UNITED ARAB REPUBLIC

MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 1

JANUARY, 1965

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MINISTRY OF SCIENTIFIC RESEARCH—METEOROLOGICAL DEPARTMENT
CAIRO

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PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties as the National Meteorological service for the U.A.R., the Meteorolcgical Department issues several reports and publications on weather climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :—

"The Director General, Meteorological Department, Kubri-el-Qubbeh—CAIRO".

THE DAILY WEATHER REPORT

This report is printed daily in the Meteorological Department. It contains surface and upper air observations carried by the relevant networks of the Republic and made at the four main synoptic hours of observations (00, 06, 12 and 18 U.T.); as well as ship observations over the Eastern Mediterranean and north Red Sea made at the same times.

It also contains two surface synoptic charts at 00 and 12 U.T. and two upper air charts for the standard isobaric surfaces 700 & 500 mbs. at both 00 and 12 U.T.

In compliance with resolution 8 (EC-XIII) of WMO, foreign upper air data included in Cairo Subregional Broadcast are also given in this report.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year .

CLIMATOLOGICAL NORMALS FOR EGYPT

The normals, long averages and statistical data are given in one edition for stations in Egypt from the date of opening of each station up to 1945, A new voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

Printed at the General Organisation
for Government Printing Offices Cairo
Under-Secretary of State

ALY SULTAN ALY

Chairman of the Board of Directors

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FOREWORD

Since 1909 the Meteorological Department of Egypt has been issuing regularly the Monthly Weather Report, giving a brief summary of the weather conditions prevailing over Egypt during the month. These reports used to include a table giving limited climatological data for some selected surface observations.

On January 1954, the Monthly Weather Report has been revised and the general summary of the weather conditions has been extended to give a more detailed description of the synoptic situations and the associated weather prevailing during the month.

On February 1955 a further extension took place, the general summary of the weather conditions has been classified into different items to give more comprehensive information. More detailed surface climatological tables for selected stations and table for miscellaneous weather phenomena have been added to the Report.

On January 1956, the climatological tables included in the Report have been extended to include upper air climatogical data to meet the increasing demand for this information.

In addition the full text of the monthly report of the standard observations taken at the Central Agro-Meteorological Station at Giza has been included in this Report instead of issuing it as a separate bulletin.

On January 1957, the Report has been completely revised, a new set of meteorological tables has been introduced to give, as far as possible, complete information for surface and upper air data from a more representative network of stations.

In addition, a general review of the observations taken in the fields of the plant breeding farm at Giza is included in the Report. The review gives a brief summary of the characteristic features of the different meteorological and micrometeorological elements of the month, more weight is given in this review to those elements which are of interest to agriculturists.

Starting from the Report of January 1958, the Monthly Weather Report for the U.A.R. included a detailed description of the synoptic situations and the associated weather experienced all over the Republic during the month. The Report included a new set of tables giving more detailed surface and upper air climatological data for selected stations in the Republic. The review of the Agrometeorological station at Giza and the normal observations made at the field of the station were also included in the Report.

As from January 1960, these tables have been totally revised and some new tables have been introduced to include more detailed climatological data.

In order to explain how the tables included in these Monthly Weather Reports have been compiled, detailed notes are included in the Report of January 1960 giving informations about the instruments used and their exposure, the methods of observations and the methods of computing the means and frequencies.

As from January 1964, the Monthly Weather Report was again totally revised. The number of meteorological stations appearing in the Report have been concentrated in the main synoptic stations working mostly continuously 24 hours. In addition climatological data included in the Report will be confined to the montlly mean values, monthly totals, monthly frequencies and monthly absolute values. More specific climatological data have to be requested from the Meteorological Department.

Starting from the Report of January 1958, the monthly Weather Report of the U.A.R. carries serial reference in volume and number; each year carries a serial number in volume, Number I, being for January and 12 for December. The reference number of January 1958 is volume I, number I.

Cairo, 19–5–1970

M. F. TAHA

Under Secretary of State
Director General
Meteorological Department

INTRODUCTION AND EXPLANATION OF THE TABLES

For the purpose of this Monthly Weather Report, the United Arab Republic is divided into six climatic districts as follows:—

Number	District	Number	District
I	Mediterranean Area	IV	Upper Egypt
II	Lower Egypt	V	Western Desert
III	Cairo Area	VI	Red Sea Area

The data included in Tables A1, A2, A3, A4 & A5, are based on surface observations made at a representative selection of the basic network of synoptic stations. The data included in Tables B1, B2 & B3 refer to Upper Air observations. The data included in Tables C1,C2, C3,C4 & C5, are based on observations taken at the Central Agro-Meteorological station at Giza and the Agro-Meteorological stations at Tahrir, El Kasr and Kharga. The observation field at Giza is divided into several plots, each of area about 400 to 600 square metres, three of these plots are used for standard observations running throughout the whole year, the first serves as a dry and bare field, the second as a wet and bare field and the third as a wet field covered with grass (libia). The observation fields at Tahrir, El Kasr and Kharga are considered for the moment as dry and bare fields. At Kharga Oasis, the observation field is of the size of about 4000 - 6000 square metres.

The soil characteristics of these fields are:

	EL KASR	TAHRIR	GIZA	KHARGA
Top soil type	not available at present	Pure sand	Permeable clay	Sandy loam granular non-compact
Top soil depth	,,	More than 3 metres.	More than 1.5 metres	20 cms.
Sub soil type	,,	Pure sand	Clay loam and loam	Platy clay non-compact
Slope of ground and its direction	,,	½ %towards East& North	Flat (0-0.3%)	Flat (0-0.3%)
Level of water table	,,	More than 5 metres	1.0–1.5 m. approximately.	More than 5 metres

Except for the wind speed which is expressed in knots, the metric units are used throughout this report and are as follows :—

— The atmospheric pressure is expressed in millibars (one millibar = 1000 dynes per square centimetre = the pressure due to 0.7501 millimetre of mercury at 0°C at latitude 45°),

— Air and soil temperatures in degrees celsius (°C),

— Relative humidity (%),

— Rainfall in millimetres,

— Snow depth in centimetres,

— Duration of bright sunshine in hours,

— Sky cover in oktas,

— Evaporation in millimetres,

— Altitude of pressure surface in geopotential metres,

— Mean wind speed of the whole day, and of the day - time and the night - time intervals in metres per second,

— (Solar + Sky) radiation in gram-calories per centimetre square,

— Vapour pressure in millimetres.

TABLE A1.— Monthly values of the Atmospheric Pressure, Air Temperature, Relative Humidity, Bright Sunshine Duration & Piche Evaporation

Atmospheric Pressure.

The monthly mean values of the daily atmospheric pressure corrected to Mean Sea Level (M.S.L.) are the arithmetic means over the month of their corresponding daily hourly values or of the daily observations taken at the 8 synoptic hours (00,03, 06, 09, 12, 15, 18 & 21 UT). The atmospheric pressure is measured by mercury barometers installed indoors; The Mean Sea Level Pressure (M.S.L.) is the barometer reading corrected for the height of the barometer cistern above or (below) the Mean Sea Level at the station. Corrections for index, temperature and latitude have been applied to the barometer readings before reduction to M.S.L. Deviations from normals appear besides monthly mean values in a separate column.

Air Temperature.

The monthly mean values of the maximum (A) and of the minimum (B) air temperatures are computed from their corresponding daily routine values observed over the month. The maximum (mercury) and the minimum (alcohol) thermometers are freely exposed in the louvred screens with their bulbs at a height of 160 to 170 centimetres above the ground. Deviations from normals appear besides monthly mean values.

The monthly mean values of (A +B)/2 are computed from their corresponding daily calculated values over the month.

The monthly mean values of the dry and of the wet bulb air temperatures are the arithmetic means over the month of their corresponding daily hourly values or of their corresponding values at the 8 synoptic hours (00,03, 06, 09, 12, 15, 18 & 21 UT). The dry and wet bulb thermometers used are of the mercury type and are freely exposed in sloping double roofed louvred screens with their bulbs at a height of 140-150 centimetres above the ground. Deviations from normals appear besides monthly mean values in a separate column.

Relative Humidity

The monthly mean values of the relative humidity are the arithmetic means over the month of its corresponding daily hourly values or of its corresponding values at the 8 synoptic hours (00, 03,06, 09, 12, 15, 18 & 21 U.T). The relative humidity (%) is derived from the dry and wet bulb thermometer readings using Jellink's Psychrometer Tables (Liepzing 1911). No corrections for wind speeds or atmospheric pressure are applied. Deviations from normals appear besides monthly mean values in a separate column.

Bright Sunshine Duration

The actual duration of bright sunshine for the month is the sum of the actual daily bright sunshine durations. The total possible duration for the month is the sum of the daily calculated periods between sunrise and sunset. In calculating the possible duration of sunshine for a given day, the period of cut-off for that day caused by obstacles, such as mountains are eliminated from the possible duration with an ideal flat horizon. In case of stations where the record of day or more is or are missing, the total actual duration is given between brackets and a note is added at the end of the table giving the actual number of records (days) used in summing up this total actual. In such cases the corresponding total possible duration is also given in brackets and it is the sum of the possible duration of the days of the available records. The percentage of the actual to the possible duration appears besides the total possible values in a separate column. The duration of bright sunshine is measured by the campbell-Stokes sunshine recorders which are suitably exposed.

Evaporation (Piche)

The monthly mean value of Piche evaporation is computed from its daily routine values observed at the 0600 UT over the month. Evaporation measurements are taken once daily at 0600 UT and give the evaporation for the previous 24 hours. The evaporation readings are measured by a Piche tube freely exposed in sloping double roofed louvred screens, the evaporation disc has an effective area of 10.1 centimetres square, white in colour, and at a height of 140-150 centimetres above the ground.

TABLE A2.—Maximum & Minimum Air Temperatures

Higher and lower limits of both maximum and minimum temperatures and their corresponding dates of occurrences during the month are extracted from the daily readings of maximum (mercury) and minimum (alcohol) thermometers respectively. These dates are included for acutal occurrences up to three; when exceeding three, the symbol * is added beside the last three dates.

The number of days during the month with maximum air temperature above 25°C, 30°C, 35°C, 40°C & 45°C and with minimum air temperature below 10°C, 5°C, 0°C & —5°C are included also in this table under separate columns.

The types and exposure of the maximum and of the minimum thermometers are as indicated in the notes on table A1.

The monthly mean values of grass minimum temperatures are the arithmetic means over the month of their corresponding daily values. The grass minimum temperature is measured by an ordinary minimum (alcohol) thermometers suitably exposed in the open doors at the station field on special stands with their bulbs at a height of 5 centimetres above ground just touching the grass tops if there is any. Grass minimum theromometers readings are taken daily as a routine base at 0600 U.T. Deviations from normals appear besides mean values in a separate column.

TABLE A3.—Sky Cover & Rainfall

The monthly mean values of the total sky cover at the principal hours (00,06,12 & 18 UT) are computed from their corresponding daily routine values observed during the month. Mean values of the daily total sky cover is the arithmetic mean over the month of the daily hourly values or of the daily observations taken at the 8 synoptic hours (00, 03, 06, 09, 12, 15, 18 & 21 U.T). Sky cover is in octas.

The monthly total rainfall is the total rainfall during the month. The maximum daily rainfall and the number of days with rain < 0.1 and more than or equal 0.1, 1, 5, 10, 25 & 50 mms are extracted from the routine daily rainfall totals during the month. The rainfall for a given day is the amount of rain which has fallen during the 24 hours commencing at 0600U.T of that day; when the amount of rain which has fallen is not large enough to be measured (less than 0.1 mm) the term "Trace" is entered as (Tr.). The amount of rainfall measured includes the water equivalent of the rain water which has frozen after falling and the water equivalent of solid precipitation if any such as hail. Dates of maximum rain in 24 hours are included for actual occurrences up to three; when exceeding three, the symbol* s added besides the last three dates.

The amount of rainfall is normally measured by ordinary rain gauges. Some selected stations are also equipped with a recording type of rain gauge. The rim of both types of gauges are at a height of 90-100 centimetres above the ground.

TABLE A4.— Number of Days of Occurrence of Miscellaneous Weather Phenomena

This table gives the number of days of occurrence of rain, snow, ice pellets, hail, frost, thunderstorm, mist, fog, haze, thick haze , dust or sandrising, dust or sandstorm, gale, clear sky & cloudy sky. Except for rain (see notes on table A3) the days of occurrence of these weather phenomena are those days during which the phenomenon has occurred at any time between 0000, and 2400 local time.

In compiling this table, the terminology and definitions of these different weather phenomena are as follows.

— A day of rain is the day during which the total amount of rainfall is 0.1 millimetre or more.

— A day of snow is the day druing which snow or snow flakes or snow showers is or are observed even if it is or (they are) so small in quantity as to yield no measurable amounts of precipitation in the rain-gauge.

— A day of ice pellets is the day during which ice pellets are observed even if they are so small in quantity as to yield no measurable amounts of precipitation in the rain-gauge.

— A day of hail is the day during which either one or more of the following types of precipitation is or are observed even if they are so small in quantity as to yield no measurable precipitation in the rain-gauge :

— Soft hail
— Small hail
— Hail stone

— A day of frost is the day during which frost is observed at the station.

— A day of thunderstorm is the day during which thunder is heard at the station whether lightning is seen or not. A day on which lightning is seen but thunder is not heard at the station is not counted as a day of thunderstorm.

— A day of mist is the day during which the surface horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to mist.

— A day of fog is the day during which the surface horizontal visibility at the station has deteriorated and fell below 1000 metres due to fog.

— A day of haze is the day during which the horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to haze.

— A day of thick haze is the day during which the horizontal visibility at the station has deteriorated and fell below 1000 metres due to thick haze.

— A day of dust or sandrising is the day during which the horizontal visibility at the station has deteriorated and became equal to or greater than 1000 metres due to dust or sandrising.

— A day of dust or sandstorm is the day during which the horizontal visibility at the station has deteriorated and fell below 1000 metres due to dust or sandstorms.

— A day of gale is the day during which the mean surface wind speed reached or exceeded 34 knots at the station for at least 10 minutes.

— A day of clear sky is the day on which the mean cloud amount at the station is less than 2/8.

— A day of cloudy sky is the day on which the mean cloud amount at the station is 6/8 or more

As regards the last two items above, the mean cloud amount for a day is the mean of the 24 hours, the 8 synoptic hours or the 4 main synoptic hours of cloud observations according to the number of the routine observations taken at the station.

TABLE A5.— Number in Hours of Occurrences of Concurrent Surface Wind Speed and Direction Recorded Within Specified Ranges.

The elements used in preparing this table are the mean hourly values of the surface wind speed and the corresponding mean hourly values of direction taken from the daily records of the surface wind instruments intsalled at the station. These mean hourly values are extracted for every hour of each day of the month and they refer to a period of 60 minutes centred at the hour.

The number in hours of occurrences of the surface wind falling within the ranges of speed and direction indicated in the table is the number of cases when the mean hourly values of the surface wind, as defined have satisfied these ranges.

The number in hours of "variable" winds is the number of cases where the surface wind showed no definite direction over the period of the 60 minutes centred at the hour or when the wind vane was sticking over that period due to the lightness of the wind and not responding to the variation in wind direction; in such cases the mean wind speed over this period is normally less than 5 knots. The number in hours of "calm" winds is the number of cases where the surface wind has a mean speed of less than one knot over that period, whatever the mean wind direction over the same period is. The number in hours during which the recording instrument failed to record over the whole month is given under a separate column.

The instruments used for recording the surface wind are of the Dines Pressure Tube Anemograph.

This table follows the general lines of Model B of chapter 12 part IV of the WMO Technical Regulations 1959. The ranges of wind speed are (1-10), (11-27), (28-47) knots and 48 knots or more; the ranges for wind direction are twelve ranges of 30° each, beginning with the range (345°-014°) as being the true north.

This table gives the following data

— The total number in hours of simultaneous occurrences of surface wind satisfying the specified ranges of speed and direction during the month,

— The total number in hours of occurrences of surface wind satisfying the specified ranges of speed during the month irrespective of their direction,

— The total number in hours of occurrences of surface wind blowing from the specified ranges of direction during the month irrespective of their speed.

TABLE B1.—Upper Air Climatological Data

The routine upper air observations are taken at 0000 and 1200 U T , a separate table of this type is prepared for each hour. The number of cases the height of each of the pressure surfaces indicated in the table has been attained during the month, and the number of cases the temperatures and the dew points have been observed at each of these surfaces are given in the table against each element under column (N).

The monthly mean values of the altitude, temperature and dew piont at each of these pressure surfaces are the arithmetical means of the corresponding daily values over the number of cases (N) indicated against each element.

The instruments used are of the radiosonde modulating frequency recording type; the types of transmitters used do not need to apply any corrections for radiation.

This table follows the general lines recommended by the commission for climatology of the World Meteorological Organization Rec. 34 (CCL-1); it gives the following data for the hour of observation indicated at the top of the table :

— The number of cases the height of each of the pressure surfaces has been attained during the month and the number of cases the temperature and dew point at these surfaces have been observed,

— The monthly mean values of the atmospheric pressure corrected to the ground level of the station (H); the highest and lowest values of this pressure observed during the month,

— The monthly mean values of the air temperature and of the dew point at the surface; the highest and lowest values of the surface air temperature observed during the month,

— The monthly mean, the highest and the lowest values of the altitude for each of the pressure surfaces,

— The monthly mean, the highest and the lowest values of air temperature; and the mean dew point at each of the pressue surfaces.

TABLE B2.— Mean and Extreme Values of the Freezing Level and the Tropopause; The Highest Wind Speed in the Upper Air.

The routine upper air observations are taken at 0000 and 1200 UT ; a separate table of this type is prepared for each hour as indicated in the notes on table B1. The number of cases the altitude of the freezing level and of the first tropopause have been attained during the month and the number of cases the pressures and the dew points or temperatures have been observed at these levels are given in the table against each element in the (N) box.

The monthly mean values of the altitudes of the freezing level and of the first tropopause and the monthly mean values of the pressures and of the dew points or temperatures at each of these levels are the arithmetical means of the corresponding daily values over the number of cases (N) indicated in the box of each element.

The first tropopause is determined in accordance with the definition adopted by the Executive Committee of the World Meteorological Organization Resolution 21 (Ec - IX).

This table is based on wind observations taken by the SCR — 658 or the Metox radiotheodolites working simultaneously with the radiosonde observations. The types of radiosonde instruments used are given in the notes on table BI.

This table gives the following data for each hour of observation indicated at the top of the table:

— The number of cases the freezing level has been attained during the month and the number of cases the pressure and dew point have been observed at this level.

— The number of cases the altitude of the first tropopause has been attained during the month and the number of cases the pressure and the temperature have been observed at this level,

— The monthly mean values of the altitude, pressure and dew point of the freezing level,

— The altitudes, pressures and dew points of the highest and lowest freezing level observed during the month,

— The monthly mean values of the altitudes, pressures and temperatures of the first tropopause,

— The altitudes, pressures and temperatures of the highest and lowest first tropopause observed during the month,

— The direction and speed of the highest wind speed observed during the month, the altitude at which this wind has been observed.

TABLE B3.—Number of Occurrences of Wind Direction Within Specified Ranges and the Mean Scalar Wind Speed at the Standard and Selected Pressure Surfaces

The routine upper air observations are taken at 0000 and 1200 U.T. A separate table of this type is used for each station.

The mean scalar wind speed "ffm" of winds blowing from each range of directions at a given pressure surface, is the arithmetical mean of the corresponding daily values of wind speed for the number of cases "N" during the month.

The term "Calm" is used in this table to denote wind speed of less than one knot.

This table is based on the wind observations taken at the station as indicated in the notes on table B2.

This table, as in the case of table B1, follows the general lines recommended by the commission for Climatology of the World Meteorological Organization REC. 34 (CCL-I) ; the ranges of wind direction used are twelve ranges of 30° each beginning with the range (345°—014°) as being the true north. It gives the following data for the hour of observation indicated :

— The number of cases (N) the wind has been observed from the specified ranges of direction at the surface of the station and at the different pressure surfaces during the month.

— The total number of cases (TN) the wind has been observed at the surface of the station and at the different pressure surfaces during the month irrespective of the wind direction,

— The mean scalar wind speeds (ffm) blowing from the specified ranges of direction at the surface of the station and at the different pressure surfaces,

— The number of cases of "calm" winds at the surface of the station and at the different pressure surfaces,

— The mean scalar wind speeds at the surface of the station and at the different pressure surfaces blowing from all directions.

AGRO-METEOROLOGICAL DATA

Reviews of Agro-Meteorological Stations at El Kasr, Tahrir, Giza, & Kharga.

The monthly review of all agro-meteorological elements that have been observed at each agro-meteorological station includes a general summary of pronounced weather phenomena that prevailed during the month, together with a comparison between the monthly values of this year and last year of specified elements that are of great interest to agriculturists as well as to agrometeorologists. For some elements when observations are of a long time, departure from normal values appears also in the monthly review.

During winter, the monthly review includes normally the days of air temperature below 0°C at the height of five centimetres above the top of grass (Libia). The records of a mercury in steel recording thermometers are used for this purpose ; the sensitive part of the instrument is exposed in the open air and is mounted on a wooden support at the height indicated.

TABLE C1.—Air Temperature at 2 metres Above Ground.

The monthly mean values of the maximum, minimum , night time mean and day time mean, mean of day of air temperatures are the arithmetic means over the month of their corres ponding daily values. The mean air temperature of the day is the mean of the hourly values of the dry bulb temperatures during the day. The night—time mean air temperature of the day is obtained graphically to the nearest whole degree from the charts of recording thermometers for the period from sunset of the previous day to sunrise of that day ; the day-time mean temperature is similarly obtained for the period from sunrise to sunset of the same day. The duration of air temperatures above a specified limit of temperature is obtained graphically from the same charts, daily to the nearest half hour.

The maximum (mercury), the minimum (alcohol)and the dry bulb (mercury ventilated) thermometers are freely exposed in sloping double roofed louvred screens with their bulbs at 235 cms. (Max.), 225 cms. (Min.) & 210 cms. (dry & wet bulbs) above ground ; the recording thermometer used is of the bi-metallic type and is exposed in a similar screen ; the height of the bi-metallic piece is 210 centimetres approximately above the ground.

TABLE C2.—Extreme Values of Maximum & Minimum Air Temperatures at 2 metres above Ground, Absolute Minimum Air Temperature at 5 cms above Ground over Different Fields

The extreme values of maximum and minimum air temperatures at 2 metres above ground and of minimum air temperatures at 5cms above ground over dry and grass fields are extracted from their corresponding daily routine values. Dates of occurrences are included in separate columns beside the extreme value. Extreme values of maximum & minimum air temperature at 2 metres include the highest & lowest limits of the daily corresponding routine values during the month. The types and exposures of the minimum thermometers used over the different fields are as in the case of the grass minimum referred to in notes on the table A2.

TABLE C3.—(Solar+ Sky) Radiation, Duration of Bright Sunshine, Relative Humidity, Vapour Pressure at 2 metres above Ground, Evaporation & Rainfall.

The monthly total values of the (Solar + Sky) Radiation, Bright sunshine duration, Evaporation & Rainfall are the sums of their corresponding daily values for the month. The monthly mean values of the (Solar+Sky) Radiation, Relative Humidity, Vapour Pressure at 2 metres & Evaporation are the arithmetic means of their corresponding daily values for the month respectively.

The (Solar + Sky) radiation is obtained from the records of a Robitzsch Actinograph ; the Robitzch values at Giza and Tahrir are regularly compared with the records of an Eppley pyrheliometer. The sensitive elements of the Robitzsch Actinograph and of the Epply pyrheliometer are at 100 cms approximately above the ground.

The types of instruments used for the measurement of the duration of bright sunshine, their exposure and the evaluation of the durations are as given in the notes on table A 1.

The duration of the relative humidity above 90 % and above 80 % are given to the nearest hour and are obtained graphically from the records of a hair hygrograph exposed in a sloping double roofed louvred screen at a height of 210 centimetres approximately above ground.

The relative humidity is derived from the readings of ventilated dry and wet bulb mercury thermometers freely exposed in the same screen, using the Aspirations—Psychrometer-Taflen of the Deutschen Wetter Dienst 1955 ; the height of the bulbs is 210 centimetres approximately above the ground. The mean relative humidtity of the day is the mean of the hourly values observed during day.

The vapour pressure values are derived from the same Aspiration Psychrometer tables. The mean of the day of the vapour pressure is the mean of the hourly values computed during day.

Evaporation measurements are taken once daily at 0600 UT from a Piche tube and also a class "A" evaporation pan and give the evaporation for the previous 24 hours. The Piche tube is freely exposed in the open air at a height of 120 centimetres above dry soil ; the colour and effective area of the evaporation disc are as given in the notes on table AI. The class "A" evaporation pan is of the type recommended by the Commission of Instruments and methods of Observation of the World Meteorological Organization Rec. 42 (CIMO-56) ; it is of a cylindrical shape, 25.4 centimetres deep, 120-6 centimetres in diameter (inside dimensions). The pan is freely exposed in the open air in the wet field covered with grass (libia), at Giza and in the dry field elsewhere ; its rim at a height of 41 centimetres above ground away from obstacles such as buildings or trees.

The types of instruments used for measuring the amount of rainfall, their exposure and the evaluation of these amounts are given in the notes on table A3.

TABLE C4.—Extreme Soil Temperature at Different Depths in Different fields. (cms.)

The highest and lowest values of soil temperatures at the selected depths in dry & grass covered fields are extracted from their corresponding daily routine values.

The soil temperature readings are taken in the different fields at the specified depths ranging from 0.3 cm to 300 cms. in each field as indicated in the table. These readings are taken regularly according to the following schedule :

— Daily at 0000 U.T., 0200 U.T and every 2 hours for the 0.3, 1, 2 and 5 centimetres depths.

— Daily at 0000 U.T., 0300 U.T and every 3 hours for the 10 and 20 centimetres depths.

— Daily at 0000, U.T., 0600, U.T and every 6 hours for the 50 centimetres depth.

— Daily at 0600, 1800 U.T.for the 100 centimetres depth.

— Daily at 1000 U.T. for the 200 centimetres depth.

— Once every 3 days at 0800 U.T. for the 300 centimetres depth.

The thermometers used are of the Fuess or the Friedrich types.

TABLE C5.—Surface Wind

The monthy values of the daily mean, the night time mean and of the day time mean of the surface wind speed is the arithmetic mean of their corresponding daily evaluated values for the month respectively. The mean wind speed of the day is computed for the period of 24 hours from 1600 UT of the previous day ; the night-time mean wind speed of the day is obtained from the total run of air during the period 1600 UT of the previous day to 0600 UT of that day ; the day-time mean is similarly computed for the period 0600 to 1600 UT of the same day. The type of the wind instrument used is of the run counter of the Lambrecht type ; the cups of which are at 2 metres above the ground.

The number of days with surface wind speed reaching or exceeding specified values of velocitie (≥10 knots, ≥ 15 knots, ≥ 20 knots, ≥ 25 knots, ≥ 30 knots, ≥ 35 knots and ≥ 40 knots) for at least minutes at any time between 2200 & 2200 UT irrespective of its direction are extracted from the daily routine analysis of surface wind records during the whole month. The daily records of the Din Pressure Tube Anemograph are used, the highest gust refer to the highest excursive made by th velocity pen on the records during the month

LIST OF STATIONS APPEARING IN THE REPORT — SYNOPTIC AND CLIMATOLOGICAL STATIONS

District.	Station	Index Number II iii	Latitude °N	Longitude °E	Elevation of the ground in metres (H or Ha)	Altitude of the Station in metres (Hp)	Altitude of the barometer Cistern in metres	Height of Wind recording instruments (metres) above: above building	above ground	Synoptic Observations 00	03	06	09	12	15	18	21	hourly Observations (H) Half hourly obs. ns (h) (0000—2400)	Upper air observations P (Pilot Ballon) W (Radio wind) R (Radio Sonde) 00	06	12	18	Remarks
Mediterranean	Sallum	62 300	31 32	25 11	4.0	6.0	5.2	—	—	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Mersa Matruh (A)	306	31 20	27 13	28.3	30.0	30.0	8	15	×	×	×	×	×	×	×	×	H	RW	P	RW	P	
	Alexandria (A)	318	31 12	29 57	— 3.4	7.0	6.8	10	18	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Port-Said (A)	333	31 17	32 14	1.9	6.1	6.1	10	19	×	×	×	×	×	×	×	×	H	P	P	P	P	
	El Arish	336	31 07	33 45	15.0	17.1	17.1	10	15	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Ghazza	338	31 30	34 27	9.7	15.7	15.7	10	18	×	×	×	×	×	×	×	×	H	P	P	P	P	
Lower Egypt	Tanta	348	30 47	31 00	14.0	14.8	15.4	10	14	—	—	×	×	×	×	×	—	H	—	—	—	—	
Cairo Area	Cairo (A)	366	30 08	31 34	94.7	74.5	74.0	14	18	×	×	×	×	×	×	×	×	h	—	—	—	—	
	Helwan	378	29 52	31 20	139.3	—	—	—	—	—	—	—	—	—	—	—	—	—	RW	W	RW	W	
Upper Egypt	Fayoum	381	29 18	30 51	22.0	23.3	23.2	10	14	—	—	×	×	×	×	×	—	H	—	—	—	—	
	Minya (A)	387	28 05	30 44	29.0	40.0	44.2	7	10	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Assyout (A)	393	27 11	31 06	71.0	69.6	69.5	15	20	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Luxor (A)	405	25 40	32 42	94.9	88.5	88.4	7	15	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Aswan (A)	414	23 58	32 47	200.0	193.5	200.0	10	14	×	×	×	×	×	×	×	×	H	RW	W	RW	W	
Western Desert	Siwa	417	29 12	25 29	—15.0	—13.5	—13.3	10	17	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Bahasiya	420	28 20	28 54	128.0	129.5	129.6	—	—	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Farafra	423	27 03	27 58	90.0	91.8	92.1	—	—	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Dakhla	432	25 29	29 00	110.0	111.5	111.5	10	15	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Kharga	435	25 27	30 32	77.8	72.8	78.8	—	—	×	×	×	×	×	×	×	×	H	P	P	P	P	
Red Sea	Tor	459	28 14	33 37	2.2	4.2	2.2	—	—	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Hurghada	462	27 17	33 46	1.0	2.8	2.8	8	12	×	×	×	×	×	×	×	×	H	P	P	P	P	
	Quseir	465	26 08	34 18	8.0	11.3	11.3	12	15	×	×	×	×	×	×	×	×	H	P	P	P	P	

GENERAL SUMMARY OF WEATHER CONDITIONS

JANUARY 1965

Abnormally cold and rainy

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was cold and rainy in general and three cold waves have been experienced during the month since the 7th, the 1st of which was intensively cold and of prolonged duration. Rain fell during the two periods (8th—19th & (25th—30th). During the 1st rainy period, rain was moderate/heavy in general, associated with isolated thunderstorms over scattered localities of the Mediterranean coastal strip and was confined to the Mediterranean, Lower Egypt, Cairo area and Red Sea districts. Round the 9th and 10th it penetrated southwards through Upper Egypt district. During the second rainy period rain was light in general and was confined to the Mediterranean coastal strip. The monthly rain exceeded remarkably its normal.

Occasional rising sand & sandstorms occurred over scattered localities of the northern & middle parts between the 20th & 25th Early morning mist or fog developed over scattered localities of the northern and middle ports for about 10 days.

PRESSURE DISTRIBUTION

During this month, the barometric pressure over East Mediterranean was oscillatory and subnormal at the begining of the month. Both of the Siberian cold anticyclone and the Azores warm anticyclone were extending towards NE and NW Africa, while a deep low was operating over Central Europe. A secondary depression developed over Central Mediterranean and was almost stationary for the first three days while considerably deepening.

On the 4th it moved N E wards and started filling, while another low south of the Atlas Mountains developed and moved ENE wards while filling. It reached East Mediterranean on the 7th, slightly deepened and approached Iraq round the 8th. Between the 8th & 10th a high pressure area covered North Africa.

On the 11th another low appeared south of the Atlas Mountains and moved slowly ENE centering over Central Mediterranean on the 14th & 16th, when it kept almost stationary with no appreciable change in intensity. On the 17th it started to move E wards while deepening and crossed East Mediterranean on the 19th, when a very deep low developed over Italy. This low moved E wards on the 20th but retrograded again over Italy on the 21st with no change in intensity. On the 22nd it rapidly filled and started to move E wards and centred over Crete on the 24th, and kept moving E wards with continuous filling and crossed East Mediterranean on the 26th towards Iraq. In the period between the 26th and the end of the month, the Siberian cold anticyclone deeply extended S W wards and covered East Mediterranean and most of north Africa sector.

All the above mentioned depressions were associated with upper troughs extending aloft up to more than 300 mbs.

The polar jet stream was evident over the Mediterranean and adjacent areas north of latitude 35 °N during the whole month, but over the U.A.R. it was only in association with the travelling depressions round 320 mb level.

The subtropical jet stream oscillated over the U.A.R. most of the month at about 210mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan & Aswan were 195, 140 & 86 knots respectively round the 11th.

SURFACE WIND

The prevailing winds were W ly & SW ly light/moderate in general, occasionally fresh/strong over scattered localities, particularly over the Mediterranean district (western parts), Canal area and Red Sea district. As an exception moderate/fresh and occasionally strong NW ly & N ly winds blew for few days in the rear of travelling Mediterranean depressions. Calms were frequent during night and early morning intervals over scattered localities.

Gales were reported at : Sidi Barrani on the 19th; El Kasr & Dabaa on the 11th; Mersa Matruh & Ras El Hikma on the 20th; Ras El Teen on the 9th & 11th; Inshas on the 8th & 9th and at Hurghada on the 9th & 19th.

TEMPERATURE

Maximum temperature oscillated below its normal most of the month and its values ranged between 12 & 26°C. As an exception, it exceeded 26°C for few days in the southern districts. The lowest maximum temperatures were recorded round the 13th over most of the Republic.

The absolute maximum temperature for the Republic was 31.8°C reported at Aswan on the 18th.

Minimum temperature oscillated round its normal in the whole Republic and its values ranged between 5°C & 14°C. As an exception far in the southern inland ports, its values ranged between 1°C & 12°C. The higher minimum temperatures were recorded round the 18th all over the Republic.

The absolute minimum temperature for the Republic was —1.3°C reported at Dakhla on the 20th.

PRECIPITATION

During this month, rainfall was abnormally heavy over the Mediterranean district where number of rainy days was about 13 days. In the other districts, most of the rain fell during the 2nd and 3rd weeks.

The monthly rain exceeded pronouncedly its normal over the Republic with the exception of the far western and southern parts.

The daily rain was also exceptionally abnormal over scattered localities from the Mediterranean and Lower Egypt districts during the 2nd and 3rd weeks. The heaviest rain fell on the 10th, 11th and 18th.

The maximum monthly rainfall was 131.6 mms. reported at Mex. (Alexandria area) while the maximum daily rainfall was 48.5 mms. reported also at Mex. on the 10th.

M. F. TAHA

Under Secretary of State
Director General
Meteorological Department

Cairo, 16-5-1970

TABLE A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

JANUARY — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms.
			Minimum		Minimum			Dsy Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Avesage	Mean	D.F Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	1014.8	—2.7	18.6	—0.3	10.4	+1.2	14.5	14.0	—0.2	10.4	+0.1	61	+ 3	—	—	—	6.1
Mersa Matruh (A)	1015.2	—2.2	17.5	—0.7	9.2	+0.9	13.4	12.8	—0.1	10.1	+0.3	68	+ 3	207.4	321.1	64.6	6.5
Alexandria . (A)	1015.1	—2.6	18.3	—0.2	8.8	—0.5	13.6	13.2	—0.4	10.9	—0.1	74	+ 4	193.2	322.3	59.9	4.0
Port Said . . (A)	1014.7	—2.7	17.9	—0.2	11.1	—0.3	14.5	14.1	—0.2	12.0	+0.1	77	+ 5	195.8	322.3	60.8	3.5
El Arish	1015.0	—2.7	18.1	—1.2	9.5	+1.0	13.8	13.1	—0.6	11.0	0.0	76	+ 5	205.9	322.4	63.9	4.1
Ghamra.	1014.6	—3.2	16.9	—1.0	9.6	+0.2	13.2	13.1	—0.6	10.9	—0.4	75	+ 2	180.3	321.1	56.2	3.3
Tanta	1015.3	—2.6	18.5	—1.2	7.5	+1.3	13.0	12.4	—0.2	9.9	—0.1	71	+ 1	201.1	323.4	62.2	2.4
Cairo . . . .(A)	1015.6	—2.4	18.3	—0.7	9.3	+0.5	13.8	13.5	—0.3	9.9	—0.2	60	+ 1	—	—	—	6.5
Fayoum	1015.6	—2.7	20.1	—0.3	7.0	+0.7	13.6	12.8	—0.5	9.3	—0.6	60	— 1	—	—	—	3.3
Minya . . (A)	1016.7	—1.9	20.5	—0.2	4.6	+0.6	12.6	12.5	+0.6	9.0	+0.8	60	+ 2	—	—	—	4.2
Assyout . . . (A)	1016.2	—2.3	20.8	0.0	7.3	+0.5	14.0	13.6	0.0	8.7	+0.3	47	+ 1	—	—	—	8.1
Luxor . . . (A)	1015.4	—1.7	22.8	—0.3	6.3	+0.7	14.6	14.3	+0.1	9.6	+0.1	50	— 2	—	—	—	4.8
Aswan . . . (A)	1015.8	—1.2	23.8	—0.4	8.2	—0.2	16.0	15.9	—0.1	8.9	—0.2	32	— 1	—	—	—	7.6
Siwa.	1016.1	—2.6	19.8	+0.1	5.7	+1.4	12.8	12.5	+0.6	8.1	—0.2	50	— 2	—	—	—	6.8
Bahariya	1016.3	—2.3	20.8	+0.8	5.5	+1.0	13.2	12.9	+0.1	8.0	—0.3	46	— 4	—	—	—	6.1
Farafra	1017.9	—2.4	21.2	+0.4	4.8	+0.4	13.0	12.6	0.0	7.3	+0.7	41	— 1	—	—	—	8.5
Dakhla	1016.0	—2.1	22.8	+1.3	3.2	—1.1	13.0	12.6	+0.1	7.1	+0.1	39	+ 2	—	—	—	8.6
Kharga	1016.4	—1.6	22.5	+1.3	6.0	+0.1	14.2	14.4	+0.2	8.3	—0.5	42	— 3	286.5	334.2	85.7	8.8
Tor	1015.0	—2.1	20.6	—0.5	9.9	+0.9	15.2	15.6	—0.2	11.2	—0.1	55	— 4	—	—	—	6.6
Hurghada	1014.7	—2.0	21.5	+0.7	9.7	0.0	15.6	15.8	—0.1	10.8	—0.2	50	— 2	—	—	—	11.3
Quseir	1015.1	—1.4	22.0	—0.6	13.5	—0.3	17.8	17.8	—0.5	12.2	—0.7	43	— 6	—	—	—	12.4

TABLE A 2.—MAXIMUN AND MINIMUM AIR TEMPERATURES

JANUARY 1965

STATION	Maximum Temperature °C									Grass Min. Temps.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<— 5
Sollum	22.7	5	15.2	13	0	0	0	0	0	9.5	—	12.4	13	8.2	21	21	0	0	0
Mersa Matruh (A)	20.4	6	13.6	13,18	0	0	0	0	0	—	—	11.7	31	6.6	7	21	0	0	0
Alexandria (A)	23.0	22	15.0	12	0	0	0	0	0	—	—	12.5	19	5.2	7	22	0	0	0
Port Said (A)	21.9	22	12.2	13	0	0	0	0	0	10.3	—	15.2	31	7.5	12,13	8	0	0	0
El Arish	23.3	22	13.0	10		0	0	0	0	7.4	—	12.9	1	6.7	17	22	0	0	0
Ghazza	19.3	5	12.0	13	0	0	0	0	0	8.7	—	12.0	18	7.5	11	18	0	0	0
Tanta	22.0	22	13.6	13	0	0	0	0	0	—	—	11.1	18	4.2	7	28	3	0	0
Cairo (A)	23.2	2	13.2	12,13	0	0	0	0	0	—	—	12.0	18	6.6	5	19	0	0	0
Fayoum	25.0	22	14.0	9	0	0	0	0	0	3.6	—	12.0	18	4.6	13	29	2	0	0
Minya (A)	25.0	2,22	16.0	9	0	0	0	0	0	1.9	—	12.0	18	0.9	22	30	20	0	0
Assyout (A)	26.0	22	16.4	9	3	0	0	0	0	4.9	—	13.3	18	3.8	21	28	5	0	0
Luxor (A)	27.0	22	17.2	10	11	0	0	0	0	3.9	—	9.8	19	3.0	25	31	11	0	0
Aswan (A)	31.8	18	17.4	10	12	1	0	0	0	—	—	12.3	18	5.2	13	23	0	0	0
Siwa	23.5	6	15.6	8	0	0	0	0	0	4.0	—	9.8	18	1.8	4	31	13	0	0
Bahariya	27.3	7	16.8	18	2	0	0	0	0	4.2	—	10.0	11	2.1	5,14	30	13	0	0
Farafra	29.4	7	16.3	9	3	0	0	0	0	4.1	—	10.6	12	0.1	22	30	16	0	0
Dakhla	28.8	1	17.6	2	8	0	0	0	0	—	—	10.6	18	−1.3	20	30	21	4	0
Kharga	28.5	18	18.2	12	8	0	0	0	0	4.2	—	11.1	5	0.6	21	28	11	0	0
Tor	24.0	22	15.2	12	0	0	0	0	0	—	—	14.2	3	6.5	14,15	17	0	0	0
Hurghada	26.4	8	18.4	12	1	0	0	0	0	8.9	—	14.0	18	6.2	13	16	0	0	0
Quseir	28.3	8	18.0	10	2	0	0	0	0	12.0	—	16.3	18	10.0	10,13	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

JANUARY — 1965

Station	Mean Sky Cover Oct					Rainfall mms										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one doy		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	3.2	5.0	4.8	4.2	4.3	16.2	— 2.6	7.0	15	4	10	4	1	0	0	0
Mersa Matruh (A)	2.1	3.7	4.8	3.3	3.3	53.5	+ 23.8	11.8	10	1	13	6	4	2	0	0
Alexandria (A)	3.0	4.6	4.6	3.9	4.2	100.9	+ 51.8	35.8	10	2	16	11	5	3	1	0
Port Said (A)	2.9	3.3	3.6	3.9	3.4	53.1	+ 40.6	11.5	11	1	12	7	4	3	0	0
El Arish	3.8	4.4	4.7	3.8	3.2	114.3	+ 94.4	40.5	11	1	11	9	5	5	1	0
Ghazza	3.9	4.2	4.7	3.3	3.1	268.7	+188.8	84.2	11	0	16	14	8	5	3	2
Tanta	—	2.4	3.4	2.0	—	60.1	+ 49.9	27.3	10	0	11	9	3	2	1	0
Cairo (A)	2.1	2.7	4.1	3.2	2.9	21.9	+ 16.8	9.6	11	1	8	6	1	0	0	0
Fayoum	—	1.6	2.2	1.6	—	1.0	0.0	1.0	9	2	1	1	0	0	0	0
Minya (A)	1.0	1.8	2.5	1.7	1.7	Trace	— 0.4	Trace	9	1	0	0	0	0	0	0
Assyout (A)	1.3	1.2	2.2	2.0	1.7	0.0	Trace	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.9	2.2	2.2	2.1	1.8	2.0	+ 1.9	2.0	10	0	1	1	0	0	0	0
Aswan (A)	1.1	1.4	1.9	1.7	1.5	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	1.1	2.2	3.7	2.1	2.1	0.9	0.0	0.7	18	0	2	0	0	0	0	0
Bahariya	1.3	1.7	3.3	2.2	2.0	Trace	0.0	Trace	9,17,18	3	0	0	0	0	0	0
Farafra	—	1.6	2.0	1.9	—	0.0	Trace	0.0	—	0	0	0	0	0	0	0
Dakhla	0.7	1.5	1.9	1.0	1.4	0.0	Trace	0.0	—	0	0	0	0	0	0	0
Kharga	1.1	1.5	2.2	1.1	1.6	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Tor	1.7	3.0	2.7	1.9	2.4	9.0	+ 7.5	6.2	11	0	6	3	1	0	0	0
Hurghada	1.5	2.1	2.4	2.0	2.0	0.0	Trace	0.0	—	0	0	0	0	0	0	0
Quseir	0.8	2.4	2.6	1.9	1.7	0.0	Trace	0.0	—	0	0	0	0	0	0	0

TABLE A 4—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

JANUARY 1965

Station	Precipiation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sanderising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sallum	10	0	0	0	0	0	0	0	0	0	9	3	0	3	6
Mersa Matruh (A)	13	0	0	0	0	1	0	0	0	0	6	2	1	11	2
Alexandria (A)	14	0	0	0	0	4	2	4	0	0	3	0	0	7	7
Port Said (A)	12	0	0	0	0	0	1	0	0	0	1	0	0	11	7
El Arish	11	0	0	0	0	5	9	0	4	0	5	0	0	5	9
Ghazza	16	0	0	0	0	6	2	0	2	0	0	0	0	9	9
Tanta	11	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Caira	9	0	0	0	0	0	7	2	17	0	8	0	0	14	3
Fayoum	3	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	11	1	2	0	4	0	0	20	1
Assyout (A)	0	0	0	0	0	0	1	0	15	0	5	0	0	11	1
Luxor (A)	1	0	0	0	0	0	0	0	18	0	3	0	0	21	1
Aswan (A)	0	0	0	0	0	0	0	0	1	0	5	1	0	25	1
Siwa	2	0	0	0	0	0	0	0	3	0	3	0	0	18	1
Bahariya	0	0	0	0	0	0	0	0	0	0	1	1	0	15	1
Farafra	0	0	0	0	0	0	0	0	3	0	5	0	0	19	1
Dakhla	0	0	0	0	0	0	0	0	3	0	3	0	0	24	0
Kharga	0	0	0	0	0	0	0	0	1	0	4	0	0	22	1
Tor	6	0	0	0	0	1	0	0	2	0	3	0	0	17	1
Hurghada	0	0	0	0	0	0	0	0	0	0	3	1	2	18	0
Quseir	0	0	0	0	0	0	0	0	2	0	5	0	0	2	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JANUARY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sallum	48	124	6	1—10	15	6	24	9	9	2	11	8	21	56	31	15	207
				11—27	4	0	0	3	0	0	7	13	107	149	53	16	352
				28—47	0	0	0	0	0	0	0	1	10	2	0	0	13
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**19**	**6**	**24**	**12**	**9**	**2**	**18**	**22**	**138**	**207**	**84**	**31**	**572**
Mersa Matruh (A)	5	7	0	1—10	40	15	10	15	12	27	18	48	101	43	15	18	362
				11—27	33	2	0	0	2	8	13	34	118	89	23	31	353
				28—47	2	0	0	0	0	0	0	3	4	3	4	1	17
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**75**	**17**	**10**	**15**	**14**	**35**	**31**	**85**	**223**	**135**	**42**	**50**	**732**
Alexandria (A)	84	0	0	1—10	23	32	16	24	32	30	37	77	35	25	11	16	358
				11—27	12	10	2	0	3	8	11	74	49	35	52	45	301
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**35**	**42**	**18**	**24**	**35**	**38**	**48**	**151**	**84**	**60**	**64**	**61**	**660**
Port Said (A)	6	1	0	1—10	18	18	13	17	37	23	61	80	80	45	30	24	446
				11—27	18	17	2	6	0	0	10	75	102	37	16	8	291
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**36**	**35**	**15**	**23**	**37**	**23**	**71**	**155**	**182**	**82**	**46**	**32**	**737**
El Arish	6	215	0	1—10	14	18	2	9	21	79	49	59	100	22	31	29	433
				11—27	0	1	0	0	0	0	0	0	52	30	6	1	90
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**14**	**19**	**2**	**9**	**21**	**79**	**49**	**59**	**152**	**52**	**37**	**30**	**523**
Ghazza	0	77	0	1—10	11	11	18	32	55	147	84	23	31	16	12	12	452
				11—27	5	7	1	0	4	51	26	35	46	9	16	4	204
				28—47	0	0	0	0	0	0	0	4	7	0	0	0	11
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**16**	**18**	**19**	**32**	**59**	**198**	**110**	**62**	**84**	**25**	**28**	**16**	**667**
Tanta	78	19	0	1—10	23	29	22	16	35	17	56	98	161	64	45	32	598
				11—27	2	7	0	0	0	0	1	5	25	5	3	1	49
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**25**	**36**	**22**	**16**	**35**	**17**	**57**	**103**	**186**	**69**	**48**	**33**	**647**
Cairo (A)	19	89	0	1—10	13	45	28	19	24	26	38	49	26	39	19	30	356
				11—27	4	12	1	10	19	12	44	83	36	44	8	7	280
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**17**	**57**	**29**	**29**	**43**	**38**	**82**	**132**	**62**	**83**	**27**	**37**	**636**

