 | 30.3 | 16.2 | 32.2 | 12.2 | 29.4 | 9.3 |
| 26 | 28.0 | 21.2 | 31.8 | 9.7 | 31.5 | 17.1 | 31.1 | [illegible] | 27.6 | [illegible] |
| 27 | 26.6 | 18.5 | 30.4 | 14.3 | 30.4 | 20.0 | 30.0 | [illegible] | 26.0 | [illegible] |
| 28 | 26.2 | 15.8 | 28.6 | 8.4 | 28.0 | 14.8 | 30.0 | 0.0 | 27.5 | [illegible] |
| 29 | 23.6 | 16.0 | 28.6 | 7.3 | 28.0 | 14.9 | 30.0 | 1.7 | 28.4 | 5.1 |
| 30 | 24.0 | 13.2 | 28.3 | 7.8 | 28.5 | 13.6 | 28.9 | 9.4 | 27.6 | 5.6 |
| 31 | 24.2 | 12.7 | 28.6 | 6.5 | 28.7 | 13.4 | 28.9 | 10.0 | 27.0 | 4.8 |
| MEANS | 29.1 | 18.3 | 31.8 | 10.1 | 32.0 | 16.2 | 32.5 | 11.7 | 29.7 | 10.4 |
| DEPARTURE FROM NORMAL | .... | .... | +0.2 | -0.7 | +0.4 | -0.8 | -0.6 | -4.4 | -0.3 | -2.2 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 38.6 | 21st | 1962 | 11.2 | 25th | 1963 |
| MOSUL | 41.3 | 3&4th | 1952 | 0.0 | 23rd | 1947 |
| KIRKUK | 41.4 | 2nd | 1953 | 1.1 | 29th | 1946 |
| KHANAQIN | 42.2 | 2nd | 1953 | 3.9 | 14&15th | 1948 |
| RUTBAH | 38.4 | 6th | 1953 | 0.6 | 15th | 1948 |

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TABLE 4-5

( درجات الحرارة العظمى والصغرى اليومية ( سنتيغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | حبانية | | بغداد | | النخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 34.1 | 17.1 | 34.7 | 14.5 | 31.0 | 13.0 | [illegible] | [illegible] |
| 2 | 30.3 | 16.6 | 27.4 | 16.5 | 30.3 | 16.0 | [illegible] | [illegible] |
| 3 | 28.9 | [illegible] | 25.4 | 16.0 | 29.0 | 15.2 | [illegible] | [illegible] |
| 4 | 30.3 | 12.0 | 29.0 | 11.6 | 29.6 | 12.2 | [illegible] | [illegible] |
| 5 | 30.1 | 11.0 | 30.2 | 11.8 | 30.5 | 12.6 | [illegible] | [illegible] |
| 6 | 28.4 | [illegible] | 29.9 | [illegible] | 28.0 | 12.0 | [illegible] | [illegible] |
| 7 | 30.4 | 12.1 | 31.2 | [illegible] | 29.5 | 11.5 | [illegible] | [illegible] |
| 8 | 31.3 | 12.4 | 32.4 | [illegible] | 30.6 | 10.0 | [illegible] | [illegible] |
| 9 | 33.4 | [illegible] | 35.0 | [illegible] | 31.4 | 10.3 | [illegible] | [illegible] |
| 10 | 33.1 | 13.9 | 34.2 | 11.6 | 32.6 | 13.0 | [illegible] | [illegible] |
| 11 | 31.6 | 14.9 | 32.2 | 12.2 | 32.2 | 14.5 | [illegible] | [illegible] |
| 12 | 34.0 | 14.5 | 33.9 | 10.3 | 33.5 | 16.0 | [illegible] | [illegible] |
| 13 | 34.2 | 13.2 | 35.0 | 11.0 | 33.0 | 13.1 | [illegible] | [illegible] |
| 14 | 33.8 | 11.9 | 34.5 | 11.8 | 33.0 | 11.6 | [illegible] | [illegible] |
| 15 | 32.5 | 12.5 | 34.3 | 12.6 | 33.5 | 11.5 | 34.8 | [illegible] |
| 16 | 33.3 | 13.1 | 33.8 | 12.3 | 34.0 | 11.6 | 35.0 | [illegible] |
| 17 | 34.6 | 12.2 | 34.1 | 11.5 | 34.0 | 12.0 | 36.9 | [illegible] |
| 18 | 34.3 | 10.5 | 34.7 | 11.9 | 33.5 | 11.6 | 38.8 | [illegible] |
| 19 | 33.6 | 11.9 | 33.4 | 10.8 | 34.0 | 11.5 | 38.6 | [illegible] |
| 20 | 34.7 | 12.8 | 34.1 | 12.1 | 34.0 | 11.6 | 35.8 | [illegible] |
| 21 | 33.2 | 13.6 | 33.2 | 10.5 | 33.5 | 11.0 | 35.0 | [illegible] |
| 22 | 33.4 | 13.2 | 32.7 | 10.8 | 33.4 | 13.0 | 32.5 | [illegible] |
| 23 | 33.4 | 14.4 | 32.1 | 10.4 | 33.4 | 13.0 | 34.3 | [illegible] |
| 24 | 33.4 | 11.7 | 32.6 | 9.4 | 32.0 | 11.5 | 33.0 | [illegible] |
| 25 | 32.3 | 11.1 | 32.2 | 9.4 | 32.0 | 10.0 | 33.0 | [illegible] |
| 26 | 30.3 | 9.5 | 30.7 | 10.0 | 30.5 | 11.2 | 32.8 | [illegible] |
| 27 | 30.6 | 8.9 | 30.2 | 9.6 | 28.3 | 10.5 | 32.0 | [illegible] |
| 28 | 29.3 | 9.0 | 30.5 | 8.6 | 29.0 | 9.0 | 31.0 | [illegible] |
| 29 | 30.1 | 8.4 | 29.5 | 8.8 | 28.5 | [illegible] | 32.0 | 9.0 |
| 30 | 25.7 | 8.4 | 29.3 | 12.5 | 28.0 | 10.0 | 31.3 | [illegible] |
| 31 | 27.4 | 10.6 | 28.6 | 10.6 | 28.0 | 9.5 | 32.8 | [illegible] |
| MEANS | 32.1 | 12.1 | 33.3 | 11.3 | 31.4 | 12.0 | 34.1 | 13.3 |
| DEPARTURE FROM NORMAL | -1.4 | -4.0 | -0.6 | -4.9 | .... | .... | -1.0 | -3.9 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 42.2 | 2nd | 1953 | 5.6 | 29th | 1946 |
| BAGHDAD | 41.6 | 2nd | 1947 | 3.9 | 29th | 1946 |
| NUKHAIB | 38.4 | 12th | 1963 | 8.0 | 29th | 1964 |
| HAI | 43.9 | 3rd | 1947 | 6.7 | 15th | 1948 |

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TABLE 4-c.

تشرين الاول ١٩٦٤

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C° )

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 35.4 | 21.2 | 36.2 | 17.5 | 36.3 | 19.2 | 34.0 | 21.0 |
| 2 | 39.4 | 19.5 | 40.2 | 16.0 | 38.9 | 20.2 | 35.7 | 16.0 |
| 3 | 31.0 | 19.9 | 32.7 | 18.8 | 34.4 | 20.1 | 34.6 | 21.2 |
| 4 | 30.7 | 13.2 | 30.5 | 11.8 | 32.1 | 15.6 | 29.0 | 15.7 |
| 5 | 32.4 | 16.0 | 34.3 | 9.5 | 33.9 | 14.4 | 32.0 | 14.5 |
| 6 | 28.1 | 10.8 | 29.6 | 12.6 | 32.3 | 15.6 | 32.4 | 19.6 |
| 7 | 30.6 | 11.8 | 31.6 | 10.2 | 31.8 | 13.1 | 30.6 | 13.8 |
| 8 | 30.7 | 12.7 | 32.4 | 11.8 | 33.5 | 13.4 | 31.7 | 13.0 |
| 9 | 32.4 | 13.2 | 33.0 | 11.7 | 34.4 | 13.3 | 32.9 | 12.9 |
| 10 | 32.7 | 15.3 | 34.6 | 13.1 | 33.8 | 13.2 | 31.8 | 12.5 |
| 11 | 31.8 | 17.4 | 32.6 | 15.8 | 33.4 | 16.0 | 32.2 | 16.7 |
| 12 | 34.1 | 16.4 | 35.5 | 13.2 | 34.9 | 14.4 | 34.7 | 11.2 |
| 13 | 34.6 | 15.4 | 35.0 | 14.5 | 35.5 | 12.2 | 34.9 | 15.0 |
| 14 | 34.7 | 16.4 | 35.5 | 11.6 | 35.9 | 13.3 | 36.2 | 16.8 |
| 15 | 34.6 | 16.5 | 36.0 | 14.5 | 35.5 | 14.9 | 35.6 | 17.3 |
| 16 | 34.5 | 16.3 | 35.1 | 13.8 | 35.5 | 15.3 | 34.7 | 16.3 |
| 17 | 34.5 | 16.0 | 34.5 | 14.5 | 35.9 | 14.4 | 34.7 | 15.0 |
| 18 | 34.4 | 15.4 | 35.2 | 14.1 | 34.8 | 12.8 | 34.2 | 14.0 |
| 19 | 33.5 | 15.0 | 35.2 | 13.9 | 34.8 | 13.6 | 33.2 | 14.8 |
| 20 | 33.5 | 11.8 | 34.5 | 14.2 | 35.5 | 12.1 | 34.0 | 13.8 |
| 21 | 33.0 | 14.0 | 33.6 | 13.0 | 34.1 | 14.0 | 33.4 | 12.8 |
| 22 | 33.4 | 14.2 | 34.5 | 12.2 | 33.4 | 11.0 | 33.5 | 13.7 |
| 23 | 32.7 | 14.1 | 33.0 | 12.5 | 33.4 | 12.2 | 33.2 | 11.7 |
| 24 | 32.8 | 14.3 | 33.8 | 12.0 | 33.3 | 9.9 | 33.5 | 11.7 |
| 25 | 32.0 | 13.2 | 33.4 | 11.5 | 32.9 | 11.3 | 32.5 | 11.7 |
| 26 | 30.6 | 12.6 | 32.3 | 9.1 | 31.9 | 9.9 | 33.4 | 11.7 |
| 27 | 32.4 | 13.2 | 33.5 | 10.7 | 31.2 | 9.9 | 31.5 | 9.6 |
| 28 | 29.4 | 10.5 | 32.0 | 9.5 | 31.4 | 12.3 | 31.5 | 13.0 |
| 29 | 29.7 | 10.6 | 31.5 | 9.8 | 31.4 | 11.8 | 32.6 | 12.0 |
| 30 | 30.8 | 12.1 | 30.8 | 8.0 | 31.2 | 16.7 | 32.2 | 15.2 |
| 31 | 30.2 | 11.2 | 31.8 | 12.9 | 29.4 | 14.8 | 33.3 | 11.9 |
| MEANS | 32.6 | 14.5 | 33.7 | 12.7 | 33.8 | 13.9 | 33.2 | 14.4 |
| DEPARTURE FROM NORMAL | .... | .... | -0.9 | -2.4 | -1.8 | -2.6 | -1.6 | -3.3 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 39.4 | 2nd | 1964 | 10.5 | 28th | 1964 |
| DIWANIYA | 43.9 | 2nd | 1947 | 2.8 | 18th | 1948 |
| NASIRIYA | 43.9 | 1st | 1951 | 7.8 | 30th | 1948 |
| BASRAH | 45.6 | 1st | 1951 | 6.1 | 6th | 1941 |

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TABLE 5 .

MONTHLY MEAN DRY-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 20.1 | 24.2 | 27.3 | 28.5 | 26.7 | 22.8 | .... | 24.3 |
| MOSUL | 12.5 | 10.7 | 18.2 | 28.4 | 31.1 | 25.9 | 19.1 | 15.1 | 20.1 |
| KIRKUK | 18.2 | 17.1 | 24.5 | 30.4 | 34.3 | 26.8 | 21.9 | 19.[illegible] | 23.7 |
| KHANAQIN | .... | 13.1 | 23.8 | 30.9 | 32.1 | 26.8 | 20.0 | .... | 24.5 |
| RUTBAH | 12.8 | 11.2 | 18.3 | 27.1 | 28.9 | 21.9 | 18.4 | 14.1 | 19.7 |
| HABBANIYA | 14.8 | 12.9 | 20.3 | 29.5 | 31.7 | 24.4 | 18.8 | 15.9 | 2[illegible].1 |
| BAGHDAD | 15.1 | 12.7 | 20.9 | 28.2 | 32.1 | 26.4 | 20.2 | 17.1 | 21.6 |
| NUKHAIB | .... | .... | 19.7 | 28.4 | 30.[illegible] | 28.4 | .... | .... | 26.8 |
| HAI | 16.3 | 14.2 | 22.4 | 32.3 | 33.6 | 25.2 | 20.8 | .... | [illegible] |
| NAJAF | 18.0 | 15.6 | 21.5 | 29.6 | 32.2 | 28.9 | 23.4 | 20.4 | 23.7 |
| DIWANIYA | 15.6 | 13.5 | 23.0 | 31.7 | 33.4 | 29.7 | 17.5 | 20.8 | 22.9 |
| NASIRIYA | 16.7 | 14.6 | 22.1 | 31.2 | 33.3 | 28.2 | 22.8 | 19.2 | 23.[illegible] |
| BASRAH | 17.1 | 15.0 | 23.0 | 30.7 | 32.4 | 29.4 | 21.4 | 18.5 | 23.[illegible] |

TABLE 6.

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 4.2 | 4.9 | 4.9 | 4.6 | 4.4 | 4.1 | .... | 4.5 |
| MOSUL | 7.2 | 6.9 | 7.3 | 9.3 | 9.5 | 10.3 | 8.5 | 7.9 | 8.4 |
| KIRKUK | 4.8 | 5.1 | 6.4 | 5.4 | 5.1 | 5.6 | 5.4 | 5.0 | 5.4 |
| KHANAQIN | .... | 5.4 | 7.1 | 8.3 | 8.5 | 8.1 | 6.8 | .... | 7.3 |
| RUTBAH | 4.4 | 4.4 | 4.9 | 6.2 | 6.0 | 6.1 | 5.5 | 4.8 | 5.3 |
| HABBANIYA | 9.1 | 8.5 | 10.5 | 10.5 | 10.1 | 12.3 | 10.5 | 9.4 | 10.1 |
| BAGHDAD | 8.3 | 7.3 | 9.1 | 9.7 | 8.4 | 8.0 | 8.[illegible] | 7.5 | 8.4 |
| NUKHAIB | .... | .... | 6.9 | 7.3 | 7.4 | 7.2 | .... | .... | 7.2 |
| HAI | 7.8 | 6.8 | 9.6 | 9.9 | 9.1 | 11.0 | 8.9 | .... | 9.0 |
| NAJAF | 8.1 | 7.6 | 8.4 | 9.8 | 10.0 | 9.8 | 8.8 | 8.3 | 8.9 |
| DIWANIYA | 8.6 | 9.0 | 10.7 | 10.5 | 10.9 | 10.5 | 8.9 | 9.5 | 9.8 |
| NASIRIYA | 6.7 | 6.4 | 7.1 | 7.0 | 6.3 | 8.7 | 8.3 | 7.5 | 7.3 |
| BASRAH | 11.2 | 10.3 | 12.1 | 12.5 | 12.2 | 14.6 | 15.0 | 12.6 | 12.6 |

TABLE 7.

MONTHLY MEAN WET-BULB TEMPERATURE (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 9.9 | 12.3 | 13.6 | 14.0 | 13.1 | 14.2 | .... | 12.4 |
| MOSUL | 8.3 | 6.9 | 11.0 | 16.5 | 17.6 | 16.0 | 12.1 | 9.8 | 12.3 |
| KIRKUK | 9.4 | 9.0 | 13.3 | 15.3 | 15.5 | 13.8 | 11.6 | 10.3 | 12.3 |
| KHANAQIN | .... | 7.1 | 13.3 | 17.0 | 17.5 | 15.2 | 11.4 | .... | 13.6 |
| RUTBAH | 6.2 | 5.3 | 9.5 | 14.5 | 14.9 | 13.3 | 9.9 | 7.3 | 10.1 |
| HABBANIYA | 10.3 | 9.0 | 13.7 | 17.4 | 18.3 | 16.3 | 13.1 | 13.2 | 13.7 |
| BAGHDAD | 10.0 | 8.3 | 13.2 | 17.0 | 17.5 | 15.5 | 12.7 | 11.1 | 13.2 |
| NUKHAIB | .... | .... | 11.5 | 15.2 | 16.4 | 15.4 | .... | .... | 14.6 |
| HAI | 10.3 | 9.0 | 14.2 | 18.5 | 18.4 | 16.4 | 13.0 | .... | 14.3 |
| NAJAF | 11.3 | 9.8 | 16.3 | 17.2 | 18.3 | 16.9 | 14.2 | 12.2 | 14.5 |
| DIWANIYA | 10.4 | 9.3 | 14.9 | 18.4 | 19.1 | 16.7 | 11.4 | 13.3 | 14.2 |
| NASIRIYA | 9.8 | 8.5 | 12.6 | 16.5 | 17.0 | 16.1 | 13.6 | 11.6 | 13.2 |
| BASRAH | 12.6 | 11.1 | 15.7 | 18.9 | 19.4 | 17.9 | 16.5 | 14.2 | 15.8 |

TABLE 8 .

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | -5.2 | -3.2 | -3.1 | -4.0 | -4.6 | -5.3 | .... | -4.2 |
| MOSUL | 1.9 | 1.6 | 2.3 | 5.9 | 9.5 | 7.2 | 4.5 | 3.5 | 4.6 |
| KIRKUK | -3.2 | -2.5 | 0.4 | -1.8 | -2.5 | -1.5 | -1.7 | -3.0 | -2.0 |
| KHANAQIN | .... | 3.3 | 2.1 | 4.0 | 4.1 | 3.6 | 1.6 | .... | 3.1 |
| RUTBAH | 5.5 | 5.7 | 4.1 | 0.5 | 0.7 | 0.4 | 1.8 | 4.1 | 2.8 |
| HABBANIYA | 5.3 | 4.4 | 7.4 | 7.3 | 6.9 | 9.4 | 7.4 | 5.8 | 6.7 |
| BAGHDAD | 4.0 | 3.0 | 5.2 | 6.0 | 4.3 | 6.0 | 4.9 | 4.6 | 4.8 |
| NUKHAIB | .... | .... | 1.0 | 1.7 | 2.2 | 1.5 | .... | .... | 1.6 |
| HAI | 3.4 | 2.5 | 6.3 | 7.8 | 5.4 | 8.1 | 5.1 | .... | 5.5 |
| NAJAF | 3.7 | 2.7 | 4.2 | 6.5 | 6.7 | 6.3 | 5.0 | 4.1 | 4.9 |
| DIWANIYA | 4.5 | 4.0 | 7.5 | 7.7 | 7.8 | 7.4 | 8.9 | 5.9 | 6.7 |
| NASIRIYA | 0.8 | 0.1 | 1.6 | 1.5 | 0.1 | 4.6 | 3.9 | 2.6 | 1.9 |
| BASRAH | 8.3 | 6.8 | 9.4 | 10.0 | 9.8 | 12.5 | 12.8 | 10.1 | 10.0 |

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TABLE -9.

## MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .. | 18 | 17 | 14 | 12 | 12 | 15 | .. | 15 |
| MOSUL | 50 | 53 | 35 | 24 | 21 | 31 | 39 | 46 | 37 |
| KIRKUK | 23 | 27 | 21 | 13 | 11 | 16 | 21 | 22 | 19 |
| KHANAQIN | .. | 35 | 24 | 19 | 18 | 23 | 28 | .. | 25 |
| RUTBAH | 29 | 32 | 23 | 17 | 15 | 19 | 26 | 29 | 24 |
| HABBANIYA | 54 | 58 | 44 | 26 | 22 | 41 | 49 | 58 | 43 |
| BAGHDAD | 49 | 52 | 36 | 24 | 18 | 30 | 37 | 43 | 35 |
| NUKHAIB | .. | .. | 29 | 19 | 17 | 18 | .. | .. | 21 |
| HAI | 43 | 46 | 36 | 21 | 17 | 35 | 37 | .. | 34 |
| NAJAF | 40 | 43 | 23 | 24 | 21 | 25 | 30 | 36 | 30 |
| DIWANIYA | 48 | 52 | 37 | 23 | 21 | 39 | 44 | 39 | 38 |
| NASIRIYA | 35 | 38 | 26 | 16 | 13 | 23 | 30 | 34 | 27 |
| BASRAH | 57 | 60 | 44 | 29 | 25 | 45 | 59 | 58 | 47 |

TABLE -10.

## MONTHLY MEAN PRESSURE (m.s.) AT M.S.L.

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 15.6 | 16.4 | 15.8 | 13.5 | 13.7 | 15.4 | .... | 1015.0 |
| MOSUL | 16.2 | 16.7 | 17.2 | 15.5 | 13.6 | 13.9 | 15.3 | 15.9 | 1015.5 |
| KIRKUK | 14.9 | 15.3 | 15.4 | 14.2 | 12.8 | 13.5 | 15.0 | 15.3 | 1014.6 |
| KHANAQIN | .... | 16.2 | 14.4 | 12.7 | 11.8 | 13.0 | 15.0 | .... | 1013.9 |
| RUTBAH | 15.5 | 16.4 | 17.1 | 16.0 | 14.9 | 15.6 | 16.2 | 15.8 | 1015.9 |
| HABBANIYA | 14.3 | 14.8 | 14.9 | 15.1 | 13.8 | 13.8 | 14.6 | 14.6 | 1014.5 |
| BAGHDAD | 13.7 | 14.5 | 15.7 | 15.0 | 13.6 | 13.6 | 14.2 | 14.6 | 1014.3 |
| NUKHAIB | .... | .... | 17.1 | 15.5 | 14.0 | 14.1 | .... | .... | 1015.2 |
| HAI | 12.4 | 13.6 | 14.6 | 13.9 | 12.7 | 12.6 | 13.3 | .... | 1013.3 |
| NAJAF | 13.5 | 14.2 | 15.4 | 14.5 | 13.2 | 13.8 | 14.1 | 14.0 | 1014.0 |
| DIWANIYA | 13.9 | 14.6 | 15.6 | 14.7 | 13.3 | 13.8 | 14.3 | 14.4 | 1014.3 |
| NASIRIYA | 13.0 | 13.7 | 14.9 | 14.1 | 12.6 | 12.7 | 13.5 | 13.4 | 1013.5 |
| BASRAH | 13.3 | 13.7 | 15.1 | 14.4 | 13.2 | 13.3 | 13.9 | 13.8 | 1013.8 |

TABLE -11.

## MONTHLY MEAN LOW CLOUDAMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | .... | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | .... | 0.1 |
| MOSUL | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 |
| KIRKUK | 0.0 | 0.1 | 0.0 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 |
| KHANAQIN | .... | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.0 | .... | 0.2 |
| RUTBAH | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HABBANIYA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BAGHDAD | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUKHAIB | .... | .... | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .... | 0.0 |
| HAI | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .... | 0.0 |
| 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 | 0.6 | 0.5 | 0.3 | 0.0 | 0.0 | 0.2 |
| BASRAH | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |

TABLE -12.

## MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

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

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 | معدل السرعة بالعقد MEAN W.S. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 19 | 0 | 3 | 0 | 0 | 0 | 5 | 4 | 0 | 31 | 0 | 0 | 0 | 7 |
| | 0600 | 6 | 1 | 4 | 0 | 1 | 0 | 6 | 3 | 10 | 21 | 0 | 0 | 0 | 4 |
| | 0900 | 1 | 0 | 7 | 0 | 5 | 0 | 3 | 4 | 10 | 18 | 3 | 0 | 0 | 5 |
| | 1200 | 2 | 0 | 5 | 2 | 10 | 1 | 3 | 3 | 5 | 21 | 5 | 0 | 0 | 6 |
| | 1500 | 3 | 0 | 3 | 0 | 4 | 1 | 13 | 0 | 7 | 23 | 1 | 0 | 0 | 5 |
| | 1800 | 21 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 2 | 28 | 1 | 0 | 0 | 6 |
| | TOTAL | 52 | 1 | 22 | 2 | 21 | 2 | 34 | 18 | 34 | 142 | 10 | 0 | 0 | 6 |
| موصل MOSUL | 0000 | 2 | 1 | 0 | 1 | 0 | 0 | 14 | 3 | 10 | 21 | 0 | 0 | 0 | 3 |
| | 0300 | 2 | 0 | 0 | 0 | 1 | 0 | 12 | 3 | 13 | 18 | 0 | 0 | 0 | 3 |
| | 0600 | 5 | 0 | 0 | 0 | 3 | 0 | 7 | 10 | 5 | 24 | 1 | 0 | 0 | 5 |
| | 0900 | 7 | 1 | 5 | 2 | 7 | 0 | 4 | 3 | 2 | 28 | 1 | 0 | 0 | 6 |
| | 1200 | 8 | 4 | 6 | 2 | 4 | 2 | 2 | 1 | 2 | 26 | 3 | 0 | 0 | 6 |
| | 1500 | 1 | 1 | 3 | 0 | 0 | 2 | 12 | 3 | 9 | 21 | 1 | 0 | 0 | 4 |
| | 1800 | 2 | 0 | 1 | 0 | 2 | 0 | 15 | 4 | 7 | 24 | 0 | 0 | 0 | 3 |
| | 2100 | 0 | 0 | 0 | 2 | 5 | 0 | 10 | 3 | 10 | 21 | 0 | 0 | 0 | 3 |
| | TOTAL | 27 | 7 | 15 | 7 | 23 | 4 | 76 | 30 | 59 | 183 | 6 | 0 | 0 | 4 |
| كركوك KIRKUK | 0000 | 10 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 15 | 16 | 0 | 0 | 0 | 2 |
| | 0300 | 5 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 19 | 0 | 0 | 0 | 3 |
| | 0600 | 0 | 6 | 1 | 0 | 2 | 0 | 2 | 0 | 20 | 10 | 1 | 0 | 0 | 2 |
| | 0900 | 1 | 0 | 1 | 2 | 3 | 2 | 9 | 0 | 13 | 18 | 0 | 0 | 0 | 3 |
| | 1200 | 0 | 1 | 0 | 0 | 1 | 6 | 11 | 0 | 12 | 18 | 1 | 0 | 0 | 3 |
| | 1500 | 0 | 1 | 0 | 0 | 0 | 2 | 11 | 0 | 17 | 14 | 0 | 0 | 0 | 2 |
| | 1800 | 3 | 5 | 0 | 0 | 1 | 1 | 1 | 0 | 20 | 11 | 0 | 0 | 0 | 2 |
| | 2100 | 4 | 9 | 2 | 1 | 0 | 0 | 2 | 1 | 12 | 19 | 0 | 0 | 0 | 3 |
| | TOTAL | 23 | 38 | 7 | 4 | 7 | 11 | 36 | 1 | 121 | 125 | 2 | 0 | 0 | 3 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 22 | 3 | 1 | 0 | 0 | 0 | 5 | 26 | 0 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 8 | 2 | 2 | 0 | 2 | 0 | 17 | 14 | 0 | 0 | 0 | 2 |
| | 0900 | 3 | 0 | 0 | 0 | 5 | 0 | 8 | 7 | 8 | 23 | 0 | 0 | 0 | 4 |
| | 1200 | 1 | 0 | 0 | 0 | 4 | 1 | 19 | 6 | 0 | 31 | 0 | 0 | 0 | 6 |
| | 1500 | 2 | 0 | 2 | 1 | 3 | 0 | 11 | 6 | 6 | 25 | 0 | 0 | 0 | 4 |
| | 1800 | 1 | 0 | 5 | 2 | 1 | 0 | 3 | 0 | 18 | 13 | 0 | 0 | 0 | 2 |
| | TOTAL | 7 | 0 | 38 | 8 | 16 | 1 | 43 | 19 | 54 | 132 | 0 | 0 | 0 | 4 |
| رطبة RUTBAH | 0000 | 0 | 8 | 1 | 1 | 0 | 10 | 4 | 2 | 13 | 17 | 1 | 0 | 0 | 3 |
| | 0300 | 3 | 0 | 0 | 0 | 6 | 11 | 5 | 3 | 3 | 26 | 2 | 0 | 0 | 5 |
| | 0600 | 6 | 0 | 0 | 0 | 6 | 6 | 8 | 1 | 4 | 25 | 1 | 1 | 0 | 5 |
| | 0900 | 6 | 0 | 0 | 0 | 3 | 1 | 5 | 3 | 13 | 13 | 4 | 1 | 0 | 4 |
| | 1200 | 9 | 1 | 0 | 0 | 3 | 1 | 4 | 5 | 8 | 19 | 4 | 0 | 0 | 5 |
| | 1500 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 17 | 14 | 0 | 0 | 0 | 2 |
| | 1800 | 1 | 2 | 0 | 0 | 0 | 0 | 4 | 3 | 21 | 10 | 0 | 0 | 0 | 1 |
| | 2100 | 2 | 1 | 0 | 1 | 0 | 2 | 4 | 2 | 19 | 10 | 2 | 0 | 0 | 2 |
| | TOTAL | 37 | 12 | 1 | 2 | 18 | 31 | 36 | 21 | 98 | 134 | 14 | 2 | 0 | 3 |

OCTOBER 1964.
TABLE 13-b.

SURFACE WIND, NUMBER OF OBSERVATIONS OF :

| STATIONS | TIME GMT. | DIRECTION N | NE | E | SE | S | SW | W | NW | CALM | SPEED IN KNOTS 1-10 | 11-21 | 22-33 | 34 | [illegible] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HABBANIYA | 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 21 | 8 | 2 | 0 | 0 | [illegible] |
| | 0300 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 21 | 9 | 1 | 0 | 0 | [illegible] |
| | 0600 | 0 | 2 | 0 | 0 | 0 | 1 | 10 | 12 | 6 | 19 | 6 | 0 | 0 | [illegible] |
| | 0900 | 4 | 0 | 0 | 0 | 1 | 0 | 12 | 11 | 3 | 22 | 6 | 0 | 0 | [illegible] |
| | 1200 | 3 | 0 | 0 | 0 | 2 | 1 | 8 | 13 | 4 | 21 | 6 | 0 | 0 | [illegible] |
| | 1500 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 17 | 14 | 0 | 0 | 0 | [illegible] |
| | 1800 | 0 | 0 | 1 | 0 | 0 | 1 | 10 | 1 | 18 | 12 | 1 | 0 | 0 | [illegible] |
| | 2100 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 22 | 8 | 1 | 0 | 0 | [illegible] |
| | TOTAL | 10 | 2 | 1 | 0 | 3 | 3 | 67 | 50 | 112 | 113 | 23 | 0 | 0 | [illegible] |
| BAGHDAD | 0000 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 8 | 20 | 10 | 1 | 0 | 0 | [illegible] |
| | 0300 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 8 | 17 | 14 | 0 | 0 | 0 | [illegible] |
| | 0600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 15 | 14 | 2 | 0 | 0 | [illegible] |
| | 0900 | 2 | 0 | 1 | 1 | 0 | 0 | 5 | 15 | 7 | 19 | 5 | 0 | 0 | [illegible] |
| | 1200 | 6 | 0 | 1 | 1 | 0 | 3 | 6 | 11 | 3 | 0 | 10 | 0 | 0 | [illegible] |
| | 1500 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 19 | 11 | 1 | 0 | 0 | [illegible] |
| | 1800 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 20 | 11 | 0 | 0 | 0 | [illegible] |
| | 2100 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 19 | 11 | 1 | 0 | 0 | [illegible] |
| | TOTAL | 11 | 1 | 3 | 2 | 0 | 3 | 25 | 83 | 130 | 90 | 10 | 0 | 0 | [illegible] |
| NUKHAIB | 0600 | 4 | 0 | 0 | 0 | 1 | 0 | 20 | 2 | 4 | 24 | 2 | 0 | 0 | [illegible] |
| | 0900 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 4 | 8 | 21 | 2 | 0 | 0 | [illegible] |
| | 1200 | 3 | 0 | 0 | 0 | 0 | 0 | 18 | 4 | 6 | 22 | 3 | 0 | 0 | [illegible] |
| | 1500 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 2 | 10 | 20 | 1 | 0 | 0 | [illegible] |
| | TOTAL | 13 | 0 | 0 | 0 | 1 | 0 | 70 | 12 | 28 | 87 | 9 | 0 | 0 | [illegible] |
| HAI | 0000 | 0 | 0 | 0 | 1 | 0 | 0 | 18 | 5 | 7 | 21 | 3 | 0 | 0 | [illegible] |
| | 0300 | 2 | 0 | 1 | 0 | 0 | 0 | 18 | 2 | 8 | 23 | 0 | 0 | 0 | [illegible] |
| | 0600 | 1 | 0 | 1 | 0 | 1 | 0 | 15 | 2 | 11 | 20 | 0 | 0 | 0 | [illegible] |
| | 0900 | 1 | 0 | 2 | 2 | 1 | 0 | 15 | 4 | 6 | 20 | 5 | 0 | 0 | [illegible] |
| | 1200 | 0 | 0 | 2 | 1 | 2 | 0 | 17 | 4 | 5 | 24 | 2 | 0 | 0 | [illegible] |
| | 1500 | 0 | 0 | 3 | 0 | 0 | 1 | 9 | 3 | 15 | 16 | 0 | 0 | 0 | [illegible] |
| | 1800 | 1 | 0 | 1 | 0 | 0 | 0 | 15 | 4 | 10 | 21 | 0 | 0 | 0 | [illegible] |
| | TOTAL | 5 | 0 | 10 | 4 | 4 | 1 | 107 | 24 | 62 | 145 | 10 | 0 | 0 | [illegible] |
| NAJAF | 0000 | 14 | 1 | 0 | 0 | 1 | 0 | 4 | 10 | 1 | 29 | 1 | 0 | 0 | [illegible] |
| | 0300 | 19 | 1 | 0 | 1 | 1 | 0 | 5 | 4 | 0 | 31 | 0 | 0 | 0 | [illegible] |
| | 0600 | 21 | 0 | 0 | 0 | 1 | 0 | 2 | 6 | 1 | 29 | 1 | 0 | 0 | [illegible] |
| | 0900 | 20 | 2 | 0 | 0 | 1 | 1 | 2 | 4 | 1 | 27 | 3 | 0 | 0 | [illegible] |
| | 1200 | 14 | 6 | 0 | 0 | 1 | 1 | 2 | 1 | 6 | 20 | 3 | 0 | 0 | [illegible] |
| | 1500 | 17 | 0 | 2 | 1 | 1 | 0 | 1 | 5 | 3 | 27 | 1 | 0 | 0 | [illegible] |
| | 1800 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 6 | 24 | 1 | 0 | 0 | [illegible] |
| | 2100 | 11 | 3 | 0 | 0 | 1 | 0 | 4 | 10 | 2 | 28 | 1 | 0 | 0 | [illegible] |
| | TOTAL | 136 | 14 | 3 | 2 | 8 | 2 | 20 | 43 | 20 | 215 | 13 | 0 | 0 | [illegible] |

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TABLE 13-c.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت غرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34- | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ديوانية DIWANIYA | 0000 | 7 | 1 | 0 | 2 | 0 | 0 | 13 | 2 | 6 | 22 | 3 | 0 | 0 | 5 |
| | 0300 | 6 | 0 | 0 | 0 | 0 | 0 | 19 | 2 | 4 | 27 | 0 | 0 | 0 | 5 |
| | 0600 | 5 | 2 | 2 | 0 | 0 | 0 | 16 | 5 | 1 | 22 | 8 | 0 | 0 | 7 |
| | 0900 | 9 | 0 | 1 | 0 | 1 | 0 | 14 | 3 | 3 | 17 | 11 | 0 | 0 | 8 |
| | 1200 | 12 | 1 | 2 | 0 | 1 | 1 | 7 | 5 | 2 | 17 | 12 | 0 | 0 | 9 |
| | 1500 | 9 | 1 | 0 | 0 | 0 | 0 | 14 | 4 | 3 | 25 | 3 | 0 | 0 | 5 |
| | 1800 | 8 | 1 | 3 | 0 | 0 | 0 | 11 | 2 | 6 | 20 | 5 | 0 | 0 | 6 |
| | 2100 | 9 | 1 | 1 | 1 | 0 | 0 | 11 | 2 | 5 | 24 | 2 | 0 | 0 | 5 |
| | TOTAL | 65 | 7 | 9 | 3 | 2 | 1 | 105 | 26 | 30 | 174 | 44 | 0 | 0 | 6 |
| ناصرية NASIRIYA | 0000 | 1 | 0 | 2 | 0 | 2 | 2 | 15 | 4 | 5 | 26 | 0 | 0 | 0 | 5 |
| | 0300 | 0 | 0 | 1 | 1 | 1 | 3 | 15 | 4 | 6 | 24 | 1 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 0 | 2 | 1 | 2 | 15 | 9 | 2 | 24 | 5 | 0 | 0 | 6 |
| | 0900 | 0 | 0 | 1 | 1 | 0 | 0 | 8 | 17 | 4 | 17 | 10 | 0 | 0 | 7 |
| | 1200 | 4 | 0 | 2 | 1 | 0 | 0 | 8 | 13 | 3 | 22 | 6 | 0 | 0 | 7 |
| | 1500 | 2 | 2 | 4 | 3 | 0 | 0 | 8 | 7 | 5 | 26 | 0 | 0 | 0 | 4 |
| | 1800 | 2 | 0 | 2 | 2 | 2 | 1 | 9 | 7 | 6 | 25 | 0 | 0 | 0 | 5 |
| | 2100 | 2 | 0 | 1 | 3 | 1 | 3 | 5 | 12 | 4 | 27 | 0 | 0 | 0 | 4 |
| | TOTAL | 11 | 2 | 13 | 13 | 7 | 11 | 83 | 73 | 35 | 191 | 22 | 0 | 0 | 5 |
| بصرة BASRAH | 0000 | 2 | 0 | 2 | 0 | 2 | 2 | 12 | 11 | 0 | 29 | 2 | 0 | 0 | 6 |
| | 0300 | 2 | 1 | 1 | 1 | 0 | 1 | 14 | 9 | 2 | 28 | 1 | 0 | 0 | 5 |
| | 0600 | 2 | 0 | 2 | 1 | 0 | 1 | 11 | 13 | 1 | 25 | 5 | 0 | 0 | 6 |
| | 0900 | 4 | 1 | 1 | 2 | 0 | 1 | 3 | 18 | 1 | 20 | 10 | 0 | 0 | 8 |
| | 1200 | 3 | 0 | 1 | 2 | 2 | 0 | 0 | 23 | 0 | 19 | 12 | 0 | 0 | 5 |
| | 1500 | 6 | 1 | 2 | 0 | 2 | 0 | 1 | 19 | 0 | 30 | 1 | 0 | 0 | 5 |
| | 1800 | 5 | 1 | 0 | 1 | 2 | 0 | 5 | 15 | 2 | 27 | 2 | 0 | 0 | 5 |
| | 2100 | 4 | 0 | 3 | 0 | 5 | 1 | 6 | 10 | 2 | 28 | 1 | 0 | 0 | 6 |
| | TOTAL | 28 | 4 | 12 | 7 | 13 | 6 | 52 | 118 | 8 | 206 | 34 | 0 | 0 | 6 |

TABLE 14.

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 14 knots | 270 | 1500 | 2nd |
| MOSUL | 20 | 100 | 0900 | 26th |
| KIRKUK | 15 | 270 | 1200 | 10th |
| KHANAQIN | 10 | 180 | 0900 | 11th |
| RUTBAH | 25 | 360 | 0600 | 5th |
| HABBANIYA | 18 | 280 | 1200 | 3rd |
| BAGHDAD | 20 | 320 | 1200 | 10th |
| NUKHAIB | 14 | 360 | 1500 | 5th |
| HAI | 18 | 310 | 1200 | 1st |
| NAJAF | 16 | 180 | 1500 | 30th |
| DIWANIYA | 20 | 340 | 0900 | 10th |
| NASIRIYA | 18 | 340 | 1200 | 10th |
| BASRAH | 19 | 330 | 0900 | 1st |

TABLE - 16 OCTOBER 1966

تشرين الأول ١٩٦٤

## CLIMATOLOGICAL SUMMARY

الملخصات المناخية

NUMBER OF DAYS FOR THE CASES OF PHENOMENA

عدد الأيام التي حدثت فيها الظواهر الجوية

| STATIONS | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 |
| MOSUL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 26 | 0 |
| KIRKUK | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 | 1 | 0 | 0 | 29 | 0 |
| SHAHRAJIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 |
| RUTBAH | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 30 | 0 |
| HABBANIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 31 | 0 |
| BAGHDAD | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1 | 0 | 0 | 0 | 29 | 0 |
| MUKHAIR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| HAI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 30 | 0 |
| NAJAF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 30 | 0 |
| SUWAIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 31 | 0 |
| NASIRIYA | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 6 | 13 | 2 | 0 | 30 | 0 |
| BASRAH | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 5 | 0 | 0 | 30 | 0 |

TABLE - 17

[illegible] OF SUNSHINE

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING ONE DAY HOURS | MAX. SUNSHINE DURING ONE DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 328.6 | 11.3 | 7th | 0 |
| HABBANIYA | 326.4 | 11.1 | 6,7&8th | 0 |
| BAGHDAD | 301.0 | 10.4 | 1&8th. | 0 |
| BASRAH | 319.1 | 10.9 | 1,8&9th | 0 |

TABLE - 18.

المعدل الشهري لحرارة التربة و الحشيش (سنتغراد)

MONTHLY MEAN TEMPERATURE OF :

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE C° 0.3 M | EARTH TEMPERATURE C° 1.2 M. |
|---|---|---|---|
| MOSUL | .... | 18.1 | .... |
| KIRKUK | 12.0 | 22.9 | 26.8 |
| HABBANIYA | 10.6 | 25.9 | 28.7 |
| BAGHDAD | 6.9 | 24.4 | 27.2 |
| NAJAF | .... | 25.6 | 30.4 |
| NASIRIYA | 11.8 | 25.7 | 28.6 |
| BASRAH | 8.3 | .... | .... |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

مفتشية الانواء الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر تشرين الثاني ١٩٦٤

مجلد ٢٧ ، عدد ( ١١ ) ، تشرين الثاني ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR NOVEMBER 1964

VOLUME 27, No. ( 11 ) , NOVEMBER 1964

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| = = pressure at M.S.L. | 2a&b | 3-4 |
| = = relative humidity | 3 | 5 |
| = maximum and minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| = = vapour-pressure | 6 | 9 |
| = = wet-bulb temperature | 7 | 9 |
| = = dew-point | 8 | 9 |
| = = relative-humidity | 9 | 10 |
| = = pressure at M.S.L. | 10 | 10 |
| = = low-cloud-amount | 11 | 10 |
| = = total-cloud-amount | 12 | 10 |
| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest wind-speed during one hour | 14 | 13 |
| Daily precipitation | 15a-g | 14-20 |
| Climatological summary | 16 | 21 |
| Duration of sunshine | 17 | 21 |
| Monthly mean temperature of grass & earth | 18 | 21 |


GEOGRAPHICAL DATA AND NOTES ON TABLES SEE : JANUARY 1964 .

NOVEMBER 1964 .
TABLE 1-a.

تشرين الثاني ١٩٦٤ ( ١ )

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C° ) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 20.6 | 16.4 | 21.1 | 18.2 | 16.7 | 16.1 |
| 2 | 19.9 | 15.1 | 18.9 | 15.8 | 16.7 | 16.9 |
| 3 | 19.4 | 14.8 | 19.6 | 18.8 | 17.5 | 18.2 |
| 4 | 20.5 | 15.0 | 20.5 | 18.4 | 18.1 | 20.7 |
| 5 | 20.7 | 18.6 | 19.3 | 17.0 | 20.7 | 21.1 |
| 6 | 20.3 | 14.4 | 19.5 | 15.1 | 18.1 | 20.2 |
| 7 | 19.3 | 16.5 | 19.8 | 16.1 | 17.3 | 18.8 |
| 8 | 19.3 | 17.0 | 19.7 | 14.7 | 17.7 | 20.1 |
| 9 | 19.4 | 17.1 | 19.4 | 15.5 | 17.5 | 18.8 |
| 10 | 20.8 | 16.6 | 18.9 | 15.6 | 18.3 | 19.3 |
| 11 | 21.2 | 15.9 | 18.9 | 14.9 | 18.1 | 18.5 |
| 12 | 22.3 | 15.6 | 20.4 | 14.9 | 18.0 | 17.9 |
| 13 | 21.5 | 14.9 | 20.5 | 17.8 | 17.6 | 17.8 |
| 14 | 20.2 | 15.8 | 20.4 | 17.9 | 16.6 | 18.0 |
| 15 | 19.0 | 15.7 | 19.2 | 19.2 | 16.9 | 17.8 |
| 16 | 18.7 | 14.4 | 18.9 | 19.2 | 16.9 | 17.5 |
| 17 | 17.6 | 12.9 | 18.2 | 17.7 | 17.5 | 18.2 |
| 18 | 16.3 | 13.9 | 18.7 | 14.8 | 17.0 | 17.5 |
| 19 | 15.0 | 14.0 | 16.2 | 10.5 | 14.7 | 15.8 |
| 20 | 12.6 | 14.9 | 16.9 | 14.2 | 18.9 | 18.8 |
| 21 | 11.4 | 13.7 | 16.3 | 12.6 | 17.3 | 17.8 |
| 22 | 11.3 | 12.6 | 12.8 | 11.8 | 15.2 | 15.3 |
| 23 | 11.9 | 12.5 | 13.5 | 10.7 | 14.0 | 14.0 |
| 24 | 8.8 | 11.5 | 14.0 | 11.8 | 15.3 | 15.1 |
| 25 | 6.5 | 8.3 | 9.8 | 11.1 | 12.7 | 13.1 |
| 26 | 7.8 | 7.5 | 9.6 | 12.0 | 14.5 | 14.5 |
| 27 | 5.9 | 7.5 | 6.8 | 7.4 | 12.1 | 13.8 |
| 28 | 7.9 | 5.4 | 4.7 | 5.4 | 6.4 | 6.0 |
| 29 | 6.7 | 5.6 | 6.8 | 4.3 | 6.7 | 7.0 |
| 30 | 9.1 | 6.7 | 11.2 | 7.6 | 8.5 | 8.2 |
| MEANS | 15.7 | 13.4 | 16.4 | 14.0 | 15.8 | 16.4 |
| DEPARTURE FROM NORMAL | .... | +0.3 | -0.1 | +0.2 | -1.0 | -0.5 |

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

T I M E - G. M. T.

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

NOVEMBER 1964.
TABLE 1-b.