BLE A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JANUARY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
				1—10	91	22	3	2	3	27	85	101	75	87	16	64	576
				11—27	3	2	0	0	0	0	0	0	0	2	1	0	8
youm . . .	160	0	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**94**	**24**	**3**	**2**	**3**	**27**	**85**	**101**	**75**	**89**	**17**	**64**	**584**
				1—10	95	34	6	0	9	108	87	15	10	46	52	83	545
				11—27	34	6	0	0	0	0	1	6	0	8	42	18	115
inya . . (A)	79	5	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**129**	**40**	**6**	**0**	**9**	**108**	**88**	**21**	**10**	**54**	**94**	**101**	**660**
				1—10	0	7	28	54	43	35	27	20	81	158	87	32	572
				11—27	1	0	0	2	3	3	1	6	19	50	58	18	161
syout . . (A)	11	0	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**1**	**7**	**28**	**56**	**46**	**38**	**28**	**26**	**100**	**208**	**145**	**50**	**733**
				1—10	30	53	51	28	43	56	101	86	35	48	59	82	672
				11—27	2	1	0	0	0	0	0	1	2	12	14	36	68
uxor . . (A)	4	0	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**32**	**54**	**51**	**28**	**43**	**56**	**101**	**87**	**37**	**60**	**73**	**118**	**740**
				1—10	375	74	7	7	2	6	12	11	18	28	43	63	646
				11—27	9	3	0	0	0	0	0	1	3	12	23	21	72
wan . . (A)	26	0	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**384**	**77**	**7**	**7**	**2**	**6**	**12**	**12**	**21**	**40**	**66**	**84**	**718**
				1—10	20	11	19	35	62	28	28	12	52	134	50	45	396
				11—27	0	0	2	0	4	2	8	10	15	37	38	11	127
wa	108	13	0	28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**20**	**11**	**21**	**35**	**66**	**30**	**36**	**22**	**67**	**171**	**88**	**56**	**623**
				1—10	8	24	8	16	14	13	8	11	13	39	95	15	264
				11—27	38	1	0	0	6	7	0	0	0	67	194	132	445
urghada . . .	7	7	0	28—47	0	0	0	0	0	0	0	0	0	0	17	4	21
				≥48	0	0	9	0	0	0	0	0	0	0	0	0	0
				All speeds	**46**	**25**	**8**	**16**	**20**	**20**	**8**	**11**	**13**	**106**	**306**	**151**	**730**
				1—10	47	20	14	16	8	8	15	2	154	123	18	48	473
				11—27	5	0	0	0	1	0	0	0	70	56	58	51	241
seir	2	27	0	28—47	0	0	0	0	0	0	0	0	1	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**53**	**20**	**14**	**16**	**9**	**8**	**15**	**2**	**225**	**179**	**76**	**99**	**715**

TABLE B 1.—UPPRER AIR CLIMATOLOGICAL DATA

JANUARY — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surfsace (gpm)				Temperature (°C)				Dew Point (°(	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	31	*1016mb	*1027mb	*1009mb	31	11.2	13.4	8.8	31	7.1
	1000	31	153	240	103	31	12.3	15.6	9.8	31	12.1
	850	31	1503	1572	1445	31	4.1	11.6	— 0.7	31	— 2.5
	700	31	3056	3142	2983	31	— 4.1	2.2	—10.0	18	—12.2
	600	31	4260	4368	4165	31	—10.1	— 0.9	—15.6	14	—18.9
	500	31	5640	5764	5518	31	—20.1	—16.1	—27.0	10	—25.3
	400	31	7257	7385	7098	31	—31.6	—28.6	—39.0	9	—34.3
	300	31	9234	9354	9069	31	—45.5	—39.2	—50.6	—	—
	200	30	11860	12045	11731	30	—57.3	—46.8	—63.0	—	—
	150	24	13643	13754	13568	24	—60.0	—51.1	—66.0	—	—
	100	17	16077	16255	16048	17	—63.2	—56.0	—67.5	—	—
	70	9	18352	18400	18260	9	—62.9	—58.3	—65.0	—	—
	60	6	19320	19366	19292	6	—59.6	—56.3	—60.7	—	—
	50	6	20457	20508	20430	6	—56.7	—51.3	—58.5	—	—
	40	3	21897	21918	21868	3	—54.5	—52.7	—56.4	—	—
	30	2	23756	23781	23732	2	—49.4	—48.0	—50.9	—	—
	20	1	26386	—	—	1	—48.6	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	*999mb	*1006mb	*993mb	31	10.6	14.3	6.4	31	5.1
	1000	31	132	190	76	13	10.6	12.5	6.6	13	6.1
	850	31	1479	1535	1403	31	6.8	12.7	0.7	28	— 3.2
	700	31	3045	3108	2903	31	— 1.7	2.9	— 9.9	18	—11.3
	600	31	4169	4340	4138	31	— 8.8	— 4.0	—17.4	15	—17.7
	500	31	5644	5745	5428	31	—17.8	—13.7	—25.6	14	—25.6
	400	31	7287	7387	7098	31	—29.5	—25.9	—34.7	12	—33.6
	300	31	9273	9398	9083	31	—43.0	—37.8	—49.9	—	—
	200	30	11919	12058	11779	30	—56.0	—47.4	—61.8	—	—
	150	30	13694	13840	13574	30	—61.0	—53.0	—65.9	—	—
	100	28	16211	16295	16097	28	—66.6	—62.2	—73.9	—	—
	70	25	18378	18490	18240	25	—64.7	—59.5	—76.0	—	—
	60	21	19321	19407	19208	21	—62.2	—56.2	—67.6	—	—
	50	20	20455	20563	20341	20	—59.0	—54.8	—64.0	—	—
	40	13	21848	21957	21747	13	—55.7	—48.5	—59.2	—	—
	30	9	23696	23822	23584	9	—53.3	—50.8	—55.4	—	—
	20	6	26304	26380	26170	6	—50.7	—42.4	—55.1	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	31	*991mb	*995mb	*988mb	31	12.0	18.2	8.0	31	1.0
	1000	31	120	153	88	—	—	—	—	—	—
	850	31	1484	1520	1461	31	10.2	16.2	0.3	25	—4.2
	700	31	3080	3135	3007	31	3.1	9.6	—2.4	18	—10.4
	600	31	4314	4385	4229	31	—3.7	—0.2	—8.0	15	—15.4
	500	31	5730	5815	5646	31	—13.2	—8.7	—16.2	11	—20.8
	400	31	7393	7488	7284	31	—24.9	—22.6	—28.9	11	—30.7
	300	31	9429	9529	9557	31	—39.5	—35.2	—42.7	3	—44.5
	200	30	12097	12181	12017	30	—56.3	—53.1	—60.4	—	—
	150	28	13879	14023	13707	28	—66.2	—60.3	—73.0	—	—
	100	23	16280	16436	16146	23	—74.7	—68.2	—81.0	—	—
	70	19	18364	18540	18140	19	—70.4	—66.2	—75.7	—	—
	60	15	19288	19475	19040	15	—66.2	—62.1	—72.5	—	—
	50	15	20405	20583	20134	15	—60.5	—51.6	—70.6	—	—
	40	11	21797	22001	21498	11	—58.1	—55.0	—63.5	—	—
	30	10	23617	23839	23313	10	—55.4	—52.2	—60.4	—	—
	20	4	26263	26420	26095	4	—52.3	—48.8	—55.5	—	—
	10	1	30536	—	—	1	—53.5	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TAALE B 1 (*contd.*)—UPPER AIR CLIMATOLOGICAL DATA

JANUARY — 1965

Station	Pressure Surface Millibar	Altitune of Pressure Surfsace (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Meres Matruh 1200 U.T.	Surface	31	*1015mb	*1028mb	*1005mb	31	16.5	20.2	12.6	31	8.3
	1000	31	153	260	70	31	15.2	19.0	11.3	31	— 6.1
	850	31	1502	1601	1419	31	4.5	10.3	— 0.1	31	— 4.0
	700	31	3062	3165	2969	31	— 3.2	2.0	— 8.0	20	—11.7
	600	31	4264	4379	4150	31	—10.2	— 5.7	—15.1	12	—18.0
	500	31	5654	5774	5519	31	—19.3	—14.0	—25.3	6	—16.8
	400	31	7271	7408	7099	31	— 31.0	—23.8	-36.4	5	—34.9
	300	29	9253	9387	9064	29	—44.8	—40.0	—50.4	—	—
	200	26	11893	12041	11745	26	—55.2	—49.4	—61.8	—	—
	150	24	13708	13852	13593	24	—59.2	—53.7	—66.0	—	—
	100	16	16204	16374	16118	16	—63.9	—57.0	—70.4	—	—
	70	10	18405	18560	18340	10	—63.7	—56.0	—70.2	—	—
	60	4	19357	19528	19296	4	—63.4	—60.2	—69.8	—	—
	50	3	20515	20678	20428	3	—57.3	—55.3	—60.9	—	—
	40	1	21838	—	—	1	—54.7	—	—	—	—
	30		23711	—	—	1	—46.6	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	
Helwan 1200 U.T.	Surface	31	*998mb	*1006mb	*991mb	31	16.8	23.5	9.2	31	4.3
	1000	31	124	191	68	11	16.8	20.8	13.6	11	4.2
	850	31	1481	1540	1419	31	6.0	14.6	1.4	29	—3.2
	700	31	3055	3125	2969	31	—1.9	4.6	—7.9	20	—11.2
	600	31	4259	4361	4162	31	—8.6	—2.3	—17.7	15	—15.9
	500	31	5647	5774	5515	31	—19.2	—13.5	—26.2	10	—23.8
	400	31	7279	7434	7109	31	—29.5	— 24.3	—34.9	9	—35.2
	300	31	9270	9447	9112	31	—43.7	—38.9	—48.5	—	—
	200	31	11918	12087	11747	31	—55.7	—47.9	—62.4	—	—
	150	29	13739	13873	13611	29	—59.6	—54.3	—64.0	—	—
	100	26	16240	16315	16147	26	—65.9	—61.5	—72.5	—	—
	70	22	18408	18480	18320	22	—64.0	—59.1	—68.6	—	—
	60	17	19352	19428	19289	17	—62.4	—57.8	—71.2	—	—
	50	15	20491	20560	20428	15	—58.6	—56.0	—61.7	—	—
	40	10	21911	21985	21832	10	—53.7	—45.2	—56.5	—	—
	30	3	23796	23847	23757	3	—51.8	—49.0	—56.0	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	31	*991mb	*995mb	*984mb	31	22.4	27.2	13.3	31	1.3
	1000	31	148	152	81	—	—	—	—	—	—
	850	31	1494	1535	1461	31	11.8	20.1	1.8	25	—5.3
	700	31	3099	3152	3028	31	4.7	6.8	1.3	14	—12.2
	600	31	4335	4392	4252	31	—3.0	0.1	—11.7	15	—16.8
	500	31	5761	5822	5656	31	—12.1	—9.5	—20.4	13	—24.0
	400	30	7432	7518	7293	30	— 23.4	—21.7	—28.8	13	—27.5
	300	30	9488	9621	9344	30	—37.5	—31.9	—40.8	3	—42.8
	200	30	12180	12305	12019	30	—54.5	—51.1	—59.1	—	—
	150	30	13980	14090	13809	30	—64.1	—57.7	—69.1	—	—
	100	26	16399	16506	16275	26	—72.4	—66.0	—78.8	—	—
	70	18	18518	18613	18390	18	—68.5	—66.0	—75.6	—	—
	60	12	19524	20557	19329	12	—64.3	—59.0	—66.2	—	—
	50	11	20560	20677	20478	11	—58.6	—52.3	—66.2	—	—
	40	7	22019	22100	21947	7	—53.7	—51.8	—56.7	—	—
	30	7	23889	23983	23811	7	—48.5	—47.0	—50.8	—	—
	20	2	26563	26634	26492	2	—44.3	—43.0	—45.6	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

JANUARY — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh. .	2203 (31)	781 (31)	-6.5 (28)	3490	670	—	1400	860	-2.6	11028 (28)	230 (28)	-56.6 (28)	15840	107	-72.6	8780	326	-39.1	8500	330	320	176
	Helwan . . .	2587 (31)	745 (31)	-6.9 (24)	3760	645	-17.2	1540	849	-4.7	12596 (29)	186 (29)	-61.3 (29)	16060	103	-75.0	9470	288	-51.3	14260	135	270	138
	Aswan . . .	3473 (31)	669 (31)	-11.1 (19)	4320	603	-9.8	1500	845	-2.7	15689 (22)	113 (22)	-73.4 (22)	17270	85	-78.2	13320	167	-64.5	11230	225	300	160
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh. .	2371 (31)	765 (31)	-6.8 (25)	3210	694	-22.6	1480	852	-5.1	11345 (21)	223 (21)	-56.2 (21)	15010	123	-68.6	9530	282	-51.8	8800	318	324	195
	Helwan . . .	2692 (31)	716 (31)	-10.0 (20)	4050	620	—	1710	820	—	12060 (29)	202 (29)	-55.4 (29)	16307	100	-72.5	9540	287	-49.8	11560	213	270	140
	Aswan . . .	3783 (31)	644 (31)	-11.4 (16)	4440	593	—	1860	812	-6.8	15630 (21)	111 (21)	-67.8 (21)	17140	90	-73.9	12700	183	-61.2	11450	229	300	186

N = The number of cases the element has been observed during the month.

TABLE B 3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — JANUARY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	2	7	0	—	0	—	0	—	1	6	2	6	2	10	6	10	7	13	5	11	2	8	2	24	2	31	10
	1000	3	7	0	—	0	—	1	10	2	8	0	—	1	23	6	10	7	21	3	26	4	18	4	19	0	31	16
	850	0	—	1	13	0	—	0	—	1	2	0	—	0	—	2	10	5	22	10	16	5	25	6	24	0	30	19
	700	0	—	1	11	0	—	0	—	0	—	0	—	0	—	0	—	10	28	8	24	5	35	6	32	0	30	28
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	47	13	35	6	45	5	37	0	29	40
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	27	14	44	6	61	4	65	0	29	53
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	76	13	58	8	78	3	77	0	29	69
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	90	12	74	7	116	3	94	0	27	90
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	80	8	79	1	62	1	122	0	11	81
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	69	1	49	0	—	0	7	66
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	2	9	0	—	0	—	1	7	0	—	1	2	2	12	3	16	2	16	10	19	1	11	8	18	1	31	15
	1000	3	14	0	—	1	6	0	—	0	—	1	3	1	15	3	19	4	16	10	19	2	11	6	20	0	31	17
	850	1	9	0	—	0	—	0	—	0	—	0	—	1	8	1	21	5	26	12	22	7	27	4	19	0	31	22
	700	1	33	0	—	0	—	0	—	0	—	0	—	0	—	1	51	5	35	12	24	8	38	4	12	0	31	29
	600	1	10	0	—	0	—	0	—	0	—	0	—	0	—	1	51	6	46	10	39	10	37	3	45	0	31	40
	500	1	6	0	—	0	—	0	—	0	—	0	—	0	—	1	56	6	49	10	46	8	63	4	50	0	30	51
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	77	6	63	14	60	5	93	3	78	0	29	69
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	109	4	74	10	88	9	91	1	54	0	25	86
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	121	7	82	2	98	0	—	0	12	94
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	62	2	52	1	74	0	—	0	4	60
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	1	34	0	—	0	—	0	2	36
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3(*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — JANUARY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	0	—	3	4	8	8	4	5	2	4	3	5	2	4	1	6	2	9	1	6	1	4	0	—	4	31	5
	1000	0	—	4	14	3	7	1	9	0	—	1	4	0	—	0	—	2	8	0	—	1	4	0	—	1	13	8
	850	0	—	2	12	0	—	0	—	0	—	0	—	0	—	4	21	6	13	7	19	6	20	6	17	0	31	18
	700	0	—	0	—	1	14	0	—	0	—	0	—	0	—	0	—	6	31	12	23	11	28	7	41	0	31	29
	600	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	5	40	12	37	12	38	1	45	0	31	37
	500	1	2	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	47	11	44	11	49	2	46	0	31	45
	400	0	—	1	8	0	—	0	—	0	—	0	—	0	—	0	—	4	58	12	61	11	64	2	63	0	30	60
	300	1	3	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	64	7	59	7	84	1	130	0	18	70
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	71	2	104	0	—	0	9	78
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	73	1	45	0	—	0	6	68
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	58	1	60	0	—	0	—	0	2	59
	70	0	—	0	—	0	—	1	83	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	83
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	2	17	5	9	1	10	1	7	0	—	0	—	0	—	12	8	2	4	5	15	1	7	1	6	1	31	9
	1000	0	—	4	10	2	10	0	—	0	—	0	—	0	—	1	4	2	4	0	—	1	15	1	3	0	11	8
	850	2	10	2	10	1	19	0	—	0	—	0	—	0	—	5	26	4	15	11	28	4	25	2	15	0	31	18
	700	0	—	3	12	0	—	0	—	0	—	0	—	0	—	3	36	0	—	10	35	12	25	2	13	0	30	27
	600	1	6	1	20	0	—	0	—	0	—	0	—	0	—	2	44	2	28	12	39	10	36	2	40	0	30	36
	500	1	25	0	—	0	—	0	—	0	—	0	—	0	—	1	81	2	64	17	44	7	55	2	72	0	30	50
	400	1	34	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	22	17	58	7	65	1	65	0	27	58
	300	1	45	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	62	9	52	3	75	0	—	0	17	58
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	78	1	32	0	—	0	10	73
	150	0	—	0	—	0	—	1	22	0	—	0	—	0	—	0	—	1	72	4	80	1	44	0	—	0	7	65
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	41	1	33	0	—	0	3	38
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	34	0	—	1	19	0	3	29
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	29	0	—	0	—	0	2	29
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — JANUARY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surfgce	14	9	2	6	0	—	0	—	0	—	0	—	1	12	0	—	0	—	3	12	2	12	7	8	2	31	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	9	5	8	0	—	1	4	0	—	2	12	0	—	0	—	2	10	7	14	4	20	6	17	0	30	13
	700	0	—	1	31	0	—	0	—	0	—	0	—	0	—	1	19	8	32	9	19	7	28	4	26	0	30	26
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	41	8	35	13	40	0	—	0	30	39
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	46	8	44	12	53	0	—	0	27	49
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	50	15	59	7	60	1	98	0	27	59
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	74	15	79	9	87	0	—	0	27	81
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	110	6	108	4	98	0	—	0	16	106
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	96	3	70	0	—	0	—	0	5	80
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	14	8	2	13	0	—	0	—	0	—	0	—	3	9	0	—	0	—	2	12	5	11	5	9	0	31	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	2	14	4	5	1	10	0	—	2	16	1	9	0	—	0	—	4	16	4	12	4	16	8	11	0	30	12
	700	1	23	0	—	0	—	0	—	0	—	0	—	0	—	1	26	7	19	4	22	14	30	3	20	0	30	25
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	40	14	37	11	35	1	34	0	30	57
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	57	12	44	12	53	0	—	0	29	50
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	59	17	60	8	72	0	—	0	28	64
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	75	12	81	8	88	0	—	0	25	82
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	108	8	118	4	91	0	—	0	17	109
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	65	3	112	4	76	0	—	0	8	88
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	36	1	73	0	—	0	2	54
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	12	1	22	0	—	0	2	17
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATION AT EL KASR JANUARY 1965

This month compared with last January was slightly warmer and more humid and the total amount of rainfall was less by 13.1 mms. than the total amount for January 1964. The month was generally mild except for cold spells on 9th., 12th,13th.and 18th.

The extreme maximum soil temperatures at different depths were lower than those of January 1964, the maximum difference was —6.6°C at 0.3 cm. The extreme minimum soil temperatures at depth between 0.3 and 5cms inclusive and at 20cms depth were higher than those of last January, the maximum difference was+2.0°C at 0.3cm. At other depths the extreme minimum soil temperatures were lower than those of last January, the difference was -0.4°C at 100 cms depth.

The mean wind speed at 2 metres above ground was higher by 0.7 m/sec. than the corresponding value for last January.

The total actual duration of bright sunshine was 62% of the total possible duration. The mean daily Piche evaporation and class "A" pan evaporation were higher than those of last January by 3.0 and 0.57 mms respectively.

REVIEW OF AGRO - METEOROLOGICAL STATION AT TAHRIR JANUARY 1965

This month was characterized by an abnormally high rainfall total of 35.7 mms, falling between the 8th. and the 18th. which is a record for the station in January since 1959. More striking, the 27.9 mms that fell in 48 hours (10th. and 11th.) exceeds the annual rainfall of any of the years 1960, 1962 or 1963.

The month started with a prevailing warm spell which broke down on the 8th. by the passage of an active cold front. During the third week another warm spell was enjoyed, characterized by practically overcast sky and intermittent rain. Cool air gradually prevailed in the last week.

Deviations of the relevant elements from those of January last year were very slight, except for rainfall which was 26.7 mms inexcess. Mean air temperature, relative humidity and vapour pressure were more by 0.8°C, 2% and 0.6 mm. respectively. Wind at 2 metres was also more by 0.4 metre per second for the mean value, which is evident if we compare the frequency of days having wind speeds above specified limits. Total sunshine duration was more by 0.8 hour. Mean daily global radiation was more also by 4 gm/calories per cm^2.

Deviations of mean evaporation were negligible, being —0.1 and —0.16 mms for piche and pan "A" respectively, which can be regarded as due to the balance of the influences of weather factors which acted in opposite directions.

As for the extreme values of soil temperatures at different depths, their deviations reflected the deviations between air temperature extremes in the two Januaries. Thus, the maxima down to one metre were lower than last year by 3.3 to 0.5°C except at 50 cms. where it was higher by 0.2°C. On the otherhand, the minima were more by 3.9 to 0.4°C, down to 20 cms., but at 50 and 100 cms, they were again less by 0.8 and 0.4°C respectively.

REVIEW OF AGRO - METEOROLOGICAL STATION AT GIZA JANUARY 1965

This month was cold and rainy as compared with the normal values of air temperature and total rainfall for Giza during January. The daily mean air temperature at 2 metres above ground was below normal (—0.9°C). The total monthly rainfall was 11.4mms above normal and the daily mean relative humidity was at its normal value (71%).

The month was distinguished with a prolonged remarkable cold wave prevailing during the period from the (9th to 20th) yielding a peak on 16th when the lowest maximum air temperature 14.2°C (5.8°C below normal) was recorded.

The minimum air temperature at 5 cms. above grass (Libia) fell below 0°C on 5 days aginst 6 days during last Januray. The duration of air temperature below 0°C on these days together with the actual values of minimum air temperature are given in the following table.

Air temperature below 0°C at 5 cms. above grass (Libia)

Date	Min. air Temp. °C	Duration in hours (to the nearest half) of air temp. below the following Limits.		
		0 °C	1 °C	2 °C
5	— 1.3	1	0.5	0
8	— 0.1	0	0	0
22	— 1.5	1.5	1	0
29	— 1.0	1.5	0.5	0
30	— 0.2	1	0	0

The extreme maximum soil temperature for the dry field showed irregular deviations within ± 1.5°C from the corresponding values of last January. For the wet and grass fields the extreme maximum at 50 cms. and shallower layers were all higher than those of the

last January ; maximum deviation was 4.2°C at 0.3 cm. in the grass field. For deeper layers the deviations were within ± 0.3°C. The extreme minima for different depths in different fields were higher than the corresponding values for last year (maximum difference + 2.3°C at 5 cms. in dry field) except for the depths 50 and 100 cms. in the dry field where they were lower by —0.1 and —0.2°C respectively.

The daily mean wind speed at 2 metres above ground was lower than the corresponding value of last January by 0.5 m/sec.

The daily mean values of piche evaporation, pan class "A" evaporation, potential evaporation and potential evapotranspiration for grass (Libia) were all less than the corresonding values of last January by 0.3, 0.64, 0.28 and 0.10 mms respectively. The total duration of bright sunshine was 5.3 hours less than the corresponding value of January 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA JANUARY 1965

This month was slightly warmer and drier as compared with the normal values of air temperature and relative humidity at 2 metres. The month was characterized by a moderate warm spell on the (17th - 18th) with the peak on the latter day which gave the absolute maximum of the month; a moderate cold wave in the period (9th - 13th) and a light cold spell on the 19th.

The absolute minimum air temperature at 5 cms over the dry field was —1.2°C while the corresponding value for January 1964 was 0.0°C.

The extreme maximum soil temperatures at 2 and 5 cms depths and at 100 cms depth were lower than the corresponding values for January 1964; while at 1cm, 20cm and 50 cms depths the values were higher than those of January 1964 and at 10 cms depths the values were equal to those of January 1964. The extreme differences were —0.6°C and + 1.9°C at 2 cms and 50 cms respectively. The extreme minimum soil temperatures at depths between 1 and 5 cms inclusive were lower than the corresponding values of last January, while at depths between 10 and 100 cms inclusive the values were higher than those of January 1964. The extreme differences were —4.0°C at 1 cm depth and + 1.9°C at 20 cms depth.

The mean daily wind speed at 2 metres height was 0.6 m/sec. lower than the corresponding value of January 1964. Total actual duration of bright sunshine was 14.3 hours lower than the corresponding value of last January. Mean daily value of Piche evaporation was 2.5 mms lower than the corresponding value of January 1964, while mean daily value of class "A" pan evaporation was practically the same as for last January.

TABLE C. 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND
JANUARY — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
l Kasr	18.0	9.0	13.0	11.5	15.2	24.0	24.0	24.0	18.8	5.4	0.3	0.0	0.0	0.0	0.0	0.0
ahrir	19.2	8.2	12.9	11.2	15.2	24.0	24.0	24.0	18.5	6.3	0.3	0.0	0.0	0.0	0.0	0.0
iza	19.0	7.3	12.6	10.9	14.6	24.0	24.0	23.9	17.1	6.3	0.4	0.0	0.0	0.0	0.0	0.0
harga	22.5	5.9	14.4	11.8	17.6	24.0	24.0	22.9	18.2	11.1	4.1	0.6	0.0	0.0	0.0	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS
JANUARY — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
l Kasr	21.0	5	14.3	18	12.4	31	5.6	6	2.4	6	—	—
ahrir	23.5	22	14.5	13	12.1	24	5.0	5	2.6	5	—	—
iza	22.8	2	14.2	16	11.2	18	4.0	5	—1.2	22	—1.3	5
harga	28.5	18	18.2	12	10.6	18	0.6	21	—1.2	21	—	—

TABLE C 3.—SOLAR + SKY RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVPORATION & RAINFALL
JANUARY — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
aar.	232.2	197.6	321.7	62	—	—	78	60	30	22	8.2	8.5	12.1	1	4.8	22	8.3	4.43	44.3	11.0	15
ir .	299.9	208.6	323.2	65	4.9	9.9	73	53	19	22	7.9	7.8	12.2	1	3.9	22	6.6	3.23	35.7	17.7	10
. .	289.5	216.8	324.5	67	3.8	8.5	71	51	29	22	7.5	7.4	11.2	1	3.9	25	5.9	2.43	14.3	5.3	11
rga .	362.1	286.5	334.7	85	0	0	44	28	13	22	5.1	5.3	8.8	18	2.9	22	12.6	6.44	0.0	0.0	—

TABLE C. 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS IN DIFFERENT FIELDS (cms)

JANUARY — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	3
El Kasr	H	22.2	21.7	21.3	19.8	17.7	15.6	15.7	17.4	20.2	—	—	—	—	—	—	—	—	—	—	—
	L	3.0	4.0	4.4	5.8	7.8	10.1	12.8	15.5	18.6	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	25.1	24.0	23.5	22.3	20.2	17.4	17.4	19.2	21.5	23.2	—	—	—	—	—	—	—	—	—	—
	L	5.6	5.7	5.7	7.4	8.4	10.4	12.9	16.6	19.4	21.4	—	—	—	—	—	—	—	—	—	—
Giza	H	35.6	33.8	32.0	21.2	19.9	19.5	20.0	21.9	24.7	26.2	21.6	18.1	17.1	16.0	15.6	15.6	16.9	18.4	21.2	—
	L	1.2	2.0	2.8	7.2	11.3	15.0	17.1	19.8	23.0	24.8	6.2	8.4	8.5	9.8	11.5	13.1	15.1	16.8	19.9	—
Kharga	H	36.5	30.4	29.4	26.5	22.3	21.5	22.8	24.1	26.9	28.3	—	—	—	—	—	—	—	—	—	—
	L	0.8	2.7	4.0	7.0	12.6	16.4	19.9	22.5	25.4	27.2	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

JANUARY — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr . . .	4.9	4.3	5.7	—	—	—	—	—	—	—	—	—
Tahrir	3.0	2.4	3.9	24	18	13	6	0	0	0	37	19
Giza	2.3	1.7	3.1	28	15	5	0	0	0	0	29	20
Kharga	2.8	2.1	3.1	—	—	—	—	—	—	—	—	—

UNITED ARAB REPUBLIC

MONTHLY WEATHER REPORT

OLUME 8 NUMBER 2

FEBRUARY, 1965

J.D.C. 551. 506.1 (62)

MINISTRY OF SCIENTIFIC RESEARCH—METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties as the National Meteorological Service for the U.A.R., the Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

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"The Director General, Meteorological Department, Kubri-el-Qubbeh—CAIRO".

THE DAILY WEATHER REPORT

This report is printed daily in the Meteorological Department. It contains surface and upper air observation carried by the relevant networks of the Republic and made at the four main synoptic hours of observation (00, 06, 12 and 18 U.T.) ; as well as ship observations over the Eastern Mediterranean and north Red Sea made at the same times.

It also contains two surface synoptic charts at 00 and 12 U.T. and two upper air charts for the standard isobaric surfaces 700 & 500 mbs. at both 00 and 12 U.T.

In compliance with resolution 8 (EC-XIII) of WMO, foreign upper air data included in Cairo Subregional Broadcast are also given in this report.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviation from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

The normals, long averages and statistical data are given in one edition for stations in Egypt from the date of opening of each station up to 1945. A new voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

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CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

FEBRUARY 1965

Rather cold in the northern and central districts, warm elsewhere. Subnormal rainfall. Sandrising and sandstorms over scattered localities.

GENERAL DESCRIPTION OF WEATHER

During this month, the weather was rather cold in the northern and central districts where maximum temperatures ranged between 16 °C & 24 °C. Warmth prevailed in the southern districts with maximum temperatures ranging between 21° & 29°C.

As an exception, two heat waves of short durations prevailed during the 2nd & 4th weeks. The first heat wave reached its peak round the 11th yielding maximum temperatures of 28 °C, 30 °C & 36 °C at Alexandria, Cairo and Aswan respectively. The second heat wave reached its peak round the 27th when maximum temperature attained 30 °C & 33°C at Sallum & Aswan respectively.

The monthly rainfall was much below its normal, most of it fell during the first decade and was confined in general to the northern parts of the Republic.

Sand and dustrising occurred over many localities during the first decade. Sandstorms blew occasionally in the open areas.

Surface winds were strong for several days in the Red Sea and western part of the Mediterranean districts where its speed reached gale force sometimes.

Early morning mist developed during the first, third and fourth weeks over scattered localities from Lower Egypt and Cairo districts.

PRESSURE DISTRIBUTION

The prevailing pressure distribution over the surface map this month can be summarized in the following pressure systems.

— The Siberian S W anticyclonic cold ridge over the Black Sea, Asia Minor and East Mediterranean.

— The Atlantic anticyclonic warm ridge over Western Europe and Northwest Africa.

— The deep transitory Atlantic low pressure systems through Europe.

— The travelling Mediterranean secondary depressions eastwards through East Mediterranean or NE wards through the Black Sea.

At the beginning of the month, the southwestern extension of the Siberian cold Anticyclone operated over the Middle East and East Mediterranean, while a deep trough extended from the Black Sea S W wards to Central Mediterranean.

The first Mediterranean depression developed over Central Mediterranean on the 2nd and started to move eastwards while slightly deepening. It crossed the East Mediterranean coast on the 4th.

The 2nd Mediterranean secondary depression operated over Central Mediterranean on the 5th and kept moving ENE with slight deepening and crossed East Mediterranean coast on the 7th. A third secondary low developed over Greece and was moving eastwards while deepening. It crossed East Mediterranean on the 9th. On the 10th the fourth secondary depression appeared over Central Mediterranean. It started to move rapidly eastwards while filling and crossed East Mediterranean on the 12th.

The period between the 12th & 17th was characterized by the establishment of the subtropical high over North Africa.

During the 2nd half of the month two Mediterranean depressions developed over Central Mediterranean round the 14th &19th respectively, while another two Mediterranean depressions developed over West Mediterranean round the 24th & 26th respectively.

These depressions were rather deep, they proceeded eastwards till Crete, then changed their course NE wards towards the Black Sea. Their accompanied elongated southern troughts traversed East Mediterranean round the 18th, 22nd, 26th and 28th respectively.

The barometric pressure over East Mediterranean and the adjacent areas during this month subnormally oscillated in the first half and abnormally oscillated in the second half.

The polar jet stream appeared over the northern districts four times in association with the travelling depressions at about 300 mb level, while the subtropical jet stream was evident over the U.A.R. most of the days of the month at about 200 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan & Aswan were 153, 145 & 140 knots on the 15th, 17th & 5th respectively.

SURFACE WIND

Moderate/fresh W/SW ly winds prevailed over the northern districts in advance of the travelling secondary depressions and troughs, veering to N/NW ly after their passage. Otherwise the prevailing winds were N/NW ly light/moderate.

Strong winds were frequent in the western part of the Mediterranean district and the central part of the Red Sea district.

Calms were reported over some localities of Upper Egypt and Western Desert districts during night and early morning hours.

Gales were reported at : Sallum on the 6th; Sidi Barrani on the 8th; El Kasr on the 8th & 27th; Mersa Matruh on the 4th, 6th, 8th & 27th; Ras El Hikma on the 6th & 27th; Dabaa on the 6th & 8th; Dekheila on the 6th; Ras El Teen & Alexandria on the 6th & 8th; Port said, Sakha, Abu Sueir, Fayed & Cairo on the 8th and at Zaher and Siwa on the 6th.

TEMPERATURE

Maximum temperature generally oscillated below its normal in the northern and central districts ranging between 15 & 22°C with the exception of the periods (10th—13th) & (25th—28th) during which it was markedly above normal reaching on the 11th 28°C at Alexandria, 31°C at Almaza and reaching on the 27th 30°C at Sallum.

In the southern districts, maximum temperature generally oscillated above its normal and ranged generally between 21 & 29°C, but round the 12th and 26th it departed markedly from normal and reached at Aswan 36°C & 33°C respectively.

The absolute maximum temperature was 36.5°C reported at Aswan on the 12th.

Minimum temperature generally oscillated below its normal ranging between 4 & 9°C. As an exception, it was above its normal on few days in the second and fourth weeks and reached 15°C, 17°C & 14°C on the 12th at Alexandria, Almaza and Aswan respectively. It also reached 17°C at Abbasiya and El Arish on the 28th.

The absolute minimum temperature was —1.2°C reported at Dakhla on the 5th.

PRECIPITATION

The total rainfall during this month was markedly subnormal. Rain mainly fell in the first decade and was generally confined to the Mediterranean, Lower Egypt and Cairo districts.

The maximum monthly rainfall was 17.6 mms. reported at Sakha, while the maximum daily rainfall was 13.0 mms. reported at Hammam (Mediterranean district) on the 3rd.

Cairo 3 / 11 / 1970

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

Table A 1. MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

FEBRUARY — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms.
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	—	—	19.9	+0.2	9.1	-0.6	14.5	—	—	—	—	—	—	—	—	—	9.1
Mersa Matruh (A)	1015.6	—1.5	18.5	—0.3	7.8	—0.6	13.2	12.9	—0.5	9.0	—1.8	56	— 7	223.1	309.9	72.0	10.7
Alexandria (A)	1016.0	—1.2	19.7	+0.5	8.0	—1.5	13.4	13.7	—0.5	10.6	—0.6	64	— 4	233.3	310.5	75.1	5.7
Port Said (A)	1015.9	—1.0	19.1	+0.5	11.8	—0.2	15.3	15.2	+0.4	11.7	—0.3	64	— 5	240.8	310.5	77.6	6.1
El Arish	1016.2	—0.8	19.5	—0.4	9.2	+0.1	14.4	14.3	+0.5	11.2	+0.3	66	— 1	235.1	310.8	75.6	6.1
Ghazza	1015.9	—0.6	17.7	—0.2	9.8	—0.2	13.8	14.2	+0.2	11.5	—0.2	71	— 3	227.4	309.9	73.4	4.9
Tanta	1015.6	—1.7	20.7	—0.2	7.1	+0.5	13.9	13.4	+0.6	9.8	—0.1	69	—6	245.9	310.9	79.1	4.1
Cairo (A)	1016.5	—0.9	21.2	+0.6	9.9	+0.3	15.6	15.3	+0.5	9.9	—0.6	46	— 9	—	—	—	11.8
Fayoum	1016.0	—1.1	23.0	+1.0	8.1	+0.7	15.6	14.8	+0.5	9.8	0.0	49	— 3	—	—	—	5.1
Minya (A)	1016.8	—0.9	23.3	+0.9	5.2	0.0	14.2	13.8	+0.5	9.3	+0.4	52	— 1	—	—	—	5.1
Assyout (A)	1016.4	—0.8	23.2	+0.6	7.0	—0.5	15.1	15.2	+0.1	9.0	—0.2	38	— 3	—	—	—	11.2
Luxor (A)	1014.9	—1.2	26.4	+1.2	7.6	+0.9	17.0	16.6	+0.7	10.1	+0.1	38	— 4	—	—	—	6.9
Aswan (A)	1014.9	—0.7	27.6	+1.8	9.4	+0.2	18.5	18.3	+0.8	9.7	+0.7	24	0	—	—	—	10.5
Siwa	1016.4	—1.3	21.6	—0.1	5.6	—0.1	13.6	13.5	—0.4	7.8	—0.8	39	— 5	—	—	—	9.3
Bahariya	1016.0	—1.1	22.7	+0.5	5.9	—0.4	14.3	14.3	+0.6	8.3	—0.1	38	— 6	—	—	—	8.6
Farafra	1018.0	—1.5	23.0	+0.6	5.0	—0.4	14.0	14.0	0.0	8.9	+1.5	46	+ 6	—	—	—	10.4
Dakhla	1016.8	—1.2	25.1	+1.4	4.9	—0.8	15.0	14.7	+1.1	7.7	+0.5	30	— 2	—	—	—	13.5
Kharga	1016.0	—1.0	25.0	+0.6	7.4	+0.3	16.2	16.6	+1.4	8.6	—0.1	31	— 7	268.7	317.3	84.7	13.8
Tor	1015.2	—1.2	22.1	+0.3	9.8	+0.1	16.0	16.6	+0.5	11.8	+0.4	53	— 2	—	—	—	8.
Hurghada	1014.9	—0.7	22.6	+1.4	10.2	+0.3	16 4	16.8	+0.3	11.1	—0.1	45	— 3	—	—	—	12.6
Quseir	1015.3	—0.4	22.8	—0.2	14.3	0.0	18.5	18.7	+0.4	12.8	+0.4	46	+ 1	—	—	—	13.9 4

Table A 2. MAXIMUM AND MINIMUM AIR TEMPERATURES

FEBRUARY — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	30.5	27	14.2	4,8	3	1	0	0	0	8.4	—	12.4	27	5.7	9	19	0	0	0
Mersa Matruh (A)	27.2	27	12.7	4	1	0	0	0	0	—	—	12.6	22	4.9	19	25	1	0	0
Alexandria (A)	27.9	11	14.6	4	2	0	0	0	0	—	—	14.7	28	4.7	17	25	1	0	0
Port Said (A)	27.1	11	14.7	4	1	0	0	0	0	10.5	—	15.3	28	8.6	5	5	0	0	0
El Arish	25.5	27	15.4	4	1	0	0	0	0	7.0	—	13.3	28	6.9	19	23	0	0	0
Ghazza	24.4	11	14.5	5	0	0	0	0	0	—	—	15.7	12	7.4	25	16	0	0	0
Tanta	28.1	11	15.2	4	2	0	0	0	0	—	—	12.7	28	4.5	3	26	4	0	0
Cairo (A)	30.4	11	15.1	4	7	1	0	0	0	—	—	16.0	11	7.3	5	16	0	0	0
Fayoum	31.5	13	17.1	4	7	1	0	0	0	4.6	—	12.9	12	4.0	5	23	1	0	0
Minya (A)	31.5	11	17.6	4	8	2	0	0	0	2.5	—	10.6	13	1.9	3	27	16	0	0
Assyout (A)	32.7	11	15.9	4	9	1	0	0	0	6.4	—	14.0	28	3.9	5	20	1	0	0
Luxor (A)	33.1	28	19.0	4	16	6	0	0	0	5.6	—	14.8	13	3.4	5	23	4	0	0
Aswan (A)	36.5	12	20.2	5	22	7	1	0	0	—	—	14.0	12	4.0	5	17	1	0	0
Siwa	32.9	27	15.9	4	6	1	0	0	0	3.2	—	11.8	6	0.6	9	25	14	0	0
Bahariya	31.3	11	15.8	4	7	2	0	0	0	4.6	—	14.2	28	1.8	9-17	24	13	0	0
Farafra	32.9	11	15.2	4	8	6	0	0	0	4.9	—	13.6	28	0.4	19	25	14	0	0
Dakhla	34.9	27	16.2	4	12	5	0	0	0	—	—	11.8	13	—1.2	5	27	19	1	0
Kharga	33.2	28	17.8	4	12	4	0	0	0	5.7	—	14.8	13	1.7	5	23	5	0	0
Tor	29.0	26	18.1	5	4	0	0	0	0	—	—	15.2	13	7.0	19	15	0	0	0
Hurghada	27.9	26	17.9	5	6	0	0	0	0	9.2	—	16.0	13	6.0	6	16	0	0	0
Quseir	26.3	22,26	18.8	5	4	0	0	0	0	12.7	—	18.5	13	10.7	5	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

FEBRUARY — 1965

Station	Mean Sky Cover Oct					Rainfall mms										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of Days With Amount of Rain						
								Amount	Date	< 0.1	≥ 0.1	≥ 1.0	≥ 5.0	>10	≥ 25	≥ 50
Sallum	—	—	—	—	—	1.2	—10.3	0.6	6	4	2	0	0	0	0	0
Mersa Matruh (A)	2.0	2.8	3.9	2.6	2.8	4.7	—13.0	2.9	3	1	5	1	0	0	0	0
Alexandria (A)	3.1	4.1	4.0	3.4	3.6	14.2	—17.1	7.0	3	3	6	5	1	0	0	0
Port Said (A)	1.4	2.3	3.0	2.2	2.2	3.0	— 9.0	1.5	4	0	3	2	0	0	0	0
El Arish	4.0	4.1	3.6	3.6	3.7	0.0	— 16.4	0.0	—	0	0	0	0	0	0	0
Ghazza	4.1	4.0	3.9	2.3	3.4	24.9	—28.1	13.0	4	0	6	4	2	1	0	0
Tanta	—	1.6	2.8	1.3	—	1.6	— 6.3	0.8	3	0	4	0	0	0	0	0
Cairo (A)	1.6	3.3	3.3	1.8	2.5	0.4	— 4.3	0.4	4	0	1	0	0	0	0	0
Fayoum	—	1.3	1.2	0.6	—	Tr.	— 1.4	Tr.	6	1	0	0	0	0	0	0
Minya (A)	0.8	2.7	2.0	1.1	1.7	Tr.	— 1.2	Tr.	3·6	2	0	0	0	0	0	0
Assyout (A)	0.9	1.8	2.0	1.4	1.4	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Luxur (A)	1.3	1.5	2.0	1.9	1.6	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.5	1.4	0.6	0.8	0.7	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.9	2.4	2.9	2.0	1.9	0.0	— 2.5	0.0	—	0	0	0	0	0	0	0
Bahariya	0.9	2.3	2.4	1.2	1.7	0.0	— 1.2	0.0	—	0	0	0	0	0	0	0
Farafra	—	2.0	2.3	1.2	—	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Dakhla	0.8	1.8	1.4	0.7	1.2	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Kharga	1.7	1.9	2.4	1.8	1.9	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Tor	1.2	2.6	2.8	1.3	1.9	0.0	— 1.3	0.0	—	0	0	0	0	0	0	0
Hurghada	1.9	2.1	2.5	2.1	2.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Quseir	1.3	2.2	2.1	1.9	1.9	Tr.	+ Tr.	Tr.	2	1	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

FEBRUARY — 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice, Pellets	Hail											
Sallum	4	0	0	0	0	0	0	0	1	0	12	4	1	—	—
Meres Matruh (A)	5	0	0	0	0	0	0	0	0	1	6	3	4	9	6
Alexandria (A)	8	0	0	0	0	0	3	2	0	0	2	2	2	4	3
Port Said (A)	3	0	0	0	0	0	0	0	1	0	3	1	1	12	1
El Arish	0	0	0	0	0	0	8	3	7	0	10	4	0	5	3
Ghazza	6	0	0	0	0	0	2	3	6	0	5	0	0	8	3
Tanta	4	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo (A)	1	0	0	0	0	0	2	1	13	0	8	2	1	11	1
Fayoum	1	0	0	0	0	0	0	0	0	0	1	0	0	—	—
Minya (A)	0	0	0	0	0	0	2	0	4	0	2	0	0	18	0
Assyout (A)	0	0	0	0	0	0	1	0	13	0	5	0	0	22	1
Luxor (A)	0	0	0	0	0	0	0	0	15	0	2	0	0	18	1
Aswan (A)	0	0	0	0	0	0	0	0	3	0	3	1	0	24	0
Siwa	0	0	0	0	0	0	0	0	2	0	5	1	1	17	0
Bahariya	0	0	0	0	0	0	0	0	0	0	3	0	0	18	0
Farafra	0	0	0	0	0	0	0	0	6	0	3	0	0	17	1
Dakhla	0	0	0	0	0	0	0	0	6	0	1	0	0	22	0
Kharga	0	0	0	0	0	0	0	0	3	0	5	0	0	18	1
Tor	0	0	0	0	0	0	0	0	2	0	5	0	0	16	0
Hurghada	0	0	0	0	0	0	1	0	2	0	3	0	0	18	3
Quseir	0	0	0	0	0	0	0	0	7	0	1	0	0	19	4

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

FEBRUARY — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Mersa Matruh . . (A)	56	149	0	1-10	16	6	2	3	5	6	12	5	18	9	11	19	112
				11-27	2	0	1	1	10	8	8	42	83	50	32	85	322
				28-47	0	0	0	0	1	0	1	5	6	12	1	5	31
				≥48	0	0	0	0	0	0	0	0	2	0	0	0	2
				All speeds	**18**	**6**	**3**	**4**	**16**	**14**	**21**	**52**	**109**	**71**	**44**	**109**	**467**
Alexandria. . . . . (A)	57	3	0	1-10	26	21	14	25	59	57	34	35	25	14	41	29	380
				11-27	3	0	0	1	2	11	6	37	21	53	65	23	222
				28-47	0	0	0	0	0	0	0	1	7	2	0	0	10
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**29**	**21**	**14**	**26**	**61**	**68**	**40**	**73**	**53**	**69**	**106**	**52**	**612**
Port Said. . . . . (A)	5	3	0	1-10	62	63	34	39	31	26	26	20	36	28	8	14	387
				11-27	8	7	20	17	18	4	15	21	75	50	25	10	270
				28-47	0	0	0	0	0	0	0	0	5	1	1	0	7
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**70**	**70**	**54**	**56**	**49**	**30**	**41**	**41**	**116**	**79**	**34**	**24**	**664**
El Arish	11	9	0	1-10	61	45	12	15	39	158	38	21	69	22	35	37	552
				11-27	0	0	0	0	0	4	5	6	35	40	10	0	100
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**61**	**45**	**12**	**15**	**39**	**162**	**43**	**27**	**104**	**62**	**45**	**37**	**652**
Ghazza.	0	35	0	1-10	29	20	34	43	52	90	29	9	15	36	34	30	421
				11-27	14	2	0	0	4	52	6	31	44	25	15	3	196
				28-47	0	0	0	0	0	0	0	0	16	4	0	0	20
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**43**	**22**	**34**	**43**	**56**	**142**	**35**	**40**	**75**	**65**	**49**	**33**	**637**
Tanta	71	9	0	1-10	32	23	35	45	76	28	20	55	97	52	36	51	550
				11-27	0	0	0	0	0	2	1	3	13	17	6	0	42
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**32**	**23**	**35**	**45**	**76**	**30**	**21**	**58**	**110**	**69**	**42**	**51**	**592**
Cairo. . . . . (A)	16	6	0	1-10	34	50	37	53	36	24	16	41	24	27	22	16	380
				11-27	4	6	23	28	14	16	17	42	28	38	25	13	254
				28-47	0	0	0	0	0	0	1	7	3	5	0	0	16
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**38**	**56**	**60**	**81**	**50**	**40**	**34**	**90**	**55**	**70**	**47**	**29**	**650**
Fayoum	69	0	0	1-10	205	44	3	1	2	34	66	50	39	43	43	63	593
				11-27	0	1	0	0	0	0	2	1	4	1	1	0	10
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**205**	**45**	**3**	**1**	**2**	**34**	**68**	**51**	**43**	**44**	**44**	**63**	**603**

TABLE A 5 (*contd.*) – NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

FEBRUARY — 1965

Station	calm (hours)	variable (hours)	unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of direction indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Minya . . . . . (A)	32	14	0	1-10	98	26	1	0	25	88	40	10	14	10	34	180	526
				11-27	41	11	0	0	0	6	3	0	7	5	13	14	100
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**139**	**37**	**1**	**0**	**25**	**94**	**43**	**10**	**21**	**15**	**47**	**194**	**626**
Assyout . . . . (A)	2	0	0	1-10	1	4	20	24	30	25	19	9	70	195	82	28	507
				11-27	0	1	0	1	11	9	17	8	6	23	49	38	163
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**1**	**5**	**20**	**25**	**41**	**34**	**36**	**17**	**76**	**218**	**131**	**66**	**670**
Luxor . . . . . (A)	15	0	0	1-10	16	103	75	22	22	39	92	63	49	27	39	97	644
				11-27	0	2	0	0	0	0	0	0	0	0	0	11	13
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**16**	**105**	**75**	**22**	**22**	**39**	**92**	**63**	**49**	**27**	**39**	**108**	**657**
Aswan . . . . . (A)	5	17	10	1-10	411	57	12	0	1	1	3	7	11	17	10	20	550
				11-27	71	9	0	0	0	0	0	0	0	1	0	9	90
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**482**	**66**	**12**	**0**	**1**	**1**	**3**	**7**	**11**	**18**	**10**	**29**	**640**
Siwa.	48	8	194	1-10	10	11	6	21	26	16	11	7	28	34	28	15	213
				11-27	11	6	0	2	21	20	22	17	5	18	55	24	201
				28-47	0	0	0	0	0	0	0	1	0	7	0	0	8
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**21**	**17**	**6**	**23**	**47**	**36**	**33**	**25**	**33**	**59**	**83**	**39**	**422**
Dakhla.	31	48	0	1-10	77	58	26	33	41	39	30	20	17	46	91	105	583
				11-27	4	1	0	0	0	0	0	0	0	0	0	5	10
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**81**	**59**	**26**	**33**	**41**	**39**	**30**	**20**	**17**	**46**	**91**	**110**	**593**
Tor	0	1	0	1-10	110	28	22	13	8	11	12	8	26	27	21	78	364
				11-27	2	0	1	8	23	4	3	1	70	148	35	9	304
				28-47	0	0	0	0	0	0	0	0	2	1	0	0	3
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**112**	**28**	**23**	**21**	**31**	**15**	**15**	**9**	**98**	**176**	**56**	**87**	**671**
Hurghada.	20	9	0	1-10	14	12	15	7	23	23	6	3	8	33	64	24	232
				11-27	33	0	0	0	8	8	2	0	0	43	137	168	399
				28-47	2	0	0	0	0	0	0	0	0	0	2	8	12
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**49**	**12**	**15**	**7**	**31**	**31**	**8**	**3**	**8**	**76**	**203**	**200**	**643**
Quseir	18	39	0	1-10	37	10	5	30	10	9	15	11	65	104	28	40	364
				11-27	9	0	0	0	0	0	0	0	10	27	93	112	251
				28-27	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**46**	**10**	**5**	**30**	**10**	**9**	**15**	**11**	**75**	**131**	**121**	**152**	**615**

Table B 1.—UPPER AIR CLIMATOLOGICAL DATA

FEBRUARY — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 UT	Surface	27	*1016m.b.	*1027m.b.	*1010m.b.	27	10.3	14.6	7.4	27	5.7
	1000	27	160	252	78	27	11.7	15.8	7.1	27	5.3
	850	27	1506	1595	1428	27	4.2	14.3	— 6.5	23	— 4.5
	700	27	3066	3167	2955	27	— 3.4	2.7	— 9.0	15	—11.2
	600	27	4265	4389	4135	27	—10.6	— 6.0	—15.1	9	—17.7
	500	26	5680	5786	5489	26	—19.6	—14.7	—24.8	8	—25.1
	400	26	7260	7426	7079	26	—31.1	—27.5	—36.6	7	—35.7
	300	24	9241	9419	9061	24	—44.9	—37.4	—52.2	—	—
	200	19	11896	12061	11723	19	—53.0	—40.0	—60.9	—	—
	150	10	13704	13844	13507	10	—59.5	—57.7	—62.7	—	—
	100	5	16183	16324	15976	5	—67.5	—65.0	—69.4	—	—
	70	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface	28	*999m.b.	*1007m.b.	*990m.b.	28	12.0	22.6	6.5	28	1.3
	1000	27	139	199	76	27	6.8	12.4	6.5	17	3.7
	850	28	1491	1541	1446	28	7.5	17.7	— 1.7	21	— 7.2
	700	28	3069	3117	2971	28	— 0.1	6.6	— 6.3	14	—15.0
	600	28	4292	4392	4166	28	— 7.3	— 3.7	—11.6	10	—16.9
	500	28	5683	5757	5531	28	—16.7	—13.0	—21.3	10	—24.8
	400	28	7323	7408	7136	28	—28.0	—24.0	—32.9	6	—37.9
	300	28	9331	9434	9127	28	—41.8	—33.7	—49.3	3	—43.2
	200	27	11996	12152	11840	27	—54.6	—44.3	—60.4	—	—
	150	25	13800	13942	13653	25	—64.1	—56.1	—72.8	—	—
	100	21	16247	16380	16102	21	—69.2	—63.4	—73.7	—	—
	70	16	18383	18530	18240	16	—67.4	—62.8	—74.9	—	—
	60	14	19324	19484	19174	14	—63.8	—57.8	—67.4	—	—
	50	12	20448	20622	20291	12	—60.2	—57.3	—62.3	—	—
	40	9	21812	21921	21689	9	—57.6	—54.0	—60.2	—	—
	30	8	23639	23770	23512	8	—54.7	—48.7	—57.8	—	—
	20	7	26252	26392	26133	7	—51.0	—47.2	—54.9	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 UT	Surface	28	*991m.b.	*995m.b.	*986m.b.	28	13.6	20.5	7.5	28	— 2.0
	1000	28	114	150	75	—	—	—	—	—	—
	850	28	1491	1518	1454	28	14.5	21.3	6.8	17	— 3.0
	700	28	3108	3138	3043	28	6.7	11.8	— 1.1	12	— 9.4
	600	28	4355	4403	4265	28	— 1.0	6.2	— 6.2	9	—13.0
	500	28	5784	5863	5662	28	—11.5	— 5.5	—16.6	7	—19.8
	400	28	7458	7571	7312	28	—22.9	—18.0	—30.2	6	—33.9
	300	28	9514	9664	9350	28	—36.8	—31.1	—43.2	2	—41.4
	200	28	12216	12400	12080	28	—54.8	—47.8	—58.8	—	—
	150	28	14008	14208	13854	28	—66.2	—60.3	—70.0	—	—
	100	27	16408	16632	16265	27	—74.7	—68.8	—81.4	—	—
	70	25	18488	18560	18360	25	—68.9	—67.6	—78.1	—	—
	60	24	19374	19474	19241	24	—65.8	—64.0	—73.1	—	—
	50	22	20492	20594	20352	22	—63.9	—57.0	—70.1	—	—
	40	18	21868	21972	21701	18	—59.2	—54.7	—66.0	—	—
	30	16	23691	23810	23524	16	—54.8	—43.8	—60.6	—	—
	20	12	26308	26430	26137	12	—51.6	—45.3	—56.9	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 1 (*contd.*)—UPPER AIR CLIMATOLOGICAL DATA

FEBRUARY — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 UT	Surface	27	*1015m.b.	*1026m.b.	*1000m.b.	27	17.8	25.4	12.4	27	5.6
	1000	27	157	246	28	27	16.2	25.0	11.1	27	4.4
	850	27	1510	1598	1383	27	5.4	17.2	— 1.4	23	— 5.5
	700	27	3073	3171	2935	27	— 2.6	3.0	— 7.9	16	—12.1
	600	27	4281	4395	4124	27	— 9.4	2.6	—15.0	13	—16.7
	500	27	5663	5790	5482	27	—19.1	—14.1	—23.5	9	—23.8
	400	25	7296	7417	7177	25	—30.2	—26.0	—34.1	8	—36.0
	300	22	9280	9386	9143	22	—44.5	—39.3	—48.1	—	—
	200	17	11921	12089	11781	17	—53.2	—45.0	—59.0	—	—
	150	15	13752	13923	13607	15	—58.4	—52.3	—62.6	—	—
	100	10	16279	16444	16104	10	—62.7	—57.1	—67.1	—	—
	70	2	18490	18600	18380	2	—65.4	—63.0	—67.7	—	—
	60	1	19303	—	—	1	—60.3	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	28	*998m.b.	*1006m.b.	*992m.b.	28	20.1	29.7	9.8	28	0.3
	1000	28	128	190	60	13	18.3	21.3	15.4	13	0.0
	850	28	1490	1541	1421	28	7.4	15.6	— 1.0	27	— 6.5
	700	28	3068	3114	2955	28	0.3	4.3	— 9.7	12	—15.6
	600	28	4289	4347	4143	28	— 6.7	— 2.3	—13.5	11	—16.9
	500	28	5686	5770	5510	28	—16.2	—11.4	—20.7	10	—25.0
	400	28	7329	7437	7138	28	—27.6	—23.1	—33.7	5	—37.6
	300	28	9336	9467	9135	28	—41.8	—37.0	—49.3	2	—44.5
	200	28	12008	12145	11828	28	—54.1	—45.3	—60.6	—	—
	150	28	13816	13940	13662	28	—63.1	—54.9	—70.3	—	—
	100	26	16272	16385	16152	26	—68.8	—63.4	—72.8	—	—
	70	18	18413	18530	18280	18	—66.5	—63.0	—70.8	—	—
	60	15	19345	19445	19242	15	—63.7	—60.8	—67.0	—	—
	50	14	20466	20591	20366	14	—61.8	—57.7	—70.4	—	—
	40	11	21873	21995	21776	11	—56.4	—54.2	—58.7	—	—
	30	7	23717	23834	23626	7	—50.6	—42.6	—55.7	—	—
	20	2	26473	26514	26432	2	—48.4	—48.2	—48.7	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 UT	Surface	28	*990m.b.	*995m.b.	*986m.b.	28	25.4	33.7	17.0	28	0.6
	1000	28	109	150	68	—	—	—	—	—	—
	850	28	1506	1543	1466	28	16.3	23.1	9.0	10	— 2.5
	700	28	3130	3164	3087	28	8.1	12.7	3.3	9	— 8.7
	600	28	4385	4417	4335	28	0.4	4.2	— 3.8	7	—13.4
	500	28	5821	5858	5763	28	— 9.6	— 5.9	—14.5	6	—19.6
	400	28	7508	7565	7423	28	—21.2	—17.0	—27.0	3	—33.7
	300	28	9575	9650	9429	28	—35.4	—28.0	—42.0	—	—
	200	28	12296	12418	12125	28	—53.2	—46.0	—57.0	—	—
	150	27	14102	14237	13954	27	—63.8	—56.8	—69.0	—	—
	100	26	16534	16705	16427	26	—72.4	—65.5	—77.4	—	—
	70	21	18622	18880	18340	21	—70.0	—58.4	—73.7	—	—
	60	21	19560	19698	19401	21	—64.9	—51.0	—70.0	—	—
	50	21	20694	20946	20531	21	—58.2	—47.1	—68.8	—	—
	40	12	22146	22385	21951	12	—52.0	—40.0	—58.9	—	—
	30	12	24032	24207	23820	12	—46.3	—34.2	—51.3	—	—
	20	9	26713	27123	26498	9	—43.5	—32.7	—46.5	—	—
	10	1	31350	—	—	1	—36.2	—	—	—	—

N = Number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevtion of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

FEBRUARY — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 UT		(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh(A)	2282 (27)	775 (27)	— 7.6 (23)	3380	675	— 9.0	1290	865	— 1.4	11035 (17)	266 (17)	—52.6 (17)	14100	140	—62.1	7770	362	—36.6	9920	273	260	153
	Helwan	2887 (28)	722 (28)	—11.9 (17)	3860	645	—15.4	1210	876	— 3.7	12381 (23)	199 (23)	—60.1 (23)	15840	149	—66.2	8062	350	—39.1	10210	255	250	142
	Aswan . . (A)	4150 (28)	615 (28)	—11.4 (11)	5120	547	—	2900	714	— 7.2	15980 (26)	101 (26)	—74.9 (26)	17900	77	—75.8	14210	146	—70.4	10140	269	240	138
1200 UT		(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh(A)	2411 (27)	763 (27)	— 9.6 (23)	3460	672	— 5.9	1270	870	— 2.6	10487 (16)	233 (16)	—55.4 (16)	13580	153	—61.8	8750	320	—45.7	12150	193	270	147
	Helwan	2974 (28)	712 (28)	—11.4 (14)	3870	634	—16.3	1300	863	— 1.4	12696 (27)	188 (27)	—61.1 (27)	16780	91	—71.5	8900	314	—46.3	8680	331	240	145
	Aswan . . .(A)	4336 (28)	561 (28)	—11.9 (6)	5120	548	—	3690	653	—	15968 (23)	111 (23)	—73.0 (23)	17850	80	—74.2	14220	151	—63.7	9190	314	240	140

N = The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A)— FEBRUARY 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	0	—	1	3	0	—	0	—	3	12	0	—	2	5	3	14	4	10	2	17	3	6	3	12	6	27	8
	1000	0	—	1	5	0	—	0	—	1	15	0	—	2	9	3	18	4	14	1	17	3	15	1	19	1	17	13
	850	1	11	0	—	0	—		—	0	—	0	—	1	17	1	17	2	27	6	24	3	12	1	28	0	15	20
	700	0	—	0	—	0	—	0	—	0	—	0	—	0		0	—	0	—	11	34	1	36	0	—	0	12	34
	600	0	—	0	—	0	—	0	—	0	—	0	—	0		0	—	2	42	9	48	0	—	0	—	0	11	47
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	10	66	0	—	0	—	0	11	60
	400	0	—	0	—	0	—	0	—	0	—	0	—	0		0	—	1	123	8	94	0	—	0	—	0	9	97
	300	0	—	0	—	0	—	0	—	0	—	0	—	0		0	—	2	100	6	114	0	—	0	—	0	8	111
	200	0	—	0	—	0	—	0	—	0	—	0	—	0		0	—	0	—	1	168	0	—	0	—	0	1	168
	150	—	—	—	—	—	—	—	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	1	14	0	—	0	—	0	—	1	10	0		1	13	6	18	2	27	2	14	5	15	8	10	1	27	14
	1000	1	14	0	—	0	—	1	7	0	—	0	—	1	14	6	20	3	22	4	15	4	17	5	20	1	26	17
	850	1	12	0	—	0	—	0	—	1	10	1	3	0		2	22	6	14	8	18	3	20	1	14	0	23	16
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	5	35	10	33	4	37	1	8	0	21	32
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	51	11	41	5	41	0	—	0	21	44
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	74	15	63	3	43	0	—	0	20	61
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	15	86	2	42	0	—	0	17	81
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	80	1	24	0	—	0	9	74
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	45	2	39	0	—	0	3	41
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	65	0	—	0	2	65
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3 (*contd.*).—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN— FEBRUARY 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	0	—	2	6	9	10	2	8	1	6	3	9	0	—	2	12	1	7	0	—	1	4	1	14	6	28	7
	1000	2	10	4	18	7	14	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	1	3	17	11
	850	3	9	2	12	0	—	0	—	1	9	0	—	1	13	1	7	6	23	5	24	6	15	3	12	0	28	17
	700	0	—	1	18	0	—	0	—	0	—	0	—	0	—	1	14	6	34	14	36	5	26	1	10	0	28	31
	600	1	29	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	52	20	46	3	39	1	15	0	28	44
	500	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	58	20	64	3	27	0	—	0	28	58
	400	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	85	15	66	3	66	0	—	0	20	66
	300	1	85	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	120	7	86	3	65	0	—	0	12	83
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	48	2	70	0	—	0	3	63
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	36	0	—	1	105	0	3	59
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	25	2	62	0	—	0	3	49
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	32	0	—	0	1	32
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	22	0	—	0	1	22
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	19	0	—	0	—	0	1	19
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	43	0	—	0	—	0	—	0	1	43
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	48	0	—	0	—	0	1	48
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	0	—	0	—	0	1	40
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	3	10	5	13	2	8	0	—	0	—	0	—	2	12	6	11	1	8	3	10	4	10	1	11	1	28	10
	1000	1	13	6	14	1	10	0	—	0	—	0	—	0	—	1	4	0	—	0	—	3	12	1	11	0	13	12
	850	2	12	3	8	1	10	0	—	0	—	—	—	1	6	4	12	5	24	2	12	7	14	3	7	0	28	14
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	29	6	32	15	29	4	28	1	7	0	27	29
	600	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	42	10	42	4	46	0	—	0	26	41
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	64	16	53	4	62	1	18	0	24	54
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	100	15	68	2	28	0	—	0	19	68
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	87	9	86	2	44	0	—	0	12	79
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	42	1	110	0	—	0	3	64
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	42	0	—	0	—	0	2	42
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	36	0	—	1	42	0	—	0	2	39
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	24	0	—	0	—	0	1	24
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	1	21
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	1	21
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — FEBRUARY 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000–360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	18	10	3	9	1	10	0	—	1	5	0	—	0	—	0	—	1	9	2	10	0	—	2	8	0	28	10
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	2	12	6	10	2	6	1	10	0	—	2	8	1	4	0	—	2	5	4	6	3	4	5	15	0	28	9
	700	2	13	0	—	0	—	0	—	0	—	0	—	1	6	1	18	3	31	13	17	4	19	4	12	0	28	17
	600	1	49	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	29	14	33	5	20	0	—	0	28	30
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	40	17	42	3	54	0	—	0	28	42
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	52	18	52	2	55	0	—	0	28	52
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	73	17	59	2	42	0	—	0	28	59
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	78	9	77	0	—	0	—	0	17	77
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	70	4	78	0	—	0	—	0	5	76
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	0	—	0	—	0	1	37
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	18	8	0	—	2	6	0	—	1	11	0	—	0	—	0	—	0	—	2	14	0	—	1	9	4	28	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	7	12	2	8	3	10	0	—	0	—	0	—	1	5	2	15	2	6	4	12	4	12	3	4	0	28	10
	700	3	11	0	—	0	—	1	7	0	—	0	—	0	—	0	—	7	20	9	22	4	12	4	8	0	28	17
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	29	12	31	5	22	1	13	0	28	28
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	31	10	40	13	41	4	38	0	—	0	28	40
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	73	15	51	4	52	0	—	0	28	58
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	12	71	14	67	0	—	0	—	0	26	68
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	83	10	77	1	48	0	—	0	20	78
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	84	8	67	0	—	0	—	0	9	69
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	0	—	0	—	0	—	0	1	40
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N. = The number of cases the wind has been observed from the range of direction during the month.

T.N. = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATION AT EL KASR

FEBRUARY 1965

This month was mild and slightly humid as compared with the normal values of air temperature and relative humidity at 2 metres. Total rainfall was below normal.

The month was characterized by three warm days namely 20th., 25th. and 27th., and one cold day (4th.). The absolute maximum air temperature and the lowest relative humidity at 2 metres occured on the 27th.

The extreme maximum soil temperatures in the dry field at different depths were lower than the corresponding values of February 1964. The maximum departure was —1.4°C at 5 and 10 cms depths. The extreme minimum soil temperatures at 50 cms depth and shallower layers were higher than the corresponding values of last February with the maximum departure of + 1.2°C at 5 cms depth. At 100 cms depth the extreme minimum soil temperature was 0.1°C lower than the corresponding value of February 1964.

The mean daily wind speed at 2 metres above ground was the same as the corresponding value for last February. Mean daily Class "A" pan evaporation was higher than the corresponding value of last February by 1.12mms.

The total actual duration of bright sunshine was 71% of the total possible duration.

REVIEW OF AGRO-METEOROLOGICAL STATION AT TAHRIR

FEBRUARY 1965

This month as compared with February 1964, was warmer and drier and with less rainfall. The mean daily air temperature at 2 metres above ground was higher (+ 0.7°C) while the mean daily relative humidity was lower (3 %) and the total rainfall was lower (—0.7 mm) than the corresponding values of last February.

The month was characterized by a remarkable heat wave on the 10th. and 11th. which gave the absolute maximum air temperature at 2 cms height for the month and the lowest relative humidity on the 11th. Strong winds dominated on the 4th., 6th. and 8th. and gave sandrising and sandstorms.

The extreme maximum soil temperatures down to 50 cms depth were higher than the corresponding values for February 1964 by 0.9 to 2.4°C except in the first 2 cms where they were lower by 1.1 to 2.4°C. At 100 cms depth the extreme maximum soil temperature was equal to the corresponding value of last February. The extreme minimum soil temperatures in the first 20 cms depth were higher than the corresponding values of February 1964 by 3.0°C falling steadily to 0.1°C. At 50 and 100 cms depths the values were lower than the correspondnig values of last Februaryby 0.9 and 0.7°C respectively.

The mean daily wind speed at 2 metres above ground was the same as the corresponding value of last February. The mean daily values of Piche evaporation and Class "A" pan evaporation were higher than the corresponding values of last February by 1.4 and 0.47 mms respectively. Actual sunshine duration was about 7 % more than that of last February.

REVIEW OF AGRO-METEOROLOGICAL STATION AT GIZA

FEBRUARY 1965

This month was slightly cool and dry as compared with the normal values of air temperature and relative humidity for Giza during February. The mean daily air temperature at 2 metres above ground was slightly lower than normal (0.2°C) while the mean daily relative humidity was below normal (—9%). Total rainfall was 3.9 mms below normal.

The month was characterized by two heat waves experienced in the periods (10th—11th) and (25th—27th) respectively. The first heat wave was the most excessive and gave the absolute maximum air temperature at 2metres height for the month (30.1°C on the 11th). A moderate cold wave was experienced in the period (4th—5th) and gave the lowest maximum air temperature on the 4th.

The minimum air temperature at 5 cms above grass (Libia) fell below 0°C on 12 days against 2 days in last February. The duration of air temperature below 0°C on those days are given in the following table in hours (to the nearest half) together with the actual values of the minimum air temperature.

Air Temperature Below 0°C at 5 cms Above Grass (LIBIA)

Date	Min. air temp. °C	Duration in hours (to the nearest half) of air temp. below the following limits				
		0°C	-1°C	-2°C	-3°C	-4°C
2	—0.6	0.5	0	0	0	0
3	—0.9	1.5	0	0	0	0
5	—1.2	1.0	0.5	0	0	0
10	—1.1	1.5	1.0	0	0	0
14	—1.3	3.5	3.0	0	0	0
15	—3.3	5.5	2.5	1.5	0.5	0
16	—2.4	4.5	1.5	0.5	0	0
17	—2.4	4.0	3.0	0.5	0	0
18	—2.5	4.5	2.0	0.5	0	0
19	—0.9	1.0	0	0	0	0
23	—1.9	1.0	0.5	0	0	0
24	—0.5	0.5	0	0	0	0

The extreme maximum soil temperatures at depths between 0.3 and 50 cms depths in the dry field were higher than the corresponding values for February 1964 ; the maximum deviation was 2.2°C at 2 cms depth. At 100 cms depth the extreme maximum soil temperature was 0.1°C lower than the corresponding value of last February. The extreme minimum soil temperatures at depths between 0.3 and 5 cms inclusive were higher, while those at depths between 10 and100 cms inclusive were lower than the corresponding values of February 1964. The maximum deviations were + 1.0°C at 5 cms depth and —0.2°C at depths between 10 and 100 cms.

The mean daily wind speed at 2 metres above ground was the same as the corresponding value of last February. The mean daily values of Piche evaporation and potential evaporation from soil were higher than the corresponding values of February 1964 by 1.1 and 0.1 mms respectively; while the mean daily values of class "A" pan evaporation and potential evapotranspiration for grass were lower than the corresponding values of last February by 0.13 and 0.1 mm repectively. The total actual duration of bright sunshine was 11.9 hours higher than the corresponding value of last February.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA

FEBRUARY 1965

This month was warm and dry as compared with the normal values for air temperature and relative humidity at 2 metres above ground. The month was characterized by two heat waves experienced in the periods (10th -12th) and (25th—28th) respectively. The second heat wave was the most excessive and gave the absolute maximum air temperature at 2 metres height (33.2°C) on the last day of the month. A moderate cold wave occurred in the period (4th. — 5th.) and gave the lowest maximum air temperature on the 4th. (17.8°C).

The absoulte minmum air temperature at 5 cms height above dry soil was 0.5°C higher than the corresponding value of February 1964.

The extreme maximum soil temperatures in the dry field at different depths were higher than the corresponding values of February 1964. The maximum departure was 4.3°C at 5 cms depth. The extreme minimum soil temperatures at 1 and 2 cms depths were lower than the corresponding values of last February with the larger departure —2.3°C at 1 cm depth. At 5 cms depth and deeper layers the extreme minimum soil temperatures were higher than the corresponding values of February 1964 with the maximum departure of + 1.3°C at 10 cms depth.

The mean daily wind speed at 2 metres above ground was 0.5 m/sec. higher than the corresponding value of last February. Mean daily Piche evaporation at 120 cms above ground and mean daily class "A" pan evaporation were higher than the corresponding values of last February by 2.6 and 2.70 mms respectively. The total actual duaration of bright sunshine was 18.5 hours lower than the corresponding value of last February.

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MINISTRY OF SCIENTIFIC RESEARCH – METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties as the National Meteorological Service for the U.A.R., the Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for pbulication should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh—CAIRO".

THE DAILY WEATHER REPORT

This report is printed daily in the Meteorological Department. It contains surface and upper air observation carried by the relevant networks of the Republic and made at the four main synoptic hours of observation (00, 06, 12 and 18 U.T.) ; as well as ship observations over the Eastern Mediterranean and north Red Sea made at the same times.

It also contains two surface synoptic charts at 00 and 12 U.T. and two upper air charts for the standard isobaric surfaces 700 & 500 mbs. at both 00 and 12 U.T.

In compliance with resolution 8 (EC-XIII) of WMO, foreign upper air data included in Cairo Subregional Broadcast are also given in this report.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviation from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

The normals, long averages and statistical data are given in one edition for stations in Egypt from the date of opening of each station up to 1945. A new voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

UNITED ARAB REPUBLIC

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MINISTRY OF SCIENTIFIC RESEARCH — METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

MARCH 1965

Changeable, intervened by five variant khamsin waves.
Rather subnormal rainfall in general.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was changeable characterized by a pronounced khamsin disturbance most of the 1st decade and intervened otherwise with four light khamsin spells round the periods (17th), (20th-21st), (25th & (29th). The transits of khamsin disturbances were associated with frontal sandrising and few sandstorms over scattered localities particularly in the middle and southern districts and were followed generally with light rain particularly during the third week. The monthly rain was subnormal in general with the exception of few scattered localities in the Mediterranean coastal strip where the monthly rain was abnormal, the daily rain was moderate to heavy and rain was associated with thunderstorms and lightning. Early morning mist and fog developed for few days over scattered localities in the Delta, Canal & Cairo areas.

PRESSURE DISTRIBUTION

The pressure distribution over the surface map during this month can be summarized in the following.

— The Siberian Anticyclonic cold ridge over the Black Sea and its SW extension towards East Mediterranean.

— Secondary low pressure systems developed over the Mediterranean and proceeded eastwards associated with the desert depressions.

— The northward oscillations of the Sudan trough of low pressure.

— The Atlantic warm anticyclone and its southeast extension through north Africa.

— The Atlantic deep low pressure systems over the high latitudes traversing west Europe.

At the beginning of the month a deep low was operating over Spain. It was almost stationary in the first two days and deepened.

On the 3rd, it started moving slowly eastwards while filling, together with a desert depression formed south of the Atlas Mountains. The secondary Mediterranean depression reached Italy on the 5th and continued filling, while the Sudan trough of low pressure extended northwards joining the desert depression to its circulation. The whole system rapidly moved eastwards and the desert depression crossed East Mediterranean on the 7th.

Two more desert depressions formed south of the Atlas Mountains on the 5th & 12th. Both joined the Sudan extended trough on the 8th & 17th, proceeded as the previous one and crossed East Mediterranean on the 9th & 18th respectively.

On the 19th cyclogensis took place over the Gulf of Geneoa, and a secondary Mediterranean depression formed and steadily moved eastwards together with a desert depression with no appreciable change in intensity and crossed East Mediterranean on the 22nd.

On the 23rd, a deep Atlantic low pressure system traversed eastwards towards Central Europe with a deep extended southern trough skirting Tunisia. Accordingly on the 24th a well developed secondary low developed over North Italy, proceeded ESE. wards while filling steadily. It crossed East Mediterranean on the 26th. On the 27th a secondary Mediterranean depression appeared over Crete where it was almost stationary for about 24 hours, then slowly proceeded eastwards while filling and crossed East Mediterranean on the 31st.

All the above mentioned depressions were reflected aloft through upper layers up to more than 200 mbs.

The barometric pressure over the surface map during this month was generally abnormal in the first two weeks and subnormal otherwise in the northern and central districts. Two marked maxima occurred round the 2nd & 13th, while six marked minima occurred round the 6th, 9th, 17th, 22nd, 26th and 30th. As an exception, over the southern districts it oscillated generally round its normal.

The subtropical jet stream appeared during most of the month over the U.A.R. round 190 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan, & Aswan were 148, 158 & 145 knots on the 20th, 17th & 29th respectively.

SURFACE WIND

The prevailing winds this month were light/moderate Nly and NWly. Fresh/strong winds blew occasionally for few days in general, but were mostly prevalent over scattered localities of Mediterranean (Western parts), and Red Sea districts.

Calms were frequent most night and early morning intervals over scattered localities.

Gales were reported at : Ras El-Teen on the 30th ; Port Said on the 22 nd and at Tor & Hurghada on the 12th.

TEMPERATURE

Maximum temperature was remarkably above normal during the first week ranging between 22 & 38°C. During the rest of the month, it widely oscillated round its normal ranging between 16 & 37°C.

The absolute maximum temperature was 39.5 °C reported at Kena on the 9th.

Minimum temperature oscillated above its normal in the first two weeks and ranged between 5 & 15 °C in general. As an exception it departed markedly above normal round the 9th in some localities of the northern and central districts. reaching 19 °C in P. Said. Helwan & Abu Redes and 22 °C in Cairo & Suez. During the rest of the month. it oscillated slightly below its normal and ranged between 6 & 11 °C in general. As an exception the amplitude of its oscillation in the southern districts was large and minimum temperature ranged between 7 & 22 °C.

The absolute minimum temperature was 4.2 °C reported at Farafra & Dakhla on the 15th.

PRECIPITATION

During this month, rain was light in general and rather subnormal. It fell on the 11th and during the periods (20th — 25th) & (29th — 30th) over scattered localities of the northern and middle parts of the Republic.

As an exception, rain was heavy and attained 15 mms. at Dabaa on the 22nd, 10 mms. at El-Arish on the 21st.

The absolute monthly rainfall was 110.0 mms. reported at Fuka, while the maximum daily rainfall was 35.0 mms. reported also at Fuka on the 28th.

Cairo 11 / 11 / 1970

M. F. TAHA
Under Secretary of State
Director Geneal
Meteorological Department

TABLE A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

MARCH 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evap. (mms)
			Maximum		Minimum		A+B / 2	Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	1015.7	+0.7	22.6	+1.2	12.0	+0.9	17.3	16.5	+0.1	11.7	—0.1	53	— 2	—	—	—	8.1
Mersa Matruh (A)	1016.1	+0.5	21.0	+0.5	10.7	+0.7	15.8	15.4	+0.4	11.8	+0.4	62	— 1	296.4	371.6	79.8	8.5
Alexandria (A)	1015.8	+0.2	22.9	+1.7	11.0	—0.2	17.0	16.3	+0.5	12.8	+0.6	64	— 2	288.4	371.6	77.6	6.1
Port Said (A)	1015.6	+0.2	20.8	+0.6	14.2	+0.8	17.5	17.4	+1.0	13.7	+0.4	64	— 4	283.4	371.6	76.3	6.4
El Arish	1015.6	+0.4	22.6	+1.3	11.6	+1.3	17.1	16.9	+0.7	13.5	+0.6	66	— 1	295.3	373.0	79.2	5.7
Ghazza	1015.4	+0.4	20.6	+0.5	11.9	+0.3	16.2	16.5	+0.5	13.1	—0.3	66	— 6	272.0	371.9	73.1	5.7
Tanta	1015.2	+0.2	24.3	+0.6	9.7	+1.4	17.0	16.2	+0.5	11.8	0.0	55	— 5	298.7	371.8	80.3	4.9
Cairo (A)	1015.6	+0.3	25.5	+1.6	12.5	+1.1	19.0	18.5	+0.9	12.1	—0.1	42	— 8	—	—	—	12.9
Fayoum	1015.6	0.0	26.8	+1.5	11.0	+1.0	18.9	18.3	+0.4	12.4	+0.2	46	— 1	—	—	—	7.0
Minya (A)	1015.6	+0.1	27.4	+1.6	8.6	+0.7	18.0	17.5	+0.9	12.2	+1.1	50	+ 2	—	—	—	7.5
Assyout (A)	1015.1	+0.2	27.9	+1.3	11.6	+1.0	19.8	19.1	+0.5	11.3	+0.3	32	0	—	—	-	13.0
Luxor (A)	1013.6	+0.2	30.5	+1.2	12.2	+1.5	21.4	21.1	+1.0	12.7	+0.4	32	— 2	—	—	—	9.2
Aswan (A)	1013.3	+0.3	31.2	+0.6	13.8	+0.5	22.5	23.0	+0.8	12.3	+1.2	20	+ 5	—	—	—	13.5
Siwa	1016.1	+0.5	25.0	0.0	9.4	+1.4	17.2	17.4	+0.2	10.6	+0.1	37	0	—	—	—	12.1
Bahariya	1015.0	—0.4	26.7	+1.1	9.5	+0.6	18.1	18.3	+0.3	10.9	+0.3	34	— 2	—	—	—	9.9
Farafra	1016.9	+0.3	26.9	+0.3	8.6	—0.3	17.8	17.3	—0.6	9.9	+0.2	32	+ 5	—	—	—	14.6
Dakhla	1015.2	+0.6	29.4	+0.6	8.7	—0.6	19.0	18.6	+0.3	10.3	+0.7	27	+ 3	—	—	—	13.6
Kharga	1014.4	—0.1	29.9	+1.4	12.4	+1.4	21.2	21.6	+1.3	11.1	—0.2	24	— 5	315.0	373.0	83.8	18.3
Tor	1014.4	+0.6	25.7	+1.4	13.4	+0.8	19.6	19.8	+2.0	14.2	+0.8	51	— 1	—	—	—	9.9
Hurghada	1014.1	+0.7	25.6	+2.2	13.2	+0.8	19.4	19.9	+1.1	13.2	0.0	42	— 8	—	—	—	15.1
Quseir	1014.4	+0.9	25.4	+0.6	16.4	—0.1	20.9	21.0	+0.2	14.4	+0.1	44	— 2	—	—	—	13.6

TABLE A2.— MAXIMUN AND MINIMUM AIR TEMPERATURES

MARCH — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Salium	33.4	4	16.8	13	8	2	0	0	0	11.3	—	15.6	17	9.5	2	3	0	0	0
Mersa Matruh . (A)	33.8	6	16.0	12	2	1	0	0	0	—	—	13.9	9	6.7	2	8	0	0	0
Alexandria . . . (A)	35.8	6	18.0	14	5	1	1	0	0	—	—	14.8	18	7.0	3	9	0	0	0
Port Said . . . (A)	34.1	6	17.0	13	4	2	0	0	0	13.5	—	17.4	9	11.6	23	0	0	0	0
El Arish	36.1	5	17.3	13	5	4	1	0	0	9.9	—	15.8	6	7.7	3	5	0	0	0
Ghazza	33.9	5	16.2	13	4	3	0	0	0	—	—	19.5	6	7.5	14·15	4	0	0	0
Tanta	35.7	6	17.8	13	13	3	1	0	0	—	—	14.8	9	5.9	14	17	0	0	0
Cairo . . . . . (A)	35.8	6	17.7	13	15	6	1	0	0	—	—	20.1	6	7.9	14	5	0	0	0
Fayoum	37.9	6	20.9	13,22	18	6	2	0	0	7.3	—	16.9	9	7.6	3	10	0	0	0
Minya . . . . . (A)	36.1	6	20.1	12	20	6	2	0	0	—	—	14.5	9	4.6	2	23	1	0	0
Assyout. . . . . (A)	38.0	6	20.8	12	21	9	2	0	0	10.0	—	16.0	7	6.3	14	7	0	0	0
Luxor . . . . . (A)	37.4	7	24.6	23	29	13	6	0	0	8.2	—	18.1	18	7.0	3	9	0	0	0
Aswan . . . . . (A)	37.8	10	24.2	21	29	17	8	0	0	—	—	21.1	11	7.0	3	3	0	0	0
Siwa	36.9	8	19.4	12	13	4	1	0	0	6.9	—	14.9	17	7.5	2·3	21	0	0	0
Bahariya	37.5	6	19.5	12	18	7	3	0	0	8.3	—	14.9	9	5.6	3	20	0	0	0
Farafra	37.1	8	19.2	12	19	7	2	0	0	7.8	—	12.7	10,18	4.2	15	22	2	0	0
Dakhla	39.3	6	22.6	22	23	13	6	0	0	—	—	15.8	11	4.2	15	19	5	0	0
Kharga	38.6	6	23.0	13	26	12	7	0	0	10.3	—	19.1	8	7.3	24	10	0	0	0
Tor	32.6	9	20.0	2	18	2	0	0	0	—	—	19.0	11·18	8.2	3	3	0	0	0
Hurghada	29.0	9	21.2	13	18	0	0	0	0	12.0	—	20.3	18	9.2	3	1	0	0	0
Quseir	32.5	26	21.0	13	15	3	0	0	0	14.7	—	19.0	18	13.4	14	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

MARCH — 1965

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	3.0	4.0	5.3	3.6	4.0	8.9	— 2.7	7.1	21	2	5	1	1	0	0	0
Mersa Matruh (A)	1.9	3.9	3.9	2.5	2.9	5.7	— 6.6	2.3	25	0	6	2	0	0	0	0
Alexandria (A)	2.5	3.2	3.7	2.6	3.0	4.1	— 8.3	1.9	25	2	4	2	0	0	0	0
Port Said (A)	1.2	1.9	2.4	1.7	1.9	14.8	+ 7.1	5.9	21	0	5	3	1	0	0	0
El Arish	3.0	3.3	3.6	3.5	2.4	17.2	+ 5.2	9.8	21	1	4	3	1	0	0	0
Ghazza	3.0	3.8	3.6	2.3	2.4	59.3	+27.0	48.8	22	0	6	3	2	1	1	0
Tanta	—	1.9	2.7	1.0	—	7.5	+ 3.3	4.3	26	0	5	2	0	0	0	0
Cairo (A)	1.6	2.5	2.8	1.1	2.1	0.9	— 0.8	0.7	22	0	2	0	0	0	0	0
Fayoum	—	0.6	1.5	0.6	—	Tr.	— 1.4	Tr.	22	1	0	0	0	0	0	0
Minya (A)	0.8	1.3	1.9	1.4	1.5	Tr.	— 0.3	Tr.	21	1	0	0	0	0	0	0
Assyout (A)	0.9	1.2	1.4	1.0	1.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	1.4	2.0	1.7	1.7	1.7	Tr.	0.0	Tr.	18	1	0	0	0	0	0	0
Aswan (A)	1.8	2.3	1.9	1.9	1.9	Tr.	0.0	Tr.	19·20·21	3	0	0	0	0	0	0
Siwa	1.2	1.2	2.6	1.2	1.4	1.3	+ 1.1	1.3	29	0	1	1	0	0	0	0
Bahariya	0.4	0.9	1.5	0.3	0.9	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Farafra	—	1.4	1.3	1.2	—	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Dakhla	0.8	1.2	1.2	1.1	1.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	1.5	1.4	1.4	1.2	1,5	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	1.2	1.1	2.2	1.8	1.7	0.0	— 1.2	0.0	—	0	0	0	0	0	0	0
Hurghada	1.2	1.7	2.2	1.8	1.9	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Quseir	1.6	2.7	2.0	2.0	2.1	Tr.	— 0.3	Tr.	17·18	2	0	0	0	0	0	0

TABLE A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

MARCH 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice, Pellets	Hail											
Sallum	6	0	0	0	0	0	0	0	3	0	9	0	0	5	3
Mersa Matruh (A)	7	0	0	0	0	2	3	1	0	0	2	0	0	11	1
Alexandria (A)	5	0	0	0	0	1	5	0	0	0	3	0	0	9	0
Port Said (A)	5	0	0	0	0	1	1	0	0	0	1	0	1	18	0
El Arish	4	0	0	0	0	4	5	0	4	0	5	0	0	6	4
Ghazza	6	0	0	0	0	2	0	2	2	0	1	0	0	9	5
Tanta	5	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo (A)	2	0	0	0	0	0	4	0	12	0	5	0	0	17	1
Fayoum	1	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	2	0	1	0	2	0	0	23	0
Assyout (A)	0	0	0	0	0	0	0	0	13	0	8	0	0	24	0
Luxor (A)	0	0	0	0	0	0	0	0	15	0	6	0	0	21	2
Aswan (A)	0	0	0	0	0	0	0	0	4	0	10	0	0	20	4
Siwa	1	0	0	0	0	0	0	0	3	0	6	0	0	23	0
Bahariya	0	0	0	0	0	0	0	0	0	0	3	0	0	26	0
Farafra	0	0	0	0	0	0	0	0	5	0	5	2	0	21	0
Dakhla	0	0	0	0	0	0	0	0	4	0	2	0	0	27	1
Kharga	0	0	0	0	0	0	0	0	0	0	8	0	0	24	1
Tor	0	0	0	0	0	0	0	0	1	0	1	0	1	19	0
Hurghada	0	0	0	0	0	0	0	1	1	0	3	1	1	19	2
Quseir	0	0	0	0	0	0	0	1	3	0	3	0	0	18	3

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MARCH — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sallum	55	0	0	1—10	27	57	40	30	18	11	6	12	16	29	56	52	354
				11—27	8	7	36	19	7	0	1	27	31	76	96	25	333
				28—47	0	0	0	0	0	0	0	0	0	0	0	2	2
				≥28	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**35**	**64**	**76**	**49**	**25**	**11**	**7**	**39**	**47**	**105**	**152**	**79**	**689**
Mersa Matruh (A)	15	0	0	1—10	11	15	13	4	17	31	8	8	21	27	20	11	186
				11—27	51	43	26	51	40	33	29	35	28	50	48	107	541
				28—47	0	0	1	0	0	0	0	1	0	0	0	0	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**62**	**58**	**40**	**55**	**57**	**64**	**37**	**44**	**49**	**77**	**68**	**118**	**729**
Alexandria (A)	22	0	0	1—10	43	32	43	31	47	40	19	23	15	26	54	27	400
				11—27	17	28	52	14	4	0	5	6	10	72	71	42	321
				28—47	0	0	0	0	0	0	0	0	0	1	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**60**	**60**	**95**	**45**	**51**	**40**	**24**	**29**	**25**	**99**	**125**	**69**	**722**
Port Said (A)	0	0	0	1—10	38	27	40	47	26	24	13	9	25	15	7	34	305
				11—27	34	88	54	28	11	8	10	10	55	42	48	50	438
				28—47	0	0	0	0	0	0	0	0	0	1	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**72**	**115**	**94**	**75**	**37**	**32**	**23**	**19**	**80**	**58**	**55**	**84**	**744**
El Arish	7	15	0	1—10	84	86	30	27	55	111	34	38	76	12	51	50	654
				11—27	3	8	0	0	0	0	2	0	18	12	21	3	67
				28—47	0	0	0	0	0	0	0	0	0	0	0	1	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**87**	**94**	**30**	**27**	**55**	**111**	**36**	**38**	**94**	**24**	**72**	**54**	**722**
Ghazza	0	64	0	1—10	43	39	40	39	51	83	52	13	18	34	32	30	474
				11—27	33	25	1	0	4	30	1	12	30	38	14	18	206
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**76**	**64**	**41**	**39**	**55**	**113**	**53**	**25**	**48**	**72**	**46**	**48**	**680**
Tanta	17	21	0	1—10	43	58	61	79	59	15	25	41	92	67	65	57	662
				11—27	4	10	9	0	0	1	1	1	6	8	2	2	44
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**47**	**68**	**70**	**79**	**59**	**16**	**26**	**42**	**98**	**75**	**67**	**59**	**706**
Cairo (A)	20	4	0	1—10	29	54	56	49	29	14	8	21	30	41	41	53	425
				11—27	13	37	50	25	14	7	18	22	29	31	32	17	295
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**42**	**91**	**106**	**74**	**43**	**21**	**26**	**43**	**59**	**72**	**73**	**70**	**720**
Fayoum	25	5	0	1—10	258	63	15	8	4	19	50	49	54	71	56	51	698
				11—27	6	2	0	0	0	0	0	0	6	0	0	2	16
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**264**	**65**	**15**	**8**	**4**	**19**	**50**	**49**	**60**	**71**	**56**	**53**	**714**

Table A 5. (*contd.*)—**NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

MARCH — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Minya . . . (A)	65	31	0	1—10	73	21	1	5	16	50	40	20	11	40	60	103	440
				11—27	121	9	0	0	0	0	0	0	1	17	36	24	208
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**194**	**30**	**1**	**5**	**16**	**50**	**40**	**20**	**12**	**57**	**96**	**127**	**648**
Assyout . . . (A)	15	0	0	1—10	2	11	32	30	29	17	8	17	79	189	101	48	563
				11—27	1	0	1	1	0	2	4	0	9	32	72	44	166
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**3**	**11**	**33**	**31**	**29**	**19**	**12**	**17**	**88**	**221**	**173**	**92**	**729**
Luxor . . . (A)	4	0	0	1—10	33	91	80	37	30	29	66	38	33	27	45	151	660
				11—27	7	5	1	4	3	1	0	0	2	1	15	41	80
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**40**	**96**	**81**	**41**	**33**	**30**	**66**	**38**	**35**	**28**	**60**	**192**	**740**
Aswan . . . (A)	16	40	0	1—10	230	139	26	21	35	6	14	4	2	0	4	23	504
				11—27	148	10	0	0	5	0	0	0	1	8	1	11	184
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**378**	**149**	**26**	**21**	**40**	**6**	**14**	**4**	**3**	**8**	**5**	**34**	**688**
Siwa.	20	1	0	1—10	17	27	31	37	57	33	15	16	32	72	63	39	439
				11—27	3	9	14	19	49	14	18	6	3	62	66	21	284
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**20**	**36**	**45**	**56**	**106**	**47**	**33**	**22**	**35**	**134**	**129**	**60**	**723**
Dakhla	0	0	0	1—10	103	63	29	41	29	24	35	51	28	56	100	153	712
				11—27	13	7	0	0	0	0	0	0	0	0	6	6	32
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**116**	**70**	**29**	**41**	**29**	**24**	**35**	**51**	**28**	**56**	**106**	**159**	**744**
Tor	0	0	0	1—10	75	27	11	13	14	19	12	15	62	33	33	80	394
				11—27	0	9	0	1	23	5	0	1	128	143	38	3	342
				28—47	0	0	0	0	0	0	0	0	2	6	0	0	8
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**75**	**27**	**11**	**14**	**37**	**24**	**12**	**16**	**192**	**182**	**71**	**83**	**744**
Hurghada	18	10	0	1—10	23	16	13	20	26	34	10	7	12	17	78	12	268
				11—27	72	26	1	1	4	10	4	0	3	25	114	160	420
				28—47	0	0	0	0	0	0	0	0	0	0	0	28	28
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**95**	**42**	**14**	**21**	**30**	**44**	**14**	**7**	**15**	**42**	**192**	**200**	**716**
Quseir	77	0	0	1—10	37	33	31	17	15	16	2	8	26	85	100	43	413
				11—27	21	2	1	0	0	0	0	1	4	17	90	114	350
				28—47	0	0	0	0	0	0	0	0	0	0	0	4	4
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**58**	**35**	**32**	**17**	**15**	**16**	**2**	**9**	**30**	**102**	**190**	**161**	**667**