( 2 ) تشرين الثاني ١٩٦٤

المعدل اليومي لدرجات الحرارة ( ..نتغـــــراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 19.7 | 19.4 | 18.1 | 18.4 | 20.2 | 20.[illegible] |
| 2 | 20.4 | 19.7 | 19.4 | 18.4 | 19.3 | 17.[illegible] |
| 3 | 22.2 | 18.9 | 20.3 | 19.8 | 19.7 | 1[illegible].1 |
| 4 | 23.5 | 19.8 | 21.3 | 24.1 | 21.1 | [illegible].0 |
| 5 | 24.6 | 22.5 | 22.4 | 22.9 | 22.3 | [illegible]3.0 |
| 6 | 22.6 | 20.9 | 18.7 | 19.7 | 21.6 | 22.0 |
| 7 | 22.6 | 20.3 | 19.1 | 19.7 | 21.6 | 21.2 |
| 8 | 23.5 | 20.9 | 20.7 | 21.5 | 21.2 | 21.6 |
| 9 | 22.3 | 22.6 | 20.4 | 20.2 | 21.4 | 21.7 |
| 10 | 22.5 | 20.8 | 19.6 | 20.3 | 20.5 | 20.[illegible] |
| 11 | 22.6 | 21.4 | 20.4 | 19.5 | 20.[illegible] | 20.6 |
| 12 | 23.0 | 20.5 | 20.1 | 19.1 | 19.7 | 19.0 |
| 13 | 23.1 | 18.0 | 19.3 | 19.2 | 18.7 | 17.8 |
| 14 | 22.5 | 18.0 | 19.0 | 17.9 | 18.2 | 18.0 |
| 15 | 22.8 | 17.9 | 19.4 | 16.9 | 18.2 | 18.7 |
| 16 | 21.4 | 16.7 | 19.0 | 18.3 | 17.7 | 17.9 |
| 17 | 21.1 | 17.4 | 19.2 | 17.9 | 18.2 | 17.6 |
| 18 | 20.6 | 19.3 | 18.2 | 18.8 | 20.5 | 20.0 |
| 19 | 17.5 | 17.0 | 15.1 | 16.0 | 19.8 | 21.4 |
| 20 | 18.6 | 20.4 | 16.2 | 18.1 | 21.8 | 22.9 |
| 21 | 17.6 | 20.7 | 17.0 | 17.8 | 20.9 | 24.0 |
| 22 | 16.3 | 17.1 | 15.4 | 15.4 | 18.0 | 21.5 |
| 23 | 15.2 | 15.2 | 14.5 | 13.9 | 14.9 | 16.7 |
| 24 | 16.9 | 17.0 | 16.0 | 16.2 | 17.8 | 19.2 |
| 25 | 14.2 | 15.7 | 14.4 | 15.2 | 15.7 | 16.8 |
| 26 | 15.8 | 14.8 | 14.9 | 15.1 | 15.5 | 16.1 |
| 27 | 11.7 | 13.9 | 12.4 | 13.8 | 14.1 | 15.2 |
| 28 | 11.1 | 9.1 | 8.6 | 8.1 | 7.5 | 11.5 |
| 29 | 14.6 | 8.7 | 8.0 | 8.4 | 8.2 | 9.6 |
| 30 | 12.8 | 10.2 | 8.9 | 9.4 | 10.0 | 9.1 |
| MEANS | 19.4 | 17.8 | 17.2 | 17.3 | 18.2 | 18.8 |
| DEPARTURE FROM NORMAL | .... | -0.1 | .... | -0.3 | -0.6 | -0.5 |

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

NOVEMBER 1964 — تشرين الثاني ١٩٦٤

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

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

| الايام DATE | سنجار SINJAR | موصل MOSUL | كركوك KIRKUK | رطبة RUTBAH | حبانية HABBANIYA | بغداد BAGHDAD |
|---|---|---|---|---|---|---|
| 1 | 1021.6 | 1022.1 | 1020.2 | 1021.3 | 1020.8 | 1020.6 |
| 2 | 20.9 | 21.9 | 21.0 | 19.4 | 20.6 | 20.9 |
| 3 | 19.1 | 20.1 | 18.9 | 16.7 | 18.1 | 18.4 |
| 4 | 15.3 | 17.1 | 15.9 | 14.3 | 14.6 | 14.7 |
| 5 | 16.1 | 16.9 | 16.5 | 14.1 | 14.3 | 14.8 |
| 6 | 18.3 | 18.6 | 17.6 | 17.9 | 15.6 | 16.7 |
| 7 | 18.7 | 19.3 | 18.7 | 18.4 | 18.6 | 18.6 |
| 8 | 20.3 | 21.0 | 20.5 | 19.7 | 19.9 | 20.0 |
| 9 | 21.4 | 22.2 | 21.2 | 21.4 | 20.8 | 20.9 |
| 10 | 21.1 | 22.4 | 21.4 | 22.1 | 22.4 | 20.3 |
| 11 | 20.9 | 21.6 | 20.4 | 22.8 | 20.8 | 19.0 |
| 12 | 19.7 | 21.1 | 19.1 | 21.5 | 19.2 | 18.5 |
| 13 | 19.0 | 20.2 | 18.6 | 18.9 | 18.3 | 18.4 |
| 14 | 18.2 | 19.3 | 18.4 | 16.9 | 17.8 | 16.3 |
| 15 | 19.6 | 20.5 | 20.0 | 19.0 | 18.8 | 18.2 |
| 16 | 20.3 | 20.9 | 19.9 | 15.2 | 18.9 | 18.1 |
| 17 | 18.6 | 19.1 | 18.3 | 14.2 | 16.6 | 17.8 |
| 18 | 14.4 | 15.9 | 15.3 | 14.5 | 14.3 | 15.1 |
| 19 | 15.2 | 16.3 | 16.1 | 14.4 | 14.3 | 15.1 |
| 20 | 11.7 | 12.0 | 12.2 | 10.0 | 10.6 | 18.4 |
| 21 | 08.9 | 09.9 | 10.2 | 09.0 | 09.9 | 10.3 |
| 22 | 11.3 | 12.3 | 13.0 | 12.6 | 12.5 | 12.9 |
| 23 | 15.9 | 16.1 | 16.4 | 15.6 | 16.9 | 16.4 |
| 24 | 13.8 | 14.7 | 14.8 | 14.0 | 13.7 | 14.6 |
| 25 | 15.1 | 15.6 | 15.7 | 15.9 | 16.3 | 16.4 |
| 26 | 15.9 | 15.6 | 16.0 | 14.7 | 15.5 | 16.2 |
| 27 | 11.7 | 10.1 | 11.2 | 15.0 | 14.0 | 13.8 |
| 28 | 23.6 | 24.8 | 24.0 | 24.9 | 24.4 | 24.4 |
| 29 | 27.2 | 27.5 | 25.7 | 26.1 | 25.9 | 25.5 |
| 30 | 25.4 | 25.8 | 23.4 | 25.5 | 24.2 | 23.8 |
| MEANS | 1017.7 | 1018.7 | 1018.0 | 1017.4 | 1017.6 | 1017.9 |
| DEPARTURE FROM NORMAL | .... | +0.2 | +0.5 | -1.1 | +0.2 | +0.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1028.5 | 29th | 0600 | 1964 | 1008.3 | 21st | 1200 | 1964 | 1964 |
| MOSUL | 1029.1 | 29th | 0600 | 1964 | 1005.0 | 27th | 0300 | 1964 | |
| KIRKUK | 1026.8 | 28th | 2100 | 1964 | 1006.1 | 27th | 0300 | 1964 | |
| RUTBAH | 1027.5 | 29th | 0600 | 1964 | 1007.4 | 21st | 0000 | 1964 | |
| HABBANIYA | 1027.3 | 29th | 0600 | 1964 | 1007.7 | 20th | 2100 | 1964 | |
| BAGHDAD | 1027.2 | 29th | 0600 | 1964 | 1008.0 | 27th | 0300 | 1964 | |
| SINJAR | 1028.5 | 29th | 0600 | 1964 | 1008.3 | 21st | 1200 | 1964 | RECORD |
| MOSUL | 1034.5 | 22nd | 0600 | 1958 | 1004.3 | 7th | 1200 | 1944 | |
| KIRKUK | 1031.1 | 30th | 0600 | 1953 | 1005.8 | 22nd | 0000 | 1961 | |
| RUTBAH | 1034.7 | 30th | 0600 | 1953 | 1004.0 | 7th | 1300 | 1938 | |
| BAGHDAD | 1029.9 | 25th | 0600 | 1961 | 1006.1 | 7th | 1200 | 1938 | |

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TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1018.7 | 1019.5 | 1020.0 | 1020.6 | 1019.6 | 1019.3 |
| 2 | 16.5 | 19.3 | 20.4 | 20.6 | 19.7 | 19.6 |
| 3 | 12.5 | 17.3 | 17.4 | 17.9 | 17.5 | 18.0 |
| 4 | 13.8 | 14.8 | 13.9 | 14.4 | 14.0 | 15.6 |
| 5 | 13.4 | 14.0 | 13.9 | 14.2 | 12.9 | 13.9 |
| 6 | 16.6 | 15.9 | 15.7 | 16.3 | 15.8 | 15.6 |
| 7 | 18.0 | 17.8 | 17.7 | 18.7 | 17.8 | 17.9 |
| 8 | 18.8 | 19.0 | 19.1 | 19.6 | 18.9 | 18.9 |
| 9 | 20.3 | 19.3 | 19.7 | 20.2 | 19.3 | 19.1 |
| 10 | 21.7 | 19.3 | 20.4 | 20.9 | 19.5 | 19.2 |
| 11 | 21.8 | 18.3 | 21.5 | 20.2 | 18.7 | 18.2 |
| 12 | 20.2 | 16.2 | 18.6 | 18.5 | 17.5 | 17.2 |
| 13 | 19.1 | 17.3 | 17.6 | 18.3 | 17.6 | 17.9 |
| 14 | 17.5 | 17.6 | 17.6 | 18.1 | 17.7 | 18.3 |
| 15 | 18.0 | 18.9 | 18.2 | 19.3 | 18.8 | 19.3 |
| 16 | 17.8 | 17.8 | 17.8 | 18.9 | 18.6 | 18.8 |
| 17 | 15.2 | 18.0 | 16.3 | 17.3 | 17.4 | 18.4 |
| 18 | 14.7 | 15.5 | 14.3 | 15.0 | 15.1 | 16.9 |
| 19 | 13.5 | 15.8 | 14.6 | 14.9 | 14.9 | 16.4 |
| 20 | 11.9 | 11.8 | 11.3 | 11.7 | 11.6 | 15.0 |
| 21 | 12.3 | 10.7 | 10.2 | 11.0 | 10.7 | 12.0 |
| 22 | 12.8 | 11.3 | 11.9 | 12.5 | 11.4 | 11.4 |
| 23 | 16.8 | 15.5 | 16.4 | 16.9 | 16.5 | 16.9 |
| 24 | 12.7 | 15.1 | 14.3 | 14.9 | 14.5 | 15.7 |
| 25 | 17.1 | 15.0 | 15.4 | 16.7 | 15.9 | 16.0 |
| 26 | 16.5 | 16.3 | 15.8 | 16.3 | 16.2 | 17.9 |
| 27 | 16.1 | 13.3 | 14.6 | 14.9 | 14.8 | 15.6 |
| 28 | 23.9 | 22.8 | 22.8 | 24.3 | 23.4 | 22.8 |
| 29 | 24.2 | 23.2 | 24.4 | 25.1 | 23.6 | 22.9 |
| 30 | 23.5 | 21.8 | 24.0 | 23.9 | 23.5 | 22.3 |
| MEANS | 1017.2 | 1016.9 | 1017.2 | 1017.7 | 1017.1 | 1017.6 |
| DEPARTURE FROM NORMAL | .... | -0.2 | .... | +1.0 | +0.4 | +1.0 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1026.2 | 29th | 0600 | 1964 | 1009.2 | 20th | 1500 | 1964 | THIS YEAR |
| HAI | 1024.7 | 29th | 0600 | 1964 | 1008.9 | 20th | 1500 | 1964 | |
| NAJAF | 1025.1 | 29th | 0600 | 1964 | 1008.7 | 20th | 2100 | 1964 | |
| DIWANIYA | 1026.8 | 29th | 0600 | 1964 | 1008.7 | 21st | 0000 | 1964 | |
| NASIRIYA | 1025.4 | 29th | 0600 | 1964 | 1009.4 | 20th | 1500 | 1964 | |
| BASRAH | 1024.7 | 29th | 0600 | 1964 | 1009.7 | 20th | 1200 | 1964 | |
| NUKHAIB | 1026.2 | 29th | 0600 | 1964 | 1009.2 | 20th | 1500 | 1964 | RECORD |
| HAI | 1028.2 | 30th | 0600 | 1953 | 1004.9 | 17th | 1200 | 1957 | |
| NAJAF | 1025.1 | 29th | 0600 | 1964 | 1004.2 | 2nd | 1500 | 1963 | |
| DIWANIYA | 1030.0 | 29th | 1800 | 1953 | 1004.5 | 7th | 1200 | 1957 | |
| NASIRIYA | 1028.6 | 30th | 0600 | 1961 | 1006.2 | 7th | 1200 | 1944 | |
| BASRAH | 1028.2 | 30th | 0600 | 1961 | 1004.9 | 26th | 1300 | 1939 | |

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TABLE - 3 .

( 9 ) تشرين الثاني ١٩٦٤

المعدل اليومي للرطوبة النسبية ( ٪ )

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 8 OBSERVATIONS

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

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 98 | 0300 | 20th | 5 | 0900 | 11th |
| MOSUL | 100 | 1800 | 19th | 20 | 1200 | 5th |
| KIRKUK | 99 | 0300 | 27th | 12 | 0900 | 14th |
| RUTBAH | 99 | 0300 | 27th | 7 | 1200 | 2nd |
| HABBANIYA | 94 | 0300 | 20th | 22 | 1200 | 14th |
| BAGHDAD | 93 | 0300 | 11th | 12 | 1200 | 2nd |
| NUKHAIB | 82 | 0600 | 19th | 11 | 1500 | 17th |
| HAI | 88 | 0300 | 21st | 14 | 0900 | 5th |
| NAJAF | 100 | 0600 | 20th | 14 | 1200 | 2nd |
| DIWANIYA | 98 | 2100 | 19th | 17 | 1200 | 2nd |
| NASIRIYA | 85 | 0300 | 20th | 11 | 1200 | 1st |
| BASRAH | 98 | 0300 | 19th | 26 | 1200 | 4th |

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TABLE 4-a.

DAILY MAXIMUM AND MINIMUM TEMPERATURES

| DATE | SINJAR MAX. | SINJAR MIN. | MOSUL MAX. | MOSUL MIN. | KIRKUK MAX. | KIRKUK MIN. | KHANAQIN MAX. | KHANAQIN MIN. | RUTBAH MAX. | RUTBAH MIN. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 24.0 | 15.8 | 26.4 | 7.7 | 29.0 | 15.0 | 28.3 | [illegible] | [illegible] | [illegible] |
| 2 | 24.8 | 13.6 | 28.1 | 7.6 | 27.0 | 10.5 | 27.8 | [illegible] | [illegible] | [illegible] |
| 3 | 24.6 | 13.2 | 27.8 | 5.1 | 28.4 | 12.9 | 28.3 | [illegible] | [illegible] | [illegible] |
| 4 | 25.0 | 13.6 | 27.8 | 6.9 | 30.4 | 13.6 | 30.0 | [illegible] | [illegible] | [illegible] |
| 5 | 24.5 | 16.0 | 29.0 | 6.2 | 29.0 | 15.0 | 24.4 | [illegible] | [illegible] | 10.0 |
| 6 | 24.8 | 13.2 | 27.7 | 8.9 | 26.6 | 11.8 | 28.3 | 10.0 | [illegible] | [illegible] |
| 7 | 21.6 | 15.2 | 27.7 | 8.3 | 27.0 | 13.0 | 28.3 | [illegible] | [illegible] | [illegible] |
| 8 | 22.6 | 15.0 | 26.1 | 9.2 | 26.1 | 13.6 | 27.8 | [illegible] | [illegible] | [illegible] |
| 9 | 23.5 | 14.4 | 26.8 | 8.6 | 26.8 | 13.4 | 27.2 | [illegible] | [illegible] | [illegible] |
| 10 | 25.1 | 14.8 | 25.8 | 8.7 | 25.0 | 12.3 | 27.2 | [illegible] | [illegible] | [illegible] |
| 11 | 24.3 | 16.4 | 27.2 | 7.2 | 26.8 | 11.0 | 27.2 | [illegible] | [illegible] | [illegible] |
| 12 | 26.4 | 15.2 | 25.8 | 7.2 | 28.0 | 13.0 | 28.3 | [illegible] | [illegible] | [illegible] |
| 13 | 27.0 | 16.2 | 27.3 | 6.8 | 28.4 | 14.4 | 30.0 | [illegible] | [illegible] | [illegible] |
| 14 | 25.7 | 14.2 | 28.6 | 5.4 | 28.2 | 13.6 | 24.4 | [illegible] | [illegible] | [illegible] |
| 15 | 23.5 | 14.0 | 25.3 | 6.8 | 26.4 | 14.0 | 28.9 | [illegible] | [illegible] | [illegible] |
| 16 | 23.4 | 13.0 | 25.0 | 7.4 | 27.4 | 13.4 | 26.1 | 8.3 | 25.6 | 12.0 |
| 17 | 19.5 | 13.2 | 25.2 | 6.8 | 24.8 | 11.2 | 26.1 | 8.3 | 23.6 | 12.7 |
| 18 | 21.0 | 13.1 | 22.7 | 6.7 | 23.6 | 14.2 | 28.3 | 10.0 | 21.6 | [illegible] |
| 19 | 18.3 | 11.8 | 22.8 | 6.3 | 22.2 | 12.1 | 23.3 | 12.2 | 15.4 | 6.6 |
| 20 | 13.6 | 10.4 | 22.7 | 13.2 | 20.5 | 12.8 | 25.6 | 14.4 | 22.0 | 4.7 |
| 21 | 13.2 | 9.0 | 17.1 | 11.8 | 20.3 | 13.4 | 22.8 | 17.2 | 18.0 | [illegible] |
| 22 | 14.5 | 8.4 | 16.8 | 10.2 | 15.7 | 9.9 | 16.1 | [illegible] | 18.0 | [illegible] |
| 23 | 15.1 | 9.0 | 18.1 | 9.8 | 17.6 | 10.8 | 21.7 | [illegible] | 17.5 | [illegible] |
| 24 | 10.4 | 7.2 | 15.2 | 6.8 | 16.6 | 10.6 | 20.6 | [illegible] | 18.0 | [illegible] |
| 25 | 10.0 | 1.2 | 11.8 | 6.4 | 13.6 | 7.6 | 18.3 | [illegible] | 14.0 | [illegible] |
| 26 | 11.2 | 2.6 | 12.3 | 1.2 | 13.7 | 4.9 | 16.7 | 7.2 | 17.2 | 7.9 |
| 27 | 8.5 | 2.0 | 12.3 | 5.8 | 10.3 | 5.6 | 12.8 | 8.3 | 10.0 | 4.6 |
| 28 | 12.0 | 3.1 | 12.2 | 0.6 | 9.1 | -0.2 | 12.8 | 0.5 | 12.6 | -0.7 |
| 29 | 11.8 | 1.6 | 11.5 | 0.8 | 11.6 | 2.0 | 14.4 | -1.1 | 16.0 | -2.5 |
| 30 | 16.0 | 0.0 | 14.7 | 0.7 | 19.6 | 2.8 | 22.2 | 2.2 | 19.0 | -1.8 |
| MEANS | 19.7 | 10.9 | 22.3 | 6.8 | 22.6 | 10.9 | 24.3 | 9.0 | 22.3 | 7.9 |
| DEPARTURE FROM NORMAL | .... | .... | +0.1 | 0.0 | 0.0 | -0.3 | -0.2 | -1.7 | +1.0 | -0.4 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| SINJAR | 30.2 | 1st | 1962 | 0.0 | 30th | 1964 |
| MOSUL | 35.0 | ? | 1932 | -4.4 | 24th | 1958 |
| KIRKUK | 32.8 | 1st | 1944 | -2.0 | 30th | 1953 |
| KHANAQIN | 35.0 | 7th | 1940 | -1.1 | 29th | 1964 |
| RUTBAH | 35.0 | 2nd | 1932 | -6.0 | 30th | 1953 |

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TABLE 4-b.

تشرين الثاني ١٩٦٤ ( 7 )

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATUREA ( C° )

| | حبانية | | بغداد | | نخيب | | حي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 27.8 | 9.2 | 27.4 | 5.7 | 25.4 | 10.2 | 28.0 | 11.6 |
| 2 | 28.6 | 8.0 | 27.9 | 6.2 | 26.3 | 10.8 | 29.8 | 8.5 |
| 3 | 30.3 | 7.6 | 29.0 | 7.2 | 28.5 | 9.9 | 30.8 | 8.4 |
| 4 | 29.9 | 9.0 | 29.3 | 12.0 | 29.5 | 10.5 | 30.2 | 9.8 |
| 5 | 29.2 | 14.5 | 29.0 | 11.8 | 29.2 | 15.7 | 29.2 | 15.4 |
| 6 | 27.1 | 12.3 | 28.5 | 13.3 | 26.5 | 13.9 | 26.0 | 17.0 |
| 7 | 27.2 | 10.3 | 28.3 | 8.7 | 26.8 | 13.6 | 29.6 | 12.4 |
| 8 | 28.2 | 10.6 | 29.1 | 11.6 | 28.0 | 10.0 | 30.3 | 11.2 |
| 9 | 27.4 | 10.0 | 28.2 | 10.7 | 27.0 | 9.7 | 31.0 | 15.0 |
| 10 | 27.1 | 11.1 | 27.8 | 10.5 | 26.4 | 9.6 | 29.0 | 11.4 |
| 11 | 27.0 | 10.6 | 27.0 | 9.6 | 26.8 | 9.9 | 29.8 | 14.8 |
| 12 | 26.3 | 11.6 | 27.2 | 10.6 | 27.4 | 10.1 | 29.0 | 11.4 |
| 13 | 28.2 | 10.0 | 28.3 | 9.2 | 27.9 | 9.3 | 30.2 | 9.8 |
| 14 | 27.0 | 8.3 | 28.7 | 7.7 | 28.0 | 6.9 | 30.2 | 7.2 |
| 15 | 28.8 | 8.6 | 27.8 | 9.4 | 27.9 | 7.0 | 30.0 | 8.4 |
| 16 | 27.2 | 7.2 | 28.1 | 8.7 | 29.4 | 8.2 | 28.3 | 7.2 |
| 17 | 26.9 | 9.2 | 26.9 | 9.5 | 27.2 | 9.0 | 27.6 | 7.8 |
| 18 | 25.4 | 13.1 | 24.0 | 14.4 | 24.9 | 10.7 | 27.6 | 10.7 |
| 19 | 21.9 | 10.6 | 20.2 | 8.5 | 21.6 | 8.5 | 21.0 | 14.2 |
| 20 | 26.3 | 11.7 | 25.1 | 12.6 | 23.6 | 6.0 | 27.1 | 14.8 |
| 21 | 21.8 | 12.8 | 23.2 | 13.3 | 20.9 | 7.5 | 27.0 | 17.9 |
| 22 | 20.3 | 12.8 | 20.8 | 11.6 | 19.5 | 8.6 | 21.8 | 12.0 |
| 23 | 21.3 | 8.2 | 21.1 | 7.3 | 19.0 | 5.0 | 23.8 | 8.2 |
| 24 | 23.4 | 9.5 | 22.3 | 7.8 | 20.4 | 6.9 | 23.0 | 8.0 |
| 25 | 18.3 | 6.8 | 17.8 | 6.5 | 17.4 | 6.4 | 21.0 | 10.2 |
| 26 | 20.2 | 9.5 | 19.7 | 9.6 | 18.6 | 11.2 | 20.0 | 11.0 |
| 27 | 14.7 | 9.9 | 15.2 | 10.2 | 14.9 | 8.4 | 17.2 | 10.2 |
| 28 | 13.0 | 0.3 | 12.6 | -0.2 | 14.6 | 2.5 | 15.6 | 2.8 |
| 29 | 13.6 | -0.4 | 15.1 | -1.9 | 17.3 | -0.7 | 16.5 | 1.0 |
| 30 | 16.6 | 1.4 | 17.6 | 1.6 | 19.8 | 0.5 | 19.0 | 1.6 |
| MEANS | 24.4 | 9.1 | 24.1 | 9.1 | 24.0 | 11.9 | 26.0 | 10.3 |
| DEPARTURE FROM NORMAL | 0.0 | -1.0 | -0.4 | -1.5 | **** | **** | -0.2 | -1.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 35.0 | 1st | 1962 | -3.3 | 30th | 1953 |
| BAGHDAD | 34.8 | 1st | 1957 | -1.9 | 29th | 1964 |
| NUKHAIB | 30.4 | 1st | 1963 | -0.7 | 29th | 1964 |
| HAI | 37.2 | 3rd | 1949 | -0.6 | 24th | 1958 |

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TABLE 4-c.