TABLE B 1.—UPPER AIR CLIMATOLOGICAL DATA

MARCH — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	31	1016m.b.*	1026m.b.*	1009m.b.*	31	12.8	16.2	8.2	31	9.3
	1000	31	163	242	104	31	13.7	19.0	10.0	31	8.3
	850	31	1521	1573	1453	31	7.7	20.1	— 3.9	22	— 2.5
	700	31	3097	3179	2989	31	— 1.1	6.9	— 8.9	20	—11.6
	600	31	4308	4421	4169	31	— 9.6	— 2.8	—16.4	17	—18.8
	500	31	5694	5833	5517	31	—19.5	—12.2	—27.0	11	—26.6
	400	31	7314	7491	7087	31	—31.9	—26.1	—39.5	7	—37.4
	300	29	9291	9501	8991	29	—46.0	—41.3	—49.9	—	—
	200	27	11938	12128	11756	27	—54.1	—46.1	—63.5	—	—
	150	18	13745	13960	13614	18	—58.0	—52.0	—62.7	—	—
	100	11	16252	16358	16199	11	—64.3	—58.5	—69.5	—	—
	70	7	18434	18500	18346	7	—62.1	—58.0	—67.1	—	—
	60	5	19430	19475	19355	5	—59.0	—55.3	—63.4	—	—
	50	4	20578	20633	20500	4	—57.2	—56.0	—59.2	—	—
	40	2	22076	22104	22084	2	—56.2	—54.8	—57.6	—	—
	30	1	23857	—	—	1	—59.9	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T	Surface	30	998m.b.*	1006m.b.*	992m.b.*	30	14.5	23.4	9.9	30	4.0
	1000	30	129	190	76	11	13.0	17.1	9.6	11	5.2
	850	30	1497	1545	1451	30	11.0	23.0	— 0.6	23	— 4.5
	700	30	3085	3173	3008	30	1.4	7.9	— 6.5	15	—13.3
	600	30	4307	4418	4210	30	— 6.7	0.2	—13.6	10	—19.7
	500	30	5704	5833	5566	30	—16.6	—11.1	—23.6	4	—25.4
	400	30	7340	7494	7160	30	—29.3	—24.7	—35.9	7	—39.2
	300	30	9338	9514	9125	30	—42.8	—37.8	—48.5	—	—
	200	30	11995	12163	11777	30	—54.1	—48.7	—63.4	—	—
	150	30	13812	13997	13577	30	—60.4	—53.9	—66.0	—	—
	100	30	16292	16463	16077	30	—67.6	—58.8	—73.9	—	—
	70	28	18445	18570	18190	28	—66.0	—58.8	—73.6	—	—
	60	26	19384	19494	19119	26	—64.7	—59.2	—74.0	—	—
	50	25	20509	20637	20226	25	—60.7	—55.3	—64.4	—	—
	40	16	21922	22049	21822	16	—57.7	—55.4	—60.6	—	—
	30	13	23766	23894	23645	13	—54.6	—52.0	—56.7	—	—
	20	11	26380	26515	26230	11	—52.1	—50.1	—55.4	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	29	990m.b.*	995m.b.*	986m.b.*	29	18.5	25.0	12.0	29	1.9
	1000	29	112	151	78	—	—	—	—	—	—
	850	29	1505	1523	1475	29	16.3	22.8	6.2	18	— 3.4
	700	29	3124	3159	3075	29	5.6	11.5	0.9	10	— 7.5
	600	29	4371	4405	4304	29	— 1.8	3.3	— 7.0	8	—10.1
	500	29	5799	5876	5710	29	—11.2	— 7.9	—15.6	9	—18.2
	400	29	7474	7563	7387	29	—23.5	—20.7	—26.7	10	—27.4
	300	29	9518	9627	9420	29	—37.7	—30.7	—43.0	10	—39.8
	200	29	12219	12467	12098	29	—53.9	—48.7	—59.1	—	—
	150	28	14026	14260	13914	28	—64.2	—58.2	—67.9	—	—
	100	24	16439	16586	16351	24	—75.0	—68.3	—78.3	—	—
	70	20	18508	18680	18358	20	—71.9	—66.7	—77.6	—	—
	60	17	19433	19593	19287	17	—69.9	—63.5	—74.2	—	—
	50	17	20530	20688	20363	17	—65.6	—62.5	—72.0	—	—
	40	14	21924	22071	21795	14	—59.0	—56.6	—60.3	—	—
	30	14	23748	23901	23616	14	—54.2	—52.7	—57.5	—	—
	20	8	26359	26419	26242	8	—52.8	—48.2	—56.7	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 1 (*contd.*).—UPPER AIR CLIMATOLOGICAL DATA

MARCH — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	31	*1016m.b.	*1026m.b.	*1006m.b.	31	19.0	26.0	14.0	31	10.3
	1000	31	163	244	89	31	17.4	24.5	11.2	30	8.6
	850	31	1526	1579	1448	31	8.0	18.1	0.8	23	— 2.1
	700	31	3100	3204	3014	31	— 0.8	6.3	— 7.9	15	—13.8
	600	31	4317	4444	4196	31	— 8.8	— 1.9	—17.1	16	—19.0
	500	31	5703	5854	5546	31	—18.7	— 9.7	—27.3	12	—25.5
	400	31	7326	7508	7118	31	—31.3	—25.4	—39.9	5	—36.4
	300	30	9307	9537	9037	30	—45.4	—40.3	—50.7	—	—
	200	29	11948	12196	11697	29	—53.6	—47.3	—62.5	—	—
	150	25	13791	14043	13564	25	—58.4	—52.1	—67.7	—	—
	100	13	16322	16499	16133	13	—63.3	—57.4	—72.2	—	—
	70	8	18503	18750	18370	8	—62.6	—57.6	—68.0	—	—
	60	6	19506	19696	19338	6	—59.4	—56.3	—61.8	—	—
	50	6	20632	20840	20475	6	—55.8	—54.8	—58.6	—	—
	40	5	22065	22287	21894	5	—53.1	—51.9	—54.6	—	—
	30	4	23872	23950	23739	4	—50.8	—48.8	—53.7	—	—
	20	3	26512	26636	26351	3	—47.7	—44.0	—52.0	—	—
	10	1	30949	—	—	1	—41.4	—	—	—	—
Helwan 1200 U.T.	Surface	31	*998m.b.	*1005m.b.	*994m.b.	31	24.4	33.6	19.4	31	1.2
	1000	31	125	183	60	10	21.2	25.4	17.9	9	2.9
	850	31	1506	1557	1445	31	11.2	21.1	4.2	22	— 3.5
	700	31	3098	3186	3030	31	1.4	8.2	— 6.9	17	—13.6
	600	31	4320	4428	4182	31	— 6.4	— 1.0	—15.3	13	—21.6
	500	31	5721	5823	5538	31	—16.2	—10.6	—24.2	9	—28.3
	400	31	7360	7526	7123	31	—28.4	—23.2	—34.7	3	—39.6
	300	31	9362	9553	9060	31	—42.2	—37.8	—46.5	2	—41.6
	200	30	12025	12202	11773	30	—53.5	—46.5	—64.0	—	—
	150	29	13853	14024	13663	29	—59.7	—52.2	—67.0	—	—
	100	27	16341	16512	16222	27	—66.9	—59.0	—77.0	—	—
	70	23	18515	18650	18410	23	—65.0	—59.6	—72.5	—	—
	60	21	19461	19611	19345	21	—62.9	—57.5	—67.7	—	—
	50	20	20592	20740	20449	20	—59.0	—52.0	—64.7	—	—
	40	16	22007	22119	21869	16	55.6	—50.3	—63.2	—	—
	30	13	23848	23974	23702	13	—53.5	—47.9	—60.4	—	—
	20	2	26523	26564	26482	2	—49.8	—49.4	—50.2	—	—
	10	—	—	—	—	—	—	—	—		—
Aswan 1200 U.T.	Surface	30	*990m.b.	*995m.b.	*985m.b.	30	29.9	38.0	22.3	30	1.7
	1000	30	104	149	66	—	—	—	—	—	—
	850	30	1520	1554	1479	30	17.6	26.0	8.6	19	— 4.3
	700	30	3148	3213	3078	30	7.5	13.4	1.6	8	— 6.2
	600	30	4399	4487	4301	30	— 0.8	5.7	— 5.9	9	—11.3
	500	30	5830	5947	5702	30	—10.2	— 4.8	—15.2	7	—15.7
	400	30	7509	7633	7313	30	—22.1	—17.5	—26.8	7	—26.0
	300	30	9565	9713	9328	30	—36.2	—31.2	—41.8	4	—39.2
	200	30	12979	12457	12007	30	—53.5	—47.9	—55.9	—	—
	150	29	14100	14293	13845	29	—62.8	—56.8	—67.9	—	—
	100	25	16547	16720	16375	25	—71.8	—64.0	—77.5	—	—
	70	24	18659	18830	18530	24	—71.0	—63.6	—76.8	—	—
	60	20	19570	19775	19438	20	—65.7	—62.5	—70.0	—	—
	50	19	20699	20903	20530	19	—59.8	—55.1	—66.4	—	—
	40	8	22144	22314	22026	8	—54.0	—51.5	—55.7	—	—
	30	6	24011	24184	23882	6	—49.0	—44.6	—51.2	—	—
	20	4	26667	26803	26534	4	—44.2	—40.0	—48.5	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE ; THE HIGHEST WIND SPEED IN THE UPPER AIR

MARCH — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh	2731 (31)	736 (31)	-7.8 (24)	4000	628	—	1250	884	-2.7	11035 (25)	236 (25)	-55.6 (25)	16221	100	-67.8	8070	344	-49.7	—	—	—	—
	Helwan	3136 (30)	698 (30)	-13.2 (18)	4440	597	—	1380	862	-3.0	12801 (30)	186 (30)	-60.6 (30)	16670	95	-69.6	9280	294	-47.7	10530	253	240	158
	Aswan	4145 (29)	626 (29)	-10.4 (10)	5390	666	—	3200	690	-12.2	16547 (21)	96 (21)	-77.3 (21)	18070	77	-75.2	15690	113	-76.4	10090	275	230	140
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh	2819 (31)	728 (31)	-10.3 (22)	3950	637	-13.4	1760	828	-12.5	10486 (27)	254 (27)	-52.9 (27)	14979	125	-64.7	7153	400	-39.9	12000	195	236	148
	Helwan	3288 (31)	685 (31)	-12.2 (18)	4200	613	—	2100	783	-3.7	12739 (29)	196 (28)	-60.1 (28)	16760	94	-67.2	8100	345	-45.7	10890	239	250	145
	Aswan	4302 (30)	607 (30)	-9.3 (8)	5290	542	—	3380	675	—	16769 (25)	97 (25)	-73.1 (25)	18230	75	-74.8	15300	121	-69.6	11340	233	240	145

N = The number of cases the element has been observed during the month

TABLE B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A)—MARCH 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000 -360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	2	18	1	4	1	5	2	10	2	4	3	11	2	8	3	15	2	12	8	8	2	16	2	16	1	31	10
	1000	0	—	2	10	1	14	0	—	1	9	2	10	1	9	0	—	1	5	3	14	5	12	2	11	0	18	11
	850	0	—	0	—	1	17	0	—	0	—	0	—	0	—	2	17	2	23	3	23	1	27	1	32	0	10	22
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	11	1	14	0	2	12
	600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	3	8	4	9	4	12	2	14	0	—	1	12	1	12	0	—	3	20	1	22	8	17	4	14	0	31	14
	1000	5	11	2	10	1	7	3	17	1	9	1	12	1	14	1	19	2	20	1	22	9	20	2	17	0	29	16
	850	1	20	1	14	1	9	1	11	0	—	0	—	1	14	3	21	7	22	5	17	6	19	1	24	0	27	19
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	17	1	16	7	35	9	28	6	24	1	4	0	25	27
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	9	38	4	39	5	31	2	31	0	22	34
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	37	5	51	5	31	0	—	0	20	39
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	60	6	45	4	44	0	—	0	17	51
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	79	4	51	2	46	0	—	0	11	63
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	104	3	53	1	63	0	—	0	7	76
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	56	2	58	0	—	0	—	0	3	57
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	50	0	—	0	—	0	—	0	1	50
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been obeserved for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

HELWAN—MARCH 1965

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000–360)°																								Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	2	8	2	4	11	9	2	8	2	4	0	—	0	—	0	—	1	6	0	—	2	12	2	6	6	30	6
	1000	3	15	3	13	3	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	13	0	—	1	11	13
	850	2	6	2	22	1	13	1	11	0	—	0	—	1	12	2	20	7	13	5	25	9	19	0	—	0	30	17
	700	0	—	0	—	1	10	0	—	0	—	1	7	0	—	5	24	8	26	5	32	9	20	1	13	0	30	23
	600	1	10	0	—	0	—	0	—	0	—	0	—	0	—	1	24	11	37	8	33	6	31	3	25	0	30	32
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	61	9	34	15	42	3	41	2	20	0	30	42
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	65	18	50	3	56	1	26	0	28	53
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	87	13	74	2	44	2	60	0	25	75
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	79	5	101	1	79	0	10	90
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	58	2	60	2	78	0	7	64
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	65	1	30	1	24	0	4	46
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	35	0	—	0	1	35
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	59	0	—	0	—	0	1	59
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	5	9	2	12	3	12	0	—	0	—	0	—	2	18	3	10	4	10	5	7	3	1	3	11	1	31	9
	1000	3	11	3	23	2	12	0	—	0	—	0	—	0	—	0	—	0	—	1	3	0	—	1	14	0	10	14
	850	0	—	3	17	3	12	1	14	0	—	0	—	2	14	4	14	6	61	6	17	3	19	3	14	0	31	17
	700	0	—	1	10	0	—	0	—	1	10	0	—	0	—	4	26	8	22	8	28	5	21	3	17	0	30	23
	600	0	—	0	—	0	—	0	—	0	—	1	14	0	—	0	—	11	31	8	37	7	26	1	11	0	31	30
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	26	9	48	10	44	10	34	0	—	0	31	41
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	73	14	56	7	38	0	—	0	30	57
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	78	10	66	6	58	1	44	0	20	64
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	69	5	68	4	73	1	52	0	11	68
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	74	2	94	2	66	0	6	78
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	53	0	—	0	2	53
	70	0	—	1	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	11
	60	0	—	1	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	15
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	8	0	—	0	1	8
	40	0	—	0	—	0	—	0	—	1	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	16
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 *(contd.)*—**NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.**

ASWAN (A)— MARCH 1965

Time	Pressure Surface (Millibar)	Wint between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	15	10	3	12	1	6	2	10	2	6	0	—	0	—	0	—	0	—	1	12	0	—	4	9	1	29	10
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	3	15	7	11	5	10	0	—	1	3	1	8	0	—	0	—	2	12	3	11	6	10	0	28	11
	700	0	—	1	6	2	3	0	—	2	8	1	7	2	7	3	13	3	24	7	19	5	21	3	12	0	29	15
	600	1	8	0	—	1	9	1	9	0	—	1	2	0	—	2	24	9	28	9	23	4	21	1	12	0	29	22
	500	1	6	0	—	0	—	0	—	0	—	0	—	0	—	1	27	10	42	14	32	3	16	0	—	0	29	33
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	90	16	54	7	38	3	28	2	18	0	29	46
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	95	9	80	9	60	5	30	2	42	0	27	62
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	105	6	78	4	64	1	46	0	20	86
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	78	3	47	0	—	0	4	55
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	20	10	1	8	0	—	3	7	1	6	0	—	0	—	1	4	0	—	0	—	3	13	1	15	1	31	10
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	2	10	2	15	2	9	3	11	3	13	0	—	0	—	0	—	2	11	1	20	9	10	5	9	0	29	11
	700	0	—	0	—	2	6	1	4	2	14	2	8	1	9	2	32	8	22	4	12	5	20	2	12	0	29	17
	600	2	8	1	1	1	5	0	—	0	—	1	8	0	—	4	24	7	34	11	32	0	—	2	11	0	29	25
	500	0	—	1	4	0	—	0	—	0	—	0	—	0	—	3	51	8	54	12	32	3	27	2	10	0	29	37
	400	1	21	0	—	0	—	0	—	0	—	0	—	0	—	1	74	14	62	11	36	0	—	2	20	0	29	48
	300	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	13	84	9	68	5	29	0	—	0	28	64
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	90	8	82	5	48	0	—	0	19	76
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	68	7	68	0	—	0	—	0	9	68
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

1 = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATION AT EL KASR

MARCH 1965

This month was slightly warmer and more humid than normal. Compared with the corresponding values of March 1964, mean daily air temperature at 2 metres height above ground, mean daily relative humidity and total rainfall were lower by 0.5 °C, 4% and 9 mms respectively. A pronounced heat wave occurred in the first week of the month with the peak on the 6th., on which occurred the extreme maximum air temperature, the extreme minimum relative humidity and vapour pressure and also the extreme maximum soil temperatures down to 10 cms. depth.

The extreme maximum soil temperatures from the surface down to 2 cms depth were higher than the corresponding values for March 1964; the maximum deviation was 2.8°C at 1 cm. depth. At deeper layers the values were lower than the corresponding values for last March with a maximum deviation of —1.8°C at 20 cms depth. The extreme minimum soil temperatures were lower than the corresponding values for March 1964 with a maximum deviation of —1.8°C at 0.3 cm depth.

Mean daily wind speed at 2 metres height was 0.2 m/sec lower than the corresponding value of March 1964. Mean daily Class "A" pan evaporation was 0.33 mm higher than the corresponding value of last March. Total actual duration of bright sunshine was higher by 15.7 hours than the corresponding value of March 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT TAHRIR

MARCH 1965

This month was slightly warmer and drier as compared with mean values of air temperature and relative humidity of March 1964. Compared with the corresponding values of March 1964, mean daily air temperature at 2 metres height above ground was 0.1°C higher, relative humidity was 5% lower and total rainfall was 0.2 mm. lower. Four heat waves occurred. The first was the most intense with its peak on the 6th on which occurred the extreme maximum air temperature, the extreme minimum relative humidity and vapour pressure and the highest evaporation. The other secondary waves were short staying and had their peaks on 17th, 21st and 25th.

The deviations in soil temperature extremes from the corresponding values of March 1964 were trivial. The deviations in the extreme maxima down to 5 cms depth were less than 1°C positive or negative. The deviations of the extreme maxima at depths larger than 5 cms and the deviations of the extreme minimum soil temperatures were positive but not exceeding 1.2°C.

Mean daily wind speed at 2 metres height was 0.3 m/sec. lower than the corresponding value of March 1964. Mean daily piche and class "A" pan evaporation were higher than the corresponding values of last March by 0.8 and 0.19 mm respectively. Total actual duration of bright sunshine was higher by 26.6 hours or 7% of the possible duration than the corresponding value of March 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT GIZA

MARCH 1965

This month was slightly warmer and drier than normal. The daily mean air temperature at 2 metres above ground was above normal (0.6). The daily mean relative humidity and the total rainfall were both below normal (-4%) and (-0.9 mm) respectively.

A heat wave was distinguished from the 3rd to 9th giving the absolute maximum air temperature on 6th (11°C above normal) together with the highest daily mean and day time mean of air temperature at 2 metres above the ground.

The minimum air temperature at 5 cms above grass (Libia) fell below 0.°C on only one day (3rd) ; its duration, to the nearest half hour below the zero level was 2.5 hours, that below the 1°C level was one hour.

The extreme maximum soil temperatures down to 100 cms depth in the dry field were higher than the corresponding values of last March, the maximum difference was 3.8°C at 2 cms depth of dry field. The extreme minimum temperatures varied slightly from those of last year, the maximum differences were-0.8°C and + 0.5°C at 2 and 20 cms depths respectively.

The daily mean wind speed at 2 metres above ground was slightly lower (-0.2 m/sec.) than the corresponding value of last March.

The daily mean values of Piche evaporation, potential evaporation and potential evapotranspiration were higher than those of last year, by 0.8, 0.6 and 0.5 mms. respectively, while the daily pan class "A" evaporation was lower by 0.72 mm than that of March 1964. The total actual duration of bright sunshine was 28.9 hours higher than the corresponding value of March 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA

MARCH 1965

The month was warmer and drier than normal. The mean daily air temperature at 2 metres above ground was 2.4°C above normal while the mean daily relative humidity was 13% below normal. The month was characterized by two heat waves and two cold spells. The first heat wave was the most intense and occurred between the 3rd and the 10th with the peak on the 6th on which the extreme maximum air temperature (38.6°C) occurred. while the extreme minimum relative humidity (7%) occurred on the 4th. The second heat wave occurred in the period (16th.—17th.). The cold spells occurred in the periods (12th.—14th.) and (22nd.—23rd.).

The extreme maximum soil temperatures were higher than the corresponding values for March 1964; the maximum deviation was + 1.7°C at 5 cms depth. The extreme minimum soil temperatures at 1, 2 and 5 cms.depths were lower than the corresponding values for March 1964 while at deeper layers the values were higher; the maximum deviations were -3.8°C and + 0.9°C respectively.

Mean daily wind speed at 2 metres height was 0.5 m/sec. higher than the corresponding value of March 1964. Mean daily Class "A" pan evaporation was 0.99 mm higher than the corresponding value of last March. Total Actual duration of bright sunshine was 22.3 hours lower than the corresponding value of March 1964.

TABLE C 1.— AIR TEMPERATURE AT 2 METRES ABOVE GROUND

MARCH — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values.										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	21.2	10.6	15.5	13.4	17.6	24.0	24.0	24.0	22.3	11.4	1.6	0.4	0.1	0.0	0.0	0.0
Tahrir	25.3	10.0	16.9	13 9	19.9	24.0	24.0	24.0	22.3	13.7	6.9	2.1	0.5	0.1	0.0	0.0
Giza	25.5	10.2	17.6	14.8	20.4	24.0	24.0	24.0	21.9	16 0	8.0	2.4	0.6	0.0	0.0	0.0
Kharga	29.9	12.4	21.6	18.5	24.6	24.0	24.0	24.0	23.6	19.9	13.4	6.5	2 1	0.8	0.0	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS.

MARCH — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	34 0	6	15.5	12	13.9	16	6.3	2	4.3	2	—	—
Tahrir	37.5	6	18.4	13	15.4	9	6.2	14	4.6	14	—	—
Giza	34.6	6	19.3	1	18.1	9	6.3	15	2.5	3	—1.3	2
Kharga	38.6	6	23.0	13	19.1	8	7.3	24	5.8	24	—	—

TABLE C 3.—(SOLAR +SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL.

MARCH — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity. %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount Monthly	Max. Fall in one day	Date
El Kasr	425.0	291.3	371.6	78	—	—	73	56	10	6	9 1	9.2	13.7	5	3.7	6	11.6	6.63	9.1	4.0	22
Tahrir	535.4	300.4	371.9	81	2.9	6 7	61	32	4	6	8.1	6.7	12.6	4	2.0	6	12.5	7.22	0.4	0.4	22
Giza	512.5	296.1	371.8	80	0.8	4.4	56	31	13	5.6	7.7	6.8	12.5	7.8	3.0	3	12.1	6 48	1.4	1.3	22
Kharga	538.3	315.0	373.0	84	0.0	0.0	27	17	9	9	4.8	5.0	6 6	11	3.8	4,16–17	25.6	12.42	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS IN DIFFERENT FIELDS

MARCH — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr . . .	H	38.0	34.2	32.8	27.8	24.4	20.2	18.6	18.4	18.8	—	—	—	—	—	—	—	—	—	—	—
	L	5.2	6.4	7.0	8.8	10.9	13.8	15.8	16.3	18.1	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	43.2	41.5	37.3	33.1	30.1	25.8	22.3	21.2	20.8	21.1	—	—	—	—	—	—	—	—	—	—
	L	7.3	7.6	8.6	11.1	13.0	15.4	17.8	18.5	19.3	20.5	—	—	—	—	—	—	—	—	—	—
Giza	H	55.3	51.6	50.0	31.6	27.0	23.8	22.8	22.2	22.3	23.6	29.3	24.0	22.4	21.4	19.8	18.8	18.6	18.5	19.4	—
	L	3.8	4.9	5.4	12.3	16.0	19.0	19.8	20.2	22.0	23.2	8.7	11.0	11.2	12.0	14.4	15.7	16.6	16.8	19.0	—
Kharga. . . .	H	53.0	46.4	43.6	38.6	32.0	27.6	25.6	24.8	25.1	26.5	—	—	—	—	—	—	—	—	—	—
	L	7.5	9.2	10.0	13.1	17.4	20.1	22.1	22.6	24.6	26.0	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

MARCH — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time Mean	≥10 knots	≥15 knots	≥20 knot	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value (knots)	Date
El Kasr. . .	4.4	3.6	5.6	—	—	—	—	—	—	—	—	—
Tahrir. . . .	3.2	2.4	4.4	31	26	12	3	2	0	0	37	23
Giza	2.5	1.9	3.2	31	19	1	0	0	0	0	33	26
Kharga.. . .	3.8	3.0	4.6	—	—	—	—	—	—	—	—	—

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MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 4

APRIL, 1965

U.D.C. 551. 506.1 (62)

MINISTRY OF SCIENTIFIC RESEARCH—METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties as the National Meteorological Service for the U.A.R., the Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for pbulication should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh—CAIRO".

THE DAILY WEATHER REPORT

This report is printed daily in the Meteorological Department. It contains surface and upper air observation carried by the relevant networks of the Republic and made at the four main synoptic hours of observation (00, 06, 12 and 18 U.T.) ; as well as ship observations over the Eastern Mediterranean and north Red Sea made at the same times.

It also contains two surface synoptic charts at 00 and 12 U.T. and two upper air charts for the standard isobaric surfaces 700 & 500 mbs. at both 00 and 12 U.T.

In compliance with resolution 8 (EC-XIII) of WMO, foreign upper air data included in Cairo Subregional Broadcast are also given in this report.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviation from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

The normals, long averages and statistical data are given in one edition for stations in Egypt from the date of opening of each station up to 1945. A new voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

UNITED ARAB REPUBLIC

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GENERAL SUMMRAY OF WEATHER CONDITIONS

APRIL 1965

Changeable, intervened by four khamsin heat waves. Abnormal rainfall. Scattered thundery cells along the Mediterranean coast.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was changeable, characterized by four khamsin heat waves of short durations, separated by rather cold waves of domerate durations (3—5 days.) Rain fell in few days during the cold intervals and was confined to the northern parts; but it extended inland southwards as far as Cairo on the 2nd, 3rd 18th & 24th. Daily rain was light/moderate in general, though it was heavy in particular at El Arish on the 2nd & Port Said on the 18th. Rain was associated with thunderstorms over scattered localities of the Mediterranean district. Monthly rain exceeded slightly its normal in the Mediterranean, Lower Egypt & Cairo area districts ; elsewhere it was rather normal.

Break down of the heat waves was associated with rising sand and few sandstorms over scattered localities of the Republic.

PRESSURE DISTRIBUTION

This month started with the following pressure distributions : —

— The Atlantic Anticyclonic ridge over West Europe.

— A low pressure system north of the Caspian Sea extending southwestwards towards East Mediterranean area.

— A complex system of desert depressions over northwest Africa.

During the first week, the Atlantic Anticyclone extended coutheastwards over North Africa through Spain and the barometric pressure over East Mediterranean and the adjacent areas was accordingly abnormal and attained its maximum value for the whole month round the 6th (8 mbs above normal).

In the mean time a complex system of desert depressions was evident south of the Atlas Mountains together with a deep upper trough over western Europe and Spain. The low pressure system was almost stationary till the 4th while gradually deepening, then started to move slowly eastwards with no appreciable change in intensity and reached Central Mediterranean on the 9th where it was delayed till the 10th, then it proceeded eastwards and crossed East Mediterranean on the 11th.

On the 12th, a second shallow secondary Mediterranean depression developed over Central Mediterranean, slightly deepened and on the 15th it moved rapidly eastwards and traversed East Mediterranean on the 17th.

On the 18th, a third deep low pressure system of vertical structure developed over Italy, it deepened appreciably while keeping stationary till the 21st., then it proceeded northeastwards. To its southern parts a secondary low was attached and traversed East Mediterranean round the 24th.

On the 24th, a fourth low pressure system developed over Central Mediterranean. It proceeded SE wards while slightly deepening and traversed East Mediterranean on the 27th.

The Mediterranean low pressure systems of this month were associated with upper troughs extending aloft more than 200 mbs. level.

The barometric pressure over East Mediterranean and the adjacent areas attained four marked minima associated with the transits of the above mentioned depressions, i.e. round the 11th, 17th, 24th & 27th. The most marked one was that of the 24th in which the surface pressure was about 12 mbs. below normal.

The subtropical jet steam appeared over the U.A.R. during the whole month at about 190 mb. level.

The highest wind speeds recorded at Mersa Matruh, Helwan & Aswan were 159, 150 & 172 knots on the 27th, 27th & 6th respectively.

SURFACE WIND

The prevailing winds were NWly & Nly light/moderate in general, fresh/strong occasionally over scattered localities particularly the Mediterranean (western part), Lower Egypt (Canal Zone) districts and the southern parts of the Republic. As an exception moderate/fresh Sly & SWly winds blew in advance of travelling khamsin disturbances through the country. Calms were frequent night & early morning intervals in scattered localities.

Gales were reported at : Sidi Barrani on the 22nd; Mersa Matruh on the 18th & 26th; Dabaa on the 16th & 18th; Ras El Teen on the 3rd & 18th; Balteam & Port Said on the 3rd; Mansoura, Abu Sueir & Fayed on the 18th ; Kabrit on the 24th; Kharga on the 27th and at Hurghada on the 28th & 29th.

TEMPERATURE

Four khamsin disturbances were experienced and variability in maximum temperature was remarkably large and ranged between 10°C & 20°C in the northern parts and between 10°C & 15°C elsewhere.

The absolute maximum temperature was 45.7°C reported at Kena on the 27th.

Minimum temperature oscillated round its normal and its values ranged between 8 & 18°C in general.

Minimum temperature was remarkably subnormal during the 1st week when its values ranged between 3 & 16°C while otherwise it was oscillatory and of large variability particularly in the last week and its values ranged between 12°C & 26.C.

The absolute minimum temperature was 2.1°C reported at Dakhla on the 5th.

PRECIPITATION

During this month, rain fell in the periods (1st—4th), (15th—19th) & (25th—27th). It was generally slightly above normal and confined to the Mediterranean, Lower Egypt and Cairo districts. As an exception, 1 mm. fell at Siwa on the 10th. Rainfall was heavy on few days over some localities of the Mediterranean district and reached 18 mms. on the 2nd at El Arish, 8 mms. & 15 mms. on the 18th at Sallum and Port Said respectively.

The absolute monthly rainfall was 30.5mms at El Arish, while the maximum daily rainfall was 17.5 mms. reported also at El Arish on the 2nd.

Cairo, 18 / 11 / 1970

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

TABLE A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

APRIL — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms. Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1012.8	—0.6	25.1	+1.4	14.4	+0.9	19.8	19.1	+0.2	12.7	—1.1	43	—13	—	—	—	12.4
Mersa Matruh (A)	1013.5	—0.9	23.9	+1.2	12.7	+0.7	18.3	17.9	—0.6	12.8	—0.6	52	—12	274.2	388.8	70.5	10.3
Alexandria . (A)	1013.4	—0.7	25.8	+2.0	12.9	—0.5	19.4	18.6	+0.4	13.9	—0.7	56	—10	278.2	388.2	71.7	7.6
Port Said . . (A)	1013.2	—0.5	23.3	+0.8	15.6	—1.2	19.4	18.9	+0.1	14.6	—0.9	60	—10	249.4	388.2	64.2	5.2
El Arish	1013.5	+0.6	24.6	+1.0	13.6	+0.3	19.1	18.8	+0.2	14.7	—1.9	61	— 6	260.7	388.2	67.2	7.1
Ghazza.	1013.3	+0.5	23.1	+1.1	13.7	—0.1	18.4	18.3	+0.1	14.1	—1.1	60	—11	263.6	388.8	67.8	7.5
Tanta	1012.9	+0.2	27.0	—0.8	11.8	+1.0	19.4	18.8	+0.1	13.0	—0.9	47	— 7	274.5	387.8	70.8	6.5
Cairo . . . .(A)	1013.3	—0.1	27.8	—0.4	14.6	+0.6	21.2	21.4	+0.5	13.3	—1.2	34	—12	—	—	—	16.5
Fayoum	1013.2	+0.5	29.1	—0.6	13.4	+0.2	21.2	20.9	—0.4	13.3	—0.8	37	— 3	—	—	—	9.1
Minya . . (A)	1013.3	+0.5	30.5	—0.1	11.9	0.0	21.2	21.5	+0.3	13.5	—0.4	35	— 6	—	—	—	10.9
Assyout . . . (A)	1012.6	+0.5	31.0	—0.8	14.9	0.0	23.0	23.0	—0.8	12.6	—0.7	22	— 2	—	—	—	18.2
Luxor . . . (A)	1011.2	+0.7	32.9	—1.5	14.4	—1.2	23.6	24.2	—1.6	13.6	—1.5	23	— 3	—	—	—	11.2
Aswan . . . (A)	1011.0	+1.3	33.5	—1.6	16.0	—1.7	24.8	25.3	—1.5	12.8	—0.5	11	— 1	—	—	—	15.1
Siwa.	1013.2	—0.2	29.0	—0.8	12.0	—0.2	20.5	20.8	—0.8	12.1	—1.0	29	— 3	—	—	—	14.8
Bahariya	1012.9	—0.5	29.6	—0.4	12.7	—0.1	21.2	21.5	—0.9	12.0	—1.3	25	— 4	—	—	—	12.7
Farafra	1014.2	+0.3	30.4	—0.8	12.2	—1.1	21.3	21.5	—1.2	11.9	—0.7	24	+ 1	—	—	—	17.7
Dakhla	1012.6	+1.4	32.3	—0.5	11.7	—1.3	22.0	22.2	—1.7	11.6	—1.0	19	+ 1	—	—	—	18.8
Kharga	1012.2	+0.9	31.4	—1.9	14.8	—0.7	23.1	24.6	—0.2	12.3	—0.3	20	— 3	313.2	382.0	82.0	22.1
Tor	1012.1	+1.3	26.9	—1.0	15.8	—0.6	21.4	21.8	—1.0	15.2	—1.5	45	— 6	—	—	—	12.8
Hurghada	1011.9	+1.0	26.7	+0.4	15.5	—0.7	21.1	21.6	—0.7	14.6	—1.1	42	— 5	—	—	—	16.3
Qseir	1012.2	+1.3	26.1	—1.1	17.8	—1.7	22.0	22.2	—1.2	15.8	—0.9	48	+ 2	—	—	—	15.7

TABLE A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

APRIL 1965

STATION	Maximum Temperature °C									Grass Min. Temps.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<— 5
Sallum	38.6	26	17.5	3	12	8	2	0	0	13.5	—	24.5	22	8.7	1	2	0	0	0
Mersa Matruh (A)	39.4	26	16.8	3	10	6	1	0	0	—	—	19.5	10·22	7.2	5	5	0	0	0
Alexandria (A)	39.8	23	17.0	3	12	9	1	0	0	—	—	18.2	26	6.8	5	4	0	0	0
Port Said (A)	35.1	24	17.4	3	6	2	1	0	0	14.8	—	20.5	24	10.4	3	0	0	0	0
El Arish	40.7	24	14.2	3	10	7	1	1	0	12.4	—	21.4	24	7.0	5	4	0	0	0
Ghazza	39.4	24	15.5	3	7	5	2	0	0	13.2	—	21.5	27	8.5	6	2	0	0	0
Tanta	37.8	23	16.3	3	19	10	2	0	0	—	—	17.3	27	3.7	5	6	1	0	0
Cairo (A)	41.3	24	16.4	3	18	11	4	1	0	—	—	22.6	26	7.6	5	5	0	0	0
Fayoum	41.1	24	19.1	3	22	11	6	3	0	9.7	—	21.0	26	7.5	5	4	0	0	0
Minya (A)	42.0	24	20.9	3	25	12	7	3	0	—	—	21.8	26	4.5	4	11	1	0	0
Assyout (A)	44.5	27	19.6	1	25	14	8	4	0	13.7	—	24.1	24	7.0	4	4	0	0	0
Luxor (A)	45.0	27	22.4	3	27	21	10	4	0	9.6	—	25·8	27	6.5	5	5	0	0	0
Aswan (A)	45.0	27	22.0	4	26	23	13	4	0	—	—	24.8	28	7.5	4	4	0	0	0
Siwa	43.2	26	19.9	3	21	12	6	2	0	10.0	—	21.8	26	6.1	5	9	0	0	0
Bahariya	42.2	26	19.0	3	24	13	7	2	0	11.7	—	23.9	26	3.3	4	8	2	0	0
Farafra	43.2	26	21.0	3	24	13	8	3	0	11.4	—	23.3	27	3.9	5	9	1	0	0
Dakhla	45.4	26	20.5	4	27	14	10	5	2	—	—	25.6	27	2.1	5	14	5	0	0
Kharga	45.4	27	21.4	4	27	16	10	5	2	13.3	—	24.0	25	5.4	5	4	0	0	0
Tor	34.5	24	20.2	5	20	6	0	0	0	—	—	22.7	27	8.8	6	1	0	0	0
Hurghada	30.6	23	19.9	4	23	2	0	0	0	14.3	—	23.6	27	9.6	6	1	0	0	0
Quseir	29.6	17	19.6	4	22	0	0	0	0	15.7	—	22.0	28	12.7	4	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

APRIL — 1965

Station	Mean Sky Cover (Oct)					Rainfall (mms)										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	2.2	3.5	3.8	3.3	3.4	10.5	+ 9.4	8.1	18	3	5	2	1	0	0	0
Mersa Matruh (A)	2.3	3.0	3.4	2.5	2.9	5.9	+ 3.4	3.1	2	1	2	2	0	0	0	0
Alexandria (A)	3.1	3.8	3.8	3.3	3.6	4.0	+ 0.9	1.6	2,18	1	4	2	0	0	0	0
Port Said (A)	2.4	3.2	2.8	2.6	2.8	16.3	+13.2	15.3	18	0	4	1	1	1	0	0
El Arish	3.1	4.1	3.5	3.2	2.8	30.5	+23.9	17.5	2	1	4	4	3	1	0	0
Ghazza	3.9	4.2	3.6	2.8	2.8	18.4	+ 9.9	10.0	1	1	6	4	1	1	0	0
Tanta	—	2.7	3.1	1.5	—	4.6	+ 2.5	2.0	3	0	4	3	0	0	0	0
Cairo (A)	1.3	2.9	3.2	2.0	2.4	5.4	+ 4.6	2.8	18	0	4	2	0	0	0	0
Fayoum	—	1.2	1.9	1.5	—	5.0	+ 4.3	5.0	3	1	1	1	1	0	0	0
Minya (A)	1.2	1.6	1.7	1.7	1.5	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.7	1.3	1.5	1.0	1.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	1.0	1.6	2.1	1.6	1.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Aswan (A)	1.2	1.6	2.0	1.6	1.5	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	1.0	1.5	2.0	1.2	1.2	0.1	— 0.8	0.1	10	2	1	0	0	0	0	0
Bahariya	0.9	1.5	1.8	1.6	1.5	Tr.	— 0.5	Tr.	27	1	0	0	0	0	0	0
Farafra	—	1.4	2.2	1.5	—	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Dakhla	0.9	1.6	1.4	1.3	1.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.9	2.4	2.4	1.2	1.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	1.2	2.1	1.8	1.5	1.6	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Hurghada	1.2	1.7	1.2	1.0	1.3	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Quseir	0.5	1.5	1.9	1.0	1.3	Tr.	— 0.1	Tr.	18	1	0	0	0	0	0	0

TABLE A 4—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

APRIL 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sallum	5	0	0	1	0	3	0	0	2	0	12	3	0	5	2
Mersa Matruh (A)	3	0	0	0	0	1	1	0	0	0	6	4	2	10	0
Alexandria (A)	4	0	0	0	0	2	0	0	3	0	2	0	0	8	1
Port Said (A)	4	0	0	1	0	1	0	0	0	0	3	1	1	12	1
El Arish	4	0	0	0	0	4	5	0	4	0	5	0	0	6	4
Ghazza	6	0	0	0	0	3	1	0	2	0	3	0	0	6	5
Tanta	4	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Caira	4	0	0	0	0	0	4	0	15	0	5	0	0	12	1
Fayoum	1	0	0	0	0	0	0	0	0	0	1	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	0	0	4	0	0	22	1
Assyout (A)	0	0	0	0	0	0	0	0	10	0	11	0	0	26	1
Luxor (A)	0	0	0	0	0	0	0	0	17	0	6	0	0	20	0
Aswan (A)	0	0	0	0	0	0	0	0	5	0	8	1	0	22	0
Siwa	1	0	0	0	0	0	0	0	4	0	8	0	0	22	2
Bahariya	0	0	0	0	0	0	0	0	0	0	5	0	0	22	2
Farafra	0	0	0	0	0	0	0	0	13	0	7	2	0	19	2
Dakhla	0	0	0	0	0	0	0	0	9	0	2	0	0	21	0
Kharga	0	0	0	0	0	0	0	0	4	0	8	3	1	19	0
Tor	0	0	0	0	0	0	0	0	5	0	8	0	0	23	0
Hurghada	0	0	0	0	0	0	0	0	1	0	6	1	2	22	1
Quseir	0	0	0	0	0	0	4	0	9	0	4	0	0	24	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

APRIL — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Sallum	41	2	0	1—10	21	70	35	30	14	12	16	20	14	24	98	17	3
				11—27	6	14	0	1	0	2	37	48	29	45	106	12	71
				28—47	1	0	0	0	0	0	0	2	2	0	1	0	300
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	6
				All speeds	**28**	**84**	**35**	**31**	**14**	**14**	**53**	**70**	**45**	**69**	**205**	**29**	0 **677**
Mersa Matruh (A)	0	6	0	1—10	49	25	8	13	29	21	17	10	11	30	31	23	267
				11—27	100	8	8	7	19	13	52	46	25	36	40	85	439
				28—47	0	0	0	0	0	0	6	1	0	1	0	0	8
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**149**	**33**	**16**	**20**	**48**	**34**	**75**	**57**	**36**	**67**	**71**	**108**	**714**
Alexandria (A)	16	0	0	1—10	47	17	13	22	52	68	28	33	21	20	31	58	410
				11—27	19	2	5	6	20	12	8	10	7	35	91	79	294
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**66**	**19**	**18**	**28**	**72**	**80**	**36**	**43**	**28**	**55**	**122**	**137**	**704**
Port Said . . (A)	0	0	0	1—10	63	33	47	46	19	22	25	9	28	32	14	31	369
				11—27	37	7	26	40	24	12	8	10	22	51	23	75	335
				28—47	0	0	0	0	0	0	1	0	0	0	15	0	16
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	100	**40**	**73**	**86**	**43**	**34**	**34**	**19**	**50**	**83**	**52**	**106**	**720**
El Arish	5	9	0	1—10	84	56	31	28	58	99	49	38	31	14	35	117	640
				11—27	0	0	0	0	0	3	2	0	9	27	21	4	66
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**84**	**56**	**31**	**28**	**58**	**102**	**51**	**38**	**40**	**41**	**56**	**121**	**706**
Ghazza	0	59	0	1—10	23	38	21	22	49	108	29	9	20	29	64	23	435
				11—27	20	16	0	0	6	42	1	5	21	37	61	10	219
				28—47	0	0	0	0	0	0	0	0	0	5	2	0	7
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**43**	**54**	**21**	**22**	**55**	**150**	**30**	**14**	**41**	**71**	**127**	**33**	**661**
Tanta.	1	12	0	1—10	40	33	25	67	119	22	32	29	74	80	65	90	676
				11—27	2	0	0	0	0	0	0	0	0	10	15	4	31
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**42**	**33**	**25**	**67**	**119**	**22**	**32**	**29**	**74**	**90**	**80**	**94**	**707**
Cairo . . . (A)	24	4	0	1—10	36	69	37	42	18	24	9	12	21	41	49	32	390
				11—27	9	45	37	25	45	42	10	7	16	14	37	14	301
				28—47	0	0	0	0	0	1	0	0	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**45**	**114**	**74**	**67**	**63**	**67**	**19**	**19**	**37**	**55**	**86**	**46**	**692**
Fayoum	27	30	0	1—10	221	64	31	12	19	37	25	15	23	40	66	83	636
				11—27	14	0	0	0	0	0	0	0	0	1	6	6	27
				23—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**235**	**64**	**31**	**12**	**19**	**37**	**25**	**15**	**23**	**41**	**72**	**89**	**663**

TABLE A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

APRIL — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya . . (A)	10	26	0	1—10	90	27	13	8	38	64	14	1	3	13	31	130	432
				11—27	121	13	4	2	1	9	11	2	1	11	22	55	252
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**211**	**40**	**17**	**10**	**39**	**73**	**25**	**3**	**4**	**24**	**53**	**185**	**684**
Assyout . . (A)	17	0	0	1—10	15	3	37	0	19	16	13	9	52	137	56	32	389
				11—27	11	11	2	0	13	30	27	11	4	16	73	111	309
				28—47	0	0	0	0	2	1	1	0	0	0	0	1	5
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**26**	**14**	**39**	**0**	**34**	**47**	**41**	**20**	**56**	**153**	**129**	**144**	**703**
Luxor . . (A)	9	0	0	1—10	52	85	70	0	27	25	65	48	33	34	53	122	614
				11—27	6	5	16	0	0	1	6	6	1	5	3	48	97
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**58**	**90**	**86**	**0**	**27**	**26**	**71**	**54**	**34**	**39**	**56**	**170**	**711**
Aswan . . (A)	1	8	0	1—10	181	86	13	12	17	20	23	8	8	9	16	49	442
				11—27	146	39	12	10	5	1	1	0	0	0	8	47	269
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**327**	**125**	**25**	**22**	**22**	**21**	**24**	**8**	**8**	**9**	**24**	**96**	**711**
Siwa	36	24	0	1—10	31	31	29	43	41	39	25	11	29	67	80	28	454
				11—27	9	15	8	5	15	26	35	6	1	10	65	9	204
				28—47	0	0	0	0	0	0	1	1	0	0	0	0	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**40**	**46**	**37**	**48**	**56**	**65**	**61**	**18**	**30**	**77**	**145**	**37**	**660**
Dakhla	3	21	0	1—10	85	25	66	0	60	52	55	47	28	42	71	134	665
				11—27	20	1	0	0	0	2	2	3	1	0	0	2	31
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**105**	**26**	**66**	**0**	**60**	**54**	**57**	**50**	**29**	**42**	**71**	**136**	**696**
Tor	1	0	0	1—10	64	18	26	0	21	32	26	15	17	21	27	31	298
				11—27	2	0	0	0	25	34	7	1	68	193	77	7	414
				28—47	0	0	0	0	0	0	0	0	3	4	0	0	7
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**66**	**18**	**26**	**0**	**46**	**66**	**33**	**16**	**88**	**218**	**104**	**38**	**719**
Hurghada . . .	5	14	0	1—10	19	15	21	24	43	15	5	10	10	14	50	13	239
				11—27	72	6	0	20	36	10	3	0	0	29	120	126	422
				28—47	0	0	0	0	0	0	0	0	0	0	14	26	40
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**91**	**21**	**21**	**44**	**79**	**25**	**8**	**10**	**10**	**43**	**184**	**165**	**701**
Quseir	13	2	56	1—10	52	34	23	27	25	34	15	3	4	16	87	86	406
				11—27	133	12	0	0	0	3	0	0	0	1	6	85	240
				28—47	3	0	0	0	0	0	0	0	0	0	0	0	3
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**188**	**46**	**23**	**27**	**25**	**37**	**15**	**3**	**4**	**17**	**93**	**171**	**649**