درجات الحرارة العظمى و الصغرى اليومية ( منفرد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 27.8 | 11.3 | 27.4 | 9.6 | 29.3 | 12.5 | 30.5 | 14.4 |
| 2 | 27.6 | 10.2 | 29.5 | 7.5 | 29.4 | 10.0 | 27.8 | 9.9 |
| 3 | 29.9 | 11.5 | 30.8 | 8.1 | 29.4 | 8.8 | 28.8 | 9.5 |
| 4 | 29.7 | 12.6 | 31.5 | 12.3 | 29.5 | 12.6 | 31.5 | 12.5 |
| 5 | 29.4 | 15.2 | 29.5 | 19.1 | 29.3 | 18.3 | 31.3 | 15.4 |
| 6 | 25.5 | 12.2 | 26.4 | 16.3 | 27.9 | 15.1 | 29.4 | 15.6 |
| 7 | 27.7 | 11.4 | 30.0 | 10.2 | 30.0 | 14.5 | 28.0 | 15.0 |
| 8 | 28.2 | 13.2 | 31.0 | 13.6 | 30.1 | 12.8 | 29.6 | 14.7 |
| 9 | 28.5 | 12.4 | 31.0 | 11.9 | 30.0 | 12.8 | 31.0 | 15.2 |
| 10 | 27.3 | 10.7 | 28.6 | 12.7 | 29.1 | 12.5 | 29.2 | 13.8 |
| 11 | 26.8 | 12.4 | 28.5 | 13.0 | 28.7 | 13.7 | 28.2 | 13.2 |
| 12 | 27.5 | 13.2 | 28.0 | 12.0 | 29.0 | 11.9 | 27.9 | 12.4 |
| 13 | 28.4 | 10.5 | 28.8 | 10.7 | 29.1 | 10.2 | 28.3 | 10.1 |
| 14 | 28.3 | 11.2 | 29.7 | 8.2 | 28.8 | 10.3 | 28.4 | 8.8 |
| 15 | 28.0 | 9.2 | 27.2 | 8.3 | 27.9 | 9.5 | 29.2 | 10.4 |
| 16 | 26.7 | 8.5 | 29.3 | 8.2 | 27.9 | 8.7 | 28.0 | 9.8 |
| 17 | 27.4 | 10.6 | 28.9 | 8.0 | 26.3 | 8.7 | 29.0 | 9.0 |
| 18 | 26.2 | 10.2 | 27.4 | 12.4 | 27.2 | 15.0 | 29.8 | 11.1 |
| 19 | 19.5 | 11.8 | 21.5 | 12.8 | 22.5 | 16.0 | 29.0 | 13.4 |
| 20 | 24.0 | 8.6 | 25.0 | 11.2 | 27.8 | 16.1 | 28.4 | 17.2 |
| 21 | 23.0 | 9.8 | 24.3 | 14.1 | 26.9 | 19.0 | 30.4 | 17.8 |
| 22 | 21.2 | 10.0 | 24.5 | 8.7 | 23.3 | 14.1 | 27.2 | 18.5 |
| 23 | 20.8 | 8.5 | 23.8 | 7.2 | 22.7 | 7.4 | 24.0 | 10.2 |
| 24 | 22.5 | 8.5 | 24.0 | 7.9 | 23.0 | 10.8 | 27.9 | 10.0 |
| 25 | 22.1 | 9.0 | 21.2 | 8.6 | 20.6 | 11.1 | 22.3 | 11.9 |
| 26 | 20.1 | 9.0 | 21.6 | 12.5 | 21.4 | 11.7 | 23.1 | 12.4 |
| 27 | 16.5 | 8.6 | 17.5 | 10.3 | 18.4 | 8.4 | 21.8 | 9.1 |
| 28 | 13.2 | 3.5 | 15.7 | 2.0 | 15.3 | 5.6 | 16.6 | 7.1 |
| 29 | 14.6 | 0.2 | 16.3 | 0.0 | 16.0 | 0.7 | 16.3 | 1.0 |
| 30 | 16.2 | 1.2 | 18.0 | 2.7 | 18.5 | 2.6 | 17.7 | 2.7 |
| MEANS | 24.5 | 9.8 | 25.9 | 10.0 | 25.8 | 11.4 | 27.1 | 11.7 |
| DEPARTURE FROM NORMAL | .... | .... | +0.3 | +0.1 | -0.6 | -0.3 | +0.4 | -1.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 30.5 | 2nd | 1963 | 0.2 | 29th | 1964 |
| DIWANIYA | 36.1 | 4th | 1949 | -2.8 | 16th | 1948 |
| NASIRIYA | 36.7 | 1&2nd | 1942 | -1.6 | 24th | 1958 |
| BASRAH | 36.6 | 10th | 1939 | 1.0 | 29th | 1964 |

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TABLE 5 .

المعدل الشهري لدرجات الحرارة الجافة ( سنتغراد )

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 11.9 | 13.9 | 17.5 | 19.1 | 17.4 | 14.5 | [illegible] | 15.7 |
| MOSUL | 8.9 | 7.8 | 11.6 | 18.5 | 21.2 | 16.5 | 12.5 | [illegible] | [illegible] |
| KIRKUK | 13.0 | 12.4 | 16.4 | 21.3 | 21.5 | 17.8 | 14.8 | [illegible] | 16.3 |
| KHANAQIN | ... | 10.8 | 16.8 | 25.0 | 23.8 | 19.4 | 15.6 | [illegible] | 16.4 |
| RUTBAH | 9.6 | 8.0 | 12.5 | 19.9 | 21.7 | 17.7 | 13.2 | [illegible] | [illegible] |
| HABBANIYA | 11.3 | 10.0 | 14.5 | 22.1 | 23.8 | 17.7 | 14.3 | [illegible] | [illegible] |
| BAGHDAD | 11.9 | 10.7 | 15.2 | 22.0 | 24.0 | 19.3 | 14.8 | [illegible] | [illegible] |
| NUKHAIB | ... | ... | 13.2 | 20.8 | 23.4 | 20.1 | ... | [illegible] | [illegible] |
| HAI | 12.6 | 11.4 | 16.3 | 24.5 | 25.1 | 19.1 | 15.5 | [illegible] | [illegible] |
| NAJAF | 12.9 | 10.9 | 15.3 | 22.0 | 24.9 | 20.8 | 16.3 | 14.6 | [illegible] |
| DIWANIYA | 12.4 | 10.7 | 16.7 | 24.2 | 24.7 | 19.4 | 15.7 | [illegible] | 17.2 |
| NASIRIYA | 13.6 | 12.4 | 16.6 | 24.0 | 25.4 | 21.2 | 17.3 | 15.0 | [illegible] |
| BASRAH | 14.1 | 12.6 | 18.2 | 25.1 | 25.8 | 20.4 | 17.8 | 15.7 | [illegible] |

TABLE 6.

المعدل الشهري لضغط البخار ( ملليبار )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 5.9 | 6.8 | 6.8 | 6.3 | 6.4 | 6.3 | [illegible] | [illegible] |
| MOSUL | 8.3 | 7.7 | 8.9 | 9.5 | 10.2 | 10.2 | 9.0 | 8.3 | [illegible] |
| KIRKUK | 7.5 | 7.3 | 8.1 | 7.5 | 7.2 | 8.3 | 7.7 | 7.3 | [illegible] |
| KHANAQIN | ... | 6.8 | 7.8 | 8.4 | 8.7 | 7.9 | 7.4 | [illegible] | 7.6 |
| RUTBAH | 5.4 | 5.3 | 5.9 | 6.1 | 5.9 | 5.9 | 5.7 | 5.5 | 5.7 |
| HABBANIYA | 8.8 | 8.5 | 9.6 | 12.4 | 10.0 | 10.9 | 9.5 | 9.0 | [illegible] |
| BAGHDAD | 8.6 | 8.2 | 9.2 | 10.2 | 10.1 | 10.5 | 9.9 | 9.2 | [illegible] |
| NUKHAIB | ... | ... | 6.6 | 6.5 | 6.4 | 6.7 | ... | [illegible] | [illegible] |
| HAI | 8.8 | 8.5 | 9.8 | 10.4 | 10.2 | 10.4 | 9.3 | [illegible] | 9.7 |
| NAJAF | 6.8 | 6.6 | 7.5 | 8.7 | 8.7 | 8.8 | 8.2 | 7.4 | [illegible] |
| DIWANIYA | 8.9 | 8.6 | 10.5 | 10.8 | 10.3 | 10.6 | 9.7 | 9.2 | [illegible] |
| NASIRIYA | 8.6 | 8.5 | 9.2 | 9.4 | 8.8 | 9.9 | 9.7 | 9.0 | 9.1 |
| BASRAH | 11.9 | 11.2 | 13.0 | 13.5 | 13.2 | 14.3 | 14.4 | 13.7 | 13.2 |

TABLE 7 .

المعدل الشهري لدرجات الحرارة الرطبة ( سنتغراد )

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 6.8 | 8.3 | 10.2 | 10.8 | 9.9 | 8.4 | ... | 9.1 |
| MOSUL | 6.8 | 5.8 | 8.4 | 13.2 | 13.6 | 11.6 | 8.4 | 7.5 | 9.3 |
| KIRKUK | 8.3 | 7.9 | 10.4 | 12.9 | 13.2 | 11.1 | 9.4 | 8.5 | 10.2 |
| KHANAQIN | ... | 6.7 | 10.4 | 13.6 | 14.1 | 11.7 | 9.7 | ... | 10.3 |
| RUTBAH | 5.2 | 4.1 | 6.9 | 11.0 | 11.6 | 9.8 | 7.4 | 6.0 | 7.8 |
| HABBANIYA | 8.0 | 7.5 | 10.4 | 14.2 | 14.8 | 12.6 | 10.4 | 9.1 | 10.9 |
| BAGHDAD | 8.5 | 7.7 | 10.5 | 14.2 | 15.0 | 13.1 | 10.7 | 9.3 | 11.0 |
| NUKHAIB | ... | ... | 8.0 | 11.6 | 12.7 | 11.7 | ... | ... | 11.0 |
| HAI | 8.9 | 8.1 | 11.4 | 15.4 | 15.7 | 13.1 | 10.8 | ... | 11.9 |
| NAJAF | 8.0 | 6.5 | 9.6 | 13.4 | 14.2 | 13.0 | 11.0 | 11.8 | 10.9 |
| DIWANIYA | 8.9 | 7.8 | 11.9 | 15.4 | 15.6 | 13.2 | 11.0 | 9.9 | [illegible] |
| NASIRIYA | 9.3 | 8.7 | 11.2 | 14.6 | 15.0 | 13.7 | 11.9 | 10.3 | 11.8 |
| BASRAH | 11.5 | 10.3 | 14.0 | 17.1 | 17.3 | 15.6 | 14.6 | 13.3 | 14.2 |

TABLE 8 .

المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 01.4 | 0.6 | 0.7 | 0.4 | 0.7 | -0.5 | ... | 0.1 |
| MOSUL | 3.8 | 2.9 | 3.8 | 5.9 | 6.0 | 7.4 | 5.8 | 4.4 | 5.0 |
| KIRKUK | 2.1 | 1.8 | 3.3 | 2.2 | 1.7 | 3.7 | 2.5 | 1.7 | 2.4 |
| KHANAQIN | ... | 1.9 | 3.3 | 4.3 | 4.8 | 3.3 | 2.6 | ... | 3.4 |
| RUTBAH | -2.7 | -3.1 | -2.7 | -0.7 | -1.3 | -1.3 | -1.7 | -2.3 | -2.0 |
| HABBANIYA | 4.8 | 4.3 | 6.0 | 6.8 | 6.4 | 7.8 | 6.1 | 5.0 | 5.9 |
| BAGHDAD | 4.6 | 3.7 | 5.7 | 6.7 | 6.5 | 7.3 | 5.7 | 5.3 | 5.7 |
| NUKHAIB | ... | ... | 0.5 | -0.1 | -0.3 | 0.0 | ... | ... | 0.0 |
| HAI | 4.4 | 4.2 | 5.9 | 6.9 | 7.2 | 7.1 | 5.5 | ... | 5.9 |
| NAJAF | 1.4 | 0.4 | 2.5 | 3.7 | 4.5 | 4.8 | 3.8 | 3.6 | 3.1 |
| DIWANIYA | 4.9 | 4.6 | 7.1 | 7.3 | 6.6 | 7.2 | 5.9 | 5.9 | 6.1 |
| NASIRIYA | 4.0 | 4.0 | 5.0 | 5.2 | 4.6 | 6.3 | 6.0 | 4.7 | 5.0 |
| BASRAH | 9.0 | 10.3 | 10.2 | 10.8 | 10.7 | 11.8 | 11.8 | 11.1 | 10.7 |

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TABLE -9. — المعدل الشهري للرطوبة النسبية ( ٪ )

MONTHLY MEAN RELATIVE HUMIDITY ( % )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | T I M E - G . M . T . | | | | | | | | |
| SINJAR | ... | 45 | 47 | 39 | 34 | 37 | 42 | ... | 41 |
| MOSUL | 72 | 73 | 62 | 48 | 47 | 53 | 59 | 70 | 61 |
| KIRKUK | 52 | 53 | 47 | 33 | 31 | 44 | 48 | 49 | 45 |
| KHANAQIN | ... | 52 | 42 | 31 | 30 | 36 | 45 | ... | 39 |
| RUTBAH | 43 | 50 | 40 | 28 | 25 | 31 | 40 | 45 | 38 |
| HABBANIYA | 55 | 69 | 58 | 39 | 34 | 53 | 59 | 61 | 55 |
| BAGHDAD | 62 | 64 | 53 | 40 | 35 | 47 | 54 | 60 | 52 |
| NUKHAIB | ... | ... | 44 | 27 | 23 | 29 | ... | ... | 31 |
| HAI | 56 | 63 | 50 | 35 | 34 | 47 | 42 | ... | 48 |
| NAJAF | 47 | 51 | 45 | 34 | 30 | 40 | 43 | 47 | 42 |
| DIWANIYA | 62 | 63 | 55 | 36 | 33 | 47 | 54 | 59 | 51 |
| NASIRIYA | 54 | 58 | 47 | 32 | 27 | 39 | 48 | 51 | 45 |
| BASRAH | 72 | 74 | 60 | 42 | 40 | 59 | 59 | 75 | 61 |

TABLE -10. — المعدل الشهري للضغط الجوي على سطح البحر ( بالملي بار )

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

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 17.4 | 18.5 | 18.2 | 16.8 | 16.8 | 18.2 | ... | 1017.6 |
| MOSUL | 18.8 | 19.3 | 19.6 | 18.9 | 17.2 | 17.6 | 18.6 | 19.1 | 1018.6 |
| KIRKUK | 18.1 | 18.3 | 19.0 | 17.9 | 16.7 | 17.5 | 18.3 | 18.3 | 1018.0 |
| KHANAQIN | ... | 19.1 | 19.0 | 17.0 | 15.8 | 17.0 | 18.2 | ... | 1017.7 |
| RUTBAH | 17.2 | 18.1 | 18.9 | 17.6 | 16.3 | 17.0 | 17.8 | 17.4 | 1017.5 |
| HABBANIYA | 17.3 | 17.7 | 19.0 | 18.0 | 16.6 | 16.9 | 17.5 | 18.3 | 1017.7 |
| BAGHDAD | 17.5 | 17.9 | 19.2 | 18.4 | 17.0 | 17.1 | 17.8 | 17.9 | 1017.9 |
| NUKHAIB | ... | ... | 19.1 | 17.5 | 15.8 | 16.2 | ... | ... | 1017.2 |
| HAI | 16.6 | 17.1 | 18.3 | 17.7 | 16.1 | 16.3 | 17.9 | ... | 1017.0 |
| NAJAF | 16.8 | 17.3 | 18.5 | 17.2 | 16.2 | 16.4 | 17.1 | 17.2 | 1017.1 |
| DIWANIYA | 17.1 | 17.8 | 19.1 | 18.2 | 16.7 | 17.3 | 17.8 | 17.8 | 1017.7 |
| NASIRIYA | 16.7 | 17.3 | 18.5 | 17.6 | 16.0 | 16.3 | 17.1 | 17.1 | 1017.1 |
| BASRAH | 17.2 | 17.6 | 18.9 | 17.8 | 16.5 | 16.8 | 17.4 | 17.5 | 1017.5 |

TABLE -11. — المعدل الشهري لكمية الغيوم الواطئة ( بالأكتا )

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 0.9 | 0.9 | 1.2 | 1.5 | 0.9 | 0.9 | ... | 1.1 |
| MOSUL | 1.6 | 1.9 | 2.5 | 1.3 | 2.2 | 1.7 | 1.6 | 1.8 | 1.8 |
| KIRKUK | 1.4 | 1.6 | 1.6 | 1.2 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 |
| KHANAQIN | ... | 2.2 | 2.1 | 2.4 | 2.2 | 2.1 | 1.2 | ... | 2.0 |
| RUTBAH | 1.0 | 0.9 | 0.7 | 0.9 | 1.4 | 0.9 | 0.6 | 0.5 | 0.9 |
| HABBANIYA | 0.2 | 0.2 | 0.4 | 0.1 | 0.2 | 0.4 | 0.0 | 0.3 | 0.2 |
| BAGHDAD | 0.1 | 0.2 | 0.5 | 0.2 | 0.4 | 0.6 | 0.1 | 0.0 | 0.3 |
| NUKHAIB | ... | ... | 0.6 | 0.5 | 0.7 | 0.6 | ... | ... | 0.6 |
| HAI | 0.9 | 0.9 | 0.9 | 0.6 | 1.0 | 1.0 | 0.1 | ... | 0.8 |
| NAJAF | 0.3 | 0.5 | 0.5 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 |
| DIWANIYA | 0.3 | 0.9 | 0.9 | 0.5 | 0.7 | 0.7 | 0.1 | 0.3 | 0.6 |
| NASIRIYA | 0.4 | 1.0 | 0.7 | 0.8 | 0.8 | 0.6 | 0.3 | 0.2 | 0.6 |
| BASRAH | 0.1 | 0.7 | 0.9 | 0.6 | 0.8 | 0.3 | 0.3 | 0.5 | 0.5 |

TABLE -12. — المعدل الشهري لمجموع كمية الغيوم ( بالأكتا )

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 3.1 | 4.0 | 3.5 | 3.8 | 3.5 | 2.1 | ... | 3.7 |
| MOSUL | 2.9 | 3.7 | 4.1 | 3.8 | 4.0 | 3.3 | 2.8 | 3.0 | 3.7 |
| KIRKUK | 2.7 | 3.1 | 3.6 | 3.6 | 3.1 | 2.6 | 2.5 | 2.6 | 3.0 |
| KHANAQIN | ... | 3.1 | 4.0 | 4.2 | 4.0 | 3.3 | 2.0 | ... | 3.4 |
| RUTBAH | 2.2 | 2.4 | 2.7 | 2.2 | 3.2 | 3.0 | 1.9 | 1.9 | 2.4 |
| HABBANIYA | 1.7 | 2.8 | 3.1 | 2.4 | 2.2 | 3.0 | 1.8 | 2.0 | 2.4 |
| BAGHDAD | 1.5 | 2.2 | 3.0 | 2.5 | 2.3 | 2.2 | 1.9 | 1.2 | 2.1 |
| NUKHAIB | ... | ... | 2.2 | 2.0 | 2.0 | 1.8 | ... | ... | 2.0 |
| HAI | 2.3 | 2.7 | 3.2 | 3.0 | 3.1 | 2.6 | 1.4 | ... | 2.6 |
| NAJAF | 1.0 | 2.3 | 2.8 | 2.5 | 3.0 | 2.1 | 1.0 | 1.1 | 2.0 |
| DIWANIYA | 1.6 | 2.6 | 3.0 | 2.3 | 2.2 | 2.0 | 1.5 | 1.8 | 2.1 |
| NASIRIYA | 1.3 | 1.7 | 1.9 | 2.0 | 2.0 | 1.6 | 1.2 | 1.2 | 1.6 |
| BASRAH | 1.3 | 2.2 | 2.0 | 2.1 | 2.5 | 2.0 | 1.6 | 1.5 | 1.9 |

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TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND. NUMBER OF OBSERVATIONS OF:

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | ريح ساكن CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34 فأكثر | معدل السرعة بالعقد MEAN V. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 16 | 2 | 2 | 0 | 0 | 0 | 3 | 1 | 6 | 22 | 1 | 0 | 1 | 5 |
| | 0600 | 10 | 1 | 7 | 0 | 0 | 0 | 3 | 1 | 8 | 20 | 1 | 0 | 1 | 5 |
| | 0900 | 3 | 1 | 12 | 0 | 4 | 0 | 3 | 0 | 7 | 22 | 0 | 1 | 0 | 5 |
| | 1200 | 2 | 0 | 1 | 1 | 5 | 0 | 7 | 1 | 3 | 25 | 1 | 0 | 1 | 6 |
| | 1500 | 4 | 0 | 8 | 0 | 1 | 0 | 8 | 1 | 8 | 20 | 1 | 1 | 0 | 5 |
| | 1800 | 10 | 2 | 4 | 1 | 3 | 0 | 5 | 1 | 4 | 24 | 2 | 0 | 0 | 5 |
| | TOTAL | 45 | 6 | 44 | 2 | 13 | 0 | 29 | 5 | 36 | 133 | 6 | 2 | 3 | 5 |
| موصل MOSUL | 0000 | 0 | 0 | 2 | 3 | 4 | 0 | 5 | 4 | 12 | 16 | 2 | 0 | 0 | 3 |
| | 0300 | 0 | 0 | 2 | 1 | 4 | 0 | 11 | 4 | 8 | 20 | 1 | 1 | 0 | 5 |
| | 0600 | 1 | 0 | 0 | 2 | 8 | 0 | 9 | 7 | 3 | 26 | 1 | 0 | 0 | 5 |
| | 0900 | 2 | 1 | 4 | 6 | 8 | 0 | 4 | 3 | 2 | 23 | 5 | 0 | 0 | 6 |
| | 1200 | 4 | 3 | 4 | 6 | 5 | 0 | 2 | 5 | 1 | 23 | 6 | 0 | 0 | 6 |
| | 1500 | 1 | 0 | 2 | 3 | 6 | 0 | 7 | 2 | 9 | 20 | 1 | 0 | 0 | 3 |
| | 1800 | 0 | 0 | 0 | 4 | 5 | 0 | 4 | 3 | 14 | 14 | 2 | 0 | 0 | 3 |
| | 2100 | 0 | 0 | 1 | 1 | 6 | 0 | 7 | 0 | 15 | 12 | 3 | 0 | 0 | 3 |
| | TOTAL | 8 | 4 | 15 | 26 | 46 | 0 | 49 | 28 | 64 | 154 | 21 | 1 | 0 | 4 |
| كركوك KIRKUK | 0000 | 3 | 6 | 3 | 0 | 3 | 0 | 3 | 0 | 12 | 16 | 2 | 0 | 0 | 3 |
| | 0300 | 3 | 9 | 2 | 0 | 1 | 0 | 4 | 0 | 11 | 19 | 0 | 0 | 0 | 3 |
| | 0600 | 0 | 6 | 4 | 1 | 0 | 0 | 1 | 0 | 18 | 12 | 0 | 0 | 0 | 2 |
| | 0900 | 2 | 1 | 2 | 4 | 1 | 0 | 6 | 0 | 14 | 15 | 1 | 0 | 0 | 3 |
| | 1200 | 2 | 0 | 1 | 2 | 4 | 1 | 9 | 1 | 10 | 16 | 1 | 1 | 0 | 4 |
| | 1500 | 0 | 0 | 0 | 2 | 1 | 0 | 4 | 0 | 23 | 7 | 0 | | 0 | 1 |
| | 1800 | 2 | 7 | 1 | 3 | 2 | 0 | 2 | 0 | 13 | 16 | 1 | 0 | 0 | 3 |
| | 2100 | 3 | 6 | 5 | 1 | 1 | 0 | 1 | 0 | 13 | 16 | 1 | 0 | 0 | 3 |
| | TOTAL | 15 | 35 | 18 | 13 | 13 | 1 | 30 | 1 | 114 | 119 | 5 | 1 | 0 | 3 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 14 | 2 | 5 | 0 | 0 | 0 | 9 | 19 | 1 | 1 | 0 | 5 |
| | 0600 | 0 | 0 | 10 | 4 | 7 | 0 | 1 | 0 | 8 | 21 | 0 | 1 | 0 | 4 |
| | 0900 | 0 | 0 | 1 | 0 | 10 | 3 | 13 | 2 | 1 | 25 | 2 | 2 | 0 | 7 |
| | 1200 | 1 | 0 | 1 | 1 | 5 | 2 | 11 | 8 | 1 | 24 | 3 | 0 | 0 | 8 |
| | 1500 | 4 | 0 | 1 | 0 | 9 | 1 | 4 | 5 | 6 | 21 | 2 | 1 | 0 | 6 |
| | 1800 | 0 | 0 | 7 | 1 | 7 | 0 | 5 | 0 | 10 | 19 | 1 | 0 | 0 | 4 |
| | TOTAL | 5 | 0 | 34 | 8 | 43 | 6 | 34 | 15 | 35 | 129 | 9 | 7 | 0 | 6 |
| رطبة RUTBAH | 0000 | 0 | 0 | 1 | 2 | 8 | 5 | 5 | 0 | 9 | 15 | 6 | 0 | 0 | 6 |
| | 0300 | 1 | 0 | 0 | 0 | 10 | 9 | 2 | 0 | 8 | 16 | 6 | 0 | 0 | 6 |
| | 0600 | 0 | 1 | 0 | 0 | 6 | 10 | 4 | 1 | 8 | 17 | 4 | 1 | 0 | 5 |
| | 0900 | 4 | 1 | 2 | 2 | 8 | 5 | 3 | 0 | 5 | 18 | 6 | 1 | 0 | 8 |
| | 1200 | 3 | 0 | 2 | 3 | 7 | 4 | 3 | 3 | 5 | 15 | 6 | 4 | 0 | 9 |
| | 1500 | 3 | 1 | 1 | 4 | 1 | 1 | 7 | 0 | 12 | 11 | 6 | 1 | 0 | 6 |
| | 1800 | 2 | 0 | 3 | 4 | 3 | 1 | 4 | 1 | 12 | 11 | 7 | 0 | 0 | 5 |
| | 2100 | 1 | 0 | 3 | 2 | 5 | 2 | 5 | 0 | 12 | 10 | 8 | 0 | 0 | 6 |
| | TOTAL | 14 | 3 | 12 | 17 | 48 | 37 | 33 | 5 | 71 | 113 | 49 | 7 | 0 | 8 |

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TABLE 13-b.