TABLE B 1.—UPPER AIR CLIMATOLOGICAL DATA

APRIL — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	30	*1013mb	*1022mb	*1003mb	30	14.8	21.0	8.6	30	8.9
	1000	30	141	211	54	30	15.8	24.0	10.4	30	8.4
	850	30	1513	1575	1450	30	10.5	20.4	— 1.0	22	— 1.7
	700	30	3100	3197	3009	30	— 0.3	8.3	— 8.1	15	— 7.9
	600	30	4319	4425	4208	30	— 7.8	— 0.2	—16.4	12	—14.6
	500	30	5709	5821	5551	30	—18.1	—12.6	—27.5	7	—19.9
	400	30	7333	7466	7142	30	—33.4	—23.0	—36.6	6	—29.2
	300	30	9328	9504	9056	30	—44.2	—36.4	—50.2	1	—39.3
	200	25	11957	12148	11712	25	—56.4	—51.4	—62.9	—	—
	150	19	13760	13916	13533	19	—60.4	—52.0	—68.0	—	—
	100	12	16273	16428	16073	12	—67.0	—58.9	—72.7	—	—
	70	7	18494	18600	18400	7	—64.4	—62.4	—67.0	—	—
	60	6	19438	19561	19323	6	—60.6	—58.4	—62.3	—	—
	50	4	20614	20701	20533	4	—57.8	—57.3	—58.4	—	—
	40	2	22082	22121	22044	2	—56.1	—54.4	—57.8	—	—
	30	1	23971	—	—	1	—52.9	—	—	—	—
	20	1	26549	—	—	1	—50.7	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	
Helwan 0000 U.T.	Surface	29	*997mb	*1005mb	*986mb	29	17.2	33.0	9.1	29	3.1
	1000	29	113	182	28	7	11.8	21.8	8.3	6	1.1
	850	29	1486	1545	1418	29	11.8	26.1	— 3.0	20	— 6.1
	700	29	3083	3158	2991	29	2.3	9.3	—10.4	13	—13.8
	600	29	4307	4399	4166	29	— 6.4	— 1.0	—18.6	10	—16.7
	500	29	5706	5817	5512	29	—16.2	—10.3	—24.7	9	—20.9
	400	29	7346	7478	7105	29	—28.2	—20.8	—38.2	5	—50.5
	300	29	9351	9512	9055	29	—42.4	—36.1	—50.3	4	—42.8
	200	29	12007	12232	11646	29	—55.1	—49.8	—60.8	—	—
	150	28	13818	14052	13460	28	—62.4	—57.0	—70.8	—	—
	100	27	16276	16478	15970	27	—69.3	—62.8	—77.0	—	—
	70	23	18440	18620	18160	23	—66.0	—58.7	—77.8	—	—
	60	22	19383	19551	19115	22	—61.7	—57.9	—64.9	—	—
	40	21	20520	20693	20262	21	—57.7	—51.2	—61.9	—	—
	50	13	21913	22096	21662	13	—55.4	—50.2	—57.7	—	—
	30	8	23745	23959	23516	8	—52.8	—49.5	—54.6	—	—
	20	6	26369	26472	26156	6	—50.7	—48.7	—53.8	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	20	*988mb	*997mb	*981mb	20	20.0	32.0	10.2	20	0.4
	1000	—	—	—	—	—	—	—	—	—	—
	850	20	1498	1529	1453	20	17.3	28.1	6.0	9	— 7.9
	700	20	3124	3165	3074	20	7.4	13.6	— 1.8	10	—11.4
	600	20	4322	4425	4305	20	— 1.7	3.7	— 5.7	9	—12.5
	500	20	5797	5854	5707	20	—12.0	—6.9	—16.5	7	—20.0
	400	19	7371	7549	7355	19	—23.1	—18.8	—28.0	4	—30.2
	300	18	9512	9619	9352	18	—36.6	—31.8	—45.4	5	—41.7
	200	17	12228	12324	12075	17	—54.7	—47.3	—59.6	—	—
	150	16	14024	14167	13861	16	—66.0	—62.2	—70.1	—	—
	100	14	16418	16579	16273	14	—76.1	—69.3	—80.3	—	—
	70	12	18486	18621	18340	12	—72.2	—67.0	—83.4	—	—
	60	7	19380	19467	19257	7	—64.7	—61.7	—68.8	—	—
	50	6	20498	20567	20387	6	—60.6	—58.6	—63.7	—	—
	40	4	21880	21965	21781	4	—59.4	—58.0	—61.2	—	—
	30	4	23706	23799	23603	4	—54.6	—53.2	—55.9	—	—
	20	4	26329	26435	26216	4	—50.2	—49.6	—50.9	—	—
	10	3	30921	31095	30795	3	—43.1	—39.5	—45.2	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 1 (*contd.*)—UPPER AIR CLIMATOLOGICAL DATA

APRIL — 1965

Station	Pressure Surface Millibar	Altitune of Pressure Surfsace (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	30	*1014mb	*1023mb	*998mb	30	22.4	33.7	14.0	30	9.7
	1000	30	143	221	12	30	20.2	33.0	12.4	27	8.5
	850	30	1524	1584	1446	30	11.3	26.6	1.0	24	— 2.7
	700	30	3118	3195	3003	30	1.3	10.8	— 7.6	19	— 9.2
	600	30	4339	4425	4188	30	— 7.5	— 1.2	—16.7	15	—15.5
	500	30	5730	5821	5548	30	—17.5	—10.5	—24.8	7	—23.0
	400	30	7363	7534	7143	30	—29.8	—20.6	—36.5	5	—31.6
	300	30	9359	9595	9124	30	—43.1	—36.3	—49.1	1	—38.5
	200	27	11994	12166	11753	27	—54.4	—46.2	—63.3	—	—
	150	20	13815	14012	13621	20	—58.7	—50.9	—64.7	—	—
	100	14	16340	16547	16149	14	—63.1	—58.0	—70.5	—	—
	70	8	18575	18750	18440	8	—60.9	—57.8	—63.8	—	—
	60	7	19516	19702	19369	7	—58.1	—52.3	—66.8	—	—
	50	7	20682	20867	20552	7	—53.5	—51.5	—55.2	—	—
	40	4	22183	22310	22124	4	—51.2	—50.4	—52.7	—	—
	30	3	24085	24200	23996	3	—47.8	—46.9	—49.2	—	—
	20	2	26720	26756	26683	2	—44.2	—44.0	—44.4	—	—
	10	1	31538	—	—	1	—31.0		—	—	—
Helwan 1200 U.T.	Surface	30	*996mb	*1006mb	*986mb	30	27.1	40.4	15.4	30	0.0
	1000	30	112	192	24	7	21.0	30.9	14.5	5	0.2
	850	30	1501	1595	1439	30	13.2	27.4	1.4	21	— 2.6
	700	30	3100	3210	3015	30	2.2	10.8	—11.9	14	—12.7
	600	30	4327	4440	4196	30	— 5.5	— 0.4	—13.7	8	—15.3
	500	30	5731	5839	5564	30	—15.6	—10.4	—22.3	8	—19.6
	400	30	7376	7542	7166	30	—27.7	—21.0	—36.0	6	—27.1
	300	30	9383	9583	9127	30	—41.9	—35.9	—47.7	3	—40.9
	200	30	12046	12284	11779	30	—54.7	—50.3	—62.1	—	—
	150	30	13859	14117	13594	29	—61.6	—55.8	—71.4	—	—
	100	28	16332	16563	16155	28	—67.5	—60.2	—77.0	—	—
	70	24	18484	18650	18360	24	—65.8	—59.6	—72.7	—	—
	60	22	19419	19578	19301	22	—61.2	—54.8	—66.9	—	—
	50	21	20561	20710	20451	21	—57.5	—55.1	—61.3	—	—
	40	14	21969	22104	21740	14	—55.0	—52.9	—60.8	—	—
	30	10	23841	23956	23680	10	—52.6	—48.7	—60.8	—	—
	20	3	26535	26627	26428	3	—46.2	—43,8	—49.5	—	—
	10	1	31248	—	—	1	—43.0	—	—	—	—
Aswan 1200 U.T.	Surface	19	*989mb	*997mb	*982mb	19	32.5	42.0	21.0	19	— 0.2
	1000	19	94	167	27	—	—	—	—	—	—
	850	19	1523	1593	1494	19	19.0	29.7	8.2	8	— 8.0
	700	19	3154	3264	3111	19	8.1	13.9	— 0.6	8	—11.6
	600	19	4406	4533	4331	19	— 0.8	4.0	— 6.0	9	—13.4
	500	19	5834	5973	5737	19	—10.6	— 6.8	—15.2	7	— 22.5
	400	19	7514	7663	7393	19	—21.7	—17.5	—26.7	3	—27.4
	300	18	9581	9761	9447	18	—35.0	—31.2	—39.4	—	—
	200	18	12306	12514	12157	18	—53.2	—48.0	—58.4	—	—
	150	18	14117	14326	13941	18	—64.2	—60.8	—69.0	—	—
	100	16	16513	16731	16360	16	—74.2	—68.8	—78.6	—	—
	70	12	18638	18800	18530	12	—69.6	—66.0	—74.4	—	—
	60	10	19587	19727	19432	10	—63.6	—56.6	—66.0	—	—
	50	8	20702	20867	20562	8	—58.1	—50.8	—61.4	—	—
	40	4	22114	22270	22003	4	—55.2	—53.4	—58.0	—	—
	30	4	23975	24098	23867	4	—50.5	—47.0	—56.4	—	—
	20	3	26647	26792	26549	3	—45.5	—41.0	—52.0	—	—
	10	1	31368	—	—	1	— 34.9	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

APRIL — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A)	2992 (30)	713 (30)	- 8.3 (20)	4300	603	—	1390	861	- 3.3	11350 (21)	213 (21)	-58.0 (21)	16381	100	-68.8	9336	300	-45.7	11850	260	284	137
	Helwan . . .	3258 (29)	687 (29)	-11.5 (17)	4230	610	- 4.8	1110	890	- 4.1	12923 (27)	182 (27)	-62.0 (27)	17340	84	-80.0	9490	297	-43.2	12775	179	270	150
	Aswan . (A)	4109 (20)	621 (20)	-14.3 (7)	4960	558	-13.2	2880	724	—	16072 (13)	107 (13)	-75.6 (13)	17300	88	-79.4	14440	136	-71.9	10990	237	270	150
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M.Matruh (A)	3197 (30)	695 (30)	-10.0 (22)	4250	610	- 6.2	1640	840	- 6.2	11806 (22)	211 (22)	-55.7 (22)	17270	87	-73.0	8800	313	-44.1	12660	181	270	159
	Helwan . . .	3339 (30)	682 (30)	- 9.7 (16)	4380	603	-10.2	1630	834	- 3.3	13449 (26)	159 (26)	-63.2 (26)	17430	86	-75.0	9000	311	-43.6	14870	125	300	150
	Aswan . (A)	4212 (19)	615 (19)	-14.8 (7)	4880	568	-14.0	3020	708	—	16174 (16)	108 (16)	-74.6 (16)	17907	81	-79.4	14180	133	-69.0	11590	220	280	172

N = The number of cases the element has been observed during the month.

TABLE B 3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — APRIL 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	1	20	0	—	0	—	2	10	2	12	3	12	5	17	2	10	1	7	6	13	2	8	6	8	0	30	12
	1000	0	—	0	—	0	—	0	—	2	11	5	17	4	18	2	11	0	—	5	13	4	15	5	13	0	27	14
	850	1	24	0	—	0	—	0	—	0	—	0	—	4	12	5	25	1	14	6	27	7	21	0	—	0	24	22
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	29	5	34	8	27	7	21	0	—	0	22	27
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	42	5	52	9	33	5	25	0	—	0	20	36
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	56	4	46	12	45	3	45	0	—	0	20	46
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	60	10	55	4	52	0	—	0	18	56
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	87	9	69	2	52	0	—	0	14	70
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	100	1	87	0	—	0	9	98
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	93	1	94	0	—	0	2	94
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	5	13	1	11	1	7	0	—	0	—	0	—	4	13	2	16	2	16	2	8	0	—	12	17	1	30	14
	1000	3	14	0	—	1	7	0	—	0	—	0	—	3	20	2	18	3	23	1	6	6	18	9	17	1	29	17
	850	1	12	0	—	0	—	0	—	0	—	0	—	2	21	8	18	2	24	6	24	7	17	3	37	0	29	21
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	34	3	28	5	29	9	29	8	17	3	18	0	29	25
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	27	5	45	8	37	9	24	4	24	0	29	31
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	41	4	64	13	40	7	35	1	36	0	26	42
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	74	12	51	7	40	2	42	0	24	50
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	99	15	66	5	56	1	31	0	22	64
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	92	1	57	0	—	0	11	89
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	79	1	68	0	—	0	7	77
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	28	1	68	0	—	0	2	48
	70	0	—	0	—	1	25	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	25
	60	0	—	1	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	22
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	0	—	—	—	0	1	7
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — APRIL 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	3	13	5	7	13	8	1	12	1	14	0	—	1	16	0	—	0	—	0	—	2	8	0	—	3	29	8
	1000	0	—	2	6	4	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	12	0	7	10
	850	3	13	2	11	1	15	0	—	0	—	0	—	3	13	2	22	1	11	8	20	2	15	7	13	0	29	15
	700	0	—	1	3	0	—	0	—	0	—	0	—	0	—	5	23	3	26	8	32	7	19	5	23	0	29	24
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	17	4	40	11	31	10	33	3	20	0	29	31
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	74	10	38	13	31	2	30	0	29	39
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	—	3	85	9	50	14	50	1	45	0	27	54
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	13	68	8	58	1	67	0	22	65
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	98	6	95	1	89	0	14	96
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	109	4	76	1	98	0	8	90
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	92	1	134	0	—	0	2	113
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	36	0	—	0	1	36
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	3	13	3	14	3	9	1	15	0	—	0	—	2	12	2	10	3	12	3	8	5	11	4	11	1	30	11
	1000	0	—	3	11	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	3	12	0	—	0	7	12
	850	5	10	2	10	3	13	1	6	2	12	0	—	2	14	3	15	1	15	2	14	7	18	2	8	0	30	13
	700	1	11	1	14	1	5	0	—	0	—	0	—	1	10	3	20	4	34	9	22	5	21	5	17	0	30	21
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	3	3	30	8	34	6	32	7	28	5	23	0	30	29
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	49	3	34	13	43	12	34	1	35	0	30	38
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	65	15	56	9	46	1	43	0	28	53
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	120	13	85	11	53	1	84	0	26	73
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	102	9	85	1	100	0	18	93
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	94	3	126	0	—	0	7	108
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	33	0	—	1	125	0	—	0	2	79
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — APRIL 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surfgce	10	11	2	11	0	—	0	—	2	8	0	—	1	10	0	—	0	—	0	—	1	13	2	14	0	18	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	4	11	3	16	1	21	1	24	0	—	2	15	0	—	1	16	0	—	2	15	1	23	2	12	0	17	15
	700	1	15	3	14	0	—	0	—	1	11	0	—	0	—	1	9	2	21	4	31	0	—	4	14	0	16	19
	600	2	12	0	—	0	—	0	—	0	—	0	—	0	—	1	4	4	27	4	41	2	24	3	21	0	16	26
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	46	6	30	3	26	0	17	37
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	83	9	57	6	42	0	—	0	16	53
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	108	7	94	6	64	1	45	0	15	80
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	89	4	75	0	—	1	7	81
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	8	11	1	10	0	—	0	—	0	—	1	6	1	7	0	—	0	—	0	—	2	7	2	11	4	19	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	1	8	3	11	3	10	0	—	2	13	0	—	2	10	1	15	0	—	0	—	2	13	5	15	0	19	12
	700	0	—	2	10	2	17	1	6	1	10	0	—	0	—	1	16	5	25	0	—	3	18	4	16	0	19	18
	600	4	12	0	—	1	9	0	—	0	—	0	—	0	—	1	12	5	28	2	30	5	26	1	40	0	19	23
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	29	7	41	6	28	2	22	0	18	33
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	70	6	50	7	42	1	66	0	18	52
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	113	11	82	5	67	0	—	0	17	80
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	92	7	84	1	76	0	12	86
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	79	3	64	0	—	0	4	68
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	0	—	1	81	0	—	0	2	60
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATION AT EL-KASR

APRIL 1965

This month was slightly warmer and drier than normal. Compared with the corresponding values of April 1964, mean daily air temperature at 2 metres height above ground was higher by 0.7 °C while mean daily relative humidity and total rainfall were lower by 7% and 5.7 mms respectively. The month was characterized by three pronounced heat waves with peaks on 8th, 22nd and 26th. The first was preceded by a cool period with the absolute minimum air temperature on the 5th. The first and the second heat waves were associated with the extreme minimum relative humidity on the 8th and 22nd. The third heat wave was the most pronounced and was associated with the extreme maximum air temperature on the 26th.

The extreme maximum soil temperatures from the surface down to one metre depth were higher than the corresponding values for April 1964 by 4.2 °C to 0.3 °C at 2 cms and 100 cms respectively. The extreme minimum soil temperatures were lower than the corresponding values of April 1964 by 2.3 °C at 20 and 50 cms depths to 0.8 °C at 5 cms depth.

Mean daily wind speed at 2 metres height above ground was 0.1 m/sec lower than the corresponding value of April 1964, Mean daily class A pan evaporation was 2.36 mms higher than the corresponding value of last April. Total actual duration of bright sunshine was 6.8 hours more than the corresponding value of April 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT TAHRIR

APRIL 1965

This month was warmer and drier as compared with the mean values of air temperature and relative humidity of April 1964. Compared with the corresponding values of April 1964, mean daily air temperature at 2 metres height above ground was 1.1°C higher, relative humidity was 6% lower and total rainfall was 3.3 mms lower. Four pronounced heat waves occurred, with peaks on 9th, 16th, 23rd and 26th. The first was preceded by a cool period with the absolute minimum air temperature on the 5th. The second wave was followed by an active cold front. The third wave was the most pronounced and was associated with the extreme maximum air temperature and the extreme minimum relative humidity.

The extreme maximum soil temperatures from the surface down to one meter depth were higher than the corresponding values for April 1964 by 5.6°C to 0.4°C. The extreme minimum soil temperatures were lower than the corresponding values for April 1964 by 2.5°C to 0.5°C, except at 5 and 10 cms depths where they were higher by 0.9°C and 0.3°C respectively.

Mean daily wind speed at 2 metres height was 0.2 m/sec lower than the corresponding value of April 1964. Mean daily Piche evaporation was higher than the corresponding value of last April by 0.6 mm, while mean daily Class A pan evaporation was lower by 1.44 mms. Total actual duration of bright sunshine was less by 13.2 hours or 3% of possible duration than the corresponding values of April 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT GIZA

APRIL 1965

This month was warmer and drier than normal. Mean daily air temperature at 2 metres height above ground and total rainfall were higher than normal by 1.1°C and 1.9 mms respectively, while the mean daily relative humidity was 4% below normal. The month was characterised by three heat waves with peaks on 9th., 17th and 24th. The first heat wave was preceded by a cool period with the absolute minimum air temperature on the 5th. The third wave was the most pronounced and was associated with the absolute maximum air temperature on the 24th.

The extreme maximum soil temperatures from the surface down to one metre depth in the different fields were higher than the corresponding values for April 1964 ; and in the dry field the differences were between 4.5°C at 1 cm depth and 0.4°C at 5 cms depth. The extreme minimum soil temperatures in the different fields at different depths — except at 100 cms depth in the dry field — were lower than the corresponding values for last April. In the dry field the differences were between 4.2°C at 2 cms. depth and 1.2°C at 50 cms depth. At 100 cms depth in the dry field the extreme minimum soil temperature was 0.1°C higher than the corresponding value of April 1964.

Mean daily wind speed at 2 metres height was 0.5 m/sec lower than the corresponding value of April 1964. Mean daily Class A pan evaporation, potential evaporation and potential evapotranspiration were lower than the corresponding values of April 1964 by 0.91 ; 0.6 and 0.5 mms respectively while the mean daily Piche evaporation was 0.6 mm higher. Total actual duration of bright sunshine was 2.9 hours more than the corresponding value of April 1964.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA

APRIL 1965

The month was slightly warmer and remarkably drier than normal . The mean daily air temperature at 2 metres above ground was 0.4°C above normal, while the mean daily relative humidity was 12% below normal. The month was characterized by two heat waves with peak on 8th and 27th. The first was preceded by a relatively cool period with the absolute minimum air temperature on the 5th on which occurred also the absolute maximum relative humidity. The second heat wave was the most excessive and was associated with the extreme maximum air temperature on the 27th.

The extreme maximum soil temperatures from the surface down to one metre depth were higher than the corresponding values for April 1964 by 6.9°C at 2 cms depth to 0.8°C at 100cms depth. The extreme minimum soil temperatures from the surface down to 50 cms depth were lower than the corresponding values of April 1964 by 4.0°C at 1 cm depth to 1.1°C at 50 cms depth, while the value at 100 cms depth was 0.5°C higher.

Mean daily wind speed at 2 metres height above ground was 1.0 m/sec lower than the corresponding value of April 1964. Mean daily Piche evaporation at 120 cms height and class A pan evaporation were lower than the corresponding value of last April by 4.5, 3.61 mms respectively. Total actual duration of bright sunshine was 14.9 hours less than the corresponding value of April 1964.

TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

APRIL — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	24.1	12.3	17.8	15.0	20.0	24.0	24.0	24.0	22.8	16.0	5.1	2.2	1.0	0.1	0.0	0.0
Tahrir	28.0	12.4	19.7	16.4	22.5	24.0	24.0	24.0	23.4	17.4	10.2	4.6	2.0	0.3	0.0	0.0
Giza	28.8	12.4	20.4	17.3	23.0	24.0	24.0	24.0	23.0	17.9	11.3	5.7	2.4	0.7	0.0	0.0
Kharga	32.4	14.8	24.5	21.5	27.2	24.0	24.0	24.0	23.7	22.0	17.0	10.6	4.7	2.2	0.8	0.04

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS

APRIL — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	39.8	26	16.5	3	19.5	22	6.2	5	4.0	5	—	—
Tahrir	39.5	23	16.1	3	17.3	24·27	6.5	5	4.0	5	—	—
Giza	40.6	24	17.0	3	24.8	27	5.0	5	0.3	5	-0.5	5
Kharga	45.4	27	21.4	4	24.0	25	5.4	5	4.4	5-6	—	—

TABLE C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL

APRIL — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
Kasr.	461.0	273.7	388.4	70	—	—	65	49	11	8,22	9.3	8.9	14.6	26	4.0	22	9.2	9.16	7.8	4.2	18
hrir .	571.8	267.4	387.7	69	0.9	4.3	55	29	9	23	8.6	7.0	14.1	25	3.4	8	15.2	8.46	2.2	0.9	3
a . .	558.0	272.6	387.2	72	0.5	3.0	50	27	9	21,22	7.9	6.7	13.5	25	3.4	22	15.2	7.86	2.6	1.4	18
arga .	602.0	313.2	382.0	82	0	0	23	14	5	23,26	4.8	4.7	9.2	17	1.6	17	31.8	15-12	0.0	0.0	—

TABLE C. 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

APRIL — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr	H	43.2	38.4	37.4	32.2	28.7	24.7	21.9	20.5	19.7	—	—	—	—	—	—	—	—	—	—	—
	L	5.8	6.7	7.2	9.4	11.4	14.0	16.8	18.0	18.8	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	52.2	51.6	45.7	40.5	35.1	30.7	26.8	24.6	22.7	22.1	—	—	—	—	—	—	—	—	—	—
	L	7.4	7.3	8.1	10.7	12.7	15.2	17.7	20.1	20.8	21.2	—	—	—	—	—	—	—	—	—	—
Giza	H	62.0	61.3	57.9	37.8	32.2	28.2	26.5	24.5	23.1	23.3	32.7	28.8	27.2	25.3	24.2	22.9	21.1	19.8	19.8	—
	L	3.0	4.3	4.8	11.9	16.3	19.9	21.5	22.1	22.4	23.1	8.5	10.7	11.1	12.7	14.4	16.0	17.6	18.0	19.4	—
Kharga	H	60.5	55.0	53.0	46.5	38.6	33.2	30.4	27.4	25.9	26.3	—	—	—	—	—	—	—	—	—	—
	L	7.5	8.8	9.8	14.3	18.0	21.8	24.2	24.8	25.1	26.0	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

APRIL — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr . . .	4.3	3.4	5.4	—	—	—	—	—	—	—	—	—
Tahrir	3.2	2.5	4.1	25	20	9	4	2	1	0	41	3,18
Giza	2.4	1.9	3.1	29	19	8	2	0	0	0	37	10
Kharga	4.0	3.3	5.3	—	—	—	—	—	—	—	—	—

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METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties, the U.A.R. Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in the U.A.R.

UNITED ARAB REPUBLIC

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METEOROLOGICAL DEPARTMENT
CAIRO

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Note : For explanatory notes on the tables please refer to volume 9 number 1 (January 1965).

GENERAL SUMMARY OF WEATHER CONDITIONS

MAY 1965

C..angeable, intervened by three khamsin disturbances.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather during this month vas changeable in general. Three khamsin eat waves of different intensities prevailed. The first and second waves were of short duraions and confined to the northern and central istricts, while the third one was the most ntense and covered the whole Country in the hird decade.

These khamsin waves were accompanied by ising sand and sandstorms over some localities specially the open desert areas.

The monthly rainfall was subnormal over ll districts.

Early morning mist or fog developed for everal days over scattered localities from ower Egypt and Cairo area districts.

PRESSURE DISTRIBUTION

The prevailing pressure systems over the urface map during this month are summarized n :

— The Siberian Anticyclonic ridge over he Middle East and East Mediterranean.

— The Atlantic Anticyclonic extension hrough southwestern Europe.

— A low pressure system over Central Mediterranean and its southern limits.

— A low pressure system over northwest Africa.

At the beginning of the month, a secondary epression appeared over West Mediterranean, t proceeded SE wards, reached Central Mediterranean round the 3rd and continued moving eastwards traversing East Mediterranean on the 5th with no appreciable change in its intensity. Between the 5th and the 11th, the Atlantic anticyclonic extension operated over northwest Africa.

On the 10th a second secondary depression developed over Central Italy, proceeded SE wards while filling up slightly. It reached Greece on 11th when it started to move eastwards through Asia Minor and was associated with two shallow depressions over western Egyptian Desert. The whole system crossed East Mediterranean on the 14th.

The period between the 16th and the 18th was characterized by the extension of the Siberian Anticyclone southwest ridge over northeast Africa. On the 19th West Mediterranean was a loose pressure gradient area by the approach of a deep northern transitory trough and on the 21st a secondary low appeared over Central Mediterranean where it started moving slowly eastwards with no marked change in intensity and crossed East Mediterranean on the 23rd.

On the 24th a secondary low developed over Gulf of Serte and traversed East Mediterranean on the 28th, a ridge reestablished over Northern Africa in its rear between the 27th and the 31st.

It is worth to mention that secondary Mediterranean depressions were associated with upper troughs extending aloft up to about 200 mbs. level.

The subtropical jet stream appeared over the U.A.R. during the whole month at about 196 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan and Aswan were 156, 166 and 110 knots on the 3rd, 18th and 1st respectively.

SURFACE WIND

The prevailing winds were light/moderate NWly and Nly in general. Fresh/strong winds blew occasionally for few days in general apart from the Mediterranean (western parts), the Red Sea districts where these winds were outstanding during day time intervals. Calms were frequent during night-time and early morning intervals over scattered localities.

Gales were reported at : Ras El Hikma on the 4th ; Kabrit on the 14th and at Hurghada on the 15th.

TEMPERATURE

Maximum temperature was remarkably changeable all over the cauntry.

During the first and the second decades, excluding the 4th and 12th, it continued subnormal and its values ranged between 20°C and 25°C in the Mediterranean district, between 22°C and 30°C in the inland northern districts and between 31°C and 39°C in the inland southern districts.

During the third decade maximum temperature was excessive and its values ranged between 26°C and 40°C in the northern and central districts and between 33°C and 47°C elsewhere.

The absolute maximum temperature for the Republic was 46.6 °C recorded at Kharga on the 30th.

Minimum temperature was similarly subnormal during the first and second decades with the exception of the 4th and 12th and its values ranged between 9°C and 15°C in the northern and central districts and between 14°C and 22°C elsewhere.

In the third decade it was also subnormal apart from the central districts where it was excessively above normal.

The absolute minimum temperature was 6.8 °C recorded at Sakha on the 16th.

PRECIPITATION

This month was almost rainless excluding few drops over scattered localities in Lower Egypt district on the 10th and 27th and 0.3 mms over El Arish on the 6th and 0.8 mms fell at Benha on the 10th.

The maximum daily rainfall was 0.8 mm. reported at Banha on the 10th and it is also the absolute monthly rainfall.

Cairo, April 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

TABLE A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

MAY — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms. Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1013.9	0.0	25.9	−0.3	15.8	−0.7	20.8	20.6	−0.3	15.1	−1.1	52	−7	—	—	—	9.8
Mersa Matruh (A)	1014.5	+1.0	25.3	−0.2	13.2	−1.3	19.2	19.1	−1.0	14.8	−1.5	60	−6	374.4	426.5	87.8	9.0
Alexandria (A)	1013.8	+0.9	26.6	0.0	15.0	−1.5	20.8	20.5	−0.9	16.3	−1.4	63	−4	355.7	425.6	83.6	6.4
Port Said (A)	1013.2	+0.7	24.3	−1.3	18.1	−1.5	21.2	21.2	−0.8	17.4	−1.6	67	−3	340.3	425.6	80.0	6.8
El Arish	1013.2	+1.1	26.0	−0.9	15.7	−0.4	20.8	20.8	−0.8	17.1	−0.7	67	−0	370.6	426.2	87.0	5.2
Ghazza	1013.0	+0.9	24.1	−0.7	15.6	−0.8	19.8	20.2	−0.8	16.6	−1.3	67	−5	357.1	426.6	83.7	5.4
Tanta	1013.0	+0.9	30.2	−1.5	14.1	−0.3	22.2	22.2	−0.4	15.1	−1.3	43	−6	370.4	424.5	87.3	8.8
Cairo (A)	1013.1	+0.9	31.2	−1.1	16.2	−1.2	23.7	23.8	−0.8	15.4	−1.6	35	−8	—	—	—	17.4
Fayoum	1012.7	+0.7	32.6	−1.1	16.2	−1.0	24.4	23.4	−1.6	14.9	−1.1	31	−4	—	—	—	11.8
Minya (A)	1012.4	+1.4	33.4	−1.5	14.1	−2.3	23.8	24.3	−1.4	15.1	−1.5	32	−4	—	—		13.6
Assyout (A)	1011.6	+0.9	34.3	−1.8	17.3	−1.9	25.8	26.2	−1.4	14.3	−1.4	20	−2	—	—	—	20.9
Luxor (A)	1009.8	+1.0	37.4	−1.4	18.1	−2.0	27.8	28.3	−1.8	16.2	−1.2	22	0	—	—	—	12.9
Aswan (A)	1009.5	+0.9	36.9	−1.2	19.2	−1.5	28.0	29.0	−1.0	14.8	−0.5	13	+1	—	—	—	20.5
Siwa	1013.6	+0.7	32.3	−1.9	15.1	−1.5	23.7	24.2	−1.4	13.9	−1.6	25	−4	—	—	—	16.2
Bahariya	1012.6	+0.8	32.8	−1.6	15.4	−1.8	24.1	24.8	−0.9	14.4	−1.5	25	−3	—	—	—	13.1
Farafra	1013.9	+0.3	32.6	−1.7	14.4	−2.3	23.5	23.9	−1.6	13.2	−1.3	22	−1	—	—	—	20.3
Dakhla	1011.8	+1.4	35.2	−1.7	15.7	−3.8	25.4	25.9	−1.7	14.0	−1.0	19	+1	—	—	—	20.5
Kharga	1011.2	+0.8	36.0	−1.7	17.6	−3.3	26.8	27.9	−0.1	14.0	−1.7	18	−4	369.1	414.0	89.0	27.3
Tor	1010.5	+1.2	30.3	−0.4	18.8	−1.7	24.6	24.4	−0.7	18.2	−0.8	52	−2	—	—	—	13.3
Hurghada	1010.3	+1.0	30.0	+0.3	18.4	−2.0	24.2	24.8	−0.8	16.2	−1.8	36	−8	—	—	—	21.4
Quseir	1010.7	+1.6	28.9	−0.4	21.4	−1.4	26.2	25.4	−1.3	17.2	−1.4	40	−4	—	—	—	20.8

TABLE A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

MAY 1965

STATION	Maximum Temperature °C									Grass Min. Temps.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<— 5
Sallum	34.6	3	20.0	16	15	7	0	0	0	15.4	—	21.0	26	12.5	15	0	0	0	0
Mersa Matruh (A)	35.3	27	20.2	2	15	6	1	0	0	—	—	18.0	28	9.1	18	3	0	0	0
Alexandria (A)	40.5	27	22.2	6	18	8	3	1	0	—	—	20.7	27	10.1	8	0	0	0	0
Port Said (A)	30.5	13,27	21.7	16	14	3	0	0	0	17.6	—	22.5	27	14.9	2	0	0	0	0
El Arish	33.8	26	21.5	6	19	6	0	0	0	13.6	—	20.7	28	12.1	7	0	0	0	0
Ghazza	34.0	5	19.9	2	7	3	0	0	0	15.2	—	21.0	28	12.3	7	0	0	0	0
Tanta	42.0	27	25.0	10	30	16	6	1	0	—	-	19.5	30	10.2	3	0	0	0	0
Cairo (A)	42.2	27	24.6	10	30	17	8	1	0	—	—	23.0	27	12.7	1	0	0	0	0
Fayoum	42.0	27	26.7	10	31	19	12	1	0	12.8	—	21.4	30	11.7	3	0	0	0	0
Minya (A)	43.0	27	27.2	2	31	21	14	2	0	-	—	20.6	30	9.0	3	3	0	0	0
Assyout (A)	44.2	27	27.8	10	31	24	14	5	0	15.8	—	24.7	30	12.8	2	0	0	0	0
Luxor (A)	45.8	30	30.7	11	31	31	17	12	1	12.2	—	26.6	31	13.0	12	0	0	0	0
Aswan (A)	44.4	30	31.1	10	31	31	17	12	0	—	—	25.4	28	13.6	11,12	0	0	0	0
Siwa	44.2	29	25.0	9	30	19	11	2	0	12.7	—	24.9	29	10.2	10	0	0	0	0
Bahariya	41.1	26	27.0	10	31	18	13	3	0	14.2	—	23.5	30	9.7	2	1	0	0	0
Farafra	42.3	29	26.1	9	31	16	11	3	0	13.5	—	22.7	30	8.6	11,12	4	0	0	0
Dakhla	45.5	29	29.1	10	31	26	14	6	1	—	—	25.5	31	8.5	11	4	0	0	0
Kharga	46.6	30	29.5	10	31	30	14	8	1	15.4	—	26.6	29	10.6	11	0	0	0	0
Tor	41.4	30	24.8	3	29	17	3	1	0	—	—	23.0	29	18.0	2	0	0	0	0
Hurghada	37.3	28	26.1	3	31	13	3	0	0	16.8	—	24.1	31	13.4	4	0	0	0	0
Quseir	35.8	30	25.9	11	31	9	2	0	0	18.3	—	29.0	29	14.6	3,4	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

MAY — 1965

Station	Mean Sky Cover (Oct)					Rainfall (mms)										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	1.5	2.7	2.8	2.6	2.4	0.0	— 3.3	0.0	—	0	0	0	0	0	0	0
Mersa Matruh (A)	1.0	2.5	2.1	1.9	1.7	0.0	— 2.5	0.0	—	0	0	0	0	0	0	0
Alexandria (A)	1.3	2.8	2.3	2.2	2.0	0.0	— 2.0	0.0	—	0	0	0	0	0	0	0
Port Said (A)	1.0	1.5	0.8	0.4	0.9	0.0	— 3.0	0.0	—	0	0	0	0	0	0	0
El Arish	1.8	2.3	0.9	1.6	1.2	0.3	— 3.0	0.3	6	0	1	0	0	0	0	0
Ghazza	2.9	2.1	0.9	1.5	1.4	0.0	— 3.0	0.0	—	0	0	0	0	0	0	0
Tanta	—	1.0	1.2	0.5	—	0.0	— 3.7	0.0	—	0	0	0	0	0	0	0
Cairo (A)	0.8	1.6	1.7	1.1	1.3	0.0	— 0.7	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.3	0.4	0.1	—	0.0	— 1.3	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.2	0.7	0.4	0.3	0.3	0.0	— 0.6	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.1	0.2	0.5	0.2	0.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.5	0.7	0.9	0.8	0.8	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.4	1.0	1.4	1.0	0.9	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	4.5	0.8	1.9	1.8	1.1	0.0	— 1.8	0.0	—	0	0	0	0	0	0	0
Bahariya	0.0	0.7	1.0	0.9	0.6	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.1	0.3	0.9	—	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Dakhla	0.3	0.6	0.6	0.7	0.5	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Kharga	0.3	0.7	0.9	0.7	0.7	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Tor	0.3	0.6	0.6	0.5	0.5	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Hurghada	0.6	0.8	0.9	0.6	0.7	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Quseir	0.7	1.0	1.3	1.0	1.0	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0

TABLE A 4 - DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

MAY—1965

Station	Precipiation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sallum	0	0	0	0	0	0	2	1	1	0	4	0	0	13	2
Mersa Matruh (A)	0	0	0	0	0	0	4	1	0	0	2	0	0	22	1
Alexandria (A)	0	0	0	0	0	0	1	2	1	0	0	0	0	17	0
Port Said (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
El Arish	1	0	0	0	0	0	4	0	1	0	3	0	0	19	0
Ghazza	0	0	0	0	0	0	4	1	0	0	2	0	0	17	0
Tanta	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo	0	0	0	0	0	0	4	3	7	0	5	0	0	23	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	0	0	3	0	0	29	0
Assyout (A)	0	0	0	0	0	0	0	0	10	0	9	0	0	30	0
Luxor (A)	0	0	0	0	0	0	0	0	10	0	8	0	0	26	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	11	0	0	24	0
Siwa	0	0	0	0	0	0	0	0	2	0	2	0	0	21	0
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Farafra	0	0	0	0	0	0	0	0	0	0	1	0	0	29	0
Dakhla	0	0	0	0	0	0	0	0	3	0	2	0	0	29	0
Kharga	0	0	0	0	0	0	0	0	0	0	7	0	0	28	0
Tor	0	0	0	0	0	0	3	0	3	0	5	0	0	30	0
Hurghada	0	0	0	0	0	0	0	0	0	0	2	0	1	26	0
Quseir	0	0	0	0	0	0	0	0	2	0	4	0	0	24	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MAY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
allum	117	3	0	1—10	37	105	65	59	15	6	4	1	11	23	69	51	446
				11—27	14	13	0	0	0	0	14	20	15	20	48	34	178
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	51	118	65	59	15	6	18	21	26	43	117	85	624
Mersa Matruh (A)	3	6	0	1—10	60	81	19	17	29	35	14	18	28	39	69	43	452
				11—27	97	23	11	7	26	10	15	15	8	2	5	62	281
				28—47	0	0	0	0	0	0	0	2	0	0	0	0	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	157	104	30	24	55	45	29	35	36	41	74	105	735
Alexandria (A)	45	0	0	1—10	106	30	29	12	28	27	15	22	5	27	45	97	443
				11—27	42	24	5	4	5	5	3	3	1	35	83	46	256
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	148	54	34	16	33	32	18	25	6	62	128	143	699
Port Said . . (A)	1	2	0	1—10	169	44	36	19	10	12	12	11	19	30	12	32	406
				11—27	140	12	30	34	8	2	4	1	8	14	53	28	334
				28—47	0	0	0	0	0	0	0	0	0	1	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	309	56	66	53	18	14	16	12	27	45	65	60	741
El Arish.	9	4	0	1—10	116	67	19	29	36	86	26	44	54	15	68	137	697
				11—27	5	3	3	0	0	0	0	0	3	7	9	3	33
				28—47	1	0	0	0	0	0	0	0	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	122	70	22	29	36	86	26	44	57	22	77	140	731
Ghazza	1	51	14	1—10	39	31	40	30	25	89	21	11	18	43	53	51	451
				11—27	33	35	0	0	1	13	2	2	9	47	40	45	227
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	72	66	40	30	26	102	23	13	27	90	93	96	678
Tanta	52	7	0	1—10	103	44	37	37	48	13	18	22	53	67	86	82	610
				11—27	24	21	2	1	3	0	0	1	0	5	9	9	75
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	127	65	39	38	51	13	18	23	53	72	95	91	685
Cairo . . . (A)	7	15	25	1—10	43	54	83	63	31	7	6	4	6	17	46	51	411
				11—27	30	53	60	34	15	15	14	2	10	8	11	34	286
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	73	107	143	97	46	22	20	6	16	25	57	85	697
Fayoum	28	11	22	1—10	309	103	20	8	2	14	21	8	17	24	58	63	647
				11—27	23	10	0	0	0	0	0	2	0	1	0	0	36
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	332	113	20	8	2	14	21	10	17	25	58	63	683

TABLE A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MAY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					346 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya	41	51	0	1—10	116	39	3	5	14	27	9	7	1	9	22	137	389
				11—27	105	23	1	0	0	0	2	3	1	5	2	121	263
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	221	62	4	5	14	27	11	10	2	14	24	258	652
Asyout	6	0	0	1—10	4	6	8	18	24	8	15	8	37	164	117	64	473
				11—27	4	13	0	0	1	3	3	1	4	19	89	128	265
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	8	19	8	18	25	11	18	9	41	183	206	192	738
Luxor	13	1	0	1—10	30	63	39	26	16	24	71	55	21	35	66	203	649
				11—27	4	15	1	0	0	0	0	0	0	1	4	56	81
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	34	78	40	26	16	24	71	55	21	36	70	259	730
Aswan	1	0	0	1—10	296	132	9	0	0	0	0	0	4	9	25	44	519
				11—27	164	32	0	0	0	0	0	0	0	0	14	14	224
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	460	164	9	0	0	0	0	0	4	9	39	58	743
Siwa	51	0	0	1—10	44	53	47	82	67	31	19	20	21	65	69	16	534
				11—27	15	2	5	9	29	10	10	6	9	15	39	10	159
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	59	55	52	91	96	41	29	26	30	80	108	26	693
Dakhla	1	13	0	1—10	110	91	50	35	27	28	39	24	26	50	74	137	691
				11—27	20	1	0	0	0	0	0	0	0	1	0	13	35
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	130	92	50	35	27	28	39	24	26	51	75	150	727
Tor	0	0	162	1—10	20	3	4	5	5	12	3	1	6	13	4	0	76
				11—27	0	0	0	0	0	18	1	1	66	346	41	2	475
				28—47	0	0	0	0	0	0	0	0	7	24	0	0	31
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	20	3	4	5	5	30	4	2	79	383	45	2	582
Hurghada . . .	12	2	0	1—10	6	11	8	5	17	11	1	5	4	21	44	19	152
				11—27	76	9	0	2	14	16	0	0	1	55	159	212	534
				28—47	0	0	0	0	0	0	0	0	0	0	16	28	44
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	82	20	8	7	31	27	1	5	5	76	219	259	730
Quseir	17	0	44	1—10	74	28	16	2	8	19	15	2	5	25	92	145	431
				11—27	108	12	0	0	0	3	0	0	0	1	4	114	242
				28—47	9	0	0	0	0	0	0	0	0	0	0	1	10
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	191	40	16	2	8	22	15	2	5	26	96	260	683

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.— MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

MAY — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	27	* 1015mb	* 1020mb	* 1009mb	27	15.6	20.4	11.8	27	11.4
	1000	27	151	195	106	27	17.9	24.1	12.3	27	10.3
	850	27	1533	1569	1492	27	13.2	21.6	3.7	21	— 2.7
	700	27	3134	3182	3076	27	2.6	8.4	— 5.9	15	— 8.9
	600	27	4361	4422	4276	27	— 5.4	— 1.0	—13.6	11	—14.6
	500	27	5764	5844	5641	27	—15.8	—10.7	—20.9	8	—21.7
	400	27	7404	7520	7259	27	—28.7	—23.0	—33.4	9	—33.5
	300	27	9402	9559	9231	27	—43.4	—39.4	—46.7	—	—
	200	26	12044	12230	11870	26	—57.1	—51.8	—65.6	—	—
	150	35	13867	14053	13731	25	—58.4	—54.0	—61.4	—	—
	100	25	16374	16573	16237	25	—64.4	—58.9	—72.7	—	—
	70	21	18562	18750	18400	21	—63.2	—58.1	—63.5	—	—
	60	20	19513	19669	19343	20	—61.4	—56.6	—66.5	—	—
	50	20	20652	20779	20483	20	—58.5	—54.8	—62.5	—	—
	40	14	22068	22179	21893	14	—54.7	—52.6	—57.9	—	—
	30	13	23922	24016	23739	13	—51.8	—47.5	—55.4	—	—
	20	4	26573	26663	26408	4	—49,7	—47,2	—52,5	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	30	* 996mb	* 1002mb	* 989mb	30	18.9	28.2	14.1	30	6.9
	1000	30	112	157	52	4	16.0	18.8	14.4	4	4.4
	850	30	1490	1532	1441	30	14.8	24.0	5.6	23	— 3.7
	700	30	3109	3166	3051	30	5.1	10.8	— 1.8	11	—12.7
	600	30	4349	4413	4277	30	— 3.6	— 0.2	— 8.7	8	—15.7
	500	30	5760	5843	5671	30	—13.5	— 9.8	—18.4	5	—23.7
	400	30	7416	7516	7299	30	—29.9	—23.5	—30.6	5	—35.3
	300	30	9432	9543	9275	30	—41.1	—36.2	—44.7	—	—
	200	30	12088	12220	11951	30	—55.8	—49.7	—63.8	—	—
	150	39	13904	14076	13752	30	—60.2	—55.2	—66.0	—	—
	100	28	16391	16600	16209	28	—67.1	—60.4	—72.2	—	—
	70	23	18542	18750	18380	23	—66.0	—62.8	—71.0	—	—
	60	20	19474	19666	19306	20	—63.5	—57.0	—69.5	—	—
	40	18	20618	20773	20428	18	—59.5	—53.0	—62.5	—	—
	50	14	22044	22181	21891	14	—55.1	—53.1	—59.5	—	—
	30	9	23899	24022	23721	9	—52.7	—49.7	—54.9	—	—
	20	7	26532	26655	26358	7	—47.8	—44.7	—51.4	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the irasodeonde s

Note : Climatological upper air data for Aswan are missing since number of days of radiosonde observationts at this station are less than the permissible number needed for calculating or processing monthly values.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. (*contd.*)—MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

MAY — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	27	1015*	1021*	1009*mb	27	23.3	33.8	18.5	27	13.4
	1000	27	156	207	107	27	21.7	33.1	16.5	27	10.4
	850	27	1547	1588	1503	27	14.2	24.5	5.2	23	— 2.6
	700	27	3136	3217	3074	27	4.2	9.4	— 3.9	12	—11.0
	600	27	4391	4467	4288	27	— 4.3	— 0.5	—11.0	11	—15.6
	500	27	5801	5884	5661	27	—14.3	— 9.1	—21.0	8	—21.5
	400	27	7453	7545	7261	27	—27.3	—23.6	—34.9	2	—30.4
	300	27	9458	9575	9206	27	—42.4	—39.2	—48.5	—	—
	200	26	12101	12237	11861	26	—55.8	—49.6	—65.5	—	—
	150	25	13927	14093	13727	25	—57.8	—53.2	—62.1	—	—
	100	24	16458	16600	16312	24	—62.7	—57.3	—69.2	—	—
	70	19	18659	18780	18560	19	—62.4	—56.2	—72.6	—	—
	60	14	19639	19741	19535	14	—58.2	—54.1	—62.6	—	—
	50	12	20806	20911	20691	12	—54.9	—52.6	—58.3	—	—
	40	12	22247	22358	22114	12	—50.9	—47.0	—54.0	—	—
	30	10	24138	24252	23976	10	—47.8	—42.7	—50.6	—	—
	20	4	26873	26932	26814	4	—43.8	—40.9	—47.5	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	996*mb	1000*mb	989*mb	31	30.0	40.0	22.8	31	3.1
	1000	31	106	140	52	31	26.0	28.8	24.5	3	1.5
	850	31	1509	1535	1463	31	15.9	25.1	7.8	27	— 2.9
	700	31	3124	3177	3068	31	5.6	12.2	— 3.8	12	—11.2
	600	31	4365	4440	4276	31	— 2.6	4.0	—10.0	9	—15.9
	500	31	5782	5880	5666	31	—13.4	— 7.7	—18.1	8	—24.4
	400	31	7441	7570	7296	31	—25.8	—21.5	—30.2	4	—35.6
	300	31	9462	9619	9278	31	—40.6	—36.4	—44.5	—	—
	200	30	12127	12319	11944	30	—55.3	—47.6	—60.8	—	—
	150	29	13947	14179	13765	29	—59.3	—52.5	—66.5	—	—
	100	29	16440	16679	16257	29	—66.8	—60.8	—73.4	—	—
	70	25	18480	18890	18380	25	—64.8	—60.8	—68.0	—	—
	60	20	19556	19768	19394	20	—60.8	—56.3	—66.0	—	—
	50	15	20684	20859	20532	15	—58.9	—53.0	—66.1	—	—
	40	9	22097	22296	21939	9	—55.0	—50.7	—64.5	—	—
	30	6	23980	24178	23782	6	—50.4	—47.4	—54.1	—	—
	20	1	25598	—	—	1	—54.3	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

MAY — 1965

	Station	Freezing level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 UT		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A)	3432 (27)	676 (27)	-7.7 (15)	4230	613	—	2300	770	-5.0	11831 (26)	206 (26)	-56.9 (26)	14660	130	-63.6	9500	218	-46.6	9000	274	318	134
	Helwan . . .	3773 (30)	648 (30)	-14.7 (12)	4460	588	—	2480	653	-8.2	12809 (27)	185 (27)	-59.8 (27)	17590	80	-69.7	10260	267	-48.8	12800	178	240	166
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A)	3725 (27)	657 (27)	-11.5 (14)	4540	591	—	2560	746	—	12299 (25)	197 (25)	-57.7 (25)	16546	100	-63.1	9660	282	-46.8	12100	202	270	156
	Helwan . . .	3911 (31)	636 (31)	-13.9 (9)	4950	562	-19.1	2500	752	-4.4	12697 (29)	185 (29)	-62.0 (29)	16580	100	-69.8	11060	235	-50.6	10825	240	290	150

N = The number of cases the element has been observed during the month.

TABLE B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A)— MAY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000 –360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	1	5	0	—	1	7	0	—	0	—	4	5	2	18	1	2	3	3	4	4	5	9	5	13	1	27	8
	1000	3	6	1	12	1	6	2	12	2	14	1	23	1	2	1	30	0	—	0	—	7	13	8	10	0	27	12
	850	3	17	3	12	0	—	2	12	0	—	0	—	1	26	1	22	0	—	6	24	8	21	3	15	0	27	19
	700	1	5	2	11	0	—	0	—	0	—	0	—	0	—	3	16	2	29	7	26	7	26	5	20	0	27	22
	600	1	2	1	17	1	13	0	—	0	—	0	—	0	—	1	29	1	45	12	31	8	29	2	25	0	27	28
	500	1	19	1	22	0	—	0	—	0	—	0	—	0	—	0	—	5	41	12	32	7	35	1	13	0	27	33
	400	1	20	0	—	1	32	0	—	0	—	0	—	0	—	0	—	5	43	11	46	8	37	1	39	0	27	41
	300	1	20	1	38	0	—	0	—	0	—	0	—	0	—	0	—	4	50	9	54	9	65	1	21	0	25	54
	200	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	69	11	49	3	50	1	11	0	19	43
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	60	10	42	1	53	2	9	0	14	39
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	37	3	19	1	31	0	—	—	6	27
	70	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	7	11	6	8	1	10	1	10	1	16	1	11	1	16	0	—	0	—	1	12	1	20	7	13	0	27	12
	1000	5	7	4	8	0	—	2	12	0	—	0	—	1	16	0	—	0	—	1	7	3	29	11	13	0	27	12
	850	4	16	2	10	0	—	0	—	1	26	1	10	1	12	0	—	5	15	3	20	5	16	5	13	0	27	15
	700	2	8	2	10	0	—	0	—	0	—	0	—	0	—	1	21	2	33	7	24	7	24	6	23	0	27	22
	600	0	—	1	9	2	11	0	—	0	—	0	—	0	—	1	14	3	39	8	32	10	22	2	26	0	27	26
	500	1	6	1	18	1	28	0	—	0	—	0	—	0	—	0	—	4	30	10	41	10	30	0	—	0	27	33
	400	2	19	1	23	0	—	0	—	0	—	0	—	0	—	0	—	3	45	15	42	4	45	2	24	0	27	39
	300	0	—	2	31	0	—	0	—	0	—	0	—	0	—	0	—	4	52	15	51	3	85	2	32	0	26	54
	200	2	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	76	12	54	5	54	0	—	0	21	49
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	40	2	40	0	—	0	13	40
	100	0	—	0	—	0	—	0	—	0	—	0	—	1	12	2	13	2	12	4	15	2	24	0	—	0	11	16
	70	0	—	0	—	1	10	1	13	1	5	2	8	0	—	0	—	1	5	0	—	0	—	0	—	0	6	8
	60	0	—	0	—	0	—	2	16	1	12	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	4	12
	50	0	—	0	—	0	—	2	17	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	18
	40	0	—	0	—	0	—	1	10	0	—	0	—	0	—	1	8	0	—	0	—	0	—	0	—	0	2	9
	30	0	—	0	—	1	9	1	31	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	20
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been obeserved for all directions during the month.

TABLE B 3 (*contd.*)— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — MAY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	3	9	7	9	14	10	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	3	9	2	30	9
	1000	1	10	0	—	2	8	1	13	0	—	0	—		—	0	—	0	—	0	—	0	—	0	—	0	4	10
	850	5	11	3	15	3	15	2	12	0	—	0	—	1	23	1	13	1	23	4	18	7	19	3	23	0	30	17
	700	3	15	1	10	0	—	1	18	0	—	0	—	0	—	0	—	5	23	7	22	10	23	3	20	0	30	31
	600	0	—	0	—	0	—	0	—	0	—	1	7	0	—	1	34	4	32	13	28	7	32	4	20	0	30	28
	500	0	—	1	5	0	—	0	—	0	—	0	—	0	—	0	—	8	36	12	35	5	30	4	23	0	30	32
	400	1	21	0	—	0	—	0	—	0	—	1	8	0	—	0	—	10	44	12	43	5	53	1	23	0	30	42
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	44	11	71	10	54	4	55	3	29	0	29	57
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	26	7	78	11	60	4	92	0	—	0	23	70
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	44	5	73	8	68	1	146	0	—	0	16	71
	100	0	—	0	—	0	—	0	—	0	—	0	—	1	11	2	34	3	57	2	43	0	—	0	—	0	8	42
	70	0	—	0	—	0	—	0	—	0	—	1	6	0	—	0	—	1	38	1	11	0	—	0	—	0	3	18
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	10	0	—	0	—	0	1	10
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	9	0	—	0	—	0	1	9
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	4	16	6	13	3	9	0	—	0	—	0	—	1	7	3	9	1	8	2	8	8	10	3	14	0	31	11
	1000	1	3	1	13	1	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	7
	850	2	15	8	12	4	13	0	—	1	3	0	—	0	—	3	21	0	—	5	9	4	15	4	14	0	31	13
	700	3	7	1	6	0	—	1	1	1	7	1	8	0	—	2	36	4	24	8	20	5	14	5	20	0	31	17
	600	1	4	1	32	0	—	0	—	0	—	0	—	0	—	4	12	3	32	14	29	8	19	0	—	0	31	24
	500	0	—	1	5	0	—	0	—	0	—	0	—	0	—	1	10	9	28	12	33	8	30	0	—	0	31	29
	400	1	24	0	—	0	—	0	—	0	—	1	25	0	—	0	—	10	48	17	46	2	30	0	—	0	31	44
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	66	9	66	13	43	4	82	0	—	0	29	58
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	6	76	13	64	1	33	0	—	0	21	65
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	14	5	61	11	82	1	90	0	—	0	19	70
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	49	4	75	6	58	0	—	0	—	0	12	62
	70	0	—	0	—	0	—	2	22	1	13	0	—	3	22	0	—	1	120	1	15	0	—	0	—	0	8	32
	60	0	—	0	—	0	—	2	16	0	—	1	14	1	20	1	52	1	16	0	—	0	—	0	—	0	6	22
	50	0	—	0	—	0	—	2	32	1	21	1	15	0	—	0	—	0	—	1	6	0	—	0	—	0	5	21
	40	0	—	0	—	0	—	2	16	2	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	22
	30	0	—	0	—	0	—	0	—	1	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	11
	20	—	—	—	—	—	—	—	—		—	—	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR — MAY 1965

This month was cool and slightly dry as compared with the normal values of air temperature and relative humidity for May. The mean daily air temperature at 2 metres above ground and the mean daily relative humidity were below normal by 1.3°C and 2% respectively. Total rainfall was 0 mm. (2.5 mms below normal). The month was characterized by three pronounced heat waves with peaks on 4th., 12th and 27th. The third heat wave was the most intense and was associated with the absolute maximum air temperature at 2 metres above ground on the 27th.

The extreme maximum soil temperatures at different depths except 2 and 5 cms depths were lower than the corresponding values of May 1964 by 1.8 to 0.5° at 1 and 10cms depths respectively. The extreme minimum soil temperatures from surface down to 2 cms depths were lower than the corresponding values of May 1964 by 0.3°C at 0.3 cm depth to 0.1 at 1 cm depth. The values at 5 cms depth and deeper layers were higher than the corresponding values of May 1964 by 1.0°C at 20 cms depth to 0.2°C at 10 and 100 cms depths.

Mean daily wind speed at 2 metres above ground was 0.1 m/sec higher than the corresponding value of May 1964. Mean daily class A pan evaporation was higher by 3.27 mms than the corresponding value of last May. Total sunshine duration was higher by 30.3 hours than the corresponding value of last May.

TAHRIR — MAY 1965

Comparing with May last year most of the elements were practically equal. The deviations in mean air temperature at 2 metres height above ground, relative humidity and vapour pressure were + 0.1°C, ± 0% and + 0.1 mm respectively. The month was characterized by three pronounced heat waves with peaks on 4th, 13th and 27. These heat waves looked more like summer waves than khamsin depression type, with no sandistorms, typical could cover, or strong winds. The third heat wave was the most intense and of long duration. It was associated with the extreme maximum air temperature, the extreme minimum relative humidity and the highest values of Piche and water pan evaporation.

The extreme maximum soil temperatures were lower than the corresponding values of May 1964 by 4°C in the top 5 cms, the difference declining gradually to vanish at 50 cms depth, then increasing to + 0.9°C at 1 metre depth. The extreme minimum soil temperatures at different depths were higher than the corresponding values of May 1964 by amounts ranging from 0.6 to 2.3°C.

Mean daily wind speed at 2 metres above ground was 0.1 m/sec lower than the corresponding value of May 1964. Mean daily Piche and pan evaporation were lower than the corresponding values of last May by 1.2 mms and 0.76 mm respectively. Total actual duration of bright sunshine was 2 hours higher than the corresponding value of May 1964.

GIZA — MAY 1965

This month was slightly cool and dry as compared with the normal values of air temperature and relative humidity for May. The mean daily air temperature at 2 metres above ground and the mean daily relative humidity were below normal by 0.2°C and 3% respectively. Total rainfall was zero (1.6 mms below normal). The month was characterized by three pronounced heat waves with peaks on 4, 13 and 27th. The third heat wave, the most excessive was associated with the absolute maximum air temperature at 2 metres above ground and the lowest value of minimum relative humidity on the 27th.

The extreme maximum soil temperatures down to 50 cms depth in the dry field were lower than the corresponding values of last May 1964 by 4.4°C at 5 cms depth to 0.2°C at 50 cms depth. At 100 cms depth the extreme maximum soil temperature was 0.5°C higher than the corresponding value of last May. The extreme minimum soil temperature at 2 cms depth and deeper layers were higher than the corresponding values of last year by 1.2°C to 0.5°C at 10 cms and 2 cms depths respectively. At 0.3 cm depth the extreme minimum soil temperature was equal to that of last May while at 1 cm depth the value was 0.1°C lower than the corresponding value of May 1964.

Mean daily wind speed was the same as the corresponding value of May 1964. Mean daily Piche evaporation and water pan evaporation were lower than the corresponding values of last May by 0.5 and 0.47 mm respectively, while mean daily, potential evporation & potential evopotranspiration were higher by 0.3 and 0.1 mm respectively. Total sunshine duration was 1.3 hours less than the corresponding value of May 1964.

KHARGA — MAY 1965

This month was cooler than normal. The mean daily air temperature at 2 metres above ground was same as that of May 1964 and both were below normal by 1.2°C. The mean daily relative humidity was 3% lower than the corresponding value of May 1964. Total rainfall was Zero (0.3 mm below normal). The month was characterized by a prolonged excessive heat wave between the 22nd. and the end of the month with a peak on the 30th. which was associated with the absolute maximum air temperature at 2 metres above ground.

The extreme maximum soil temperatures at depths between 1 and 10 cms inclusive were lower than the corresponding values of May 1964 by 0.3°C to 0.1°C at 2 cms and 5 cms depths respectively. At 0.3 cm depth the value was higher by 3.0 °C and at 20, 50 and 100 cms depths the values were higher by 0.2, 0.7 and 0.7 °C respectively than the corresponding values of last May. The extreme minimum soil temperatures at depths from surface down to 20 cms were lower than the corresponding values of May 1964 by 2.7°C at 1 cm depth to 0.7°C at 10 cms depth. At 50 and 100 cms depths the values were higher by 0.3°C and 0.6°C respectively than the corresponding values of last May.

Mean daily wind speed at 2 metres above ground was 0.2 m/sec lower than the corresponding value of May 1964.

Mean daily Piche evaporation was higher than the corresponding value of May 1964 by 4.0 mms while mean daily Class A pan evaporation was lower by 1.07 mms. Total actual duration of bright sunshine was lower by 17.2 hours than the corresponding value of May 1964.

TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND
MAY — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	25.2	12.6	18.7	15.9	20.9	24.0	24.0	24.0	23.5	18.8	7.9	1.5	0.6	0.0	0.0	0.0
Tahrir	31.3	14.4	22.3	18.3	25.3	24.0	24.0	24.0	24.0	20.7	14.3	7.3	3.7	0.7	0.1	0.0
Giza	31.9	14.7	23 4	20.0	25.9	24.0	24.0	24.0	24.0	22.2	15.7	9.2	4.3	0.3	0.2	0.0
Kharga	36.0	17.6	28.1	24.4	30.5	24.0	24.0	24.0	24.0	23.6	20.8	15.4	8.6	3.9	1.1	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS
MAY — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	35.8	27	20.2	1	18.1	28	8.6	11	5.3	11	—	—
Tahrir	43.2	27	25.4	2	20.2	27	9.3	3	7.2	3	—	—
Giza	42.4	27	26.0	10	22.1	30	10.3	3	6.4	2	5.0	2
Kharga	46.6	30	29.5	10	26.6	29	10.6	11	8.8	11	—	—

TABLE C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES, EVAPORATION & RAINFALL
MAY — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
El Kasr	570.2	354.9	426.1	83	—	—	69	61	10	4	11.8	12.4	17.3	29	4.0	4	12.3	9.59	0.0	0.0	—
Tahrir,	706.8	375.0	424.6	88	1.9	5.4	55	26	8	27	10.0	7.8	16.2	30	9.3	4	17.4	11.09	0.0	0.0	—
Giza ,,	675.1	362.1	423.5	86	0.5	2.3	47	23	8	27	9.0	7.3	15.8	31	4.3	3	18.9	11.05	0.0	0.0	—
Kharga	641.9	369.1	414.0	89	0	0	20	12	5	4	5.1	5.0	9.8	19	2.1	4,5	38.8	19.39	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

MAY — 1965

STATION	Highest (H) Lowest (L)	Extreme soil tempetature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms,)									
		0,3	1	2	5	10	20	50	100	200	300	0,3	1	2	5	10	20	50	100	200	300
El Kasr	H	50.6	44.0	43.7	32.8	31.7	27.4	24.4	22.5	20.8	—	—	—	—	—	—	—	—	—	—	—
	L	9.5	10.1	10.5	12.9	15.8	19.0	21.1	20.5	19 7	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	56.6	55.4	45.6	45.6	39.4	34.2	30.4	27.7	24.7	23.6	—	—	—	—	—	—	—	—	—	—
	L	11.0	11.2	12.7	16.2	19.1	21.9	23.9	24.2	22.8	22.1	—	—	—	—	—	—	—	—	—	—
Giza	H	67.0	67.0	61.0	41.8	35.9	31.4	29.6	27.1	24 6	23.6	35.0	29.5	28.6	27.0	25.5	24.6	23.3	21.6	20.8	—
	L	9.0	10.0	11.0	18.6	22.9	25.4	25.8	24.6	23.2	23.2	14.6	15.8	16.0	17.6	19.3	20.5	20.5	19.9	19.8	—
Kharga	H	70.0	60.0	56.5	51.0	42.0	36.0	33.0	29.5	27.2	27.0	—	—	—	—	—	—	—	—	—	—
	L	13.0	14.5	16.0	18.0	23.8	26.4	27.7	27.2	25.9	26.2	—	—	—	—	—	—	—	—	—	—

TABL C 5.—SURFACE WIND

MAY — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	Value (knots)	Date
El Kasr	3.8	2.8	5.1	—	—	—	—	—	—	—	—	—
Tahrir	3.2	2.4	4.3	31	24	9	2	0	0	0	33	27
Giza	2.8	2.3	3.4	31	20	7	0	0	0	0	31	19
Kharga	4.3	3.5	5.4	—	—	—	—	—	—	—	—	—

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MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 6

JUNE, 1965

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METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties, the U.A.R. Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in the U.A.R.

Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

JUNE — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms. Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1011.7	— 1.0	31.5	+ 1.0	20.7	+ 0.9	26.1	25 6	+ 0.9	19 3	— 0 4	53	— 8	—	—	—	11.5
Meiza Matruh (A)	1012.1	— 0 5	29.8	+ 1.8	18.7	+ 0.5	24 2	24.1	+ 0.8	19 4	— 0 2	62	— 7	355.8	425.4	83.6	8 8
Alexandria . . (A)	1011.1	— 0 6	31.4	+ 3 0	20.0	+ 0.2	25 7	25 1	+ 0.9	20.7	+ 0 2	66	— 5	342.2	424.1	80.7	7.4
Port Said . . (A)	1010 4	— 0 5	29 2	+ 0.7	22.9	+ 0.5	26 0	25 7	+ 0.7	22 0	+ 0 6	71	— 0	353 5	424.1	83 4	6 8
El Arish	1010.5	— 0.1	28.7	— 0.2	19.6	+ 0.7	24.2	24.9	+ 0.2	21.7	+ 0.5	74	+ 2	367.8	424.2	86 7	4.8
Ghazza	1010.2	— 0.4	27.4	+ 0.3	20.2	+ 0.7	23 8	24.6	+ 0.6	21.3	+ 0.2	73	— 3	356.0	425.4	83.7	4.7
Tanta	1010 2	— 1 6	35 8	+ 1.8	19.3	+ 1.9	27 6	27.0	+ 1.1	19.5	— 0 1	45	— 8	367.2	422.4	86.9	10 0
Cairo . . . . (A)	1010.4	— 0.4	36 6	+ 1.9	21.0	+ 0.9	28.8	28 5	+ 1 3	19.0	— 0 6	37	— 9	—	—	—	22 9
Fayoum	1010 0	+ 0.2	38.7	+ 1 7	21 8	+ 1.9	30.2	30.1	+ 1.2	19 6	+ 0.1	33	— 4	—	—	—	14.4
Minya . . . (A)	1009.4	— 0.3	37.8	+ 1.4	19.1	+ 0.1	28 4	28 8	+ 1 0	19 0	0.0	35	— 4	—	—	—	15 0
Assyout . . . (A)	1008.8	— 0.1	39.7	+ 2.0	22.6	+ 1.0	31.2	31.3	+ 1.3	18 2	+ 0 1	22	— 4	—	—	—	21.2
Luxor . . . . (A)	1007.0	+ 0.3	41.8	+ 0.8	22.8	+ 0.2	32 3	32 7	+ 0.1	19.2	— 0 1	23	0	—	—	—	14 4
Aswan . . . . (A)	1006.6	+ 0.5	42 5	+ 0.3	23.2	— 1.0	32.8	34 1	+ 0.2	17.6	+ 0 1	12	0		—	—	22.1
Siwa	1011.2	— 0.6	38.2	+ 0.9	20.7	+ 1.3	29.4	29.9	+ 0.6	17 8	— 0.5	25	— 5	—	—	—	18 6
Bahariya	1009.7	— 0.2	39.1	+ 2.6	21.2	+ 1.7	30.2	30 6	+ 1·4	18.0	— 0.4	23	— 7	—	—	—	17 0
Farafra	1010.6	— 0 9	39.0	+ 1.3	20.6	+ 0.4	29.8	30.1	+ 0.6	17.2	+ 0 3	22	0	—	—	—	24 9
Dakhla	1008.7	— 0.1	39.7	+ 1.2	22.5	0.0	31.1	31.9	+ 0.8	17.2	0 0	16	— 2	—	—	—	26.2
Kharga	1008.2	+ 0.4	41.2	+ 2.0	23.1	— 0.1	32.1	33 2	+ 0.7	17.0	— 0.1	17	— 3	372.9	409.8	90.9	31 3
Tor	1007.6	+ 0.6	34.9	+ 1.4	22.3	— 1.0	28.6	28.2	+ 0.5	21.8	+ 0.2	55	— 1	—	—	—	12.4
Hurghada	1007.4	+ 0.6	34.4	+ 2.5	23.1	— 0.5	28.8	29.2	+ 0.6	19.6	— 0.8	36	— 8	—	—	—	23.1
Quseir	1008.0	+ 0.9	32.6	+ 0 2	24.6	— 0.9	28.6	29.0	— 0.2	20.4	— 0.4	42	— 2	—	—	—	20 3

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Note : For explanatory notes on tables please refer to volume 8 number 1 (January 1965).

GENERAL SUMMARY OF WEATHER CONDITIONS

JUNE 1965

Excessively hot and dry during the 1st half in general. Mild and humid in the northern parts and hot in the middle and southern parts the 2nd half. Occasional rising sand associating transits of disturbances. Heavy rain over Matruh on the 19th and 20th.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather during the first half of the month was remarkably hot in general, particularly excessive in the inland middle and southern parts. During the 2nd half, weather was mild in the northern & middle parts, hot elsewhere. Abnormal rain fell over the western coast between Sallum & Ras El Hikma on the 19th & 20 th. In particular 47 mms fell over Mersa Matruh on the 20th which is a record of the daily rain at Matruh since 1944.

Few occasions of rising sand were reported over scattered localities. Early morning mist or fog developed over scattered localities in Delta, Canal Cairo areas for few occasions.

PRESSURE DISTRIBUTION

The prevailing pressure distribution over the surface map this month can be summarized in the following surface pressure systems.

— The Atlantic Anticyclonic ridge over West Europe & North Africa.

— The Siberian Anticyclonic ridge over Caspian & Black Sea vicinities.

— The Monsoon low pressure systems over Arabia & Sudan and Africa Great Sahara.

— Transitory secondary depressions along North Africa.

At the beginning of the month, a desert depression developed south of the Atlas mountains. Cyclogenesis was taking place over the Gulf of Genewa while the desert depression moved slowly eastwards with no appreciable change in intensity. On the 4th, the secondary Mediterranean depression moved NE wards and deepened while the desert depression proceeded eastwards along the Mediterranean coast while rapidly filling and crossed U.A.R. area round the 6th.

The second desert depression appeared also south of the Atlas mountains round the 7th and rapidly moved eastwards crossing northern parts of the U.A.R. round the 10th. A third secondary depression was moving in its east track crossed the Country on the 13th.

This was followed by a rapid rise in the M.S.L. pressure which reached its maximum value for the whole month on 15th (4-5 mbs above normal).

The 4th desert depression was borne also south of the Atlas mountains round the 14th and on the 17th it was attached to Central Mediterranean low pressure system. The whole system moved SE wards while deepening and crossed East Mediterranean on the 19th while the M.S.L. pressure attained its minimum value for the whole month in the northern and central districts (3-8 mbs below normal).

All the above mentioned systems of secondary Mediterranean depressions and desert depressions were associated with upper troughs extending to about 200 mb level.

The subtropical jet stream was evident at about 185 mb level over the U.A.R. during the whole month.

TABLE A2.— MAXIMUM AND MINIMUM AIR TEMPERATURE

JUNE — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	45.0	5	26.1	15	30	17	5	2	0	20.0	—	26.9	5	17.2	18	0	0	0	0
Mersa Matruh . (A)	41.8	5	24.3	20	29	11	6	1	0	—	—	23.9	5	15.4	1	0	0	0	0
Alexandria . . . (A)	39.4	13	27.5	17	30	16	5	0	0	—	—	22.7	13	15.2	1	0	0	0	0
Port Said . . . (A)	34.8	13	25.7	1	30	5	0	0	0	21.6	—	25.5	5	20.8	2,17	0	0	0	0
El Arish	40.1	20	26.5	1	30	8	3	1	0	17.5	—	23.1	14	16.7	1	0	0	0	0
Ghazza	32.2	13	24.5	1	28	2	0	0	0	19.5	—	24.5	14	17.0	5	0	0	0	0
Tanta	43.7	13	30.3	17	30	30	17	4	0	—	—	21.7	11	15.6	1	0	0	0	0
Cairo . . . . . (A)	46.3	13	31.2	18	30	30	21	6	1	—	—	24.7	13	18.3	1	0	0	0	0
Fayoum	48.4	13	33.7	17	30	30	17	9	2	17.1	—	26.6	10	18.3	1	0	0	0	0
Minya . . . . . A)	47.2	10	32.3	17	30	30	21	9	3	—	—	23.0	8	16.4	18	0	0	0	0
Assyout. . . . . A)	48.4	10	32.8	21	30	30	25	21	5	20.9	—	28.4	10	19.6	17	0	0	0	0
Luxor . . . . . A)	48.0	10	35.5	17	30	30	30	19	7	16.3	—	26.6	12	19.8	18	0	0	0	0
Aswan . . . . . A)	48.1	13	36.8	18	30	30	30	23	10	—	—	29.3	7	20.0	1	0	0	0	0
Siwa	46.3	9	32.6	19,20	30	30	23	11	2	18.5	—	24.6	10	17.0	17	0	0	0	0
Bahariya	47.1	13	32.9	20	30	30	26	10	4	19.8	—	25.1	13	17.3	29	0	0	0	0
Farafra	47.5	10	31.4	20	30	30	27	10	4	19.7	—	24.0	11	14.7	18	0	0	0	0
Dakhla	49.3	13	34.4	21	30	30	28	15	5	—	—	29.2	12	16.8	9	0	0	0	0
Kharga	48.1	13	35.1	21	30	30	30	17	6	21.6	—	30.7	13	16.4	18	0	0	0	0
Tor	42.0	10	30.2	15	30	30	13	1	0	—	—	25.1	14	18.4	6	0	0	0	0
Hurghada	42.6	10	31.0	17	30	30	10	2	0	21.5	—	26.6	21	20.2	20	0	0	0	0
Quseir	38.5	11	29.7	1	30	28	5	0	0	20.3	—	28.5	13	22.7	1,7	0	0	0	0

TABLE A 3.– SKY COVER AND RAINFALL

JUNE — 1965

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	1.1	1.7	2.2	2.0	1.8	1.0	+ 0.8	1.0	19	3	1	1	0	0	0	0
Mersa Matruh . . (A)	0.9	1.5	1.4	2.0	1.4	59.5	+56.4	47.2	20	0	2	2	2	2	1	0
Alexandria . . . . (A)	1.1	1.8	1.3	2.0	1.4	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Port Said . . . . (A)	0.4	1.2	0.4	0.6	0.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
El Arish	1.4	1.7	1.0	1.2	1.0	0.1	0.0	0.1	10	0	1	0	0	0	0	0
Ghazza	1.4	1.7	1.0	1.2	1.2	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Tanta	—	0.8	0.7	0.4	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Cairo . . . . . (A)	0.8	1.4	0.8	0.5	0.9	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.4	0.1	0.1	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Minya . . . . . (A)	0.2	0.2	0.4	0.1	0.2	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Assyout. . . . . (A)	0.1	0.1	0.3	0.1	0.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor . . . . . (A)	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Aswan . . . . . (A)	0.1	0.8	0.6	0.1	0.4	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.5	0.8	1.1	1.0	0.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Bahariya	0.1	0.4	0.4	0.5	0.4	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.3	0.2	0.9	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.1	0.1	0.1	0.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.2	0.2	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Tor	0.2	0.2	0.5	0.2	0.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Hurghada	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Quseir	0.0	0.0	0.2	0.1	0.1	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0

Table A 4. — DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

JUNE 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice. Pellets	Hail											
Sallum	1	0	0	0	0	0	4	1	1	0	6	0	0	19	0
Mersa Matruh (A)	2	0	0	0	0	1	5	3	0	0	1	0	0	25	0
Alexandria (A)	0	0	0	0	0	3	2	0	0	0	0	0	0	18	0
Port Said (A)	0	0	0	0	0	0	2	0	0	0	0	0	0	30	0
El Arish	1	0	0	0	0	0	12	0	0	0	3	0	0	22	0
Ghaza	0	0	0	0	0	0	1	3	0	0	0	0	0	19	0
Tanta	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo (A)	0	0	0	0	0	0	10	1	2	0	3	0	0	25	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	0	0	2	0	0	29	0
Assyout (A)	0	0	0	0	0	0	0	0	10	0	2	0	0	31	0
Luxor (A)	0	0	0	0	0	0	0	0	2	0	2	0	0	30	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	5	0	0	29	0
Siwa	0	0	0	0	0	0	0	0	1	0	0	0	0	25	0
Bahariya	0	0	0	0	0	0	0	0	0	0	3	0	0	29	0
Farafra	0	0	0	0	0	0	0	0	0	0	3	0	0	28	0
Dakhla	0	0	0	0	0	0	0	2	0	0	1	0	0	30	0
Kharga	0	0	0	0	0	0	0	0	0	0	1	0	0	30	0
Tor	0	0	0	0	0	0	0	0	1	0	1	0	0	30	0
Hurghada	0	0	0	0	0	0	0	0	0	0	3	0	1	30	0
Quseir	0	0	0	0	0	0	0	0	1	0	0	0	0	30	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JUNE — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sallum.	95	17	0	1 –10	42	90	35	34	16	4	6	9	6	18	24	40	324
				11—27	35	58	0	0	0	0	5	15	9	2	70	90	284
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**77**	**148**	**35**	**34**	**16**	**4**	**11**	**24**	**15**	**20**	**94**	**130**	**608**
Mersa Matruh (A)	12	6	0	1—10	79	92	27	16	25	31	19	19	4	26	64	75	477
				11—27	70	17	8	6	24	15	11	11	1	0	1	61	225
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**149**	**109**	**35**	**22**	**49**	**46**	**30**	**30**	**5**	**26**	**65**	**136**	**702**
Alexandria . . (A)	47	0	0	1—10	103	55	27	15	35	17	18	8	6	11	75	111	481
				11—27	34	8	0	4	4	0	0	0	0	10	80	52	192
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**137**	**63**	**27**	**19**	**39**	**17**	**18**	**8**	**6**	**21**	**155**	**163**	**673**
Port Said . . (A)	0	2	0	1—10	177	57	37	23	7	19	5	2	9	46	50	73	505
				11—27	89	8	9	17	3	1	0	1	2	7	26	50	213
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**266**	**65**	**46**	**40**	**10**	**20**	**5**	**3**	**11**	**53**	**76**	**123**	**718**
EL Arish . . (A)	24	5	0	1—10	91	58	18	13	21	83	35	61	63	19	36	157	655
				11—27	1	1	0	0	0	0	0	0	2	8	8	16	36
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**92**	**59**	**18**	**13**	**21**	**83**	**35**	**61**	**65**	**27**	**44**	**173**	**691**
Ghazza	0	88	16	1—10	68	40	19	12	22	106	33	9	24	51	82	71	537
				11—27	16	10	0	0	0	0	0	0	11	11	19	12	79
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**84**	**50**	**19**	**12**	**22**	**106**	**33**	**9**	**35**	**62**	**101**	**83**	**616**
Tanta	31	18	0	1—10	98	1	94	37	52	26	4	7	62	63	86	107	637
				11—27	0	10	5	0	4	0	0	2	5	0	4	4	34
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**98**	**11**	**99**	**37**	**56**	**26**	**4**	**9**	**67**	**63**	**90**	**111**	**671**
Cairo . . . (A)	8	0	0	1—10	86	62	58	61	21	2	1	1	1	5	34	95	427
				11—27	36	60	75	39	12	8	3	0	12	12	7	21	285
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**122**	**122**	**133**	**100**	**33**	**10**	**4**	**1**	**13**	**17**	**41**	**116**	**712**
Fayoum	6	6	0	1—10	393	39	6	8	2	4	15	5	18	23	32	154	699
				11—27	1	0	0	0	0	0	0	3	2	0	1	2	9
				74—82	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**394**	**39**	**6**	**8**	**2**	**4**	**15**	**8**	**20**	**23**	**33**	**156**	**708**

Table A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JUNE — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345/014	015/044	045/074	075/104	105/134	135/164	165/194	195/224	225/254	255/284	285/314	315/344	
Minya	28	57	0	1—10	207	33	4	1	12	13	5	3	5	14	13	177	487
				11—27	96	4	0	0	0	0	0	0	4	2	0	42	148
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**303**	**37**	**4**	**1**	**12**	**13**	**5**	**3**	**9**	**16**	**13**	**219**	**635**
Assyout	7	0	0	1—10	12	11	7	13	5	11	5	5	70	185	186	107	617
				11—27	2	7	0	0	0	0	0	0	0	6	26	55	96
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**14**	**18**	**7**	**13**	**5**	**11**	**5**	**5**	**70**	**191**	**212**	**162**	**713**
Luxor	28	0	0	1—10	27	63	29	27	21	19	79	42	23	27	55	179	591
				11—27	4	0	4	0	0	0	0	1	0	2	5	84	100
				28—47	0	0	0	0	0	0	0	0	0	0	0	1	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**31**	**63**	**33**	**27**	**21**	**19**	**79**	**43**	**23**	**29**	**60**	**264**	**692**
Aswan	6	0	18	1—10	231	141	16	9	5	2	3	1	1	22	41	134	606
				11—27	49	24	0	0	0	0	0	0	0	0	2	15	90
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**280**	**165**	**16**	**9**	**5**	**2**	**3**	**1**	**1**	**22**	**43**	**149**	**696**
Siwa	51	6	0	1—10	63	85	50	90	58	45	21	8	8	16	57	68	569
				11—27	20	2	6	1	11	5	4	2	2	2	13	26	94
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**83**	**87**	**56**	**91**	**69**	**50**	**25**	**10**	**10**	**18**	**70**	**94**	**663**
Dakhla	2	13	0	1—10	70	89	52	42	21	14	15	32	25	56	90	160	666
				11—27	15	10	8	1	0	0	0	0	0	0	2	3	39
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**85**	**99**	**60**	**43**	**21**	**14**	**15**	**32**	**25**	**56**	**92**	**163**	**705**
Tor	0	0	32	1—10	16	6	4	5	8	26	17	11	14	40	40	19	206
				11—27	1	0	0	0	0	2	3	1	2	112	324	31	476
				28—47	0	0	0	0	0	0	0	0	0	1	4	1	6
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**17**	**6**	**4**	**5**	**8**	**28**	**20**	**12**	**16**	**153**	**368**	**51**	**688**
Hurghada	13	23	1	1—10	15	23	12	2	13	6	0	1	0	3	78	39	193
				11—27	107	26	0	0	1	1	0	0	0	8	173	164	480
				28—47	0	0	0	0	0	0	0	0	0	0	1	9	10
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**122**	**49**	**12**	**3**	**14**	**7**	**0**	**1**	**0**	**11**	**252**	**212**	**683**
Quseir	5	41	0	1—10	111	23	5	2	9	8	11	6	11	43	103	182	514
				11—27	41	6	0	0	0	0	0	0	0	0	2	111	160
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**152**	**29**	**5**	**2**	**9**	**8**	**11**	**6**	**11**	**43**	**105**	**293**	**674**

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

JUNE— 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	21	* 1012mb	* 1016mb	* 1009mb	21	21.3	26.0	18.6	21	17.5
	1000	21	133	165	107	21	22.1	29.7	14.0	20	14.3
	850	21	1548	1579	1518	21	20.4	27.0	16.0	15	0.0
	700	21	3190	3234	3148	21	8.2	12.1	-7.3	12	—6.3
	600	21	4442	4448	4401	21	—0.4	1.8	—5.0	12	—11.9
	500	21	5873	5930	5842	21	—11.0	—8.0	—14.4	10	—18.0
	400	21	7547	7624	7498	21	—23.6	—20.5	—27.2	7	—31.4
	300	21	9586	9670	9499	21	—38.4	—30.5	—43.9	—	—
	200	20	12269	12375	12135	20	—55.2	—49.6	—63.6	—	—
	150	20	14070	14201	13947	20	—62.9	—56.6	—67.2	—	—
	100	16	16535	16670	164 1	16	—66.9	—60.5	—73.6	—	—
	70	12	18696	18800	18600	12	—66.2	—62.5	—71.2	—	—
	60	10	19637	19750	19564	10	—62.6	—60.0	—65.2	—	—
	50	10	20777	20890	20686	10	—57.5	—53.9	—60.4	—	+
	40	8	22200	22314	22101	8	—54.7	—53.5	—56.6	—	—
	30	7	24057	24168	23953	7	—50.6	—47.4	—53.0	—	—
	20	2	26750	26816	26683	2	—46.8	—46.1	—47.6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	28	* 994mb	* 999mb	* 990mb	28	23.8	32.2	20.1	28	10.6
	1000	28	89	132	60	—	—	—	—	—	—
	850	28	1502	1535	1472	28	20.5	28.9	14.0	20	—2.0
	700	28	3144	3195	3092	28	10.2	14.1	6.0	10	—10.5
	600	28	4406	4471	4342	28	1.6	5.8	—3.1	12	—12.7
	500	28	5848	5936	5779	28	—9.0	—4.2	—12.6	9	—21.2
	400	28	7542	7647	7456	28	—21.0	—15.0	—25.8	4	—29.2
	300	28	9596	9722	9488	28	—36.1	—29.0	—41.0	1	—41.6
	200	28	12305	12449	12153	28	—54.1	—49.2	—59.1	—	—
	150	28	14110	14281	13963	28	—63.3	—57.3	—67.0	—	—
	100	28	16552	16723	16406	28	—70.4	—64.2	—76.7	—	—
	70	22	18657	18760	18500	22	—68.6	—63.9	—77.4	—	—
	60	17	19606	19733	19503	17	—62.8	—57.6	—67.8	—	—
	50	17	20743	20859	20621	17	—56.1	—55.4	—62.4	—	—
	40	11	22161	22273	22021	11	55.3	—52.6	—57.3	—	—
	30	8	24002	24133	23855	8	—51.6	—48.6	—53.5	—	—
	20	3	26688	26803	26587	3	—46.4	—45.8	—46.9	—	—
	10	—	—	—	—	—	—	—	—		—
Aswan 0000 U.T.	Surface	29	* 985mb	* 988mb	* 983mb	29	28.6	33.2	25.0	29	3.3
	1000	29	65	88	41	—	—	—	—	—	—
	850	29	1503	1535	1481	29	24.9	32.0	19.4	13	—0.5
	700	29	3163	3218	3123	29	12.3	15.7	9.4	11	—8.6
	600	29	4432	4498	4385	29	3.0	6.8	—0.6	11	—12.5
	500	29	5881	5940	5839	29	—7.2	—2.4	—12.6	5	—17.6
	400	29	7587	7648	7517	29	—18.0	—13.0	—24.7	1	—32.2
	300	29	9673	9742	9561	29	—33.4	—29.8	—38.8	—	
	200	29	12406	12480	12273	29	—53.0	—50.0	—55.5	—	—
	150	29	14208	14288	14046	29	—65.7	—63.9	—70.7	—	—
	100	26	16607	16696	16478	26	—75.2	—70.5	—79.0	—	—
	70	23	18693	18800	18576	23	—70.3	—65.7	—76.9	—	—
	60	15	19623	19737	19503	15	—64.9	—61.9	—69.6	—	—
	50	15	20747	20859	20631	15	—60.7	—58.1	—62.7	—	—
	40	11	22154	22251	22037	11	—56.6	—54.2	—57.1	—	—
	30	10	24003	24100	23873	10	—52.1	—47.7	—54.8	—	—
	20	6	26630	26695	26578	6	—48.8	—46.0	—51.5	—	—
	10	—						—		—	—

N = The number of cases the element has been observed during the month

* The atmospheric pressure corrected to the elevation of the radiosonde stations

UPPER AIR CLIMATOLOGICAL DATA

TABLE B 1.(*contd.*).—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

JUNE — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	23	*1013mb	*1017md	*1010mb	23	28.2	41.4	24.2	23	18.4
	1000	23	138	178	87	23	27.2	40.0	21.8	23	15.0
	850	23	1564	1596	1531	23	20.8	26.4	15.7	17	— 1.3
	700	23	3207	3266	3165	23	9.7	13.0	3.4	10	— 7.2
	600	23	4465	4536	4418	23	0·8	4.6	— 3.9	13	—15.0
	500	23	5900	5986	5850	23	— 9.9	— 6.7	—13.0	11	—19.7
	400	22	7585	7686	7531	22	—22.6	—16.2	—25.9	5	—31.4
	300	21	9636	9756	9547	21	—36.8	—29.7	—42.4	—	—
	200	21	12332	12472	12179	21	—54.3	—43.0	—60.7	—	—
	150	21	14149	14320	13958	21	—61·5	—54.0	—65.7	—	—
	100	13	16604	16750	16413	13	—68.8	—62.6	—73.3	—	—
	70	10	18749	18900	18600	10	—64.0	—59.1	—66.7	—	—
	60	9	19702	19846	19571	9	—60.0	—56.3	—63.2	—	—
	50	8	20852	20992	20739	8	—67.5	—53.2	—60.4	—	—
	40	7	22292	22424	22189	7	—51.2	—48.6	—54·2	—	—
	30	5	24202	24306	24142	5	—47.7	—45.9	—48.7	—	—
	20	3	26917	26991	26835	3	—44.7	—43.0	—46.5	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T	Surface	30	*993mb	*998mb	*991mb	30	35.5	44.1	29 4	30	3.5
	1000	30	87	124	68	—	—	—	—	—	—
	850	30	1518	1548	1483	30	21.8	31.6	13.9	23	0.6
	700	30	3170	3235	3104	30	11.3	15.8	6.7	8	—10.7
	600	30	4432	4516	4355	30	2.8	7.0	— 1.7	10	—13.7
	500	30	5879	5967	5795	30	— 7.4	— 3.2	—10.4	7	—21.5
	400	30	7579	7685	7485	30	—19.5	—13.0	—24.5	3	—44.1
	300	30	9656	9784	9538	30	—34.5	—27.0	—39.7	2	—40.2
	200	30	12381	12548	12205	30	—52.0	—47.5	—57.6	—	—
	150	30	14204	14389	14006	30	—61.9	—54.3	—65.5	—	—
	100	28	16655	16843	16499	28	—70.1	—63.1	—74.7	—	—
	70	24	18756	18990	17897	24	—65.8	—61.1	—73.0	—	—
	60	23	19739	19905	19619	23	—60.6	—56.1	—66.5	—	—
	50	20	20882	21057	20745	20	—55.9	—51.7	—60.2	—	—
	40	13	22289	22502	22168	13	—51.8	—48.6	—55.4	—	—
	30	11	24187	24404	24068	11	—48.4	—40.6	—51.5	—	—
	20	5	26864	26981	26779	5	—44.9	—43.8	—46.9	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	30	*985mb	*988mb	*981mb	30	40.9	46.8	35.0	30	5.0
	1000	28	59	97	43	—	—	—	—	—	—
	850	30	1520	1551	1493	20	26.8	34.0	20.7	13	— 1.2
	700	30	3186	3244	3146	30	13.2	17.3	9.9	10	—10.8
	600	30	4461	4524	4410	30	3.5	7.3	— 4.9	13	—13·9
	500	30	5910	5979	5839	30	— 6.3	— 1.6	—11.6	5	—20.8
	400	30	7622	7690	7509	30	—16.8	—12.5	—24.1	—	—
	300	30	9721	9785	9560	30	—31.6	—27.8	—38.2	—	—
	200	30	12473	12566	12304	30	—51.4	—49.4	—55.4	—	—
	150	29	14290	14399	14120	29	—64.0	—60.8	—68.3	—	—
	100	28	16703	16809	16612	28	—75.0	—71.1	—79.6	—	—
	70	22	18817	19120	18720	22	—70.0	—66.6	—73.9	—	—
	60	11	19742	20005	19647	11	—64.3	—61.9	—67.1	—	—
	50	11	20868	21137	20787	11	—58.2	—54.6	—62.7	—	—
	40	4	22355	22543	22248	4	—54.8	—53.1	—56.2	—	—
	30	3	24206	24377	24109	3	—52.0	—50.1	—55.2	—	—
	20	1	27048	—	—	1	—41.0	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE ; THE HIGHEST WIND SPEED IN THE UPPER AIR

JUNE — 1965

Station	Freezing Level									First Tropopause									Highest wind speed			
	Mean			Highest			Lowest			Mean			Highest			Lowest						
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000–360)°	Speed in Knots
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)										
M. Matruh	4387 (21)	604 (21)	-10,8 (12)	4710	578	—	3820	648	-11,8	13824 (16)	158 (16)	-64,0 (16)	16520	100	-72,2	10650	252	-53.0	13285	174	234	89
Helwan	4647 (28)	590 (28)	-12 5 (12)	5350	535	—	3980	629	- 4.7	14600 (23)	140 (23)	-67.6 (23)	16624	100	-75.2	10520	260	-47.6	12240	71	230	150
Aswan	4851 (29)	566 (29)	-14.1 (11)	5480	526	—	4380	605	-11,3	16044 (26)	111 (26)	-75.4 (26)	17630	82	-79.4	14700	135	70.7	13490	165	250	75
1200 U.T.	(N)	(N)	(N)							(N)	(N)	(N)										
M. Matruh	4545 (23)	594 (23)	-12,9 (13)	5060	555	—	3790	650	- 3,2	13975 (15)	161 (15)	-63,7 (15)	16750	100	-72,2	10680	250	-50,0	11050	245	234	97
Helwan	4826 (30)	553 (30)	-15.0 (9)	5540	527	—	4210	616	-11.3	15443 (26)	127 (26)	-68.4 (26)	18013	80	-75.6	11370	231	-49 3	12950	179	260	130
Aswan	4951 (30)	559 (30)	-15.2 (12)	5720	511	—	4370	604	-15.4	16538 (23)	103 (23)	-75.6 (23)	17980	81	-78.9	15580	120	-73.0	10720	215	270	70

N = The number of cases the element has been observed during the month .