SURFACE-WIND, NUMBER OF OBSERVATIONS OF

| STATIONS | TIME GMT. | DIRECTION N | NE | E | SE | S | SW | W | NW | CALM | SPEED IN KNOTS 1-10 | 11-21 | 22-33 | 34/+ | MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HABBANIYA | 0000 | 1 | 0 | 4 | 2 | 1 | 1 | 7 | 0 | 14 | 10 | 5 | 0 | 0 | 5 |
| | 0300 | 0 | 1 | 2 | 2 | 0 | 0 | 9 | 1 | 15 | 13 | 1 | 1 | 0 | 4 |
| | 0600 | 0 | 2 | 3 | 1 | 1 | 0 | 10 | 4 | 9 | 17 | 4 | 0 | 0 | 5 |
| | 0900 | 0 | 4 | 2 | 3 | 0 | 1 | 14 | 5 | 4 | 17 | 8 | 1 | 0 | 5 |
| | 1200 | 0 | 1 | 1 | 3 | 3 | 2 | 3 | 8 | 6 | 18 | 5 | 1 | 0 | 6 |
| | 1500 | 1 | 1 | 2 | 4 | 0 | 0 | 3 | 3 | 16 | 11 | 3 | 0 | 0 | 4 |
| | 1800 | 0 | 1 | 4 | 4 | 1 | 0 | 5 | 1 | 4 | 10 | 6 | 0 | 0 | 4 |
| | 2100 | 0 | 1 | 2 | 6 | 0 | 0 | 5 | 1 | 15 | 9 | 6 | 0 | 0 | 5 |
| | TOTAL | 2 | 11 | 23 | 24 | 6 | 4 | 53 | 23 | 83 | 105 | 39 | 3 | 0 | 5 |
| BAGHDAD | 0000 | 0 | 2 | 0 | 6 | 1 | 0 | 2 | 5 | 14 | 13 | 3 | 0 | 0 | 4 |
| | 0300 | 0 | 1 | 3 | 5 | 0 | 0 | 1 | 8 | 11 | 15 | 4 | 0 | 0 | 4 |
| | 0600 | 0 | 1 | 3 | 2 | 1 | 0 | 4 | 11 | 11 | 17 | 2 | 0 | 0 | 4 |
| | 0900 | 1 | 0 | 3 | 3 | 1 | 0 | 2 | 12 | 8 | 13 | 9 | 0 | 0 | 7 |
| | 1200 | 3 | 1 | 1 | 3 | 1 | 1 | 2 | 8 | 8 | 12 | 10 | 0 | 0 | 7 |
| | 1500 | 0 | 0 | 2 | 3 | 0 | 0 | 3 | 5 | 17 | 11 | 2 | 0 | 0 | 3 |
| | 1800 | 0 | 0 | 2 | 4 | 0 | 1 | 0 | 7 | 16 | 10 | 4 | 0 | 0 | 4 |
| | 2100 | 0 | 1 | 1 | 4 | 1 | 0 | 3 | 3 | 17 | 9 | 4 | 0 | 0 | 4 |
| | TOTAL | 4 | 6 | 15 | 32 | 5 | 2 | 15 | 59 | 102 | 100 | 38 | 0 | 0 | 5 |
| NUKHAIB | 0600 | 9 | 0 | 1 | 1 | 1 | 0 | 2 | 11 | 5 | 24 | 1 | 0 | 0 | 5 |
| | 0900 | 4 | 0 | 2 | 0 | 4 | 2 | 3 | 6 | 9 | 17 | 4 | 0 | 0 | 6 |
| | 1200 | 4 | 0 | 2 | 1 | 3 | 1 | 2 | 8 | 7 | 20 | 3 | 0 | 0 | 5 |
| | 1500 | 5 | 1 | 4 | 1 | 3 | 1 | 4 | 5 | 9 | 20 | 1 | 0 | 0 | 4 |
| | TOTAL | 22 | 1 | 9 | 3 | 13 | 4 | 8 | 30 | 30 | 81 | 9 | 0 | 0 | 5 |
| HAI | 0000 | 4 | 0 | 7 | 0 | 0 | 0 | 3 | 8 | 8 | 20 | 2 | 0 | 0 | 5 |
| | 0300 | 1 | 0 | 5 | 0 | 2 | 1 | 4 | 6 | 11 | 18 | 1 | 0 | 0 | 4 |
| | 0600 | 1 | 0 | 5 | 4 | 1 | 2 | 6 | 3 | 8 | 19 | 3 | 0 | 0 | 5 |
| | 0900 | 0 | 0 | 4 | 2 | 3 | 1 | 13 | 3 | 3 | 19 | 6 | 0 | 0 | 6 |
| | 1200 | 3 | 0 | 1 | 6 | 0 | 1 | 6 | 6 | 1 | 17 | 6 | 0 | 0 | |
| | 1500 | 1 | 1 | 5 | 1 | 0 | 0 | 6 | 6 | 10 | 20 | 0 | 0 | 0 | 3 |
| | 1800 | 1 | 0 | 5 | 0 | 0 | 0 | 7 | 9 | 8 | 22 | 0 | 0 | 0 | 4 |
| | TOTAL | 11 | 1 | 32 | 13 | 6 | 5 | 46 | 41 | 37 | 135 | 18 | 0 | 0 | 5 |
| NAJAF | 0000 | 6 | 3 | 2 | 2 | 2 | 0 | 3 | 8 | 4 | 24 | 2 | 0 | 0 | 5 |
| | 0300 | 5 | 0 | 0 | 2 | 2 | 2 | 6 | 9 | 4 | 25 | 1 | 0 | 0 | 4 |
| | 0600 | 8 | 0 | 0 | 0 | 2 | 1 | 4 | 10 | 5 | 24 | 0 | 1 | 0 | 4 |
| | 0900 | 6 | 3 | 1 | 1 | 1 | 1 | 4 | 6 | 7 | 21 | 2 | 0 | 0 | 4 |
| | 1200 | 6 | 2 | 0 | 3 | 3 | 0 | 3 | 7 | 6 | 21 | 3 | 0 | 0 | 4 |
| | 1500 | 6 | 1 | 2 | 3 | 1 | 1 | 3 | 7 | 6 | 23 | 1 | 0 | 0 | 3 |
| | 1800 | 7 | 3 | 2 | 2 | 2 | 1 | 3 | 5 | 5 | 25 | 0 | 0 | 0 | 3 |
| | 2100 | 11 | 1 | 2 | 2 | 3 | 0 | 3 | 6 | 2 | 26 | 2 | 0 | 0 | 4 |
| | TOTAL | 55 | 13 | 9 | 15 | 16 | 6 | 29 | 58 | 39 | 189 | 11 | 1 | 0 | 4 |

NOVEMBER 1964.

TABLE 13-a.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت GMT. | DIRECTIONS الاتجاه N | NE | E | SE | S | SW | W | NW | CALM | SPEED IN KNOTS السرعة بالعقدة 1-10 | 11-21 | 22-33 | 34< | معدل السرعة بالعقدة MEAN V.F. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| الديوانية DIWANIYA | 0000 | 5 | 2 | 3 | 3 | 3 | 0 | 10 | 1 | 3 | 25 | 2 | 0 | 0 | 6 |
| | 0300 | 5 | 1 | 3 | 1 | 2 | 3 | 12 | 0 | 3 | 31 | 6 | 0 | 0 | 6 |
| | 0600 | 1 | 0 | 1 | 3 | 4 | 1 | 13 | 1 | 4 | 17 | 9 | 0 | 0 | 7 |
| | 0900 | 3 | 0 | 3 | 1 | 3 | 0 | 11 | 0 | 1 | 19 | 10 | 0 | 0 | 8 |
| | 1200 | 6 | 1 | 1 | 4 | 0 | 0 | 12 | 3 | 3 | 19 | 8 | 0 | 0 | 8 |
| | 1500 | 5 | 2 | 2 | 3 | 0 | 0 | 14 | 3 | 3 | 23 | 4 | 0 | 0 | 5 |
| | 1800 | 3 | 1 | 6 | 1 | 0 | 0 | 9 | 0 | 4 | 22 | 4 | 0 | 0 | 5 |
| | 2100 | 4 | 1 | 4 | 1 | 3 | 0 | 10 | 3 | 4 | 24 | 2 | 0 | 0 | 5 |
| | TOTAL | 33 | 8 | 25 | 17 | 15 | 1 | 88 | 25 | 25 | 170 | 45 | 0 | 0 | 6 |
| الناصرية NASIRIYA | 0000 | 6 | 1 | 1 | 2 | 2 | 0 | 5 | 6 | 6 | 22 | 2 | 0 | 0 | 4 |
| | 0300 | 1 | 0 | 2 | 3 | 2 | 1 | 7 | 5 | 7 | 23 | 0 | 0 | 0 | 4 |
| | 0600 | 1 | 0 | 2 | 4 | 2 | 3 | 8 | 7 | 3 | 23 | 4 | 0 | 0 | 6 |
| | 0900 | 1 | 0 | 1 | 4 | 2 | 1 | 8 | 11 | 2 | 20 | 8 | 0 | 0 | 8 |
| | 1200 | 1 | 2 | 1 | 5 | 1 | 0 | 3 | 14 | 3 | 20 | 7 | 0 | 0 | 7 |
| | 1500 | 2 | 4 | 3 | 4 | 0 | 0 | 6 | 4 | 4 | 26 | 0 | 0 | 0 | 4 |
| | 1800 | 4 | 0 | 4 | 4 | 2 | 0 | 6 | 5 | 5 | 23 | 0 | 0 | 0 | 4 |
| | 2100 | 6 | 0 | 0 | 4 | 2 | 0 | 5 | 7 | 3 | 22 | 3 | 0 | 0 | 5 |
| | TOTAL | 22 | 7 | 14 | 30 | 15 | 5 | 53 | 59 | 35 | 181 | 24 | 0 | 0 | 5 |
| البصرة BASRAH | 0000 | 8 | 0 | 5 | 0 | 3 | 0 | 7 | 5 | 2 | 27 | 1 | 0 | 0 | 5 |
| | 0300 | 3 | 0 | 2 | 1 | 1 | 1 | 10 | 5 | 2 | 27 | 1 | 0 | 0 | 5 |
| | 0600 | 4 | 1 | 2 | 1 | 1 | 2 | 4 | 11 | 1 | 25 | 4 | 0 | 0 | 6 |
| | 0900 | 3 | 0 | 2 | 2 | 4 | 0 | 3 | 13 | 1 | 20 | 9 | 0 | 0 | 8 |
| | 1200 | 5 | 1 | 1 | 2 | 5 | 0 | 1 | 12 | 3 | 15 | 12 | 0 | 0 | 8 |
| | 1500 | 9 | 0 | 1 | 2 | 3 | 0 | 0 | 12 | 1 | 27 | 2 | 0 | 0 | 5 |
| | 1800 | 8 | 0 | 0 | 5 | 2 | 1 | 1 | 10 | 3 | 24 | 3 | 0 | 0 | 5 |
| | 2100 | 7 | 2 | 2 | 1 | 2 | 1 | 5 | 8 | 2 | 27 | 1 | 0 | 0 | 5 |
| | TOTAL | 49 | 6 | 16 | 19 | 23 | 5 | 31 | 76 | 15 | 192 | 33 | 0 | 0 | 6 |

TABLE 14.

اعلى سرعة رياح هبت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.E.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 36 knots | 270 | 0600 | 27th |
| MOSUL | 30 | 280 | 0300 | 27th |
| KIRKUK | 25 | 160 | 1200 | 18th |
| KHANAQIN | 31 | 270 | 0900 | 21st |
| RUTBAH | 29 | 240 | 1200 | 24th |
| HABBANIYA | 30 | 250 | 0300 | 27th |
| BAGHDAD | 20 | 310 | 0900 | 27th |
| HAI | 18 | 360 | 1200 | 5th |
| NUKHAIB | 32 | 190 | 1200 | 19th |
| NAJAF | 30 | 360 | 0600 | 27th |
| DIWANIYA | 19 | 270 | 0600 | 27th |
| NASIRIYA | 16 | 300 | 0900 | 27th |
| BASRAH | 22 | 170 | 0600 | 21st |

## CLIMATOLOGICAL SUMMARY

الخلاصات المناخية

### NUMBER OF DAYS FOR THE CASES OF PHENOMENA

عدد الايام التي حدثت فيها الظواهر الجوية

| STATIONS | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 3 |
| MOSUL | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 3 | 8 | 3 |
| KIRKUK | 5 | 0 | 1 | 3 | 0 | 3 | 12 | 1 | 3 | 0 | 3 | 9 | 4 |
| KHANAQIN | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 2 | 10 | 2 |
| RUTBAH | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 13 | 2 |
| HABBANIYA | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 3 | 1 | 1 | 10 | 0 |
| BAGHDAD | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 3 | 4 | 2 | 2 | 12 | 0 |
| NUKHAIB | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 18 | 1 |
| HIT | 4 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | 3 | 0 | 0 | 14 | 1 |
| NAJAF | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 16 | 0 |
| DIWANIYA | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 0 | 1 | 15 | 1 |
| NASIRIYA | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 13 | 0 | 0 | 14 | 1 |
| BASRAH | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 2 | 6 | 0 | 1 | 14 | 0 |

TABLE - 17.

### DURATION OF SUNSHINE

مدة سطوع الشمس

| STATION | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING A DAY HOURS | MAX. SUNSHINE DURING A DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 202.9 | 10.2 | 1st | 1 |
| HABBANIYA | 232.7 | 10.1 | 1st | 0 |
| BAGHDAD | 205.0 | 9.6 | 1&14th | 0 |
| BASRAH | 245.5 | 10.3 | 2nd | 0 |

TABLE - 18.

### MONTHLY MEAN TEMPERATURE OF :

المعدل الشهري لحرارة الحشيش و التربة ( سنتغراد )

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE 0.3 M. | EARTH TEMPERATURE 1.2 M |
|---|---|---|---|
| MOSUL | .... | 13.6 | .... |
| KIRKUK | 6.4 | 18.3 | 24.0 |
| HABBANIYA | 7.3 | 20.8 | 24.9 |
| BAGHDAD | 4.3 | 19.4 | 25.1 |
| NAJAF | .... | 19.0 | 25.8 |
| NASIRIYA | 9.5 | 21.3 | 25.7 |
| BASRAH | 7.0 | .... | .... |

الجمهورية العراقية

وزارة المواصلات

مديرية الطيران المدني العامة

هيئة الارصاد الجوية العامة

شعبة المناخ

بغداد

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

MINISTRY OF COMMUNICATIONS

DIRECTORATE GENERAL OF CIVIL AVIATION

METEOROLOGICAL DEPARTMENT

CLIMATOLOGICAL SECTION

B A G H D A D

معلومات مناخية لشهر كانون الاول ١٩٦٤

مجلد ٢٧ ، عدد ( ١٢ ) ، كانون الاول ١٩٦٤

MONTHLY CLIMATOLOGICAL DATA FOR DECEMBER 1964

VOLUME 27 , NO. ( 12 ) , DECEMBER 1964 .

# C O N T E N T S


| | TABLE | PAGE |
|---|---|---|
| Daily mean temperature | 1a&b | 1-2 |
| " " pressure at M.S.L. | 2a&b | 3-4 |
| " " relative humidity | 3 | 5 |
| Maximum and minimum temperature | 4a-c | 6-8 |
| Monthly mean dry-bulb temperature | 5 | 9 |
| " " vapour-pressure | 6 | 9 |
| " " wet-bulb temperature | 7 | 9 |
| " " dew-point | 8 | 9 |
| " " relative humidity | 9 | 10 |
| " " pressure at M.S.L. | 10 | 10 |
| " " low-cloud-amount | 11 | 10 |
| " " total-cloud-amount | 12 | 10 |
| Surface-Wind, number of observations of | 13a-c | 11-13 |
| Highest-Wind-Speed during one hour | 14 | 13 |
| Daily precipitation | 15a-f | 14-19 |
| Climatological summary | 16 | 20 |
| Duration of sunshine | 17 | 20 |
| Monthly mean temperature of grass & earth | 18 | 20 |


GEOGRAPHICAL DATA AND NOTES ON TABLES SEE : JANUARY 1964

DECEMBER 1964 .
TABLE 1-a.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES ( C°) OF 8 OBSERVATIONS

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KERKUK | ROTBAH | HABBANIYA | BAGHDAD |
| 1 | 11.2 | 8.1 | 11.6 | 9.5 | 8.1 | 8.3 |
| 2 | 12.5 | 7.1 | 11.7 | 7.8 | 7.7 | 8.4 |
| 3 | 12.4 | 7.0 | 11.3 | 9.0 | 7.8 | 9.4 |
| 4 | 11.5 | 7.9 | 12.0 | 11.3 | 8.9 | 11.0 |
| 5 | 12.5 | 9.0 | 12.5 | 13.8 | 11.4 | 12.2 |
| 6 | 12.5 | 8.4 | 12.6 | 11.7 | 11.8 | 13.5 |
| 7 | 13.4 | 8.2 | 12.5 | 12.4 | 12.5 | 13.8 |
| 8 | 12.6 | 10.9 | 14.6 | 11.5 | 15.0 | 15.1 |
| 9 | 16.0 | 16.2 | 17.7 | 10.9 | 18.4 | 18.8 |
| 10 | 10.2 | 13.8 | 14.1 | 9.2 | 14.9 | 14.9 |
| 11 | 8.0 | 9.7 | 10.8 | 9.2 | 12.8 | 12.4 |
| 12 | 8.3 | 9.3 | 10.4 | 8.1 | 12.4 | 11.7 |
| 13 | 8.6 | 9.5 | 9.3 | 5.9 | 10.2 | 8.3 |
| 14 | 6.9 | 8.3 | 9.6 | 9.2 | 9.3 | 8.8 |
| 15 | 9.6 | 7.6 | 10.3 | 9.1 | 8.6 | 8.4 |
| 16 | 6.2 | 7.6 | 9.8 | 8.7 | 9.4 | 10.3 |
| 17 | 8.7 | 6.6 | 8.7 | 7.1 | 5.6 | 8.8 |
| 18 | 7.9 | 5.8 | 7.5 | 6.2 | 6.4 | 6.2 |
| 19 | 6.9 | 5.0 | 8.1 | 4.9 | 7.1 | 6.6 |
| 20 | 6.8 | 4.7 | 7.2 | 5.1 | 7.1 | 6.2 |
| 21 | 6.1 | 3.9 | 5.8 | 6.6 | 6.5 | 6.1 |
| 22 | 7.3 | 6.6 | 8.0 | 9.5 | 8.4 | 8.3 |
| 23 | 4.8 | 7.3 | 8.7 | 9.6 | 11.6 | 11.3 |
| 24 | 6.0 | 7.9 | 7.9 | 8.1 | 9.1 | 11.3 |
| 25 | 5.9 | 5.1 | 6.4 | 5.3 | 6.1 | 7.1 |
| 26 | 6.3 | 4.1 | 6.8 | 5.8 | 5.2 | 5.5 |
| 27 | 6.4 | 3.1 | 5.6 | 3.7 | 5.1 | 5.2 |
| 28 | 6.0 | 3.6 | 6.3 | 4.4 | 5.0 | 4.9 |
| 29 | 6.4 | 4.9 | 7.2 | 8.1 | 5.1 | 5.2 |
| 30 | 7.0 | 6.8 | 8.3 | 10.2 | 8.2 | 7.5 |
| 31 | 8.0 | 7.5 | 9.1 | 7.8 | 9.0 | 10.1 |
| MEANS | 8.8 | 7.4 | 9.8 | 8.3 | 9.2 | 9.5 |
| DEPARTURE FROM NORMAL | ???? | -0.5 | -0.8 | 0.0 | -1.7 | -1.5 |

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

$$\frac{\text{TIME - G.M.T.}\quad 0000+0300+06+0900+1200+1500+1800+2100}{8} = \text{DAILY MEAN}$$

كانون الاول ١٩٦٤

DECEMBER 1964 .
TABLE 1-b.

المعدل اليومي لدرجات الحرارة ( سنتغراد )

DAILY MEAN TEMPERATURES( C°) OF 8 OBSERVATIONS

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 12.1 | 10.6 | 9.2 | 10.0 | 10.3 | 10.4 |
| 2 | 13.0 | 12.8 | 9.7 | 10.1 | 9.9 | 11.2 |
| 3 | 13.3 | 12.6 | 9.8 | 10.7 | 9.8 | 11.3 |
| 4 | 13.5 | 11.9 | 9.2 | 10.3 | 10.1 | 11.7 |
| 5 | 15.6 | 11.3 | 12.7 | 12.6 | 11.2 | 11.4 |
| 6 | 15.1 | 14.3 | 13.5 | 13.9 | 13.4 | 12.1 |
| 7 | 16.0 | 11.5 | 14.3 | 14.4 | 14.5 | 13.5 |
| 8 | 14.5 | 14.0 | 16.1 | 16.0 | 15.6 | 15.2 |
| 9 | 17.9 | 17.8 | 17.8 | 18.9 | 18.0 | 17.1 |
| 10 | 15.1 | 15.9 | 14.7 | 15.9 | 15.8 | 16.7 |
| 11 | 11.8 | 13.9 | 12.8 | 13.8 | 15.9 | 16.5 |
| 12 | 10.9 | 13.3 | 11.2 | 10.4 | 13.8 | 15.4 |
| 13 | 11.4 | 11.5 | 10.3 | 9.0 | 9.7 | 12.9 |
| 14 | 12.0 | 9.0 | 10.2 | 8.1 | 7.6 | 9.3 |
| 15 | 14.0 | 8.0 | 11.1 | 9.5 | 7.9 | 9.0 |
| 16 | 12.2 | 11.1 | 10.3 | 9.9 | 9.7 | 10.2 |
| 17 | 12.4 | 9.7 | 10.7 | 10.6 | 10.8 | 10.8 |
| 18 | 11.0 | 9.8 | 8.5 | 7.8 | 9.1 | 11.1 |
| 19 | 9.9 | 9.3 | 7.1 | 7.5 | 8.0 | 10.1 |
| 20 | 9.3 | 7.7 | 7.2 | 7.7 | 8.2 | 8.6 |
| 21 | 12.4 | 7.5 | 7.3 | 7.1 | 7.9 | 8.2 |
| 22 | 12.8 | 9.0 | 9.1 | 9.2 | 8.9 | 9.3 |
| 23 | 14.1 | 10.6 | 12.3 | 12.3 | 11.8 | 11.9 |
| 24 | 11.3 | 13.4 | 11.5 | 11.3 | 14.6 | 15.2 |
| 25 | 9.3 | 10.1 | 8.3 | 8.9 | 9.9 | 11.4 |
| 26 | 9.4 | 6.6 | 6.0 | 5.9 | 6.3 | 8.9 |
| 27 | 7.9 | 6.7 | 6.6 | 6.1 | 6.2 | 7.2 |
| 28 | 8.5 | 6.4 | 6.3 | 5.7 | 6.4 | 6.6 |
| 29 | 8.6 | 6.8 | 6.6 | 6.0 | 6.4 | 7.3 |
| 30 | 8.8 | 8.5 | 8.8 | 9.0 | 8.0 | 7.9 |
| 31 | 8.0 | 10.4 | 9.4 | 13.1 | 10.6 | 9.7 |
| MEANS | 12.0 | 10.7 | 10.3 | 10.4 | 10.5 | 11.2 |
| DEPARTURE FROM NORMAL | .... | -1.9 | .... | -1.9 | -2.1 | -2.4 |

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

كانون الاول ١٩٦٤

DECEMBER 1964 .
TABLE 2-a.

المعدل اليومي للضغط الجوي على سطح البحر (ملليبارات)

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

| الايام | سنجار | موصل | كركوك | رطبة | حبانية | بغداد |
|---|---|---|---|---|---|---|
| DATE | SINJAR | MOSUL | KIRKUK | RUTBAH | HABBANIYA | BAGHDAD |
| 1 | 1025.4 | 1026.2 | 1024.7 | 1025.2 | 1024.7 | 1024.4 |
| 2 | 27.2 | 27.7 | 26.3 | 26.2 | 26.1 | 26.2 |
| 3 | 26.4 | 26.9 | 27.8 | 26.1 | 27.3 | 27.6 |
| 4 | 27.8 | 26.9 | 27.0 | 24.1 | 26.7 | 27.0 |
| 5 | 24.4 | 25.7 | 25.0 | 20.7 | 24.4 | 24.9 |
| 6 | 24.4 | 25.4 | 24.4 | 21.5 | 23.4 | 24.6 |
| 7 | 24.7 | 25.2 | 24.6 | 20.4 | 22.9 | 23.8 |
| 8 | 21.0 | 22.1 | 21.2 | 16.1 | 18.7 | 19.9 |
| 9 | 17.1 | 18.6 | 18.2 | 13.6 | 14.4 | 16.1 |
| 10 | 17.4 | 18.1 | 17.5 | 10.8 | 13.0 | 14.6 |
| 11 | 20.5 | 20.5 | 19.7 | 15.0 | 16.8 | 17.3 |
| 12 | 18.4 | 18.1 | 16.8 | 16.6 | 15.5 | 15.6 |
| 13 | 17.8 | 17.8 | 17.9 | 18.1 | 17.8 | 18.2 |
| 14 | 21.5 | 21.5 | 20.6 | 16.9 | 19.7 | 20.2 |
| 15 | 22.1 | 22.4 | 20.7 | 18.3 | 20.5 | 20.4 |
| 16 | 22.0 | 22.0 | 20.1 | 21.3 | 19.7 | 19.2 |
| 17 | 18.7 | 19.4 | 17.8 | 20.5 | 18.5 | 18.1 |
| 18 | 23.7 | 23.8 | 23.0 | 22.7 | 22.4 | 22.4 |
| 19 | 25.3 | 25.9 | 23.9 | 24.6 | 23.9 | 23.7 |
| 20 | 25.0 | 25.4 | 24.0 | 25.2 | 24.4 | 24.2 |
| 21 | 25.7 | 26.3 | 25.6 | 24.5 | 25.6 | 25.7 |
| 22 | 25.8 | 26.3 | 25.6 | 23.4 | 25.5 | 25.8 |
| 23 | 21.1 | 20.1 | 19.5 | 16.6 | 17.6 | 18.6 |
| 24 | 16.8 | 15.8 | 15.9 | 17.1 | 16.1 | 16.0 |
| 25 | 22.4 | 24.2 | 22.3 | 23.5 | 23.2 | 22.8 |
| 26 | 26.9 | 28.4 | 26.1 | 27.6 | 26.6 | 26.0 |
| 27 | 27.1 | 27.8 | 25.6 | 27.2 | 26.1 | 25.8 |
| 28 | 23.6 | 24.2 | 22.7 | 23.9 | 24.5 | 23.2 |
| 29 | 21.3 | 21.9 | 21.0 | 21.1 | 21.3 | 21.6 |
| 30 | 19.5 | 19.2 | 18.3 | 17.4 | 17.9 | 18.2 |
| 31 | 17.2 | 16.9 | 16.1 | 17.1 | 16.1 | 15.8 |
| MEANS | 1022.5 | 1022.9 | 1021.9 | 1020.7 | 1021.3 | 1021.5 |
| DEPARTURE FROM NORMAL | .... | +1.8 | +1.8 | -0.2 | +0.9 | +1.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 1029.5 | 4th | 0600 | 1964 | 1014.1 | 24th | 0300 | 1964 | 1964 |
| MOSUL | 1030.3 | 3rd | 0300 | 1964 | 1014.3 | 24th | 0300 | 1964 | |
| KIRKUK | 1028.7 | 3rd | 0600 | 1964 | 1014.3 | 24th | 0000 | 1964 | |
| RUTBAH | 1029.1 | 26th | 0600 | 1964 | 1008.3 | 10th | 0300 | 1964 | |
| HABBANIYA | 1028.4 | 3rd | 0600 | 1964 | 1011.4 | 10th | 1200 | 1964 | |
| BAGHDAD | 1029.2 | 4th | 0600 | 1964 | 1013.0 | 10th | 1200 | 1964 | |
| SINJAR | 1030.7 | 7th | 0300 | 1963 | 1003.1 | 11th | 1500 | 1963 | RECORD |
| MOSUL | 1033.7 | 26th | 0600 | 1947 | 1004.0 | 30th | 2100 | 1963 | |
| KIRKUK | 1031.5 | 13th | 0600 | 1956 | 1002.9 | 30th | 1500 | 1963 | |
| RUTBAH | 1035.9 | 26th | 0600 | 1947 | 1005.5 | 16th | 0000 | 1951 | |
| BAGHDAD | 1032.2 | 13th | 0600 | 1956 | 1003.8 | 30th | 1200 | 1963 | |

DECEMBER 1964

TABLE 2-b.

المعدل اليومي للضغط الجوي على سطح البحر (بالملي بارات)

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

| الايام | نخيب | حي | نجف | ديوانية | ناصرية | بصرة |
|---|---|---|---|---|---|---|
| DATE | NUKHAIB | HAI | NAJAF | DIWANIYA | NASIRIYA | BASRAH |
| 1 | 1026.5 | 1023.5 | 1023.7 | 1024.5 | 1023.4 | 1023.1 |
| 2 | 27.5 | 23.1 | 25.6 | 25.9 | 25.1 | 25.0 |
| 3 | 27.4 | 26.5 | 27.4 | 27.5 | 26.7 | 26.7 |
| 4 | 26.6 | 26.4 | 26.6 | 26.8 | 26.2 | 26.2 |
| 5 | 22.9 | 24.3 | 24.4 | 24.9 | 24.3 | 24.7 |
| 6 | 22.6 | 24.0 | 23.0 | 23.7 | 23.2 | 23.7 |
| 7 | 22.1 | 23.6 | 22.3 | 23.4 | 23.0 | 23.5 |
| 8 | 16.7 | 20.5 | 18.6 | 19.6 | 19.9 | 21.0 |
| 9 | 12.4 | 17.7 | 14.0 | 15.5 | 16.7 | 18.6 |
| 10 | 10.3 | 16.4 | 12.5 | 15.9 | 15.7 | 17.7 |
| 11 | 16.3 | 15.7 | 14.9 | 15.4 | 14.5 | 16.6 |
| 12 | 15.9 | 14.9 | 14.6 | 15.4 | 13.9 | 14.9 |
| 13 | 17.9 | 17.1 | 16.5 | 18.4 | 17.4 | 17.3 |
| 14 | 18.7 | 19.3 | 19.2 | 20.0 | 19.4 | 18.4 |
| 15 | 18.9 | 19.5 | 19.3 | 20.4 | 19.5 | 19.9 |
| 16 | 20.2 | 17.2 | 18.1 | 18.7 | 17.1 | 17.0 |
| 17 | 19.9 | 14.7 | 18.4 | 18.3 | 17.2 | 17.2 |
| 18 | 22.2 | 21.7 | 24.4 | 22.3 | 21.7 | 22.1 |
| 19 | 24.0 | 22.0 | 23.1 | 23.6 | 22.3 | 21.9 |
| 20 | 24.4 | 22.4 | 24.2 | 24.1 | 22.9 | 22.5 |
| 21 | 24.3 | 24.6 | 25.2 | 25.8 | 24.7 | 24.9 |
| 22 | 24.5 | 25.1 | 25.0 | 25.8 | 25.1 | 25.1 |
| 23 | 17.2 | 20.3 | 18.0 | 18.6 | 19.2 | 20.6 |
| 24 | 16.4 | 14.8 | 15.1 | 15.6 | 14.5 | 16.0 |
| 25 | 23.2 | 20.3 | 21.4 | 22.2 | 20.6 | 20.1 |
| 26 | 22.0 | 24.3 | 26.1 | 26.1 | 25.0 | 24.3 |
| 27 | 27.6 | 23.8 | 25.3 | 25.5 | 24.2 | 23.7 |
| 28 | 23.9 | 21.5 | 22.9 | 23.4 | 22.1 | 22.1 |
| 29 | 25.8 | 20.7 | 21.2 | 21.5 | 20.6 | 20.7 |
| 30 | 24.8 | 18.0 | 17.2 | 18.0 | 17.5 | 18.0 |
| 31 | 25.4 | 15.4 | 15.4 | 16.0 | 14.9 | 15.7 |
| MEANS | 1021.6 | 1020.6 | 1020.8 | 1021.4 | 1020.6 | 1020.9 |
| DEPARTURE FROM NORMAL | ..... | +0.5 | ..... | +1.6 | +1.2 | +1.5 |

| STATIONS | HIGHEST | DAY | TIME | YEAR | LOWEST | DAY | TIME | YEAR | |
|---|---|---|---|---|---|---|---|---|---|
| NUKHAIB | 1030.8 | 27th | 0600 | 1964 | 1010.1 | 10th | 0900 | 1964 | 1964 |
| HAI | 1027.8 | 3,4th | 0600 | 1964 | 1014.0 | 11th | 1200 | 1964 | |
| NAJAF | 1028.6 | 3rd | 0600 | 1964 | 1011.1 | 10th | 1200 | 1964 | |
| DIWANIYA | 1029.0 | 3rd | 0600 | 1964 | 1013.3 | 11th | 1500 | 1964 | |
| NASIRIYA | 1028.3 | 4th | 0600 | 1964 | 1012.6 | 12th | 1500 | 1964 | |
| BASRAH | 1028.0 | 3rd | 0600 | 1964 | 1013.2 | 12th | 1500 | 1964 | |
| NUKHAIB | 1030.8 | 27th | 0600 | 1964 | 1004.8 | 30th | 1200 | 1963 | RECORD |
| HAI | 1030.2 | 22nd | 0600 | 1953 | 1005.0 | 22nd | 0900 | 1953 | |
| NAJAF | 1028.6 | 3rd | 0600 | 1964 | 1000.5 | 10th | 0600 | 1963 | |
| DIWANIYA | 1031.1 | 12th | 0600 | 1956 | 1004.8 | 30th | 1200 | 1963 | |
| NASIRIYA | 1030.5 | 12&13 | 0600 | 1956 | 1005.7 | 21st | 1200 | 1961 | |
| BASRAH | 1030.9 | 27th | 0600 | 1939 | 1007.5 | 30th | 1200 | 1954 | |

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TABLE - X

DAILY MEAN RELATIVE HUMIDITY ( % ) OF 3 OBSERVATION

| DATE | SIN-JAR | MO-SUL | KIR-KUK | RUT-BAH | HABB-ANIYA | BAGHD-AD | NUK-HAIB | HAI | NA-JAF | DIWA-NIYA | NASI-RIYA | BAS-RAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 38 | 65 | 35 | 64 | 66 | 52 | 37 | 52 | 49 | 55 | 46 | 56 |
| 2 | 32 | 68 | 41 | 40 | 69 | 55 | 39 | 50 | 46 | 57 | 49 | 54 |
| 3 | 27 | 72 | 44 | 27 | 38 | 60 | 38 | 50 | 46 | 57 | 45 | 66 |
| 4 | 34 | 70 | 42 | 24 | 56 | 55 | 40 | 50 | 50 | 48 | 55 | 68 |
| 5 | 29 | 65 | [illegible] | 18 | 55 | 44 | 39 | 55 | 39 | 52 | 44 | 57 |
| 6 | [illegible] | 65 | 38 | 24 | 50 | 38 | 48 | 46 | 37 | 39 | 38 | 50 |
| 7 | 27 | 68 | 36 | 32 | 46 | 34 | 45 | 51 | 34 | 37 | 43 | 46 |
| 8 | [illegible] | 55 | [illegible] | 59 | 45 | 35 | 55 | 44 | 51 | 38 | 35 | [illegible] |
| 9 | 27 | 54 | [illegible] | 83 | 35 | 34 | 54 | 31 | 38 | 40 | 49 | 63 |
| 10 | 67 | 69 | [illegible] | 83 | 76 | 74 | 55 | 55 | 46 | 56 | 55 | 73 |
| 11 | 90 | 50 | [illegible] | 90 | 84 | 91 | 74 | 75 | 49 | 82 | 72 | [illegible] |
| 12 | 75 | 53 | [illegible] | 91 | 92 | 92 | 74 | 89 | 62 | 94 | 84 | 89 |
| 13 | 75 | 80 | 55 | 85 | 90 | 96 | 65 | 91 | 80 | 92 | 90 | 87 |
| 14 | 90 | 58 | 62 | 52 | 92 | 94 | 58 | 93 | 82 | 86 | 80 | [illegible] |
| 15 | 59 | 81 | 60 | 85 | 85 | 85 | 47 | 93 | 84 | 80 | 59 | [illegible] |
| 16 | [illegible] | 72 | [illegible] | 82 | 80 | 68 | 52 | 80 | [illegible] | 70 | 78 | [illegible] |
| 17 | [illegible] | 75 | [illegible] | 80 | 75 | [illegible] | 59 | 70 | 64 | 65 | 60 | [illegible] |
| 18 | 55 | 76 | 62 | 80 | 84 | 55 | 47 | 78 | 69 | 70 | 49 | 75 |
| 19 | 50 | 72 | 45 | 74 | 77 | 73 | 47 | 71 | 64 | 79 | 68 | [illegible] |
| 20 | 51 | 74 | 45 | 79 | 56 | 65 | 53 | 62 | 59 | 61 | 58 | 65 |
| 21 | 58 | 73 | [illegible] | 78 | 60 | 56 | 42 | 56 | 58 | 61 | 58 | [illegible] |
| 22 | 73 | 80 | [illegible] | 60 | 73 | 70 | [illegible] | 60 | [illegible] | 54 | [illegible] | [illegible] |
| 23 | 90 | 92 | 80 | 74 | 64 | 62 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 24 | 75 | 80 | 58 | 89 | 84 | 66 | [illegible] | [illegible] | [illegible] | 85 | [illegible] | 64 |
| 25 | 50 | 74 | 72 | 64 | 72 | 68 | 45 | 68 | 56 | 60 | 64 | 72 |
| 26 | 64 | 73 | 48 | 57 | 69 | 55 | 38 | 70 | 57 | 54 | 55 | 63 |
| 27 | 64 | 70 | 38 | 74 | 65 | 61 | 41 | 68 | 53 | 60 | 55 | [illegible] |
| 28 | 53 | 76 | 58 | 46 | 73 | 67 | 60 | 53 | 60 | 64 | 57 | [illegible] |
| 29 | 62 | 74 | 59 | 63 | 81 | 73 | 42 | 70 | 60 | 67 | [illegible] | [illegible] |
| 30 | 83 | 84 | 63 | 74 | 75 | 72 | 50 | 68 | 59 | 64 | 57 | 63 |
| 31 | 71 | 83 | 77 | 69 | 75 | 66 | 54 | 63 | 65 | 64 | 59 | 56 |
| MEANS | 56 | 73 | 56 | 66 | 70 | 65 | 51 | 65 | 54 | 63 | 59 | 46 |
| NORMAL | | | | | | | | | | | | |

| STATIONS | HIGHEST | TIME | DAY | LOWEST | TIME | DAY |
|---|---|---|---|---|---|---|
| SINJAR | 99 | 0900 | 11th | 18 | 0900 | 8th |
| MOSUL | 100 | 2100 | 13th | 21 | 1200 | 10th |
| KIRKUK | 97 | 1800 | 24th | 13 | 1200 | 6th |
| RUTBAH | 100 | 2100 | 9th | 3 | 1200 | 5th |
| HABBANIYA | 100 | 2100 | 18th | 20 | 1200 | 6th |
| BAGHDAD | 100 | 2100 | 13th | 19 | 1200 | 5,6,7th |
| NUKHAIB | 90 | 0600 | 28th | 24 | 1200 | 1st |
| HAI | 100 | 0300 | 15th | 17 | 1200 | 9th |
| NAJAF | 100 | 0300 | 13th | 17 | 1200 | 8th |
| DIWANIYA | 100 | 0300 | 13th | 13 | 1200 | 9th |
| NASIRIYA | 97 | 2100 | 13th | 16 | 1200 | 8th |
| BASRAH | 97 | 2100 | 1500 | 14 | 0900 | 6th |

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TABLE 4-a.

درجات الحرارة العظمى و الصغرى اليومية ( سنتيغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | سنجار | | موصل | | كركوك | | خانقين | | رطبة | |
|---|---|---|---|---|---|---|---|---|---|---|
| | SINJAR | | MOSUL | | KIRKUK | | KHANAQIN | | RUTBAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 17.2 | 3.1 | 19.2 | 0.6 | 20.0 | 6.0 | 22.2 | 1.1 | 18.7 | 0.3 |
| 2 | 19.0 | 4.2 | 19.9 | -0.1 | 20.2 | 5.4 | 22.2 | 2.2 | 19.8 | -1.1 |
| 3 | 16.6 | 5.2 | 15.7 | 0.3 | 18.7 | 5.5 | 21.1 | 3.3 | 20.0 | 1.5 |
| 4 | 16.3 | 1.8 | 19.1 | 0.3 | 20.4 | 5.9 | 20.6 | 3.9 | 20.0 | 1.8 |
| 5 | 15.1 | 6.3 | 19.0 | 1.8 | 18.7 | 5.0 | 21.7 | 2.2 | 22.4 | 7.7 |
| 6 | 16.0 | 5.8 | 19.7 | 0.8 | 19.6 | 6.5 | 22.2 | 6.1 | 22.9 | 8.1 |
| 7 | 17.4 | 7.2 | 23.3 | 0.2 | 21.0 | 5.9 | 22.2 | 1.6 | 22.5 | 2.0 |
| 8 | 14.5 | 8.1 | 18.4 | 3.2 | 20.8 | 7.8 | 23.9 | 4.4 | 15.0 | 10.7 |
| 9 | 19.6 | 9.2 | 21.5 | 3.2 | 23.0 | 11.7 | 26.1 | 11.7 | 17.7 | 9.0 |
| 10 | 14.0 | 10.8 | 18.2 | 2.9 | 17.1 | 15.0 | 20.0 | 13.3 | 13.2 | 6.9 |
| 11 | 9.6 | 5.3 | 13.7 | 8.2 | 13.8 | 8.6 | 10.6 | 9.4 | 14.0 | 5.0 |
| 12 | 9.2 | 6.3 | 11.2 | 6.4 | 14.0 | 8.1 | 15.6 | 8.3 | 12.5 | 6.0 |
| 13 | 9.6 | 6.8 | 12.0 | 7.4 | 12.0 | 7.2 | 13.9 | 5.0 | 13.5 | 2.3 |
| 14 | 8.5 | 4.6 | 12.7 | 4.9 | 13.5 | 7.0 | 14.4 | 4.4 | 14.0 | 5.0 |
| 15 | 11.8 | 6.0 | 13.2 | 5.2 | 16.5 | 5.7 | 17.2 | 5.0 | 12.5 | 6.5 |
| 16 | 13.2 | 5.3 | 14.8 | 2.6 | 16.3 | 6.1 | 17.2 | 6.6 | 13.3 | 5.4 |
| 17 | 11.6 | 6.0 | 15.1 | 1.9 | 14.7 | 3.2 | 15.0 | 5.0 | 12.4 | 2.9 |
| 18 | 11.1 | 3.8 | 14.7 | 0.3 | 13.9 | 2.2 | 14.4 | 1.1 | 12.3 | 1.3 |
| 19 | 12.0 | 2.1 | 13.8 | 0.1 | 14.7 | 2.1 | 16.1 | 1.6 | 11.5 | -0.3 |
| 20 | 11.0 | 1.6 | 14.8 | -1.0 | 14.0 | 1.4 | 15.0 | 0.0 | 12.6 | -0.7 |
| 21 | 8.8 | 0.5 | 11.4 | -1.6 | 12.3 | 0.8 | 13.3 | -1.1 | 13.0 | 0.4 |
| 22 | 9.0 | 2.8 | 12.8 | -0.8 | 14.4 | 1.1 | 13.3 | -1.1 | 18.5 | 2.2 |
| 23 | 5.1 | 3.0 | 10.4 | 1.3 | 12.1 | 5.2 | 16.1 | 3.9 | 14.0 | 5.2 |
| 24 | 10.1 | 3.1 | 11.2 | 6.8 | 9.4 | 7.1 | 16.7 | 8.3 | 11.6 | 6.6 |
| 25 | 10.7 | 0.7 | 11.7 | 1.4 | 10.7 | 1.4 | 12.8 | 3.3 | 11.0 | 1.5 |
| 26 | 10.8 | 0.2 | 10.8 | 0.1 | 12.8 | 2.5 | 15.7 | 0.0 | 12.2 | -2.0 |
| 27 | 12.1 | -1.2 | 10.6 | -1.6 | 13.0 | 0.6 | 15.6 | 0.5 | 12.1 | -2.3 |
| 28 | 13.0 | -2.9 | 12.2 | -1.3 | 15.0 | -0.3 | 17.2 | -1.1 | 15.0 | -3.5 |
| 29 | 13.2 | -2.2 | 14.3 | -1.3 | 13.7 | 1.4 | 16.1 | -1.7 | 19.2 | 0.2 |
| 30 | 9.4 | 3.3 | 10.3 | 1.3 | 13.8 | 3.1 | 14.4 | 1.6 | 17.3 | 3.7 |
| 31 | 14.1 | 3.3 | 14.1 | 4.1 | 11.6 | 6.2 | 15.6 | 4.4 | 15.0 | 1.7 |
| MEANS | 12.6 | 2.8 | 14.7 | 1.9 | 15.5 | 5.0 | 17.4 | 3.8 | 15.5 | 2.9 |
| DEPARTURE FROM NORMAL | **** | **** | 0.0 | -0.9 | -0.3 | -1.1 | +0.1 | -2.2 | +0.7 | +0.2 |

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

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TABLE 4-b.