TABLE B 3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) – JUNE 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	3	6	1	4	0	—	1	11	0	—	4	6	1	15	0	—	0	—	2	2	6	8	2	4	1	21	7
	1000	1	9	1	6	1	5	1	11	2	11	2	10	1	12	0	—	0	—	1	11	4	15	5	7	1	20	9
	850	8	13	2	10	1	10	0	—	0	—	2	6	0	—	1	11	2	13	0	—	2	12	1	17	1	20	11
	700	4	15	1	4	0	—	0	—	0	—	0	—	0	—	0	—	2	26	5	25	3	13	5	18	0	20	19
	600	5	14	0	—	0	—	0	—	0	—	0	—	0	—	1	8	2	32	5	3[illegible]	3	19	4	11	0	20	20
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	48	4	27	4	24	7	17	0	17	25
	400	0	—	0	—	0	—	0	—	0	—	0	—	1	6	0	—	0	—	9	34	6	20	2	9	0	18	25
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	3	54	8	44	5	42	1	36	0	18	38
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	63	7	55	2	36	0	—	0	14	55
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	57	7	43	1	35	0	—	0	11	46
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	81	3	29	0	—	0	—	0	4	42
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	7	11	6	10	1	8	2	10	1	14	0	—	0	—	0	—	0	—	0	—	1	12	4	13	0	22	11
	1000	2	8	4	8	2	6	1	8	1	6	0	—	0	—	0	—	0	—	0	—	5	16	8	12	0	23	11
	850	1	15	1	7	0	—	2	8	0	—	1	17	1	8	0	—	2	28	5	15	6	7	4	14	0	23	13
	700	2	13	2	8	1	5	1	14	0	—	0	—	0	—	0	—	3	36	4	32	3	10	7	12	0	23	18
	600	1	36	3	8	0	—	0	—	1	7	0	—	0	—	0	—	3	47	7	30	3	10	5	16	0	23	23
	500	1	19	0	—	0	—	0	—	0	—	0	—	0	—	1	13	4	20	10	33	4	11	3	24	0	23	24
	400	1	13	0	—	0	—	0	—	0	—	0	—	0	—	1	30	4	47	9	30	5	25	1	25	0	21	30
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	6	56	7	48	3	35	2	30	0	19	46
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	68	9	60	1	40	1	20	0	14	57
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	42	5	42	0	—	0	—	0	7	42
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	2	8	1	11	0	—	0	—	0	4	9
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

HELWAN—JUNE 1965

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000–360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	4	9	4	11	12	11	0	—	1	10	0	—	0	—	0	—	0	—	1	2	1	8	2	7	3	28	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	8	17	4	19	2	18	0	—	0	—	0	—	0	—	2	14	0	—	0	—	9	15	3	8	0	28	16
	700	3	14	1	9	2	26	0	—	0	—	0	—	0	—	2	35	1	12	7	18	6	20	6	12	0	28	17
	600	1	8	1	11	0	—	0	—	0	—	0	—	0	—	0	—	7	17	5	26	8	23	5	11	0	27	19
	500	1	13	0	—	0	—	0	—	0	—	3	8	0	—	0	—	7	32	11	23	5	13	1	18	0	28	21
	400	2	13	0	—	0	—	0	—	0	—	0	—	1	13	2	28	6	36	11	33	5	27	1	14	0	28	30
	300	1	35	1	7	0	—	0	—	0	—	0	—	1	24	0	—	9	40	13	43	2	26	0	—	0	27	38
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	72	10	50	10	46	2	48	0	—	0	25	54
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	52	11	64	1	87	1	42	0	23	59
	100	0	—	0	—	0	—	0	—	1	31	0	—	0	—	2	47	8	44	4	37	0	—	1	71	0	16	42
	70	0	—	0	—	0	—	0	—	0	—	1	8	0	—	0	—	1	80	3	75	0	—	0	—	0	5	62
	60	0	—	0	—	0	—	1	6	1	21	0	—	0	—	0	—	1	88	0	—	0	—	0	—	0	3	40
	50	0	—	0	—	0	—	1	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	30
	40	0	—	0	—	1	23	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	23
	30	0	—	0	—	0	—	1	18	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	18
	20	0	—	0	—	0	—	0	—	1	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	24
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	4	9	4	15	4	17	0	—	0	—	0	—	0	—	1	20	2	10	2	12	4	11	8	14	1	30	13
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	4	14	2	12	6	15	1	14	0	—	0	—	0	—	2	10	3	6	2	11	6	13	4	13	0	30	12
	700	1	9	3	17	2	17	1	11	0	—	0	—	1	11	1	16	5	20	7	15	5	19	4	8	0	30	15
	600	2	16	1	11	1	5	2	11	0	—	0	—	0	—	0	—	6	28	11	27	4	11	3	12	0	30	20
	500	1	20	1	13	2	7	0	—	0	—	0	—	0	—	0	—	6	27	14	33	3	14	3	15	0	30	25
	400	2	18	0	—	0	—	0	—	0	—	1	11	1	7	0	—	11	33	8	35	4	29	1	35	0	28	31
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	24	3	45	9	37	9	41	5	29	1	14	0	28	40
	200	0	—	0	—	0	—	0	—	0	—	0	—	1	35	4	41	10	54	9	47	2	46	0	—	0	26	48
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	52	8	56	8	40	0	—	0	—	0	23	49
	100	0	—	0	—	0	—	0	—	0	—	1	22	4	27	0	—	4	39	4	40	1	27	0	—	0	14	34
	70	0	—	0	—	1	14	1	15	2	11	3	25	1	46	1	17	1	100	0	—	0	—	0	—	0	10	29
	60	0	—	0	—	1	46	2	22	2	18	1	7	1	26	0	—	0	—	0	—	0	—	0	—	0	7	23
	50	0	—	0	—	0	—	5	23	0	—	1	24	0	—	0	—	0	—	0	—	0	—	0	—	0	6	23
	40	0	—	0	—	0	—	2	20	3	27	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	5	26
	30	0	—	0	—	0	—	1	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	26
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A)— JUNE 1965

Time	Pressure Surface (Millibar)	Wint between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (T N)	Mean Scalar wind Speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	10	13	3	9	1	10	2	8	0	—	0	—	0	—	0	—	0	—	0	—	5	8	6	12	2	29	10
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	8	15	3	17	4	14	2	18	0	—	0	—	0	—	0	—	0	—	1	10	3	15	8	11	0	29	14
	700	3	11	2	10	1	20	0	—	1	4	1	10	1	21	2	18	5	8	4	15	3	12	6	15	0	29	13
	600	1	4	1	20	2	9	0	—	0	—	0	—	0	—	6	15	4	16	6	16	3	9	6	10	0	29	13
	500	1	12	1	4	0	—	1	6	1	9	1	3	1	7	1	9	7	17	8	15	3	16	4	9	0	29	13
	400	2	8	1	4	1	2	0	—	2	6	2	4	2	7	2	12	4	21	5	19	4	12	4	14	0	29	13
	300	0	—	0	—	0	—	0	—	0	—	2	8	1	22	8	30	5	19	7	23	3	22	3	19	0	29	23
	200	0	—	0	—	0	—	0	—	0	—	2	30	6	21	7	37	9	28	4	32	0	—	0	—	0	28	27
	150	0	—	0	—	0	—	0	—	0	—	6	26	3	28	4	38	7	37	3	30	1	43	0	—	0	24	33
	100	0	—	0	—	0	—	0	—	3	33	1	30	1	27	7	17	1	10	1	29	0	—	0	—	0	14	23
	70	0	—	0	—	0	—	0	—	0	—	1	25	0	—	0	—	0	—	0	—	0	—	0	—	0	1	25
	60	0	—	0	—	0	—	1	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	33
	50	0	—	0	—	0	—	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	38
	40	0	—	0	—	0	—	1	9	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	9
	30	0	—	0	—	0	—	1	46	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	46
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	14	9	1	17	1	5	0	—	0	—	0	—	0	—	0	—	1	4	0	—	4	8	6	9	3	30	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	5	11	1	10	2	10	0	—	2	9	0	—	0	—	0	—	2	11	2	11	7	11	9	11	0	30	11
	700	2	14	2	5	1	16	1	8	2	8	0	—	2	14	0	—	5	12	3	20	10	11	2	17	0	30	12
	600	2	14	1	20	0	—	2	5	2	12	0	—	0	—	7	14	7	15	4	18	3	13	2	8	0	30	14
	500	2	10	1	10	1	12	0	—	0	—	2	6	1	8	7	10	2	16	7	18	6	13	1	14	0	30	13
	400	4	7	0	—	0	—	0	—	2	10	2	6	0	—	1	10	10	20	3	9	5	10	3	13	0	30	13
	300	0	—	0	—	1	4	0	—	1	21	1	7	4	16	7	27	5	22	5	24	3	24	3	23	0	30	22
	200	0	—	0	—	0	—	0	—	1	14	4	24	6	25	3	41	8	29	7	31	1	27	0	—	0	30	29
	150	0	—	0	—	0	—	0	—	0	—	5	25	4	29	6	28	9	29	3	26	0	—	0	—	0	27	28
	100	0	—	0	—	0	—	0	—	6	28	1	30	2	27	2	17	5	25	1	5	0	—	0	—	0	17	23
	70	0	—	0	—	0	—	2	13	1	21	1	9	0	—	0	—	0	—	0	—	0	—	0	—	0	4	14
	60	0	—	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	20
	50	0	—	0	—	0	—	1	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	22
	40	0	—	0	—	0	—	1	23	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	23
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO — METEOROLOGICAL STATIONS

EL KASR — JUNE 1965

This month was warmer and much more rainy than normal. Mean daily air temperature at 2 metres above ground was 0.7°C above normal while mean daily relative humidity was equal to the normal value and total rainfall was much higher than normal (20.8 mms). The month was characterized by a warm period between 1st and the 12th with 4 heat waves where peaks occurred on 2nd, 5th, 9th, and 12th ; and a hot spell on 19th. The second heat wave was the most excessive and was associated with the absolute maximum temperture for the month and the lowest relative humidity on the 5th. The maximum rainfall in one day was the high value of 13.0 mms and occurred on 19th.

The extreme maximum soil temperatures down to 50 cms depth were higher than the corresponding values of June 1964 by 7.6 °C at 0.3 cm depth to 0.3 °C at 50 cms depth. At 100 cms depth the extreme maximum soil temperature was 0.5 °C lower than the corresponding value of last June. The extreme minimum soil temperatures down to 20 cms depth were higher than the corresponding values of June 1964 by 1.7 °C at 5 cms depth to 0.6 °C at 10 cms depth, while at 50 & 100 cms depths the values were lower than the corresponding values of last June by 0.1 and 0.4 °C respectively.

The mean daily wind speed was 0.2 m/sec lower than the corresponding value of June 1964. Mean daily water pan evaporation was 0.19 mm higher than the corresponding value of last June. Total actual duration of bright sunshine was 22.6 hours lower than the corresponding value of June 1964.

TAHRIR — JUNE 1965

This month was warm and dry as compared with last year values of mean daily air temperature and relative humidity. The meandaily air temperature at 2 metres above ground was 1.0 °C higher and the mean daily relative humidity was 4% lower than the corresponding values of June 1964. The month began with a heat wave which intensified gradually and reached its peak on the 13th on which occurred the high absolute maximum air temperature at 2 metres (45.3 °C) and the lowest value of relative humidity.

The extreme maximum soil temperatures from the surface to 1 metre depth were higher than the corresponding values of June 1964 by 0.1 °C to 1.9 °C except at 2 cms depth where the values were equal. The extreme minimum soil temperatures were also higher than the corresponding values of last June ; the deviations were 0.5 °C to 1.1 °C.

The mean daily wind speed at 2 metres was 0.3 m/sec lower than the corresponding value of June 1964. The mean daily Piche evaporation was higher by 2.1 mms while the mean daily Class A pan evaporation was lower by 0.49 mm than the corresponding values of last June. The total actual duration of bright sunshine was 3.7 hours higher than the corresponding value of June 1964.

GIZA — JUNE 1965

This month was warm and dry as compared with normal values of air temperature and relative humidity of Giza during June. The mean daily temperature at 2 metres above ground was 1.4 °C above normal and the mean relative humidity was 7% below normal. The month was characterized by a prolonged intense heat wave between the 1st and 13th with peak on the 13th., when the absolute maximum temperature of the month and the lowest relative humidity were recorded. The absolute values of the mean daily air temperature at 2 metres above ground, and the daily Piche evaporation at 120 cms above the ground also occurred on the 13th.

The extreme maximum soil temperatures in the dry field at depths between 0.3 and 20 cms inclusive, were lower than the corresponding values of June 1964 by 1.7°C at 1 cm depth to 0.1°C at 10 cms depth except at 2 cms depth where the extreme maximum was 1.5 °C higher. The extreme minmum soil temperatures at depths between 0.3 and 5 cms inclusive and at 100 cms depth were higher than the corresponding values of June 1964 by 1.6 °C at 2 cms depth to 0.3 °C at 5 cms depth. At 10, 20, 50 cms depths the values were lower than the corresponding values of June 1964 by 0.3 — 0.5 °C.

The mean daily wind speed at 2 metres above ground was 0.1 m/sec higher than the corresponding value of last June. The mean daily values of Piche evaporation, water pan evaporation, potential evaporation and potential evapotranspiration were higher than the corresponding values of last June by 4.0, 1.91, 0.8 and 0.6 mms respectively.

The total actual duration of bright sunshine was 6.7 hours higher than the corresponding value of June 1964.

KHARGA — JUNE 1965

The month was rather hot as compared with the normal value of mean daily air temperature for Kharga in June. The mean daily air temperature at 2 metres above ground was 3.3 °C above normal. Compared with the corresponding values of June 1964, the mean daily air temperature at 2 metres was 1.9 °C higher and the mean daily relative humidity was 5% lower. The month was characterized by a pronounced heat wave which occurred between the 1 st and 13 th and was associated with the high absolute maximum temperature of the month (48.1 °C) on the 13th.

The extreme maximum soil temperatures from the surface down to 100 cms depth were higher than the corresponding values of June 1964 by 0.6 °C at 100 cms depth to 5.1 °C at 5 cms depth. The extreme minimum soil temperatures showed irregular deviations from the corresponding values of June 1964 ranging 1.3 °C at 20 cms depth to— 0.8 °C at 5 cms depth.

The mean daily wind speed at 2 metres above ground was 0.3 m/sec lower than the corresponding value of June 1964. Mean daily Piche evaporation at 120 cms above ground and water pan evaporation were higher than the corresponding values of last June by 2.3 and 0.35 mms respectively. Total actual duration of bright sunshine was 8.1 hours lower than the corresponding value of June 1964.

Table C1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

JUNE — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	29.2	18.1	23.7	21.0	25.8	24.0	24.0	24.0	24.0	24.0	19.4	7.8	1.4	0.4	0.05	0.0
Tahrir	36.2	19.2	27.0	22.9	30.0	24.0	24.0	24.0	24.0	24.0	21.6	13.4	7.9	2.5	0.2	0.0
Giza , , ...	36.4	19.8	28.1	24.8	30.5	24.0	24.0	24.0	24.0	24.0	22.7	15.6	9.4	2.9	0.4	0.0
Kharga	41.2	23.1	33.3	30.0	35.9	24.0	24.0	24.0	24.0	24.0	23.9	21.9	16.5	9.4	3.0	0.9

Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS.

JUNE — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	42.3	5	25.2	20	23.8	5	15.1	1	11.2	16	—	—
Tahrir	45.3	13	30.9	17	23.3	13	15.9	1	13.8	1	—	—
Giza , , ...	46.0	13	32.0	18	23.6	11	16.9	1	13.7	3	10,9	5
Kharga.	48.1	13	35.1	21	30.7	13	16.4	18	15.6	18	—	—

Table C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL

JUNE — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation(mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours ≥ 90 %	Duration in hours ≥ 80 %	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
El Kasr . . .	579.4	357.9	425.0	84	0	0	74	64	11	5	16.4	17.2	20.4	13	5.7	6	12.1	10.12	20.8	13.0	19
Tahrir	716.6	374.3	422.3	89	1.5	5,2	55	26	9	13	13.4	10.5	19.3	30	6.9	1	19.8	12.51	0.0	0.0	—
Giza , , . . .	690.0	363.9	421.8	86	0,4	2.4	46	23	7	13	11.9	9.5	18.6	29	4.8	13	22.2	13.78	0.0	0.0	—
Kharga. . . .	636.6	372.9	409.8	91	0	0	18	12	5	5,10, 12,13	6.4	6.3	13.3	22	2.7	5	43.1	22,06	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS IN DIFFERENT FIELDS

JUNE — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr . . .	H	56.0	48.4	48.2	41.6	34.7	32.0	27.2	24.8	22.7	—	—	—	—	—	—	—	—	—	—	—
	L	14.6	16.6	16.5	18.4	20.7	23.2	24.1	22.7	20.9	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	59.5	58.0	53.4	49.5	43 1	36.8	33.2	30.4	27.6	25.8	—	—	—	—	—	—	—	—	—	—
	L	17.6	17.8	19.0	22.4	25.4	28.4	29.3	27.7	24.8	23.7	—	—	—	—	—	—	—	—	—	—
Giza	H	67.8	66.3	65.0	44.6	38.6	34.2	32.4	29.8	26 5	24.5	39.5	32.0	31.2	29.6	28.6	27.5	25.8	23.8	22.1	—
	L	17.0	18.5	18.6	25.0	28 3	29.9	29.6	27.2	24.6	23.7	19.0	20.6	20.8	21.6	23.0	23.8	23.3	21.6	20.8	—
Kharga. . . .	H	67.0	63,0	59.8	53.8	44 8	38 5	35.2	31.8	29 0	27.6	—	—	—	—	—	—	—	—	—	—
	L	18.0	21,2	22.2	24.0	30.0	32.6	32.4	29.5	27.6	26.7	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

JUNE— 1965

STATION	Wind Speed m/sec (2 metres)			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value (knots)	Date
El Kasr	3,8	2,9	5.0	—	—	—	—	—	—	—	—	—
Tahrir	3,1	2,4	4,0	30	23	6	1	0	0	0	31	13
Giza . . , , , ,	2,9	2,5	3,5	30	17	3	0	0	0	0	30	2,20
Kharga , , , ,	4,3	3,4	5,5	—	—	—	—	—	—	—	—	—

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MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 7

JULY, 1965

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CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties, the U.A.R. Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :
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THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Departmen: since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in the U.A.R.

UNITED ARAB REPUBLIC

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METEOROLOGICAL DEPARTMENT
CAIRO

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Note : For explanatory notes on tables please refer to Volume 8 Number 1 (January 1965).

GENERAL SUMMARY OF WEATHER CONDITIONS

JULY 1965

Rather mild and humid in the coastal and precoastal districts, hot in the Central districts and excessively hot and dry in the southern districts.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was generally mild in the northern parts, hot in the middle parts and excessively hot in the southern parts. As an exception two hot spells prevailed over the west coast on the 10th & 20th. Early morning mist and fog developed for many days over scattered localities of the Delta, Canal, & Cairo areas.

PRESSURE DISTRIBUTION

The general features of the pressure distribution over the surface map during this month can be summarized in :

— The Siberian Anticyclonic ridge over the Black Sea area.

— The local Anticyclone over Libya.

— The complex monsoon low pressure systems over Arabian Gulf and African Great Sahara.

— Successive transits of low pressure systems in the high latitudes through Europe.

While in the upper levels there was :

— A planetory wave north latitude 50°N with a closed low over north Atlantic and another over north Russia.

This month started by the complex monsoon lows over the Arabian Gulf & Sudan and Africa Great Sahara and a local Anticyclone over Central Mediterranean and Libya. The two major troughs in the upper layers up to about 200 mb level were extending over west Europe and Russia.

During the first week, the upper trough over west Europe slowly moved eastwards and reached east Mediterranean round the 4th, while the closed upper center was almost stationary over north Europe. In the meantime, the monsoon low over Iraq showed a westward oscillation towards east Mediterranean. Consequently the M.S.L. pressure attained a minimum value round the 4th.

With the upper closed centre of low pressure over north Europe, there was a trough of low pressure remaining over Central Mediterranean which made an eastward oscillation round the 11th. This together with another westward oscillation of the Iraq Monsoon low towards east Mediterranean, gave another fall in the barometric pressure round that day.

Round the end of the 2nd week, the warm upper subtropical high over north Africa intensified together with the local surface high pressure over Libya. The M.S.L. pressure attained its maximum value for the whole month round the 15th (3—5 mbs above normal).

During the second half of the month, the upper trough over the black Sea area, oscillated three times towards east Mediterranean and accordingly the Monsoon low over Iraq showed three westward oscillations. The barometrc pressure over the U.A.R. acordingly experienced three marked falls round the 20th, 24th and 30th.

Generally speaking, the brometric pressure during this month was oscillatory, above normal during the first half (1—4 mbs) and below normal in the rest of the month (1—3 mbs).

During the whole month, the subtropical jet stream oscillated over the U.A.R. at about 162 mb level. The highest wind speeds recorded at Mersa Matruh, Helwan & Aswan were 89,98 & 64 knots respectively.

SURFACE WIND

The prevailing winds were light/moderate NW ly/N ly in general. Fresh/strong winds blew occasionally for few days over scattered localities of the Republic, apart from the Mediterranean (Western parts) and the Red Sea districts where these winds below frequently most day time intervals of this month. Calms were frequent night and early morning intervals over scattered localities from Upper Egypt and Wesern Desert districts.

TEMPERATURE

Maximum temperature was rather normal in the northern parts and its values ranged between 27°C & 31°C in general. Over the middel and southern parts it was oscillatory and its values ranged between 31°C & 39°C and between 35°C &45°C respectively.

The absolute maximum temperature for the Republic was 45.0 reported at Aswan on the 8th.

Minimum temperature was similarly rather normal in the northern parts and its values ranged between 19°C & 24°C in general. Over the middle parts it was round normal and its values ranged between 16°C & 22°C ; while over the southern districts it was subnormal and its values ranged between 20°C &26°C.

The absolute minimum temperature was 12.4°C reported at Sakha on the 14th.

PRECIPITATION

No rain was reported all over the country during this month.

Cairo, July 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

JULY — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms. Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1011.2	+0.9	32.2	+1.3	22.4	+1.1	27.3	27.0	—0.9	21.2	—0.2	57	— 7	—	—	—	10.6
Mersa Matruh (A)	1011.1	+1.3	29.1	—0.1	21.0	+0.7	25.0	25.1	+0.1	21.7	+0.2	73	0	382.3	433.6	88.2	8.3
Alexandria (A)	1009.3	+0.8	30.1	+0.4	22.4	—0.2	26.2	25.7	—0.3	22.2	—0.2	73	0	376.9	432.3	87.2	5.7
Port Said (A)	1008.1	+0.6	30.7	+0.3	23.6	—0.5	27.2	26.6	—0.1	22.7	—0.4	70	— 2	352.5	432.3	81.5	6.1
El Arish	1008.2	+0.7	30.4	—0.2	21.0	—0.2	25.7	26.1	—0.1	22.7	—0.2	73	— 1	382.3	431.4	88.6	5.7
Ghazza	1007.9	+0.4	28.7	+0.1	21.3	—0.1	25.5	25.4	—0.1	22.6	—0.3	78	— 1	359.9	433.6	83.0	4.8
Tanta	1008.4	+0.8	34.2	—0.2	20.3	+1.0	27.2	26.6	+0.1	21.5	+0.1	62	0	368.7	431.0	85.5	6.5
Cairo (A)	1008.8	+0.8	35.8	+0.6	21.3	+0.2	28.6	27.3	—0.6	21.1	—0.2	55	+ 2	—	—	—	15.1
Fayoum	1008.2	+0.5	37.2	+0.5	20.9	—0.6	29.0	29.0	+0.1	20.7	—0.1	44	— 1	—	—	—	12.7
Minya (A)	1008.1	+1.2	35.6	—1.1	19.6	—0.7	27.6	27.6	—0.9	20.1	—0.2	46	+ 1	—	—	—	11.2
Assyout (A)	1007.6	+0.8	36.8	0.0	22.1	—0.2	29.4	29.6	—0.2	19.5	+0.1	34	0	—	—	—	18.9
Luxor (A)	1005.5	+0.7	39.4	—1.1	23.0	—0.6	31.2	32.0	—0.8	19.4	—0.5	26	+ 1	—	—	—	13.9
Aswan (A)	1005.5	+0.8	41.5	+0.4	22.9	—1.8	32.2	33.3	—0.3	18.0	—0.1	15	0	—	—	—	21.3
Siwa	1010.5	+0.8	37.9	0.0	21.4	+0.7	29.6	30.0	+0.3	19.3	—0.1	32	— 2	—	—	—	18.7
Bahariya	1008.4	+0.4	37.7	+0.8	21.0	+0.5	29.4	29.6	+0.2	19.6	+0.2	35	— 1	—	—	—	14.0
Farafra	1009.2	—0.2	37.4	+0.2	20.6	—0.7	29.0	29.4	—0.4	18.2	+0.6	28	+ 4	—	—	—	23.1
Dakhla	1008.3	+1.5	39.1	+0.6	22.1	—0.8	30.6	30.9	—0.1	17.6	—0.3	20	— 1	—	—	—	34.4
Kharga	1007.2	+0.8	39.9	+0.5	22.3	—0.9	31.1	32.2	+0.6	17.5	—1.2	21	— 5	391.9	418.3	93.7	29.5
Tor	1005.6	+1.0	35.2	+0.6	23.9	—0.6	29.6	29.2	+0.3	23.4	+0.5	59	+ 1	—	—	—	13.0
Hurghada	1005.4	+1.0	33.8	+0.9	24.7	—0.2	29.2	29.6	0.0	20.9	—0.8	42	— 5	—	—	—	23.2
Qaseir	1006.0	+1.2	32.7	—0.5	24.9	—1.4	28.8	29.4	—0.5	21.3	—0.9	46	— 2	—	—	—	19.8

TABLE A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

JULY — 1965

STATION	Maximum Temperature °C									Grass Min. Temps.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<— 5
Sallum	38.8	10	26.7	13	31	23	4	0	0	21.8	—	25.5	6	20.1	4	0	0	0	0
Mersa Matruh (A)	31.4	27	26.5	2	31	8	0	0	0	—	—	23.2	29	18.6	16	0	0	0	0
Alexandria (A)	33.0	6	27.5	14	31	16	0	0	0	—	—	24.5	29	17.6	1	0	0	0	0
Port Said (A)	34.6	27	27.0	15	31	19	0	0	0	22.6	—	25.3	27	20.3	13.14	0	0	0	0
El Arish	33.0	7	28.1	14	31	17	0	0	0	18.4	—	23.2	22	18.6	15	0	0	0	0
Ghazza	—	—	—	—	—	—	—	—	0	20.0	—	—	—	—	—	—	—	—	—
Tanta	37.5	26	28.8	13	31	30	12	0	0	—	—	22.6	4,11	17.7	1,14	0	0	0	0
Cairo (A)	39.9	7	30.3	15	31	31	15	0	0	—	—	22.9	29	18.6	17	0	0	0	0
Fayoum	41.9	7	31.6	13	31	31	27	3	0	18.6	—	23.9	6	19.4	5	0	0	0	0
Minya (A)	39.4	11	31.3	14	31	31	17	0	0	—	—	22.5	24	16.1	14	0	0	0	0
Assyout (A)	41.8	7·11	31.2	14	31	31	23	3	0	20.9	—	25.0	7	17.9	13	0	0	0	0
Luxor (A)	44.5	11	34.0	14	31	31	30	22	0	17.1	—	27.8	12	20.2	14	0	0	0	0
Aswan (A)	45.0	8	36.1	14	31	31	31	26	0	—	—	26.1	9	20.2	15	0	0	0	0
Siwa	42.3	7,11	32.0	14	31	31	28	6	0	19.7	—	25.9	7	18.2	14	0	0	0	0
Bahariya	42.5	11	32.0	13	31	31	25	5	0	19.6	—	23.9	27	18.0	14	0	0	0	0
Farafra	42.3	29	32.3	14	31	31	26	6	0	19,8	—	23.0	21	17.0	13,14	0	0	0	0
Dakhla	43.6	11	33.2	14	31	31	28	14	0	—	—	28.3	12	15.9	20	0	0	0	0
Kharga	44.4	11	34.0	14	31	31	30	16	0	21.8	—	28.4	7	18.0	19	0	0	0	0
Tor	42.5	11	30.8	14	31	31	17	1	0	—	—	26.7	4	21.9	19	0	0	0	0
Hurghada	37.9	11	31.1	15	31	31	8	0	0	23.3	—	27.2	12	23.0	20	0	0	0	0
Quseir	36.8	11	29.4	14	31	30	2	0	0	20.2	—	27.5	12	21.3	15	0	0	0	0

TABLE A 3.— SKY COVER AND RAINFALL

JULY — 1965

Station	Mean Sky Cover (Oct)					Rainfall (mms)										
	00 U.T.	06 U.T.	12 U.T.	18 U T	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	0.2	0.5	0.3	0.2	0.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Mersa Matruh (A)	1.0	1.0	0.5	0.9	0.9	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Alexandria (A)	2.4	2.3	1.4	1.0	1.7	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Port Said (A)	0.6	2.4	0.2	0.4	0.8	0.0	0.0	0.0	—	0	0	0	0	0	0	0
El Arish	1.8	1.5	0.1	1.0	0.9	0.0	0.0	0.0		0	0	0	0	0	0	0
Ghazza	2.1	2.4	0.5	1.4	1.2	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Tanta	—	1.6	0.5	0.1	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Cairo (A)	1.2	3.4	0.4	0.0	1.2	0.0	0.0	0.0		0	0	0	0	0	0	0
Fayoum	—	0.6	0.0	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.1	0.3	0.3	0.3	0.2	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.1	0.9	0.5	0.7	0.5	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Bahariya	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.1	0.1	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Kharga	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
or	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
urghada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
useir	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0

TABLE A 4—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

JULY—1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sollum		0	0	0	0	0	1	0	0	0	4	1	0	30	0
Mersa Matruh (A)	0	0	0	0	0	0	7	0	0	0	2	0	0	23	0
Alexandria (A)	0	0	0	0	0	0	0	3	0	0	0	0	0	20	0
Port Said (A)	0	0	0	0	0	0	1	1	0	0	0	0	0	29	0
El Arish	0	0	0	0	0	0	3	0	0	0	2	0	0	24	0
Ghazza	0	0	0	0	0	0	2	3	0	0	0	0	0	22	0
Tanta	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo	0	0	0	0	0	0	17	6	6	0	0	0	0	25	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Assyout (A)	0	0	0	0	0	0	0	0	4	0	1	0	0	30	1
Luxor (A)	0	0	0	0	0	0	0	0	7	0	1	0	0	30	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	8	0	0	29	0
Siwa	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Bahariya	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Farafra	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Dakhla	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kharga	0	0	0	0	0	0	0	0	0	0	1	0	0	31	0
Tor	0	0	0	0	0	0	4	0	0	0	1	0	0	31	0
Hurghada	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Quseir	0	0	0	0	0	0	0	0	0	0	2	0	0	31	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JULY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Sallum	1	17	1	1—10	38	136	5	7	12	1	0	4	1	10	4	90	348
				11—27	19	38	1	0	0	0	0	0	0	0	139	180	377
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	57	174	6	7	12	1	0	4	1	10	183	270	725
Mersa Matruh (A)	0	0	0	1—10	140	15	0	0	0	0	1	0	0	7	125	136	424
				11—27	182	26	0	0	0	0	0	0	0	0	1	111	320
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				>48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	322	41	0	0	0	0	1	0	0	7	126	247	744
Alexandria (A)	4	1	0	1—10	34	4	0	0	2	0	0	0	0	44	191	136	411
				11—27	6	0	0	0	0	0	0	0	0	10	181	131	328
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	40	4	0	0	2	0	0	0	0	54	372	267	739
Port Said . . (A)	0	1	0	1—10	181	21	1	1	3	7	0	3	38	128	55	123	561
				11—27	29	0	0	0	0	0	0	0	4	30	58	61	182
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	210	21	1	1	3	7	0	3	42	158	113	184	743
El Arish. . . .	20	2	0	1—10	80	22	0	0	3	49	53	66	96	22	70	121	682
				11—27	0	0	0	0	0	0	0	0	6	9	20	5	40
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	80	22	0	0	3	49	53	66	102	31	90	126	722
Ghazza	0	55	23	1—10	38	15	11	5	15	140	44	7	41	91	88	71	566
				11—27	11	0	0	0	0	1	0	0	14	37	16	21	100
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	49	15	11	5	15	141	44	7	55	128	104	92	666
Tanta.	9	5	0	1—10	96	27	0	2	0	0	0	3	92	130	158	210	718
				11—27	0	0	0	0	0	0	0	0	0	0	10	2	12
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	96	27	0	2	0	0	0	3	92	130	168	212	730
Cairo . . . (A)	5	0	35	1—10	109	83	31	11	0	1	0	0	2	38	73	197	545
				11—27	55	29	12	0	0	0	0	0	0	0	5	58	159
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	164	112	43	11	0	1	0	0	2	38	78	255	704
Fayoum	6	6	226	1—10	225	8	1	1	1	0	0	0	1	8	35	216	496
				11—27	5	0	0	0	0	0	0	0	0	0	1	9	10
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	225	8	1	1	1	0	0	0	1	8	36	225	506

TABLE A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

JULY — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Minya	32	29	3	1—10	254	31	1	0	0	0	0	0	0	1	3	260	550
				11—27	61	2	0	0	0	0	0	0	0	0	0	67	130
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	315	33	1	0	0	0	0	0	0	1	3	327	680
Asyout	11	0	0	1—10	24	1	0	0	0	0	0	0	57	215	234	110	641
				11—27	1	0	0	0	0	0	0	0	0	1	69	21	92
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	25	1	0	0	0	0	0	0	57	216	303	131	733
Luxor	31	0	0	1—10	55	21	10	8	10	11	56	94	56	94	73	122	610
				11—27	8	1	0	0	0	0	0	4	6	5	5	74	103
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	63	22	10	8	10	11	56	98	62	99	78	196	713
Aswan	4	0	1	1—10	139	125	8	1	0	1	14	7	15	32	106	179	627
				11—27	37	12	0	0	0	0	0	0	0	13	26	24	112
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	176	137	8	1	0	1	14	7	15	45	132	203	739
Siwa	35	31	6	1—10	111	186	86	19	5	1	0	1	7	25	53	124	618
				11—27	17	13	3	0	0	0	0	0	0	0	4	17	54
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	128	199	89	19	5	1	0	1	7	25	57	141	672
Dakhla	3	7	0	1—10	155	56	14	12	15	0	8	15	13	58	100	233	697
				11—27	17	12	0	0	0	0	0	0	0	0	0	8	37
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	172	68	14	12	15	0	8	15	13	58	100	241	734
Tor	0	0	0	1—10	6	2	1	1	6	7	3	0	10	26	62	9	133
				11—27	5	0	0	1	0	0	0	2	3	36	528	35	610
				28—47	0	0	0	0	0	0	0	0	1	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	11	2	1	2	6	7	3	2	14	62	590	44	744
Hurghada	4	2	0	1—10	12	19	3	4	4	10	3	0	2	16	62	32	167
				11—27	198	22	0	0	0	0	0	0	0	13	72	256	561
				28—47	1	0	0	0	0	0	0	0	0	0	0	9	10
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	211	41	3	4	4	10	3	0	2	29	134	297	738
Quseir	15	44	0	1—10	166	22	5	5	2	5	7	4	12	56	67	153	504
				11—27	73	0	0	0	0	0	0	0	0	0	1	107	181
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	239	22	5	5	2	5	7	4	12	56	68	260	685

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. – MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

JULY — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	31	*1011mb	*1015mb	*1008mb	31	23.0	26.0	21.0	31	2[illegible].1
	1000	31	125	157	97	31	22.9	25.1	20.6	31	19.1
	850	31	1536	1572	1508	31	19.1	25.0	9.7	24	1.5
	700	31	3176	3224	3110	31	10.4	15.6	4.0	6	— 5.4
	600	31	4439	4500	4346	31	2.6	5.0	— 2.0	2	—16.1
	500	31	5890	5959	5773	31	— 6.2	— 0.2	—10.9	—	—
	400	31	7599	7680	7471	31	—17.3	—12.7	—23.0	—	—
	300	30	9700	98[illegible]7	9528	30	—31.7	—28.8	—37.1	—	—
	200	26	12459	12566	12224	26	—50.3	—48.0	—53.3	—	—
	150	24	14283	14386	14045	24	—62.5	—59.0	—65.0	—	—
	100	15	16737	16803	16514	15	—72.9	—67.2	—78.7	—	—
	70	10	18851	18920	18800	10	—66.7	—63.7	—72.0	—	—
	60	9	19784	19850	19713	9	—60.1	—59.8	—71.0	—	—
	50	8	20932	20988	20888	8	—57.7	—54.7	—61.3	—	—
	40	3	22323	22368	22293	3	—55.7	—53.5	—57.0	—	—
	30	3	24171	24237	24129	3	—52.0	—49.9	—54.0	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	*993mb	*996mb	*990mb	31	23.2	25.5	19.4	31	17.5
	1000	31	82	108	60	—	—	—	—	—	—
	850	31	1486	1518	1461	31	20.0	23.8	11.6	20	— 1.3
	700	31	3133	3165	3078	31	11.9	14.4	6.2	3	— 7.5
	600	31	4404	4444	4325	31	4.5	8.0	— 2.7	2	—13.4
	500	31	5864	5903	5750	31	— 4.3	1.3	—11.6	—	—
	400	30	7590	7660	7428	30	—15.3	—11.2	—21.4	1	—28.0
	300	30	9701	9784	9519	30	—30.0	—26.4	—32.6	—	—
	200	30	12468	12558	12278	30	—50.0	—47.5	—51.7	—	—
	150	30	14293	14388	14095	30	—63.1	—61.3	—67.0	—	—
	100	26	16704	16808	16506	26	—75.1	—67.5	—68.6	—	—
	70	21	18803	18910	18670	21	—69.3	—63.0	—75.6	—	—
	60	16	19730	19831	19623	16	—63.7	—65.5	—70.7	—	—
	40	16	20861	20974	20745	16	—59.1	—55.7	—62.8	—	—
	50	12	22372	23351	22138	12	—55.8	—53.6	—58.2	—	—
	30	9	24159	24243	24051	9	—52.1	—46.7	—54.6	—	—
	20	3	26786	26877	26726	3	—46.1	—43.9	—49.7	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	24	*984mb	*988mb	*98[illegible]mb	24	27.7	32.0	24.2	24	5.2
	1000	24	56	88	33	—	—	—	—	—	—
	850	24	1491	1519	1473	24	24.4	28.8	17.8	18	0.8
	700	24	3153	3193	3123	24	13.1	16.2	9.9	9	— 6.6
	600	24	4427	4475	4388	24	4.3	6.7	1.3	8	—19.0
	500	24	5888	5937	5834	24	— 3.4	— 1.3	— 7.8	4	—29.0
	400	24	7616	7676	7542	24	—14.9	—11.7	—18.0	—	—
	300	24	9727	9792	9634	24	—30.4	—27.3	—33.1	—	—
	200	24	12488	12580	12361	24	—51.5	—49.4	—54.6	—	—
	150	22	14303	14404	14144	22	—65.4	—61.3	—66.6	—	—
	100	21	16697	16805	16510	21	—77.2	—71.4	—80.5	—	—
	70	18	18792	18920	18720	18	—69.7	—58.8	—73.9	—	—
	60	12	19705	19840	19617	12	—65.2	—61.4	—67.7	—	—
	50	11	20821	20963	20730	11	—60.5	—51.3	—63.6	—	—
	40	6	22282	22371	22149	6	—57.4	—54.8	—60.3	—	—
	30	6	24057	24206	23973	6	—55.0	—52.7	—57.2	—	—
	20	3	26638	26679	26615	3	—47.2	—44.0	—49.7	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. (*contd.*)- MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

JULY — 1965

Station	Pressure Surface Millibar	Altitune of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	30	*1012mb	*1016mb	*1008mb	30	28.0	30.8	25.8	30	21.4
	1000	30	131	170	98	30	26.5	30.3	24.0	30	18.5
	850	30	1550	1590	1512	30	21.4	26.1	10.6	25	— 0.1
	700	30	3197	3266	3132	30	11.3	14.3	5.6	9	—10.0
	600	30	4466	4540	4382	30	3.9	7.6	0.1	2	—13.7
	500	30	5921	6000	5814	30	— 5.6	0.1	—10.7	2	—22.7
	400	30	7639	7719	7490	30	—16.7	—11.4	—23.5	—	—
	300	29	9738	9835	9539	29	—30.9	—26.9	—37.0	—	—
	200	27	12505	12613	12310	27	—49.2	—47.0	—51.0	—	—
	150	27	14342	14463	14170	27	—61.3	—55.4	—63.6	—	—
	100	23	16797	16930	16676	23	—72.6	—66.5	—76.8	—	—
	70	17	18926	19050	18830	17	—67.0	—59.2	—75.0	—	—
	60	14	19874	19996	19779	14	—60.6	—56.0	—62.9	—	—
	50	10	21028	21152	20958	10	—55.2	—51.8	—58.4	—	—
	40	6	22441	22602	22358	6	—51.2	—49.2	—53.0	—	—
	30	2	24299	24300	24298	2	—41.9	—35.0	—48.8	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	30	*992mb	*996mb	*990mb	30	33.9	40.0	28.5	30	11.2
	1000	30	76	108	60	—	—	—	—	—	—
	850	30	1503	1533	1476	30	21.6	28.0	14.4	21	0.9
	700	30	3157	3204	3104	30	13.3	16.8	8.4	3	— 7.0
	600	30	4444	4482	4368	30	6.0	9.1	2.9	1	— 9.9
	500	30	5901	5946	5826	30	— 3.2	2.7	— 8.9	—	—
	400	30	7635	7710	7524	30	—13.9	— 9.8	—20.4	—	—
	300	30	9754	9845	9601	30	—28.9	—25.3	—31.8	—	—
	200	29	12536	12655	12365	29	—48.7	—46.9	—51.6	—	—
	150	29	14373	14490	14196	28	—61.6	—59.8	—63.6	—	—
	100	28	16800	16929	16649	24	—74.2	—69.2	—79.0	—	—
	70	24	18809	19030	18630	22	—68.4	—59.3	—78.3	—	—
	60	22	19845	19962	19721	21	—61.8	—55.8	—70.1	—	—
	50	21	20992	21113	20846	16	—56.3	—50.8	—59.8	—	—
	40	16	22414	22568	22266	16	—52.4	—49.8	—58.0	—	—
	30	8	24282	24461	24122	8	—48.8	—44.6	—52.8	—	—
	20	2	26958	27057	26859	2	—44.6	—43.9	—45.2	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	23	*984mb	*987mb	*982mb	23	39.6	44.0	33	23	6.3
	000	23	48	77	28	—	—	—	—	—	—
	850	23	1505	1519	1487	23	25.5	31.3	19.5	15	— 0.2
	700	23	3169	3194	3135	23	13.2	17.3	10.1	10	— 8.7
	600	23	4444	4486	4406	23	4.8	7.0	3.0	6	—11.6
	500	23	5909	5961	5859	23	— 3.2	1.4	— 8.3	3	—19.1
	400	23	7642	7713	7590	23	—13.8	—10.0	—17.6	—	—
	300	23	9765	9841	9678	23	—28.8	—23.7	—34.2	—	—
	200	23	12546	12668	12414	23	—49.3	—45.9	—52.7	—	—
	150	23	14377	14531	14227	23	—62.2	—58.7	—66.1	—	—
	100	22	16805	17001	16715	22	—74.7	—70.8	—78.8	—	—
	70	18	18877	18992	18792	18	—70.7	—62.2	—77.4	—	—
	60	7	19809	19866	19748	7	—64.0	—61.2	—67.0	—	—
	50	7	20938	20981	20873	7	—59.1	—56.3	—61.7	—	—
	40	6	22364	22409	22281	6	—54.4	—51.2	—57.4	—	—
	30	6	24248	24288	24129	6	—49.0	—46.0	—50.7	—	—
	20	3	26980	26986	26977	3	—42.2	—41.4	—43.5	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* [illegible]

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

JULY — 1965

	Station	Freezing level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 UT		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A)	4896 (31)	567 (31)	-14.3 (3)	5860	504	—	3700	650	-11.5	16358 (10)	107 (10)	-73.0 (10)	17510	88	-75.1	15780	115	-67.5	6470	464	234	89
	Helwan . . .	5200 (31)	545 (31)	-12.7 (2)	6120	486	—	3900	633	. .	16625 (21)	102 (21)	-74.9 (21)	17800	82	-80.2	15330	125	-67.8	21555	48	200	98
	Aswan . .(A)	5179 (24)	549 (24)	-12.1 (7)	5760	508	—	4780	575	-13.8	16449 (19)	105 (19)	-77.0 (19)	17560	86	-81.8	15270	127	-70.0	15610	119	150	64
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A)	5115 (30)	555 (30)	-15.5 (2)	6000	497	—	4380	598	—	16599 (20)	104 (20)	-72.6 (20)	17780	85	-73.3	14700	142	-63.7	10825	248	260	88
	Helwan . . .	5465 (30)	529 (30)	-13.5 (1)	6400	472	—	4820	574	-13.5	17014 (25)	97 (25)	-75.1 (25)	18290	78	-79.0	14740	138	-67.0	10250	275	230	92
	Aswan . .(A)	5363 (23)	536 (23)	-16.4 (3)	6200	484	—	4700	571	—	16703 (19)	102 (19)	-75.6 (19)	17750	82	-79.4	15250	123	-70.2	15990	111	130	62

N = The number of cases the element has been observed during the month.

TABLE B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A)— JULY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000 –360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	5	9	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	8	13	6	11	9	0	31	8
	1000	2	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	13	12	14	12	0	29	12
	850	12	19	4	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	20	10	23	0	29	21
	700	8	19	2	29	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	25	7	17	0	25	21
	600	3	23	2	22	0	—	0	—	0	—	0	—	0	—	1	7	0	—	1	17	9	25	3	22	0	19	22
	500	4	17	1	23	0	—	0	—	0	—	0	—	0	—	0	—	2	48	3	36	4	28	3	26	0	17	28
	400	2	15	1	5	0	—	0	—	0	—	0	—	1	16	0	—	4	37	1	11	4	28	3	19	0	16	24
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	5	32	3	22	4	24	0	—	0	13	25
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	41	1	7	4	18	0	—	0	10	29
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	22	1	34	4	20	0	—	0	—	0	8	23
	100	0	—	0	—	0	—	0	—	0	—	1	10	0	—	0	—	2	15	1	8	0	—	0	—	0	4	12
	70	0	—	0	—	0	—	1	6	1	16	1	3	0	—	0	—	0	—	0	—	0	—	0	—	0	3	8
	60	0	—	0	—	2	14	0	—	1	5	0	—	0	—	0	—	0	—	0	—	0	—	—	—	0	3	11
	50	0	—	0	—	0	—	1	29	1	27	0	—	0	—	0	—	1	12	0	—	0	—	—	—	0	3	23
	40	0	—	0	—	0	—	1	22	0	—	0	—	0	—	1	5	0	—	0	—	0	—	—	—	0	2	14
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	20	14	1	13	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	15	0	30	14
	1000	2	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	16	22	21	0	30	19
	850	9	17	3	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	18	10	17	0	30	17
	700	3	9	8	22	0	—	0	—	0	—	0	—	0	—	1	8	1	18	2	16	8	22	7	15	0	30	18
	600	6	13	4	25	0	—	0	—	0	—	0	—	0	—	2	14	2	11	2	12	10	22	3	18	0	29	18
	500	4	18	5	22	0	—	0	—	0	—	0	—	0	—	0	—	4	12	4	19	6	28	2	22	0	25	20
	400	2	9	2	18	0	—	0	—	0	—	0	—	1	13	3	23	3	18	7	21	5	26	2	20	0	25	20
	300	1	10	0	—	0	—	0	—	0	—	0	—	0	—	2	10	4	20	5	31	6	25	2	14	0	20	22
	200	0	—	0	—	0	—	0	—	0	—	0	—	2	14	3	26	6	30	5	27	1	11	0	—	0	17	25
	150	0	—	0	—	0	—	0	—	0	—	0	—	3	15	6	30	0	—	3	27	1	10	1	14	0	14	24
	100	0	—	0	—	0	—	0	—	2	10	2	11	0	—	4	15	0	—	0	—	1	7	0	—	0	9	12
	70	0	—	0	—	0	—	0	—	4	18	1	31	0	—	0	—	0	—	0	—	0	—	0	—	0	5	21
	60	0	—	0	—	0	—	2	24	2	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	24
	50	0	—	0	—	0	—	2	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	24
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month

TN = The total number of cases the wind has been obeserved for all directions during the month

Table B 3. *(contd)*—**NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES**

HELWAN — JULY 1965

Time	Pressure Surface (Millibar)	Wind between ranges of direction (000 – 360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	13	8	2	5	1	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	4	9	7	3	31	6
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	17	9	15	0	—	0	—	0	—	0	—	0	—	1	5	1	9	2	8	5	15	10	14	0	31	14
	700	6	17	6	15	0	—	1		0	—	0	—	1	10	1	5	1	10	1	33	7	17	7	7	0	31	14
	600	3	10	7	15	0	—	1	8	1	3	0	—	2	8	1	2	1	16	6	19	7	15	2	16	0	31	14
	500	3	13	2	14	0	—	0	—	0	—	0	—	0	—	4	14	5	20	7	22	5	10	4	16	1	31	15
	400	1	10	2	6	0	—	0	—	0	—	0	—	1	17	5	24	12	25	4	18	1	49	3	14	1	30	21
	300	0	—	1	6	0	—	0	—	0	—	0	—	2	21	4	36	16	34	3	14	3	22	0	—	1	30	27
	200	0	—	0	—	0	—	0	—	1	14	1	25	8	33	5	24	11	33	3	33	1	18	0	—	0	30	30
	150	0	—	1	24	0	—	1	17	1	9	2	21	8	32	3	35	7	34	3	22	0	—	0	—	0	28	29
	100	0	—	0	—	1	23	0	—	4	18	3	24	3	23	2	32	4	34	1	42	0	—	0	—	0	18	27
	70	0	—	0	—	0		3	19	3	22	2	24	0	—	0	—	2	48	0	—	2	26	0	—	0	12	27
	60	0	—	0	—	1	24	3	27	2	23	0	—	1	13	1	88	0	—	0	—	0	—	0	—	0	8	32
	50	0	—	0	—	0	—	4	28	3	29	0	—	0	—	1	73	0	—	0	—	0	—	0	—	0	8	34
	40	0	—	0	—	0	—	3	40	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	37
	30	0	—	0	—	0	—	1	25	1	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	30
	20	0	—	0	—	0	—	2	57	0	—	0	—	0		0	—	0	—	0	—	0	—	0	—	0	2	57
	10	—	—	—	—	—	—	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	8	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	9	5	12	9	12	7	11	0	30	12
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	6	10	8	15	2	6	3	6	0	—	0	—	1	5	0	—	0	—	1	17	3	10	6	17	0	30	12
	700	5	12	3	30	1	3	0	—	0	—	0	—	0	—	3	10	0	—	8	7	6	13	4	17	0	30	13
	600	4	8	3	21	1	14	1	4	0	—	0	—	0	—	4	7	3	9	3	14	7	13	4	14	0	30	12
	500	2	10	0	—	2	9	1	3	0	—	1	2	2	3	2	20	4	16	7	16	7	14	2	8	0	30	13
	400	1	9	0	—	1	11	0	—	0	—	0	—	2	20	4	24	12	22	7	16	3	15	0	—	0	30	19
	300	1	10	0	—	0	—	0	—	0	—	0	—	2	26	6	27	11	22	5	20	2	28	1	8	1	29	22
	200	0	—	0	—	0	—	0	—	1	15	3	14	3	22	10	28	8	29	4	43	0	—	0	—	0	29	28
	150	0	—	1	10	0	—	0	—	3	14	2	13	8	34	5	25	7	33	1	10	0	—	1	8	0	28	25
	100	0	—	0	—	0	—	1	18	4	19	4	18	3	31	5	21	1	52	2	16	0	—	0	—	0	20	22
	70	0	—	0	—	0	—	5	30	6	26	1	10	2	24	0	—	0	0	0	—	0	—	0	—	0	14	26
	60	0	—	0	—	0	—	3	37	7	28	0	—	1	34	1	21	0	—	0	—	0	—	0	—	0	12	30
	50	0	—	0	—	0	—	5	33	1	20	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	7	31
	40	0	—	0	—	0	—	0	—	1	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	36
	30	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	20
	20	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element thas been observed during the month.