درجات الحرارة العظمى و الصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | حبانية | | بغداد | | نخيب | | ي | |
|---|---|---|---|---|---|---|---|---|
| | HABBANIYA | | BAGHDAD | | NUKHAIB | | HAI | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 17.4 | 2.5 | 18.0 | 1.9 | 16.0 | -1.2 | 21.8 | 1.2 |
| 2 | 18.4 | 0.2 | 20.4 | -1.4 | 16.8 | -0.7 | 22.8 | 5.8 |
| 3 | 18.1 | 0.3 | 20.5 | -1.0 | 17.6 | -1.2 | 22.4 | 4.0 |
| 4 | 19.0 | 3.6 | 19.4 | 4.2 | 18.0 | 0.0 | 22.0 | 2.6 |
| 5 | 19.2 | 1.8 | 20.6 | 2.6 | 19.8 | 1.8 | 21.0 | 3.1 |
| 6 | 22.1 | 1.8 | 22.2 | 4.6 | 19.6 | 0.8 | 23.2 | 5.2 |
| 7 | 22.9 | 2.6 | 22.6 | 5.0 | 21.3 | 1.6 | 23.4 | 3.0 |
| 8 | 21.4 | 7.8 | 23.0 | 7.2 | 18.0 | 8.0 | 22.8 | 4.2 |
| 9 | 25.2 | 12.8 | 25.2 | 11.5 | 22.0 | 7.6 | 25.6 | 11.3 |
| 10 | 16.6 | 12.6 | 18.3 | 14.2 | 17.6 | 10.4 | 20.8 | 13.2 |
| 11 | 19.8 | 10.4 | 15.2 | 11.2 | 16.0 | 3.5 | 18.1 | 11.6 |
| 12 | 15.2 | 10.6 | 14.8 | 3.5 | 13.0 | 5.6 | 15.6 | 10.8 |
| 13 | 15.9 | 6.4 | 12.3 | 5.3 | 15.0 | 2.6 | 14.6 | 8.6 |
| 14 | 15.3 | 5.0 | 13.6 | 4.8 | 16.0 | 2.2 | 14.1 | 4.6 |
| 15 | 15.1 | 3.4 | 16.2 | 1.5 | 16.3 | 4.8 | 14.2 | 3.0 |
| 16 | 16.0 | 3.3 | 16.4 | 4.6 | 15.5 | 2.2 | 17.4 | 3.6 |
| 17 | 15.8 | 4.8 | 15.4 | 4.6 | 15.6 | 3.1 | 16.1 | 3.8 |
| 18 | 13.6 | 1.5 | 13.6 | 0.2 | 14.2 | 0.6 | 16.6 | 4.3 |
| 19 | 14.7 | 1.0 | 14.8 | -0.2 | 13.0 | 0.5 | 16.4 | 2.8 |
| 20 | 14.3 | 2.0 | 13.8 | 0.0 | 12.6 | -1.0 | 16.1 | 1.0 |
| 21 | 13.4 | 0.1 | 13.8 | -1.0 | 16.3 | -1.8 | 13.8 | 0.3 |
| 22 | 14.7 | 2.2 | 14.6 | 1.1 | 16.6 | 0.0 | 15.7 | 2.3 |
| 23 | 17.8 | 5.2 | 17.1 | 4.5 | 20.5 | 2.1 | 18.3 | 3.0 |
| 24 | 12.5 | 6.0 | 15.3 | 7.8 | 15.0 | 6.2 | 19.2 | 8.5 |
| 25 | 11.9 | 2.1 | 13.2 | 2.4 | 12.6 | 3.3 | 15.8 | 6.8 |
| 26 | 11.7 | -0.3 | 13.2 | -1.0 | 12.3 | -2.6 | 14.2 | -1.0 |
| 27 | 12.3 | -0.3 | 12.8 | -1.9 | 11.6 | -5.0 | 15.3 | -1.2 |
| 28 | 13.4 | -1.7 | 13.6 | -1.4 | 13.3 | -5.2 | 15.3 | -1.8 |
| 29 | 13.4 | -2.0 | 14.0 | -3.0 | 12.5 | -2.5 | 15.4 | -1.2 |
| 30 | 15.3 | 1.0 | 14.2 | -0.6 | 13.0 | -1.6 | 17.0 | 1.0 |
| 31 | 16.2 | 4.1 | 16.1 | 3.8 | 12.1 | -0.8 | 17.8 | 5.4 |
| MEANS | 16.4 | 3.9 | 16.6 | 3.1 | 15.8 | 1.4 | 18.2 | 4.2 |
| DEPARTURE FROM NORMAL | -1.1 | -1.9 | -1.1 | -2.1 | .... | .... | -0.8 | -2.6 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| HABBANIYA | 30.6 | 5th | 1959 | -6.7 | 5th | 1941 |
| BAGHDAD | 26.6 | 3rd | 1956 | -6.7 | 5th | 1941 |
| NUKHAIB | 24.0 | 21st | 1963 | -5.5 | 29th | 1963 |
| HAI | 28.9 | 1st | 1943 | -4.6 | 12th | 1956 |

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TABLE 4-c.

درجات الحرارة العظمى والصغرى اليومية ( سنتغراد )

DAILY MAXIMUM AND MINIMUM TEMPERATURES ( C°)

| | نجف | | ديوانية | | ناصرية | | بصرة | |
|---|---|---|---|---|---|---|---|---|
| | NAJAF | | DIWANIYA | | NASIRIYA | | BASRAH | |
| الايام | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى | عظمى | صغرى |
| DATE | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. |
| 1 | 17.2 | 1.2 | 19.5 | 0.8 | 18.9 | 2.1 | 19.6 | 1.4 |
| 2 | 16.8 | 1.8 | 20.6 | 0.0 | 19.1 | 0.9 | 22.4 | 1.6 |
| 3 | 17.5 | 1.4 | 21.6 | 1.9 | 19.6 | 0.3 | 22.7 | 1.8 |
| 4 | 17.5 | 2.5 | 20.2 | 1.7 | 18.9 | 1.6 | 21.9 | 2.2 |
| 5 | 20.2 | 3.2 | 22.6 | 2.7 | 19.8 | 2.5 | 20.8 | 3.2 |
| 6 | 21.5 | 3.2 | 24.8 | 4.2 | 22.1 | 6.1 | 22.8 | 3.3 |
| 7 | 22.2 | 5.5 | 24.7 | 4.8 | 22.8 | 4.8 | 24.0 | 4.5 |
| 8 | 25.3 | 6.8 | 24.6 | 7.0 | 24.2 | 6.2 | 25.9 | 5.2 |
| 9 | 25.8 | 11.6 | 26.2 | 13.4 | 25.3 | 12.0 | 24.8 | 10.5 |
| 10 | 18.5 | 12.0 | 18.8 | 14.7 | 18.4 | 15.3 | 21.5 | 14.2 |
| 11 | 17.4 | 9.0 | 17.0 | 12.3 | 20.7 | 12.2 | 20.8 | 14.1 |
| 12 | 15.6 | 6.0 | 13.6 | 7.5 | 17.8 | 8.2 | 19.0 | 13.7 |
| 13 | 15.3 | 7.0 | 13.5 | 6.9 | 14.0 | 7.7 | 17.7 | 12.0 |
| 14 | 16.4 | 4.0 | 16.5 | 3.0 | 13.5 | 3.5 | 12.6 | 6.5 |
| 15 | 17.5 | 5.5 | 16.6 | 2.3 | 14.3 | 3.2 | 11.8 | 6.5 |
| 16 | 17.8 | 3.5 | 18.0 | 3.6 | 16.7 | 4.2 | 14.1 | 6.4 |
| 17 | 16.2 | 5.6 | 17.4 | 6.5 | 17.6 | 4.9 | 16.0 | 7.2 |
| 18 | 14.0 | 3.2 | 14.8 | 2.0 | 15.8 | 3.4 | 19.0 | 4.8 |
| 19 | 13.2 | 0.2 | 15.4 | 0.8 | 14.8 | 2.0 | 16.4 | 4.6 |
| 20 | 14.4 | 1.2 | 15.0 | 1.6 | 15.8 | 2.3 | 16.5 | 2.1 |
| 21 | 14.5 | 0.5 | 14.7 | 0.2 | 14.8 | 1.3 | 16.0 | 1.3 |
| 22 | 16.2 | 2.1 | 16.5 | 1.6 | 16.8 | 0.3 | 16.4 | 1.7 |
| 23 | 19.8 | 5.0 | 19.3 | 4.5 | 19.3 | 3.3 | 20.7 | 4.0 |
| 24 | 15.4 | 7.5 | 18.5 | 7.6 | 21.4 | 9.2 | 22.2 | 8.5 |
| 25 | 13.5 | 6.1 | 15.6 | 6.6 | 14.9 | 7.5 | 15.1 | 9.7 |
| 26 | 11.3 | -1.0 | 13.0 | -1.0 | 13.9 | 0.9 | 15.2 | 4.8 |
| 27 | 13.4 | 1.0 | 14.3 | -0.8 | 14.8 | -3.2 | 16.0 | -1.0 |
| 28 | 12.8 | -2.5 | 13.6 | -1.6 | 14.9 | -0.7 | 15.8 | -1.1 |
| 29 | 14.4 | -2.3 | 14.9 | -2.2 | 15.5 | -2.3 | 15.7 | -0.9 |
| 30 | 17.0 | 1.0 | 17.2 | 0.8 | 16.1 | -1.0 | 15.5 | -0.8 |
| 31 | 15.5 | 3.2 | 16.4 | 4.5 | 16.4 | 5.6 | 18.4 | 3.8 |
| MEANS | 16.9 | 3.7 | 17.9 | 3.8 | 17.7 | 4.0 | 18.6 | 5.0 |
| DEPARTURE FROM NORMAL | .... | .... | -0.5 | -1.3 | -1.1 | -3.1 | -1.0 | -3.5 |

| STATIONS | HIGHEST MAX. | DAY | YEAR | LOWEST MIN. | DAY | YEAR |
|---|---|---|---|---|---|---|
| NAJAF | 25.8 | 9th | 1964 | -2.5 | 28th | 1964 |
| DIWANIYA | 27.8 | 14th | 1943 | -5.6 | 30th | 1948 |
| NASIRIYA | 28.2 | 5th | 1956 | -5.0 | 6th | 1941 |
| BASRAH | 30.4 | 1st | 1962 | -2.6 | 13th | 1956 |

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

MONTHLY MEAN DRY-BULB TEMPERATURES ( C° )

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | T I M E - G. M. T. | | | | | |
| SINJAR | ... | 5.6 | 7.7 | 11.2 | 11.7 | 10.1 | 7.6 | ... | 9.0 |
| MOSUL | 4.1 | 3.7 | 5.3 | 10.5 | 13.8 | 9.8 | 7.9 | 5.2 | 7.5 |
| KIRKUK | 6.8 | 5.3 | 9.2 | 13.9 | 14.7 | 10.9 | 8.6 | 7.5 | 9.7 |
| KHANAQIN | ... | 5.4 | 9.1 | 15.3 | 16.6 | 12.4 | 8.8 | ... | 11.3 |
| RUTBAH | 4.7 | 3.8 | 6.3 | 12.6 | 14.6 | 10.5 | 7.5 | 6.2 | 8.3 |
| HABBANIYA | 5.4 | 4.4 | 7.1 | 14.1 | 15.9 | 11.5 | 8.7 | 7.1 | 9.3 |
| BAGHDAD | 5.7 | 4.6 | 7.2 | 14.1 | 15.7 | 12.3 | 9.3 | 7.0 | 9.5 |
| NUKHAIB | ... | ... | 7.0 | 12.2 | 15.3 | 13.4 | ... | ... | 12.0 |
| HAI | 6.2 | 5.3 | 8.0 | 15.9 | 17.8 | 12.5 | 9.5 | ... | 10.7 |
| NAJAF | 5.3 | 4.5 | 8.1 | 14.2 | 16.6 | 13.5 | 10.5 | 8.5 | 9.9 |
| DIWANIYA | 6.0 | 4.5 | 8.5 | 15.8 | 17.6 | 13.1 | 9.5 | 7.8 | 10.4 |
| NASIRIYA | 5.5 | 5.1 | 7.6 | 14.7 | 17.3 | 13.8 | 10.7 | 8.4 | 10.5 |
| BASRAH | 7.2 | 6.1 | 9.7 | 15.9 | 17.5 | 13.1 | 10.9 | 9.3 | 11.2 |

TABLE 6. المعدل الشهري لضغط البخار ( مليبار )

MONTHLY MEAN VAPOUR-PRESSURE (MILLIBARS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 5.3 | 5.8 | 6.5 | 6.1 | 6.2 | 6.0 | ... | 6.0 |
| MOSUL | 6.7 | 6.6 | 6.9 | 7.9 | 7.6 | 8.0 | 7.6 | 7.1 | 7.3 |
| KIRKUK | 6.1 | 5.9 | 6.2 | 6.2 | 6.3 | 6.9 | 6.8 | 6.3 | 6.3 |
| KHANAQIN | ... | 6.2 | 6.7 | 7.4 | 7.5 | 7.5 | 7.2 | ... | 6.1 |
| RUTBAH | 6.4 | 6.4 | 6.4 | 7.2 | 7.2 | 7.5 | 7.2 | 6.8 | 6.9 |
| HABBANIYA | 7.2 | 7.2 | 7.9 | 7.8 | 8.3 | 8.6 | 8.2 | 7.8 | 7.3 |
| BAGHDAD | 6.9 | 6.8 | 7.1 | 8.3 | 7.8 | 8.3 | 7.8 | 7.4 | 7.6 |
| NUKHAIB | ... | ... | 6.6 | 7.5 | 7.1 | 6.9 | ... | ... | 7.0 |
| HAI | 7.1 | 7.2 | 7.7 | 8.7 | 8.5 | 9.2 | 8.4 | ... | 8.1 |
| NAJAF | 6.9 | 5.8 | 6.3 | 6.8 | 7.0 | 7.0 | 6.6 | 6.3 | 6.6 |
| DIWANIYA | 6.9 | 6.6 | 7.5 | 7.9 | 8.1 | 8.3 | 7.9 | 7.6 | 7.6 |
| NASIRIYA | 6.7 | 6.3 | 6.6 | 7.9 | 7.8 | 8.7 | 8.0 | 7.5 | 7.4 |
| BASRAH | 8.4 | 7.8 | 8.5 | 8.9 | 9.4 | 9.8 | 10.0 | 9.3 | 9.0 |

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

MONTHLY MEAN WET-BULB TEMPERATURES (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | 2.6 | 4.3 | 6.8 | 6.8 | 5.8 | 4.4 | ... | 5.1 |
| MOSUL | 2.9 | 2.6 | 3.9 | 7.6 | 8.9 | 7.2 | 5.2 | 3.9 | 5.3 |
| KIRKUK | 4.0 | 3.6 | 5.5 | 8.1 | 8.5 | 6.9 | 5.6 | 4.6 | 5.9 |
| KHANAQIN | ... | 3.3 | 5.8 | 9.6 | 10.3 | 8.1 | 6.1 | ... | 7.2 |
| RUTBAH | 3.0 | 2.6 | 4.0 | 8.1 | 9.1 | 7.3 | 5.4 | 4.2 | 5.5 |
| HABBANIYA | 4.1 | 3.4 | 5.5 | 9.8 | 10.4 | 8.4 | 7.7 | 5.4 | 6.8 |
| BAGHDAD | 4.0 | 3.2 | 5.1 | 9.4 | 10.2 | 8.6 | 6.7 | 5.4 | 6.6 |
| NUKHAIB | ... | ... | 4.6 | 8.0 | 9.4 | 8.2 | ... | ... | 7.5 |
| HAI | 4.5 | 3.8 | 5.9 | 10.7 | 11.2 | 9.3 | 7.2 | ... | 7.5 |
| NAJAF | 3.7 | 2.6 | 4.9 | 8.6 | 9.9 | 8.4 | 6.6 | 5.2 | 6.2 |
| DIWANIYA | 4.1 | 3.0 | 5.8 | 10.2 | 10.8 | 8.9 | 6.7 | 5.7 | 6.9 |
| NASIRIYA | 4.3 | 3.1 | 4.8 | 9.6 | 10.8 | 9.6 | 7.5 | 5.9 | 7.0 |
| BASRAH | 5.8 | 4.7 | 7.3 | 10.8 | 11.6 | 10.0 | 8.9 | 7.5 | 8.3 |

TABLE 8. المعدل الشهري لدرجة الندى ( سنتغراد )

MONTHLY MEAN DEW-POINT (C°)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | ... | -2.2 | -1.2 | 0.5 | 0.2 | -0.6 | -0.6 | ... | -0.6 |
| MOSUL | 1.1 | 0.8 | 1.3 | 3.3 | 2.7 | 3.6 | 2.8 | 1.9 | 2.2 |
| KIRKUK | -0.4 | -0.8 | -0.2 | -0.3 | -0.2 | 1.4 | 1.0 | 0.1 | 0.1 |
| KHANAQIN | ... | 1.5 | 1.9 | 2.7 | 2.9 | 3.0 | 2.5 | ... | 2.4 |
| RUTBAH | -0.2 | -0.2 | -0.2 | 1.7 | 1.0 | 1.9 | 1.2 | 0.5 | 0.7 |
| HABBANIYA | 2.4 | 1.8 | 3.3 | 4.7 | 3.8 | 4.6 | 3.5 | 2.9 | 3.4 |
| BAGHDAD | 2.3 | 1.7 | 1.7 | 3.8 | 2.9 | 3.8 | 3.0 | 2.2 | 2.5 |
| NUKHAIB | ... | ... | 0.6 | 2.4 | 1.6 | 1.1 | ... | ... | 1.4 |
| HAI | 1.7 | 1.8 | 2.8 | 4.7 | 4.3 | 5.5 | 4.0 | ... | 3.5 |
| NAJAF | 0.5 | -0.5 | 0.7 | 1.1 | 1.7 | 1.6 | 1.3 | -0.4 | 0.8 |
| DIWANIYA | 1.3 | 0.7 | 2.5 | 3.5 | 3.1 | 3.8 | 2.7 | 2.6 | 2.5 |
| NASIRIYA | 0.7 | -0.1 | 0.5 | 3.1 | 3.0 | 4.6 | 3.2 | 2.3 | 2.2 |
| BASRAH | 3.9 | 2.6 | 4.0 | 4.7 | 5.1 | 6.3 | 6.6 | 5.4 | 4.8 |

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TABLE - 9

MONTHLY MEAN RELATIVE HUMIDITY (%)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | [illegible] | [illegible] | 67 | 53 | [illegible] | 45 | [illegible] | [illegible] | 56 |
| MOSUL | 83 | 83 | [illegible] | 52 | 60 | 38 | [illegible] | 83 | 72 |
| KIRKUK | 83 | [illegible] | [illegible] | 42 | 41 | [illegible] | [illegible] | [illegible] | [illegible] |
| KHANAQIN | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 34 | [illegible] | [illegible] | [illegible] |
| RUTBAH | 75 | [illegible] | 86 | 58 | [illegible] | 60 | [illegible] | 74 | [illegible] |
| HABBANIYA | [illegible] | [illegible] | 75 | 57 | 47 | 65 | [illegible] | [illegible] | [illegible] |
| BAGHDAD | 75 | [illegible] | 71 | 53 | 46 | 37 | 50 | [illegible] | [illegible] |
| NUKHAIB | [illegible] | [illegible] | 64 | 53 | 40 | 44 | [illegible] | [illegible] | [illegible] |
| HAI | 76 | [illegible] | 73 | [illegible] | 44 | 64 | [illegible] | [illegible] | 66 |
| NAJAF | 63 | [illegible] | 60 | 43 | 38 | 46 | [illegible] | 58 | [illegible] |
| DIWANIYA | 73 | 75 | 69 | 47 | 42 | 56 | [illegible] | 73 | [illegible] |
| NASIRIYA | 68 | [illegible] | 63 | 49 | 41 | 55 | 65 | [illegible] | [illegible] |
| BASRAH | 79 | [illegible] | 73 | 51 | 48 | [illegible] | 74 | 77 | [illegible] |

TABLE - 10

MONTHLY MEAN PRESSURE (mb.) AT [illegible]

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | [illegible] | 22.[illegible] | 23.[illegible] | 22.5 | 21.5 | 22.[illegible] | [illegible] | [illegible] | 1022.[illegible] |
| MOSUL | 23.[illegible] | [illegible] | 24.[illegible] | 22.0 | 21.5 | 21.9 | 22.7 | 22.9 | 1022.[illegible] |
| KIRKUK | 22.1 | [illegible] | 22.9 | 21.7 | [illegible] | 21.4 | [illegible] | 22.1 | 1021.5 |
| KHANAQIN | [illegible] | 23.4 | 23.0 | 21.5 | 19.9 | 21.0 | [illegible] | [illegible] | 1021.8 |
| RUTBAH | 20.6 | 21.[illegible] | 21.9 | 20.5 | 20.9 | 20.3 | [illegible] | [illegible] | 1020.8 |
| HABBANIYA | 21.5 | [illegible] | 22.[illegible] | 21.6 | 20.3 | 20.[illegible] | 21.4 | 21.1 | 1021.3 |
| BAGHDAD | 21.6 | [illegible] | 23.[illegible] | 21.3 | 20.5 | 20.6 | 21.4 | [illegible] | 1021.[illegible] |
| NUKHAIB | [illegible] | [illegible] | 23.[illegible] | 22.5 | 20.5 | 20.5 | [illegible] | [illegible] | 1021.7 |
| HAI | 20.6 | 20.6 | 21.9 | 21.7 | [illegible] | 20.3 | 20.7 | [illegible] | 1020.[illegible] |
| NAJAF | 20.9 | [illegible] | 22.[illegible] | 20.[illegible] | [illegible] | 20.1 | 19.3 | [illegible] | 1020.[illegible] |
| DIWANIYA | 21.5 | [illegible] | 22.8 | 21.6 | 20.[illegible] | 20.6 | [illegible] | [illegible] | 1020.[illegible] |
| NASIRIYA | 20.6 | [illegible] | 22.[illegible] | 21.0 | 19.5 | 19.8 | 20.9 | [illegible] | 1020.[illegible] |
| BASRAH | 21.0 | [illegible] | 22.5 | 21.2 | 19.9 | 20.3 | 20.0 | 20.7 | 1021.[illegible] |

TABLE - 11

MONTHLY MEAN LOW CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | [illegible] | [illegible] | 1.2 | 1.7 | 1.8 | 1.9 | 1.4 | [illegible] | 1.5 |
| MOSUL | 1.8 | [illegible] | 2.4 | 2.6 | [illegible] | [illegible] | 1.7 | 1.7 | 2.[illegible] |
| KIRKUK | 1.9 | [illegible] | 2.5 | 2.1 | 2.2 | [illegible] | 1.9 | 2.0 | 2.2 |
| KHANAQIN | [illegible] | [illegible] | 2.4 | 2.8 | [illegible] | 2.8 | 2.4 | [illegible] | 2.3 |
| RUTBAH | 1.2 | 1.5 | 1.9 | 1.7 | 2.0 | 1.5 | [illegible] | 0.9 | [illegible] |
| HABBANIYA | 0.9 | 1.3 | 1.3 | 1.4 | 1.6 | 1.0 | 0.8 | 0.5 | 1.4 |
| BAGHDAD | 1.0 | [illegible] | 1.1 | 1.1 | [illegible] | [illegible] | 0.[illegible] | 0.6 | 0.9 |
| NUKHAIB | [illegible] | [illegible] | 1.0 | 1.0 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| HAI | 0.3 | 0.6 | 0.9 | 1.0 | 0.9 | [illegible] | [illegible] | [illegible] | [illegible] |
| NAJAF | 0.5 | 0.5 | 1.1 | 1.1 | 1.0 | [illegible] | [illegible] | 0.5 | 0.8 |
| DIWANIYA | 0.6 | 1.1 | 1.0 | 0.9 | 0.8 | 0.6 | 0.5 | 0.5 | 0.8 |
| NASIRIYA | 0.9 | 1.5 | 1.5 | 1.3 | 0.8 | 0.8 | 0.5 | 0.5 | 1.0 |
| BASRAH | 1.1 | 1.5 | 1.9 | 1.8 | 1.0 | 1.0 | 0.9 | 1.2 | 1.3 |

TABLE 12.

MONTHLY MEAN TOTAL CLOUD AMOUNT (OKTAS)

| STATIONS | 0000 | 0300 | 0600 | 0900 | 1200 | 1500 | 1800 | 2100 | MEANS |
|---|---|---|---|---|---|---|---|---|---|
| SINJAR | [illegible] | 2.9 | 3.5 | 3.6 | 3.5 | 3.5 | 3.0 | [illegible] | [illegible] |
| MOSUL | 2.9 | 3.3 | 3.8 | 3.9 | 3.9 | 3.5 | 2.4 | 2.4 | [illegible] |
| KIRKUK | 2.8 | 3.2 | 3.9 | 3.4 | 3.3 | [illegible] | 2.7 | 3.3 | [illegible] |
| KHANAQIN | [illegible] | 2.9 | 3.1 | 3.2 | 3.5 | 3.6 | 2.4 | [illegible] | 3.1 |
| RUTBAH | 2.5 | 3.3 | 4.0 | 3.5 | 3.8 | 3.0 | 2.8 | [illegible] | 3.7 |
| HABBANIYA | 2.4 | 3.0 | 3.3 | 3.8 | 3.9 | 3.4 | 2.0 | 1.0 | 3.0 |
| BAGHDAD | 2.7 | 2.9 | 3.4 | 3.3 | 3.9 | [illegible] | 2.6 | 2.2 | 3.1 |
| NUKHAIB | [illegible] | [illegible] | 2.7 | 3.1 | 4.0 | 3.7 | [illegible] | [illegible] | 3.4 |
| HAI | 1.8 | 2.7 | 3.4 | 3.3 | 3.3 | 3.4 | 2.2 | [illegible] | 2.9 |
| NAJAF | 1.1 | 1.2 | 2.5 | 3.0 | 3.8 | 2.9 | 1.7 | 1.3 | 2.2 |
| DIWANIYA | 1.8 | 2.4 | 2.3 | 2.5 | 3.1 | 2.8 | 1.9 | 1.7 | 2.3 |
| NASIRIYA | 2.0 | 2.5 | 2.8 | 2.8 | 3.0 | 2.9 | 1.7 | 1.5 | 2.4 |
| BASRAH | 2.8 | 3.2 | 3.4 | 3.2 | 3.2 | 3.1 | 2.5 | 2.9 | 3.2 |

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TABLE 13-a.

SURFACE-WIND. NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت كرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34+ | MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| سنجار SINJAR | 0300 | 12 | 8 | 5 | 0 | 0 | 0 | 0 | 6 | 9 | 21 | 4 | 2 | 0 | 7 |
| | 0600 | 8 | 5 | 5 | 0 | 0 | 0 | 1 | 2 | 4 | 23 | 4 | 0 | 0 | 5 |
| | 0900 | 8 | 3 | 9 | 0 | 4 | 0 | 4 | 1 | 4 | 18 | 7 | 0 | 0 | 6 |
| | 1200 | 3 | 2 | 11 | 0 | 6 | 1 | 3 | 3 | 1 | 20 | 6 | 1 | 2 | 6 |
| | 1500 | 2 | 2 | 6 | 1 | 8 | 0 | 2 | 4 | 3 | 16 | 5 | 1 | 0 | 6 |
| | 1800 | 9 | 1 | 3 | 0 | 1 | 0 | 0 | 2 | 4 | 19 | 7 | 1 | 0 | 6 |
| | TOTAL | 42 | 20 | 45 | 2 | 19 | 1 | 15 | 18 | 28 | 120 | 39 | 5 | 2 | 7 |
| موصل MOSUL | 0000 | 2 | 0 | 3 | 2 | 1 | 0 | 7 | 4 | 9 | 17 | 3 | 2 | 0 | 5 |
| | 0300 | 1 | 0 | 3 | 4 | 2 | 0 | 6 | 7 | 5 | 23 | 2 | 1 | 0 | 5 |
| | 0600 | 4 | 1 | 3 | 2 | 3 | 0 | 2 | 6 | 6 | 24 | 2 | 1 | 0 | 6 |
| | 0900 | 1 | 0 | 2 | 2 | 4 | 0 | 6 | 6 | 5 | 25 | 4 | 1 | 0 | 6 |
| | 1200 | 2 | 1 | 4 | 5 | 4 | 0 | 7 | 4 | 5 | 25 | 3 | 1 | 0 | 6 |
| | 1500 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 5 | 4 | 24 | 3 | 0 | 0 | 5 |
| | 1800 | 3 | 1 | 3 | 3 | 0 | 0 | 2 | 3 | 1 | 14 | 2 | 1 | 0 | 5 |
| | 2100 | 1 | 0 | 3 | 2 | 1 | 0 | 6 | 7 | 1 | 17 | 3 | 0 | 0 | 4 |
| | TOTAL | 17 | 5 | 21 | 29 | 19 | 0 | 31 | 52 | 36 | 167 | 19 | 7 | 1 | 5 |
| كركوك KIRKUK | 0000 | 0 | 9 | 2 | 1 | 0 | 0 | 0 | 1 | 15 | 10 | 0 | 2 | 0 | 3 |
| | 0300 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 18 | 10 | 2 | 1 | 0 | 3 |
| | 0600 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 20 | 10 | 1 | 0 | 0 | 2 |
| | 0900 | 0 | 3 | 4 | 3 | 1 | 0 | 1 | 0 | 18 | 11 | 1 | 0 | 0 | 2 |
| | 1200 | 0 | 4 | 4 | 2 | 2 | 1 | 6 | 0 | 12 | 18 | 1 | 0 | 0 | 3 |
| | 1500 | 0 | 2 | 4 | 0 | 0 | 0 | 1 | 0 | 24 | 5 | 2 | 0 | 0 | 2 |
| | 1800 | 0 | 10 | 2 | 0 | 0 | 0 | 1 | 0 | 18 | 10 | 1 | 1 | 0 | 3 |
| | 2100 | 0 | 10 | 3 | 1 | 0 | 0 | 1 | 0 | 16 | 12 | 2 | 1 | 0 | 3 |
| | TOTAL | 0 | 55 | 26 | 7 | 3 | 1 | 10 | 0 | 146 | 86 | 11 | 5 | 0 | 3 |
| خانقين KHANAQIN | 0300 | 0 | 0 | 16 | 1 | 1 | 0 | 1 | 1 | 11 | 19 | 1 | 0 | 0 | 3 |
| | 0600 | 0 | 1 | 10 | 1 | 5 | 0 | 0 | 0 | 14 | 17 | 0 | 0 | 0 | 3 |
| | 0900 | 5 | 1 | 1 | 0 | 6 | 0 | 4 | 6 | 8 | 22 | 0 | 1 | 0 | 3 |
| | 1200 | 3 | 1 | 0 | 0 | 5 | 0 | 12 | 3 | 7 | 22 | 1 | 1 | 0 | 3 |
| | 1500 | 2 | 1 | 4 | 1 | 4 | 0 | 7 | 2 | 10 | 21 | 0 | 0 | 0 | 3 |
| | 1800 | 0 | 1 | 5 | 1 | 3 | 0 | 3 | 0 | 18 | 13 | 0 | 0 | 0 | 2 |
| | TOTAL | 10 | 5 | 36 | 4 | 24 | 0 | 27 | 12 | 68 | 114 | 2 | 2 | 0 | 4 |
| رطبة RUTBAH | 0000 | 1 | 0 | 3 | 1 | 4 | 1 | 3 | 0 | 15 | 10 | 3 | 0 | 0 | 3 |
| | 0300 | 1 | 0 | 1 | 0 | 9 | 0 | 5 | 0 | 15 | 14 | 2 | 0 | 0 | 4 |
| | 0600 | 1 | 1 | 0 | 1 | 6 | 5 | 6 | 2 | 9 | 21 | 1 | 0 | 0 | 4 |
| | 0900 | 2 | 0 | 0 | 2 | 5 | 2 | 4 | 5 | 11 | 17 | 3 | 0 | 0 | 4 |
| | 1200 | 4 | 0 | 2 | 1 | 5 | 1 | 4 | 2 | 12 | 15 | 4 | 0 | 0 | 4 |
| | 1500 | 5 | 0 | 6 | 2 | 1 | 0 | 3 | 1 | 13 | 18 | 0 | 0 | 0 | 3 |
| | 1800 | 1 | 2 | 2 | 3 | 1 | 2 | 1 | 1 | 18 | 12 | 1 | 0 | 0 | 3 |
| | 2100 | 4 | 0 | 1 | 2 | 2 | 2 | 3 | 0 | 17 | 14 | 0 | 0 | 0 | 3 |
| | TOTAL | 19 | 3 | 15 | 12 | 33 | 13 | 29 | 11 | 113 | 121 | 14 | 0 | 0 | 3 |

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TABLE 13-b. — عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطة STATIONS | وقت گرينتش TIME GMT | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | CALM هادئ | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | >34 | MEAN V.K. متوسط السرعة بالعقد |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| حبانية HABBANIYA | 0000 | 1 | 0 | 7 | 1 | 0 | 0 | 6 | 3 | 13 | 17 | 0 | 1 | 0 | 4 |
| | 0300 | 1 | 1 | 6 | 0 | 0 | 0 | 5 | 4 | 15 | 13 | 1 | 0 | 0 | 4 |
| | 0600 | 0 | 1 | 5 | 2 | 0 | 0 | 2 | 4 | 10 | 16 | 5 | 0 | 0 | 6 |
| | 0900 | 0 | 2 | 4 | 2 | 4 | 1 | 2 | 9 | 1 | 20 | 2 | 0 | 0 | 8 |
| | 1200 | 2 | 3 | 4 | 2 | 6 | 0 | 4 | 5 | 5 | 21 | 5 | 0 | 0 | 7 |
| | 1500 | 1 | 2 | 4 | 2 | 0 | 0 | 8 | 5 | 15 | 13 | 3 | 0 | 0 | 4 |
| | 1800 | 0 | 2 | 8 | 1 | 0 | 0 | 3 | 3 | 15 | 14 | 1 | 0 | 0 | 4 |
| | 2100 | 1 | 1 | 5 | 2 | 2 | 0 | 4 | 3 | 13 | 14 | 4 | 0 | 0 | 5 |
| | TOTAL | 6 | 9 | 42 | 12 | 12 | 1 | 44 | 36 | 86 | 128 | 30 | 4 | 0 | 5 |
| بغداد BAGHDAD | 0000 | 0 | 1 | 2 | 5 | 0 | 0 | 0 | 10 | 13 | 14 | 5 | 0 | 0 | 4 |
| | 0300 | 0 | 0 | 2 | 5 | 0 | 0 | 1 | 9 | 14 | 14 | 3 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 2 | 5 | 1 | 0 | 0 | 11 | 12 | 16 | 3 | 0 | 0 | 4 |
| | 0900 | 0 | 0 | 1 | 6 | 0 | 0 | 5 | 11 | 8 | 16 | 6 | 1 | 0 | 5 |
| | 1200 | 5 | 3 | 1 | 5 | 1 | 0 | 1 | 11 | 3 | 21 | 6 | 1 | 0 | 6 |
| | 1500 | 1 | 2 | 4 | 2 | 0 | 0 | 2 | 8 | 12 | 15 | 4 | 0 | 0 | 4 |
| | 1800 | 0 | 0 | 2 | 4 | 0 | 0 | 2 | 7 | 16 | 13 | 2 | 0 | 0 | 4 |
| | 2100 | 0 | 1 | 2 | 5 | 1 | 0 | 2 | 7 | 13 | 15 | 3 | 0 | 0 | 4 |
| | TOTAL | 6 | 7 | 16 | 36 | 3 | 0 | 13 | 74 | 91 | 124 | 30 | 3 | 0 | 3 |
| نخيب NUKHAIB | 0600 | 8 | 1 | 2 | 2 | 2 | 0 | 4 | 3 | 9 | 19 | 2 | 0 | 0 | 4 |
| | 0900 | 8 | 0 | 1 | 5 | 2 | 0 | 2 | 5 | 8 | 19 | 4 | 0 | 0 | 5 |
| | 1200 | 8 | 2 | 0 | 7 | 1 | 0 | 1 | 8 | 4 | 23 | 4 | 0 | 0 | 6 |
| | 1500 | 7 | 2 | 1 | 7 | 1 | 0 | 1 | 7 | 5 | 26 | 0 | 0 | 0 | 4 |
| | TOTAL | 31 | 5 | 4 | 21 | 6 | 0 | 8 | 23 | 26 | 87 | 11 | 0 | 0 | 5 |
| حي HAI | 0000 | 0 | 0 | 4 | 1 | 0 | 0 | 8 | 5 | 13 | 14 | 4 | 0 | 0 | 5 |
| | 0300 | 0 | 0 | 4 | 1 | 0 | 0 | 13 | 3 | 10 | 19 | 2 | 0 | 0 | 5 |
| | 0600 | 0 | 0 | 4 | 2 | 0 | 5 | 12 | 0 | 8 | 20 | 3 | 0 | 0 | 5 |
| | 0900 | 1 | 0 | 4 | 2 | 2 | 0 | 16 | 1 | 5 | 23 | 3 | 0 | 0 | 5 |
| | 1200 | 1 | 1 | 5 | 2 | 0 | 0 | 9 | 6 | 7 | 19 | 5 | 0 | 0 | 5 |
| | 1500 | 0 | 0 | 5 | 1 | 0 | 1 | 9 | 2 | 13 | 15 | 3 | 0 | 0 | 5 |
| | 1800 | 1 | 0 | 6 | 1 | 0 | 0 | 13 | 1 | 9 | 19 | 3 | 0 | 0 | 5 |
| | TOTAL | 3 | 1 | 32 | 10 | 2 | 6 | 80 | 18 | 65 | 129 | 23 | 0 | 0 | 5 |
| نجف NAJAF | 0000 | 11 | 1 | 1 | 4 | 0 | 0 | 2 | 10 | 2 | 27 | 2 | 0 | 0 | 5 |
| | 0300 | 13 | 0 | 1 | 3 | 0 | 0 | 3 | 7 | 4 | 26 | 1 | 0 | 0 | 4 |
| | 0600 | 9 | 2 | 3 | 1 | 0 | 0 | 1 | 9 | 6 | 24 | 1 | 0 | 0 | 4 |
| | 0900 | 8 | 1 | 4 | 3 | 0 | 1 | 2 | 11 | 1 | 26 | 4 | 0 | 0 | 5 |
| | 1200 | 7 | 1 | 4 | 3 | 1 | 0 | 2 | 10 | 3 | 24 | 7 | 0 | 0 | 6 |
| | 1500 | 8 | 3 | 4 | 4 | 0 | 0 | 1 | 8 | 3 | 25 | 3 | 0 | 0 | 5 |
| | 1800 | 10 | 1 | 4 | 4 | 0 | 0 | 0 | 9 | 3 | 24 | 4 | 0 | 0 | 5 |
| | 2100 | 6 | 4 | 1 | 3 | 1 | 0 | 2 | 11 | 3 | 26 | 2 | 0 | 0 | 4 |
| | TOTAL | 72 | 13 | 22 | 25 | 2 | 1 | 13 | 75 | 25 | 199 | 24 | 0 | 0 | 5 |

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TABLE 13-©.

عدد تكرار رصدات الرياح السطحية

SURFACE-WIND, NUMBER OF OBSERVATIONS OF :

| المحطات STATIONS | وقت گرينتش TIME GMT. | DIRECTION الاتجاه N | NE | E | SE | S | SW | W | NW | (ساكن) CALM | SPEED IN KNOTS السرعة بالعقد 1-10 | 11-21 | 22-33 | 34+ | معدل السرعة بالعقد MEAN V.K. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0000 | 0 | 2 | 4 | 2 | 1 | 0 | 11 | 2 | 9 | 19 | 3 | 0 | 0 | 4 |
| | 0300 | 8 | 0 | 0 | 5 | 1 | 1 | 0 | 2 | 8 | 20 | 3 | 0 | 0 | 4 |
| ديوانية | 0600 | 2 | 0 | 4 | 1 | 1 | 0 | 15 | 4 | 4 | 21 | 6 | 0 | 0 | 6 |
| | 0900 | 4 | 0 | 2 | 2 | 2 | 0 | 16 | 1 | 4 | 14 | 12 | 1 | 0 | 8 |
| DIWANIYA | 1200 | 5 | 1 | 3 | 3 | 2 | 0 | 10 | 4 | 3 | 19 | 8 | 1 | 0 | 8 |
| | 1500 | 4 | 1 | 2 | 1 | 2 | 0 | 7 | 2 | 12 | 14 | 5 | 0 | 0 | 6 |
| | 1800 | 0 | 0 | 7 | 1 | 1 | 0 | 9 | 3 | 10 | 14 | 7 | 0 | 0 | 6 |
| | 2100 | 2 | 1 | 7 | 2 | 1 | 0 | 6 | 4 | 8 | 19 | 4 | 0 | 0 | 5 |
| | TOTAL | 25 | 5 | 29 | 17 | 11 | 1 | 74 | 22 | 58 | 140 | 48 | 2 | 0 | 6 |
| | 0000 | 0 | 0 | 0 | 4 | 3 | 0 | 7 | 10 | 7 | 23 | 1 | 0 | 0 | 4 |
| ناصرية | 0300 | 0 | 0 | 0 | 4 | 4 | 3 | 8 | 5 | 7 | 23 | 1 | 0 | 0 | 4 |
| | 0600 | 0 | 0 | 0 | 4 | 3 | 4 | 10 | 8 | 2 | 26 | 2 | 0 | 0 | 5 |
| | 0900 | 1 | 1 | 0 | 4 | 2 | 1 | 7 | 13 | 2 | 23 | 6 | 0 | 0 | 6 |
| NASIRIYA | 1200 | 4 | 2 | 1 | 4 | 2 | 0 | 5 | 11 | 2 | 25 | 4 | 0 | 0 | 7 |
| | 1500 | 1 | 1 | 3 | 3 | 0 | 0 | 3 | 11 | 9 | 21 | 3 | 0 | 0 | 4 |
| | 1800 | 2 | 0 | 4 | 4 | 0 | 0 | 6 | 6 | 9 | 21 | 3 | 0 | 0 | 4 |
| | 2100 | 0 | 0 | 1 | 5 | 3 | 1 | 5 | 7 | 9 | 21 | 1 | 0 | 0 | 4 |
| | TOTAL | 8 | 4 | 9 | 32 | 17 | 9 | 51 | 71 | 47 | 183 | 18 | 0 | 0 | 5 |
| | 0000 | 2 | 2 | 1 | 2 | 1 | 0 | 9 | 10 | 4 | 25 | 2 | 0 | 0 | 3 |
| بصرة | 0300 | 5 | 1 | 1 | 3 | 1 | 0 | 13 | 7 | 0 | 30 | 1 | 0 | 0 | 4 |
| | 0600 | 2 | 0 | 2 | 1 | 3 | 1 | 11 | 9 | 2 | 26 | 3 | 0 | 0 | 5 |
| | 0900 | 5 | 2 | 0 | 4 | 1 | 1 | 6 | 11 | 1 | 25 | 5 | 0 | 0 | 7 |
| BASRAH | 1200 | 8 | 1 | 0 | 3 | 2 | 0 | 3 | 11 | 3 | 23 | 5 | 0 | 0 | 6 |
| | 1500 | 2 | 1 | 2 | 2 | 3 | 0 | 0 | 20 | 1 | 28 | 2 | 0 | 0 | 5 |
| | 1800 | 5 | 2 | 1 | 4 | 2 | 0 | 1 | 13 | 3 | 27 | 1 | 0 | 0 | 4 |
| | 2100 | 5 | 3 | 3 | 3 | 2 | 1 | 5 | 9 | 0 | 30 | 1 | 0 | 0 | 4 |
| | TOTAL | 34 | 12 | 10 | 22 | 15 | 3 | 48 | 90 | 14 | 214 | 20 | 0 | 0 | 5 |

TABLE 14 .

اعلى سرعة ريح حدثت خلال ساعة

HIGHEST WIND-SPEED, DURING ONE HOUR.

| STATIONS | HIGHEST WIND-SPEED DURING ONE HOUR (V.K.) | DIRECTION | TIME GMT. | DAY |
|---|---|---|---|---|
| SINJAR | 36 knots | 090 | 1200 | 9th |
| MOSUL | 35 | 090 | 0900 | 9th |
| KIRKUK | 25 | 070 | 0000 | 10th |
| KHANAQIN | 26 | 180 | 0900 | 24th |
| RUTBAH | 16 | 090 | 0300 | 10th |
| HABBANIYA | 24 | 120 | 1800 | 10th |
| BAGHDAD | 25 | 120 | 1200 | 9th |
| HAI | 22 | 090 | 1200 | 10th |
| NUKHAIB | 16 | 350 | 1200 | 16th |
| NAJAF | 18 | 140 | 0000 | 10th |
| DIWANIYA | 26 | 160 | 1200 | 10th |
| NASIRIYA | 17 | 130 | 0600 | 11th |
| BASRAH | 18 | 180 | 0900 | 24th |

DECEMBER 1964 . TABLE - 16.

150 689 ( 20 )

كانون الأول ١٩٦٤

الملخصات المناخية

## CLIMATOLOGICAL SUMMARY

NUMBER OF DAYS FOR THE CASES OF PHENOMENA

| STATIONS | RAIN | SNOW | HAIL | THUNDER STORM | FOG | MIST | HAZE | RISING DUST | SUSPENDED DUST | DUST STORM | GROUND FROST | STATE OF SKY CLEAR | STATE OF SKY CLOUDY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SINJAR | 9 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 19 | 6 |
| MOSUL | 6 | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 6 | 13 | 5 |
| KIRKUK | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 10 | 13 | 8 |
| KHANAQIN | 5 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 11 | 5 |
| RUTBAH | 6 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 10 | 5 |
| HABBANIYA | 3 | 0 | 0 | 0 | 3 | 15 | 6 | 3 | 3 | 3 | 9 | 13 | 3 |
| BAGHDAD | 3 | 0 | 0 | 0 | 6 | 14 | 15 | 2 | 2 | 1 | 18 | 13 | 3 |
| NUKHAIB | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 11 | 8 | 6 |
| HAI | 3 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 0 | 3 | 12 | 2 |
| NAJAF | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 3 | 15 | 0 |
| DIWANIYA | 3 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 2 | 4 | 14 | 1 |
| NASIRIYA | 1 | 0 | 0 | 0 | 4 | 7 | 7 | 4 | 9 | 0 | 4 | 15 | 1 |
| BASRAH | 5 | 0 | 0 | 1 | 4 | 5 | 1 | 0 | 1 | 0 | 13 | 12 | 5 |

TABLE - 17.

DURATION OF SUNSHINE مدة سطوع الشمس

| STATIONS | MONTHLY TOTAL SUNSHINE HOURS | MAX. SUNSHINE DURING A DAY HOURS | MAX. SUNSHINE DURING A DAY DAY | NO. OF DAYS WITHOUT SUNSHINE |
|---|---|---|---|---|
| MOSUL | 175.3 | 9.4 | 25th | 3 |
| HABBANIYA | 203.2 | 9.8 | 1st | 1 |
| BAGHDAD | 173.6 | 9.2 | 28th | 4 |
| BASRAH | 211.0 | 9.8 | 1st | 2 |

TABLE -18

المعدل الشهري لحرارة الحشيش والتربة

MONTHLY MEAN TEMPERATURE OF : ( سنتغراد )

| STATION | GRASS MINIMUM TEMPERATURE C° | EARTH TEMPERATURE 0.3 M | EARTH TEMPERATURE 1.2 M |
|---|---|---|---|
| MOSUL | .... | 10.7 | .... |
| KIRKUK | 1.1 | 11.7 | 18.7 |
| HABBANIYA | 1.9 | 15.0 | 21.0 |
| BAGHDAD | 1.5 | 16.0 | 21.5 |
| NAJAF | .... | 11.8 | 20.5 |
| NASIRIYA | 3.0 | 14.7 | 22.2 |
| BASRAH | 1.2 | .... | .... |