TN = The total number of cases the wind has beeu observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — JULY 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	11	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	6	10	12	1	24	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	4	14	2	10	0	—	1	2	0	—	0	—	0	—	0	—	0	—	0	—	9	9	7	12	0	23	10
	700	1	4	1	18	0	—	0	—	0	—	1	21	3	4	4	13	3	15	6	18	2	11	2	11	0	23	13
	600	1	3	2	11	2	6	1	11	1	5	0	—	0	—	1	11	9	23	4	20	2	10	0	—	0	23	16
	500	1	3	0	—	3	8	4	14	1	10	1	4	0	—	3	10	4	12	1	19	2	10	1	11	0	21	11
	400	0	—	0	—	2	8	4	18	6	16	1	11	2	12	1	14	1	20	1	2	2	13	1	10	0	21	14
	300	0	—	0	—	1	26	7	18	2	22	6	9	5	17	0	—	0	—	0	—	0	—	0	—	0	21	16
	200	0	—	0	—	0	—	5	24	5	23	7	24	3	18	1	15	0	—	0	—	0	—	0	—	0	21	23
	150	0	—	0	—	1	33	5	29	5	28	7	33	0	—	1	27	0	—	0	—	0	—	0	—	0	19	31
	100	0	—	0	—	0	—	3	42	8	41	2	18	1	27	0	—	0	—	0	—	0	—	0	—	0	14	37
	70	0	—	0	—	0	—	5	29	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	6	31
	60	0	—	0	—	1	41	2	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	34
	50	0	—	0	—	1	40	2	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	37
	40	0	—	0	—	0	—	2	32	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	32
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	5	11	1	11	0	—	0	—	1	10	0	—	0	—	2	12	0	—	2	8	5	9	7	12	0	23	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	1	14	0	—	0	—	0	—	0	—	0	—	0	—	3	9	2	9	13	12	4	14	0	23	11
	700	0	—	1	22	0	—	0	—	0	—	0	—	0	—	2	13	11	17	5	19	2	9	2	12	0	23	16
	600	1	2	2	13	0	—	0	—	0	—	0	—	1	6	8	17	5	22	4	11	1	2	1	10	0	23	14
	500	0	—	1	17	1	15	3	13	2	12	2	12	2	22	7	12	2	8	2	13	1	5	0	—	0	23	13
	400	1	6	2	8	1	17	7	20	5	15	2	8	0	—	4	11	0	—	1	6	0	—	0	—	0	23	14
	300	0	—	0	—	3	20	7	22	6	23	4	19	2	21	0	—	0	—	1	11	0	—	0	—	0	23	21
	200	0	—	0	—	2	19	5	30	7	25	7	22	2	14	0	—	0	—	0	—	0	—	0	—	0	23	24
	150	0	—	1	12	0	—	6	40	7	25	8	32	0	—	0	—	0	—	0	—	0	—	0	—	0	22	31
	100	0	—	0	—	0	—	7	39	10	33	1	51	0	—	0	—	0	—	0	—	0	—	0	—	0	18	36
	70	0	—	0	—	0	—	3	31	3	37	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	6	34
	60	0	—	0	—	0	—	3	45	2	25	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	5	37
	50	0	—	0	—	0	—	1	35	4	34	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	5	35
	40	0	—	0	—	0	—	2	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	26
	30	0	—	0	—	0	—	1	37	1	31	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	34
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.
TN — The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR — JULY 1965

This month was rather mild in general. The mean daily air temperature at 2 metres above ground was only 0.3°C above normal, while the mean daily relative humidity was 1% below normal.

The month started with absolute values of minimum air temperature at 5 cms and 210 cms levels above ground (15.9°C & 18.2°C), and absolute minimum soil temperature for depths between 5 cms & 200 cms respectively.

Two light heat waves prevailed round the periods (4th-12th) and (15th-30th). The first heat wave was characterised by a peak (30.3°C) on the 10th, lowest relative humidity for the month (42%) on the 12th, and maximum Piche evaporation (24.4 mms) on the 13th. The second heat wave attained its peak (30.4°C) on the 27th and was charecterised by the absolute minimum soil temperature for layers between 0.3 cms & 2 cms, and the absolute maximum soil temperatures for the layers between 0.3 cms 10 cms on the 16th & 26th respectively.

The extreme maximum soil temperatures at depths between 1 cm & 50 cms in the dry field were higher than the corresponding values of last July; the maximum deviation was 1.3°C at 1 cm depth, but for 0.3 cm depth, it was lower than last July by 1.8°C. The extreme minimum soil teperatures in the layers between 0.3 & 50 cms depth in the dry field were higher than the corresponding values of last July with maximum deviation of 2.1°C at depths 1 & 2 cms.

The mean daily wind speed at 2 metres above ground was 0.2 m/sec more than that at last July. The total actual duration of bright sunshine was 90& of the total possible duration.

TAHRIR — JULY 1965

This month was rather mild in general and rather foggy in the early morning. As compared with July 1964, the mean daily values of air temperature, relative humidity and vapour presure were higher this year by 0.7°C,, 1% and 1.0 mms respectively.

Three variant heat waves have been experienced, the last of which & the excessive prevailed during the last decade. It attained its peak (40°C maximum temperature) on the 26th, while on the 27th both relative humidity and vapour pressure were lowest during the month.

As for soil temperature extremes, both maxima and minima were higher than last year. The maxima were higher by 1.2 to 3.9°C while the minima were higher only by 0.3°C to 1.3°C.

For the month as a whole, the mean values of the surface wind speed at 2 metres, the Piche evaporation and the Pan class "A" evaporation, were less by 0.3 metres/second, 0.4 mms, 1.05 mms respectively than the corresponding values of last July. On the other hand the mean global radiation, this month, exceeded the last year value by 21 langleys.

GIZA — JULY 1965

This month was rather normal with respect to air temperature and relative humidity. The mean daily air temperature at 2 metres above ground was 0.2°C below normal, while the mean daily relative humidity was only 1% above normal.

Two heat waves prevailed round periods (5th-7th) and (24th-29th) respectively. The first heat wave attained 39.7°C (peak) on the 7th, which was the highest temperaure during the month. The second heat wave attained its peak on the 28th (2.8°C above normal). The first heat wave was preceded by a mild period between the first and the fourth, during which maximum fall of temperature below normal was 3.0°C on the 3rd. The second heat wave was also preceded by a mild spell between the 12th and the 18th, which was characterised by the absolute minimum values of air temperature at 2 metres above ground, air temperature at 5 cms above ground in the dry, wet and grass fields and of soil temperatures in the three fields from the surface layer down to 20 cms depth.

The extreme maximum of soil temperatures in the dry field at all depths apart from 1cm depth, were generally higher than the corresponding values of last July. The extreme minima of soil temperatures in the dryfield, from the surface down to 10 cms depth, were lower than the corresponding values of last July (the maximum deviation -1.6°C at 2cms depth), and for further depths they changed sign alternatively.

For the month as a whole the mean dailyvalues of wind speed at 2 metres above ground, Piche evaporation, Pan class A evaporation, potential evaporation and potential evapotranspiration for grass (libia) were higher than their corresponding values of last July by 0.2 m/sec, 1.6 mms, 0.88 mms., 0.2 mms and 0.4 mms respectively.

KHARGA — JULY 1965

The month was mild and rather dry as compared with the normal values of air temperature and relative humidity. The mean daily air temperature at 2 metres above ground was 0.8°C above the normal while the mean daily relative humidity was 10% below normal.

Three heat waves prevailed round the periods (5th-8th), (10th-12th) and (23rd-31st). They attained their peaks on the 8th (42.6°C), 11th (44.4°C) & 27th (43.4°C) respectively. The second heat wave was associated with the absolute maximum air temperature at 2 metres above ground and absolute Piche evaporation (43.8 mms) on the 11th. The prevailing heat waves were separated by rather mild periods. The absolute minimum air temperature at 5 cms above ground was lower than last July value by 0.2°C.

As compared with last July, the extreme maximum soil temperatures in the dry field were higher than their corresponding values, the maximum deviation was 3.6°C at 10 cms depth, while the extreme minima of soil temperatures were nearly the same at the surface layer down to 5 cms depth; for deeper layers they were higer by a value not more than 2°C.

The deviations of the mean wind speed at 2 metres above ground from last July value were + 0.1, —0.2, +0.1 m/sec for the mean of day, night time mean, and day time respectively. The mean daily values of wind speed at 2 metres above ground, Piche evaporation & pan class "A" evaporation were higher than the corresponding values of last July by 0.1 m/sec, 1.4 mms & 0.54 mmsrespectively. The total actual duration of bright sunshine exceeded last July value by 1.6 hours.

TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

JULY — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	29.1	21.2	25.2	23.2	26.7	24.0	24.0	24.0	24.0	42.0	23.5	11.8	0.0	0.0	0.0	0.0
Tahrir	34.8	20.5	26.8	23.4	29.2	24.0	24.0	24.0	24.0	24.0	23.5	13.4	6.7	1.0	0.0	0.0
Biza	35.0	21.1	27.3	24.7	29.3	24.0	24.0	24.0	24.0	24.0	23.4	14.5	7.5	1.3	0.0	0.0
Kharga	39.9	22.3	32.3	29.4	34.6	24.0	24.0	24.0	24.0	24.0	24.0	21.7	15.1	8.1	1.6	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS

JULY — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	30.4	27	27.2	1	23.5	23	18.2	1	15.9	1	—	—
Tahrir	40.0	26	29.2	13	23.0	29	17.9	16	15.8	1	—	—
Biza	39.7	7	30.8	14	23.1	5	17.3	13	14.2	14	12.1	14
Kharga	44.4	11	34.0	14	28.4	7	18.0	19	17.0	19	—	—

TABLE C 3. (SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES, EVAPORATION & RAINFALL

JULY — 1965

STATION	Soar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
Kasr	591.2	390.8	433.2	90	—	—	77	68	42	12	18.9	19.4	24.0	28	11.1	13	12.3	11.34	0.0	0.0	—
hrir.	692.4	372.0	431.1	86	3.9	8.2	66	38	16	27	16.7	14.7	21.9	29	7.7	27	14.9	10.94	0.0	0.0	—
za ..	690.9	366.7	429.8	85	0.8	4.9	60	35	17	27	15.5	13.4	20.0	7,26,29	7.7	27	15.7	12.18	0.0	0.0	—
harga	632.9	391.9	418.3	94	0	0	23	15	7	27	7.8	7.6	15.8	10	3.9	1	42.0	20.87	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

JULY — 1965

STATION	Highest (H) Lowest (L)	Extreme soil tempetature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms,)									
		0,3	1	2	5	10	20	50	100	200	300	0,3	1	2	5	10	20	50	100	200	30
El Kasr. . . .	H	47.7	43.8	43.7	39.8	35.3	31.3	28.7	26.7	24.0	—	—	—	—	—	—	—	—	—	—	—
	L	17.0	19.2	19.5	21.0	23.3	25.7	26.7	25.0	22.7	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	59.3	58.0	53.2	49.4	44.0	37.5	33.7	31.6	29.1	27.3	—	—	—	—	—	—	—	—	—	—
	L	19.0	18.8	20.0	23.0	25.9	29.5	30.6	30.5	27.7	25.8	—	—	—	—	—	—	—	—	—	—
Giza , ...	H	65.0	64 3	63.6	45.0	39.5	35.2	33.8	31.5	28 1	25.6	42.3	34.2	32.5	31.8	30.3	28.9	27.6	25.6	23.4	—
	L	17.4	17.7	18.4	25.8	29.4	31.9	32.1	29.9	26.6	24.5	16.7	21.4	21.6	23.2	24.5	25.6	25.6	23.8	22.2	—
Kharga. . . .	H	61.5	58.0	55.7	48.8	42.2	37.5	35.1	32.9	30.3	28.6	—	—	—	—	—	—	—	—	—	—
	L	20.0	22.0	23.2	26.6	30.2	32.6	33.4	31.8	29.1	27.6	—	—	—	—	—	—	—	—	—	—

TABL C 5.—SURFACE WIND

JULY — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	Value (knots)	Date
El Kasr . . .	5.0	4·1	6.3	—	—	—	—	—	—	—	—	—
Tahrir	3.2	2.7	4.0	31	9	2	0	0	0	0	32	12
Giza	2.8	2.3	3.3	29	9	0	0	0	0	0	27	12
Kharga . . .	4.5	3.5	5.8	—	—	—	—	—	—	—	—	—

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As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.

THE ARAB REPUBLIC OF EGYPT

MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 8

AUGUST, 1965

U.D.C. 551. 506.1 (62)

METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS
AUGUST 1965

Rather mild in the northern parts, hot in the middle parts, excessively hot and dry in the southern parts. Early morning low stratus and fog over scattered localities of Delta, Canal and Cairo areas. Widespread sandstorms over Upper Egypt on the 20th.

GENERAL DESCRIPTION OF WERTHER

The prevailing weather was mild & humid in general in the northern parts (Mediterranean coastal strip in particular), hot in the middle parts and excessively hot & dry in the southern parts.

Early morning mist & fog developed for many days over the Delta, Canal & Cairo areas. Break down of the excessive heat wave over the southern parts on the 20th was associated with occasional rising sand over scattered localities and sandstorms over Aswan

PRESSURE DISTRIBUTION

The prevailing pressure distributions in this month can be summarized in the following pressure systems.

— The Atlantic high pressure extending from West Europe SEwards towards Cyrenica.

— The Siberian Anticyclone extending over the Caspian and Black Sea.

— The complex monsoon low over the middle East (Arabia & Sudan).

On the upper air maps there were two main troughs extending in the upper layers up to 200 mb level. The first one was over western Europe extending southwards to Spain and western Africa and the second one was extending from northern Russia to the Caspian and Black Sea region.

The travelling high latitudes depressions traversed Europe from west to east with no appreciable effect on the middle east region.

The two mentioned upper troughs showed minor oscillations towards northeastern Africa also with no appreciable effect except round the 24th when the monsoon low over Iraq showed marked westward oscillation and consequently the M.S.L. pressure attained a minimum value round the 25th.

Round the 17th, the Sudan monsoon low showed a northward oscillation and another minimum value of the M.S.L. pressure was attained but only in the Upper Egypt district.

On the 3rd, 7th, 12th, 23rd and 26th shallow desert heat lows developed south of the Atlas Mountains, and moved north eastwards while filling.

It is worth to mention that the barometric pressure over east Mediterranean in general was slightly oscillatory round normal in general.

The subtropical jet stream oscillated over the country during this month at about 145 mb level.

The highest upper wind speeds recorded at Mersa Matruh, Helwan and Aswan were 97, 137, 58 knots on the 31st, 29th & 12th respectively.

SURFACE WIND

The prevailing winds were Nly & NW ly light/moderate in general, occasionally fresh/ strong over scattered localities particularly of the Mediterranean (Western parts) & Red Sea districts. Calms were frequent most night and early morning intervals in scattered localities particularly of the Western Derert, Cairo & Upper Egypt districts.

TEMPERATURE

During this month maximum temperature oscillated slightly round its normal and its values ranged between 28°C & 32°C in the northern parts, 32°C & 38°C in the middle parts and between 38°C & 46°C in the southern parts.

The absolute maximum temperature for the Republic was 46.2°C reported at Aswan on the 16th.

Minimum temperature also oscillated slightly round its normal and its values ranged between 19°C & 24°C in the northern parts, between 17°C & 22°C in the middle parts and between 21°C & 29°C in the southern parts.

The absolute minimum temperature for the Republic was 14.4°C reported at Sakha on the 31st.

PRECIPITATION

This month was rainless allover the country.

Cairo, September 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

SURFACE DATA

Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

AUGUST — 1965

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms.
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	$\frac{A+B}{2}$	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	1011.2	+0.9	30.4	—0.7	22.0	+0.4	26.2	26.0	—0.3	21.4	+0.5	65	— 1	—	—	—	8.6
Mersa Matruh. (A)	1011.1	+1.0	29.1	—0.8	21.0	0.0	25.0	25.1	—0.4	21.7	—0.1	73	+ 1	370.1	412.0	89.8	7.9
Alexandria (A)	1010.0	+1.2	30.6	0.0	22.5	—0.3	26.6	25.9	—0.8	22.0	—1.0	70	— 2	359.0	411.1	87.3	6.1
Port Said. (A)	1009.2	+1.2	30.0	—0.8	24.3	—0.6	27.2	26.8	—0.5	22.9	—0.8	70	— 2	352.8	411.1	85.8	5.3
El Arish.	1009.2	+1.3	30.9	—0.2	22.7	+0.8	26.8	26.6	—0.1	23.5	—0.2	74	— 1	359.4	408.9	87.7	5.2
Ghazza.	1008.7	+1.1	31.0	+1.3	22.2	0.0	26.6	26.6	+0.1	23.4	—0.2	75	— 3	325.5	398.8	81.6	5.6
Tanta.	1009.3	+1.5	33.3	—1.3	20.1	+0.6	26.7	26.1	—0.8	21.3	—0.7	64	0	342.8	410.6	83.5	5.6
Cairo. (A)	1009.5	+1.0	33.5	—1.2	23.3	+1.5	28.4	27.0	—0.7	21.3	—0.5	58	— 2	—	—	—	14.3
Fayoum.	1008.7	+0.7	35.8	—0.7	21.6	0.0	28.7	28.2	—0.8	21.0	—0.3	50	+ 2	—	—	—	10.5
Minya. (A)	1008.1	+0.7	34.9	—1.5	19.8	—0.7	27.4	27.3	—1.0	20.7	—0.1	53	+ 3	—	—	—	9.6
Assyout. (A)	1007.9	+0.9	36.0	—0.9	22.1	—0.3	29.0	29.0	—1.4	20.1	—0.3	40	+ 5	—	—	—	17.2
Luxor. (A)	1005.4	+0.3	41.1	+0.1	24.5	+0.9	32.8	32.9	0.0	20.6	+0.6	28	+ 2	—	—	—	15.5
Aswan. (A)	1005.4	+0.3	40.8	—0.5	25.0	—0.2	32.9	34.2	+0.4	19.0	+0.6	17	+ 1	—	—	—	20.8
Siwa	1010.4	+0.6	36.5	—1.2	21.0	+0.3	28.8	29.0	—0.8	19.5	—0.2	37	+ 1	—	—	—	15.0
Bahariya.	1008.8	+0.6	37.3	+0.5	21.3	+0.5	29.3	29.6	0.0	19.7	—0.1	35	— 1	—	—	—	12.7
Farafra.	1009.7	+0.3	37.5	0.0	20.6	—0.5	29.0	29.4	—0.5	18.1	+0.2	28	+ 3	—	—	—	21.2
Dakhla.	1008.3	+1.4	39.0	+0.2	21.4	—1.4	30.2	30.7	—0.1	17.8	—0.1	22	— 1	—	—	—	24.4
Kharga.	1007.3	+0.7	39.8	0.0	22.8	0.0	31.4	32.5	+0.6	18.6	—0.5	25	— 1	367.3	402.6	91.2	30.7
Tor.	1005.8	+1.2	34.0	—0.8	25.3	+1.6	29.6	29.1	—0.3	23.8	+0.2	62	+ 2	—	—	—	12.7
Hurghada.	1005.6	+1.1	34.3	+1.1	25.8	+0.6	30.0	30.2	+0.1	21.7	—0.4	44	— 4	—	—	—	24.7
Quseir	1006.1	+1.1	32.6	—1.1	26.0	—0.9	29.3	29.8	—0.5	22.6	+0.2	51	+ 4	—	—	—	18.6

TABLE A2.— MAXIMUM AND MINIMUM AIR TEMPERATURE

AUGUST — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	34.8	12	27.1	31	31	14	0	0	0	21.1	—	24.2	8	20.4	30	0	0	0	0
Meres Matruh . (A)	32.6	22	27.4	31	31	3	0	0	0	—	—	23.6	8	18.7	16	0	0	0	0
Alexandria . . . (A)	32.5	3,26	28.6	20	31	25	0	0	0	—	—	24.4	14	19.6	12.29	0	0	0	0
Port Said . . . (A)	32.6	2	28.5	30	31	14	0	0	0	23.1	—	25.5	8,15	22.9	2	0	0	0	0
El Arish	32.6	23	29.4	30	31	28	0	0	0	21.1	—	25.1	22	20.6	27	0	0	0	0
Ghazza	32.0	23	29.5	31	31	30	0	0	0	20.9	—	25.0	16	19.4	31	0	0	0	0
Tanta	36.6	4	30.5	30	31	31	3	0	0	—	—	22.6	5	17.0	12	0	0	0	0
Cairo . . . . . (A)	38.2	23	30.4	31	31	31	4	0	0	—	—	22.7	9	19.7	12	0	0	0	0
Fayoum	40.0	4	31.0	31	31	31	23	0	0	19.0	—	24.0	9	17.7	31	0	0	0	0
Minya . . . . . A)	38.2	4,9	31.0	31	31	31	15	0	0	—	—	22.5	18	16.8	25	0	0	0	0
Assyout. . . . . A)	40.3	23	33.3	30	31	31	20	1	0	21.0	—	24.8	2	19.0	31	0	0	0	0
Luxor . . . . . A)	45.2	17	37.6	11	31	31	31	21	1	19.1	—	29.6	22	21.0	8.13	0	0	0	0
Aswan . . . . . A)	46.2	16	38.0	30,31	31	31	31	25	4	—	—	33.0	21	19.8	3	0	0	0	0
Siwa	40.2	23	33.0	30	31	31	25	2	0	18.9	—	23.7	5	18.6	12	0	0	0	0
Bahariya	42.2	4	33.8	31	31	31	28	3	0	19.6	—	25.1	5	18.5	12.26	0	0	0	0
Farafra	41.9	4	33.7	31	31	31	27	4	0	19.9	—	24.5	24	17.3	9	0	0	0	0
Dakhla	42.3	5	34.4	31	31	31	30	10	0	—	—	20.7	18	18.2	27	0	0	0	0
Kharga	43.0	5	35.5	31	31	31	31	17	0	21.5	—	28.5	21	19.7	12	0	0	0	0
Tor	40.0	5	29.2	31	31	31	11	0	0	—	—	27.0	11	21.2	1	0	0	0	0
Hurghada	37.5	9	31.2	31	31	31	8	0	0	24.5	—	28.8	18	22.4	31	0	0	0	0
Quseir	34.5	8,24	30.7	25	31	31	0	0	0	23.4	—	28.7	24	23.5	27	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

AUGUST — 1965

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day		Number of Days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	1.0	1.6	1.6	1.3	1.4	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Mersa Matruh (A)	1.2	1.7	0.7	1.6	1.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Alexandria (A)	2.1	3.0	1.8	1.8	2.1	0.0	— 0.4	0.0	—	0	0	0	0	0	0	0
Port Said (A)	0.9	2.1	0.5	0.4	1.0	0.0	0.0	0.0	—	0	0	0	0	0	0	0
El Arish	3.4	3.1	1.2	1.8	1.8	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Ghazza	2.4	3.2	1.1	1.6	1.5	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tanta	—	1.7	0.7	0.0	—	0.0	— 0.0	0.0	—	0	0	0	0	0	0	0
Cairo (A)	0.8	3.0	0.5	0.1	1.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.7	0.3	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.4	1.0	0.3	0.2	0.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.3	1.1	0.4	0.4	0.4	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.4	0.7	0.6	0.7	0.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.9	1.4	1.3	1.4	1.2	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	0.1	0.6	0.5	0.5	0.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Bahariya	0.1	0.4	0.1	0.0	0.2	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.0	0.1	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.6	0.1	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.4	0.4	0.2	0.3	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	0.3	0.4	0.7	0.4	0.5	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Hurghada	0.6	0.6	0.4	0.7	0.6	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Quseir	0.6	0.2	0.2	0.2	0.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0

Table A 5. *(contd.)*—**NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

AUGUST — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya	46	48	0	1—10	207	58	3	0	0	0	0	0	0	0	6	241	515
				11—27	47	3	0	0	0	0	0	0	0	0	0	85	135
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**254**	**61**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**326**	**650**
Asyout	23	2	0	1—10	20	0	0	1	0	0	0	19	33	248	212	72	605
				11—27	1	0	0	0	0	0	0	0	0	2	80	31	114
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**21**	**0**	**0**	**1**	**0**	**0**	**0**	**19**	**33**	**250**	**292**	**103**	**719**
Luxor	11	30	0	1—10	84	21	3	11	7	25	26	150	7	68	50	98	550
				11—27	39	1	0	0	1	0	0	5	1	4	13	89	153
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**123**	**22**	**3**	**11**	**8**	**25**	**26**	**155**	**8**	**72**	**63**	**187**	**703**
Aswan	0	0	9	1—10	202	111	5	2	1	4	7	20	6	12	48	114	532
				11—27	86	20	0	0	0	0	0	6	0	3	17	71	203
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**288**	**131**	**5**	**2**	**1**	**4**	**7**	**26**	**6**	**15**	**65**	**185**	**735**
Siwa	32	1	0	1—10	105	88	100	58	29	18	6	10	11	41	82	110	658
				11—27	5	23	8	0	0	0	0	0	0	0	6	11	53
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**110**	**111**	**108**	**58**	**29**	**18**	**6**	**10**	**11**	**41**	**88**	**121**	**711**
Dakhla	1	23	0	1—10	183	85	15	5	7	11	13	21	28	54	95	186	703
				11—27	10	7	0	0	0	0	0	0	0	0	0	0	17
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**193**	**92**	**15**	**5**	**7**	**11**	**13**	**21**	**28**	**54**	**95**	**186**	**720**
Tor	6	1	1	1—10	6	4	1	2	2	4	3	5	7	20	56	17	127
				11—27	1	0	0	0	0	0	0	0	0	51	525	14	591
				28—47	0	0	0	0	0	0	0	0	0	0	16	1	17
				≥48	0	0	0	0	0	0	0	0	0	0	1	0	1
				All speeds	**7**	**4**	**1**	**2**	**2**	**4**	**3**	**5**	**7**	**71**	**598**	**32**	**736**
Hurghada	5	1	0	1—10	5	7	2	3	7	10	3	2	0	4	36	6	85
				11—27	75	2	1	0	0	0	0	0	0	13	135	365	591
				28—47	0	0	0	0	0	0	0	0	0	0	5	57	62
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**80**	**9**	**3**	**3**	**7**	**10**	**3**	**2**	**0**	**17**	**176**	**428**	**738**
Quseir	20	27	3	1—10	107	22	8	5	2	14	0	2	3	37	111	154	465
				11—27	65	1	0	0	0	0	0	0	0	0	3	160	229
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**172**	**23**	**8**	**5**	**2**	**14**	**0**	**2**	**3**	**37**	**114**	**314**	**694**

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

AUGUST — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Merset Matruh 0000 U.T.	Surface	29	1011mb	1014mb	1008mb	29	22.8	24.8	20.4	29	19.3
	1000	29	125	149	97	29	22.6	26.0	20.3	29	19.1
	850	28	1536	1567	1497	28	18.1	23.8	13.0	21	1.5
	700	28	3164	3215	3122	28	9.3	12.8	5.3	8	— 7.4
	600	28	4426	4484	4360	28	2.3	5.6	— 2.0	2	—14.4
	500	27	5873	5943	5788	27	— 6.9	— 3.2	—10.3	—	—
	400	26	7578	7653	7473	26	— 17.9	—14.7	—23.9	—	—
	300	23	9668	9755	9531	23	—32.5	—28.5	—36.4	—	—
	200	18	12432	12522	12241	18	—50.8	—48.7	—53.6	—	—
	150	14	14225	14337	14046	14	—63.4	—61.2	—65.1	—	—
	100	10	16655	16765	16494	10	—72.8	—66.8	—78.3	—	—
	70	5	18816	18870	18710	5	—67.[illegible]	—64.3	—73.0	—	—
	60	4	19754	19800	19682	4	—61.8	—60.1	—63.3	—	—
	50	4	20881	20911	20804	4	—58.8	—55.[illegible]	—63.[illegible]	—	—
	40	1	22328	—	—	1	—55.4	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	992mb	996mb	990mb	31	22.3	26.4	21.2	31	18.3
	1000	31	83	108	60	—	—	—	—	—	—
	850	31	1490	1518	1457	31	21.2	31.9	14.7	24	— 2.7
	700	31	3144	3217	3105	31	12.9	15.4	9.2	9	— 6.2
	600	31	4417	4514	4366	31	4.5	8.4	0.1	9	— 9.1
	500	31	5874	5970	5808	31	— 5.4	— 0.7	— 9.7	5	—18.2
	400	31	7650	7690	7510	31	—17.3	—13.5	—20.4	2	—29.8
	300	31	9653	9791	9639	31	—31.5	—26.6	—35.6	—	—
	200	31	12441	12554	12319	31	—51.1	—46.9	—55.1	—	—
	150	31	14257	14463	14074	31	—64.0	—60.1	—71.1	—	—
	100	30	16669	16841	16428	30	—73.4	—69.0	—76.4	—	—
	70	23	18787	18870	18610	23	—65.5	—61.7	—71.4	—	—
	60	20	19730	19798	19555	20	—61.9	—58.7	—65.0	—	—
	50	19	20870	20939	20709	19	—55.1	—54.6	—60.6	—	—
	40	18	22285	22350	22134	18	54.9	—52.4	—58.0	—	—
	30	14	24130	24214	24000	14	51.5	—48.8	—54.2	—	—
	20	8	26794	26875	26677	8	—47.5	—43.0	—49.6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	18	984mb	987mb	980mb	18	29.1	33.5	26.5	18	8.2
	1000	18	50	79	14	—	—	—	—	—	—
	850	18	1491	1512	1462	18	26.3	31.1	21.8	17	3.2
	700	18	3160	3204	3122	18	12.7	16.8	9.7	15	— 3.6
	600	18	4430	4491	4370	18	2.4	5.2	[illegible]	10	— 9.5
	500	18	5885	5944	5831	18	— 5.7	— 1.6	— 8.0	5	—16.5
	400	18	7601	7669	7549	18	—16.3	—11.9	—19.5	1	—27.9
	300	16	9707	9784	9624	16	—30.5	—28.3	—33.4	—	—
	200	15	12464	12552	12354	15	—51.1	—49.3	—53.8	—	—
	150	14	14277	14358	14130	14	—64.9	—59.0	—69.9	—	—
	100	8	16693	16789	16621	8	—76.4	—66.4	—79.0	—	—
	70	5	18770	18870	18710	5	—68.2	—65.7	—70.1	—	—
	60	4	19694	19802	19633	4	—63.8	—61.6	—66.3	—	—
	50	4	20822	20935	20768	4	—60.2	—59.4	—62.2	—	—
	40	4	22252	22336	22173	4	—57.1	—54.8	—58.8	—	—
	30	4	24061	24174	24003	4	—55.2	—53.7	—57.2	—	—
	20	3	26706	26806	26632	3	—48.9	—47.0	—50.4	—	—
	10	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

UPPER AIR CLIMATOLOGICAL DATA

TABLE B 1 (*contd.*).—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

AUGUST — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	31	*1012mb	*1016md	*1068mb	31	27.5	29.2	25.4	31	20.6
	1000	31	131	158	89	31	26.2	28.2	24.0	31	19.1
	850	31	1542	1561	1516	31	18.8	24.5	13.0	21	0.9
	700	31	3181	3213	3146	31	10.7	14.4	4.0	5	— 8.6
	600	31	4448	4492	4398	31	3.4	5.7	0.8	1	—14.3
	500	31	5900	5954	5838	31	— 5.8	— 2.4	— 9.1	1	—17.9
	400	30	7610	7674	7528	30	—17.6	—13.5	—21.8	—	—
	300	25	9700	9794	9582	25	—32.4	—27.3	—38.0	—	—
	200	21	12448	12563	12262	21	—50.8	—47.5	—54.7	—	—
	150	19	14276	14400	14075	19	—62.3	—60.5	—65.0	—	—
	100	14	16723	16846	16534	14	—70.7	—65.7	—74.9	—	—
	70	10	18864	18980	18720	10	—62.5	—58.0	—66.4	—	—
	60	8	19803	19867	19691	8	—59.2	—55.6	—63.6	—	—
	50	4	20926	20996	20847	4	—55.7	—53.1	—57.9	—	—
	40	3	22359	22440	22280	3	—53.3	—51.5	—56.3	—	—
	30	1	24317	—	—	1	—49.6	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T	Surface	29	*993mb	*996mb	*990mb	29	32.9	37.1	29.6	29	12.9
	1000	29	83	116	60	—	—	—	—	—	—
	850	29	1503	1534	1477	29	20.9	27.6	12.3	25	4.3
	700	29	3158	3208	3114	29	12.7	17.3	5.7	9	— 6.3
	600	29	4433	4498	4367	29	4.0	8.2	1.6	11	—13.0
	500	29	5891	5952	5809	29	— 4.9	— 1.6	— 8.9	5	—19.3
	400	29	7608	7664	7506	29	—16.6	—13.4	—21.2	—	—
	300	29	9712	9776	9577	29	—30.7	—27.9	—36.6	—	—
	200	29	12477	12552	12302	29	—50.2	—47.0	—53.1	—	—
	150	28	14300	14386	14111	28	—62.9	—60.5	—65.6	—	—
	100	28	16720	16821	16535	28	—73.3	—70.5	—76.6	—	—
	70	27	18867	19250	18700	27	—64.8	—59.6	—74.2	—	—
	60	24	19796	19922	19661	24	—59.4	—55.1	—64.7	—	—
	50	21	20943	21080	20812	21	—56.4	—52.0	—61.5	—	—
	40	17	22372	22514	22239	17	—52.9	—50.8	—54.8	—	—
	30	10	24250	24387	24086	10	—49.6	—46.9	—54.7	—	—
	20	3	26928	26952	26895	3	—42.7	—40.8	—45.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	17	*983mb	*986mb	*980mb	17	40.7	44.0	37.2	17	5.3
	1000	17	37	66	7	—	—	—	—	—	—
	850	17	1500	1528	1477	17	26.9	29.7	23.7	13	— 1.0
	700	17	3168	3187	3135	17	12.8	16.0	8.2	15	— 6.9
	600	17	4437	4463	4391	17	2.3	5.1	— 0.9	12	—11.1
	500	17	5886	5923	5843	17	— 5.9	— 2.3	— 9.6	7	—17.3
	400	17	7604	7653	7552	17	—16.3	—13.4	—20.9	1	—22.6
	300	17	9750	9795	9631	17	—30.5	—26.0	—34.3	—	—
	200	14	12476	12608	12384	14	—50.7	—46.3	—52.7	—	—
	150	10	14311	14464	14210	9	—63.4	—59.0	—66.7	—	—
	100	9	16736	16930	16627	9	—75.3	—69.1	—78.3	—	—
	70	7	18842	19090	18710	7	—66.0	—62.9	—69.2	—	—
	60	6	19753	20033	19507	6	—60.9	—57.2	—63.0	—	—
	50	6	20902	21203	20777	6	—56.0	—51.9	—58.3	—	—
	40	4	22271	22466	22083	4	—52.6	—50.8	—55.0	—	—
	30	3	24121	24334	23981	3	—49.9	—47.0	—52.1	—	—
	20	3	26814	27046	26661	3	—41.5	—38.3	—47.8	—	—
	10	—	—	—	—	—	—	—		—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE ; THE HIGHEST WIND SPEED IN THE UPPER AIR

AUGUST —. 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	Pressure (mb.)	Dew Point (°C)	Altitude (gpm)	pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh	4786 (27)	556 (27)	-16.8 (2)	5250	542	—	3850	640	-8.4	16071 (7)	111 (7)	-65.1 (7)	17020	94	-70.5	14920	130	-69.3	12200	206	254	53
	Helwan	4930 (31)	584 (31)	-12.0 (9)	5770	507	—	4400	599	—	15789 (26)	108 (26)	-74.0 (26)	17400	90	-76.4	14870	131	-77.3	13490	169	230	80
	Aswan	4821 (18)	573 (18)	-12.1 (8)	5200	543	—	4270	610	—	16719 (5)	100 (2)	-77.7 (5)	17540	86	-79.5	16100	112	-78.2	15750	118	110	58
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh	4959 (31)	564 (31)	-9.0 (2)	5530	526	—	4150	622	-5.5	15730 (12)	118 (12)	-71.1 (12)	16846	100	-72.5	14173	144	-62.4	13200	163	242	97
	Helwan	5157 (29)	549 (29)	-15.1 (8)	5650	516	—	4630	581	—	16282 (28)	108 (28)	-73.3 (28)	17330	90	-77.8	14900	136	-70.0	12350	200	250	137
	Aswan	4828 (17)	571 (17)	-11.9 (10)	5280	532	—	4300	607	—	16607 (71)	102 (7)	-75.0 (7)	17030	96	-77.9	16250	112	-69.5	16130	113	100	58

N — The number of cases the element has been observed during the month .

TABLE B 8.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — AUGUST 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	7	3	2	2	1	1	0	—	0	—	0	—	0		1	8	0	—	2	2	8	4	6	5	2	29	3
	1000	5	8	0	—	0		0	—	0	—	0	—	1	13	0	—	0	—	0	—	9	10	9	11	1	25	9
	850	6	16	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	1	17	2	16	0	11	17
	700	1	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	17	0	—	0	—	0	5	17
	600	1	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	0	—	0		1	15	0	3	12
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	0	—	0	—	1	20	0	3	20
	400	0	—	0	—	1	8	0	—	0	—	0	—	0	—	0	—	1	32	0	—	0	—	0	—	0	2	26
	300	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	1	12
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	48	0	—	0	—	0	—	0	1	48
	150	0		0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	51	0	—	0	—	0	—	0	1	51
	100	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	18	10	10	8	1	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	16	0	31	10
	1000	11	11	2	10	0	—	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	16	16	0	30	14
	850	3	11	1	5	0	—	0	—	0	—	0	—	0	—	0	—	2	12	8	18	9	19	7	13	0	30	15
	700	1	10	0	—	0	—	0	—	0	—	1	5	2	5	0	—	8	11	4	14	5	19	7	13	0	28	13
	600	0	—	1	5	1	4	0	—	0	—	0	—	0	—	2	14	12	14	3	15	5	15	5	15	0	29	14
	500	1	7	2	6	1	8	0	—	0	—	0	—	1	14	5	10	9	22	5	21	2	16	3	19	0	29	17
	400	1	3	0	—	1	11	1	4	0	—	0	—	0	—	1	22	12	17	5	27	1	23	3	19	0	25	23
	300	1	17	0	—	0	—	0	—	0	—	0	—	1	2	3	21	9	25	6	37	1	27	0	—	0	21	27
	200	0	—	0	—	0	—	0	—	0	—	0	—	1	17	3	26	3	25	4	35	0	—	1	15	0	12	27
	150	0	—	0	—	0	—	0	—	0	—	1	9	2	20	3	28	1	38	2	30	1	24	0	—	0	10	26
	100	0	—	0	—	0	—	1	17	0	—	0	—	—	—	1	7	0	—	0	—	0	—	0	—	0	2	12
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

TN — The total number of cases the wind has been obsered for all directions during the month

TABLE B 3 *(contd.)*—**NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.**

HELWAN — AUGUST 1965

Time	Pressure Surface (Millibar.)	Wind between ranges of direction (000 – 360)°																						Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	15	9	11	9	2	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	6	2	10	0	31	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	5	12	3	12	1	17	2	6	0	—	1	15	0	—	1	11	1	23	4	12	8	12	5	17	0	31	13
	700	1	12	[illegible]	11	0	—	1	6	1	31	0	—	3	10	5	15	3	10	6	8	5	8	4	16	0	31	12
	600	1	6	2	8	0	—	0	—	0	—	0	—	5	15	8	15	5	15	6	16	1	9	3	12	0	31	14
	500	1	9	3	5	1	9	0	—	0	—	2	18	2	18	6	12	7	19	7	17	1	19	1	29	0	31	16
	400	0	—	1	3	3	9	0	—	0	—	1	6	0	—	6	14	11	19	5	24	2	20	2	4	0	31	16
	300	0	—	0	—	0	—	0	—	2	14	1	4	0		6	17	8	25	10	24	4	21	0	—	0	31	21
	200	0	—	0	—	0	—	1	11	1	25	2	20	4	13	4	19	7	34	11	38	1	12	0	—	0	31	28
	150	0	—	0		1	28	0	—	2	18	5	14	3	14	3	29	12	27	4	26	0	—	0	—	0	30	23
	100	0	—	0	—	0	—	1	23	10	19	4	14	5	15	2	28	3	21	1	26	0	—	0	—	0	26	19
	70	0	—	0	—	4	22	9	27	4	15	0	—	1	42	0	—	0	—	0	—	0	—	0	—	0	18	24
	60	0	—	0	—	2	24	8	28	4	27	0	—	0	—	0	—	0	—	0	—	1	30	0	—	0	15	27
	50	0	—	1	20	1	29	7	34	3	20	1	12	0	—	0	—	0	—	0	—	0	—	0	—	1	14	26
	40	0	—	0	—	0	—	11	37	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	11	37
	30	0	—	0	—	0	—	5	38	2	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	7	37
	20	0	—	0	—	1	55	0	—	2	32	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	40
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1800 U.T.	Surface	11	13	1	15	0	—	0	—	0	—	0	—	0	—	0		0	—	1	5	5	9	11	11	0	29	21
	1000	—	—	—	—	—	—	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—	—	—	—	—
	850	7	12	4	[illegible]	2	[illegible]	1	[illegible]	1	10	0	—	0		1	13	1	5	3	9	5	11	4	12	0	29	10
	700	0	—	0	—	0	—	1	2	0	—	0	—	4	15	5	17	[illegible]	17	3	13	3	14	4	15	0	29	15
	600	2	10	0		0	—	0	—	0	—	0	—	3	21	9	17	7	19	3	17	3	13	2	12	0	29	17
	500	0	—	3	5	0	—	0	—	2	8	1	18	0		6	16	10	18	6	21	1	5	0	—	0	29	18
	400	0	—	0	—	1	8	0	—	1	4	2	6	2	19	3	9	9	21	8	25	1	13	2	6	0	29	17
	300	1	3	0	—	0	—	1	3	0		1	14	1	17	5	19	12	24	7	34	1	10	0	—	0	29	23
	200	0	—	0	—	0	—	0	—	1	8	2	10	2	11	7	15	9	44	8	32	0	—	0	—	0	29	28
	150	0	—	0	—	0	—	1	9	2	14	3	18	5	21	4	23	9	38	2	14	1	12	0	—	0	27	25
	100	0	—	0	—	0	—	5	24	7	20	6	23	2	10	2	28	5	30	0	—	0	—	0	—	0	27	23
	70	0	—	0	—	0	—	7	28	9	22	2	24	2	20	1	20	0	—	0	—	0	—	0	—	0	21	24
	60	0	—	0	—	1	16	11	26	5	22	3	30	0	—	0	—	0	—	0	—	0	—	0	—	0	20	24
	50	0	—	0	—	0	—	8	30	5	31	1	18	0	—	1	47	0	—	0	—	0	—	0	—	0	15	31
	40	0	—	0	—	0	—	3	24	4	41	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	7	34
	30	0	—	0	—	0	—	2	24	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	24
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A)— AUGUST 1965

Time	Pressure Surface (Millibar)	Wint between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	7	11	3	3	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	8	7	8	0	18	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	4	20	0	—	0	—	0	-	0	—	0	—	0	—	2	14	1	7	6	10	5	16	0	18	14
	700	0	—	0	—	1	13	2	4	0	—	0	—	0	—	4	15	2	14	2	20	6	14	1	13	0	18	14
	600	1	7	0	—	0	—	0	—	1	16	0	—	1	6	1	23	5	15	3	16	2	16	0	—	0	14	15
	500	1	8	2	8	1	6	1	8	0	—	1	6	0	—	0	—	1	9	2	16	3	10	1	6	0	13	9
	400	1	11	0	—	1	11	1	3	1	2	2	10	2	10	0	—	1	4	2	8	0	—	2	6	0	13	8
	300	1	4	1	3	0	—	1	18	4	9	3	18	2	7	1	10	0	—	0	—	0	—	0	—	0	13	11
	200	0	—	1	18	1	5	2	24	6	24	3	10	0	—	0	—	0	—	0	—	0	—	0	—	0	13	19
	150	0	—	0	—	2	12	5	27	5	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	12	26
	100	0	—	0	—	0	—	3	26	3	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	6	29
	70	0	—	0	—	0	—	3	32	1	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	31
	60	0	—	0	—	1	32	3	34	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	34
	50	0	—	0	—	0	—	2	42	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	42
	40	0	—	0	—	0	—	1	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	40
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	8	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	12	4	14	3	7	0	17	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	3	9	1	14	1	4	0	—	0	—	0	—	0	—	0	—	2	10	6	14	3	20	0	16	13
	700	0	—	1	14	1	15	1	9	1	10	0	—	0	—	0	—	3	20	2	6	6	22	1	28	0	16	17
	600	0	—	1	17	1	17	0	—	0	—	0	—	0	—	3	17	4	14	2	30	2	16	0	—	0	13	18
	500	0	—	1	16	0	—	0	—	0	—	0	—	1	10	3	8	1	14	3	8	3	3	0	—	0	12	8
	400	1	9	1	14	1	7	2	16	2	10	1	10	0	—	0	—	1	5	1	10	2	8	0	—	0	12	10
	300	1	9	1	7	3	10	1	26	4	16	0	—	2	7	0	—	0	—	0	—	0	—	0	—	0	12	13
	200	0	—	1	19	2	7	5	23	2	25	1	27	0	—	0	—	0	—	0	—	0	—	0	—	0	11	20
	150	0	—	0	—	0	—	6	31	2	27	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	9	31
	100	0	—	0	—	2	43	5	32	1	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	8	35
	70	0	—	0	—	0	—	4	38	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	38
	60	0	—	0	—	0	—	3	38	1	43	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	39
	50	0	—	0	—	0	—	2	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	40
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.

TN—total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL-KASR — AUGUST 1965

This month was generally mild and dry. The maximum air temperature at 2 m. above ground was around the normal during most of the month. The daily mean air temperature at 2 m. above ground was slightly lower than the normal by 0.2 °C, while the daily mean relative humidity was lower than normal by5 %. A pronounced but short heat wave prevailed during the period from 21 st to 24th with the absolute maximum 36.5°C and the lowest relative humidity of 28% on the 23rd.

Two cold spells occured on the 16th and in the period 20th-22nd. The first one gave the absolute minimum air temperature.

The extreme maxima of soil temperatures at depths between 0.3 and 5 cms in the dry field were lower than their corresponding values of last August, the maximum difference was 2.5°C at 0.3 cm depth, while at depths between 10 cms and 100 cms they were higher with maximum difference of 0.7°C at 10 cms depth.

The extreme minima of soil temperature at depths between 1 cm and 100 cms were higher than last August values with maximum difference of 1.0°C at 1 cm depth.

Comparing with last August, the mean daily wind speed at 2 m. above ground, mean daily piche evaporation & Pan class A evaporation, were lower by 0.8 m/sec, 1.3 mms & 0.09 mm respectively, while the total actual duration of bright sunshine was 3.8 hours higher than last August.

TAHRIR — AUGUST 1965

The month was rather mild, there were no intense heat waves, but the first half of the month was warmer than the last. The first heat wave yielded the extreme maximum of the month on the 4th., and the highest evaporation on the 3rd. The second gave on the 12th the extreme minimum relative humidity and vapour pressure. An intermediate wave occupied the days (7—9). A mild wave occurred in the last week followed by cool air which caused a steady fall in temperature at the end of the month, giving the extreme minimum air temperature of the month, and the lowest daily night and day mean temperature.

Low clouds appeared in 28 days during this month, the majority of which was early morning low stratus. Fog occurred only on two days.

Comparing with August 1964, most of the parameters deviated very slightly. Thus, deviations in mean air temperature, relative humidity and vapour pressure were respectively —0.4°C, +1% and —0.1 mm. Also for mean wind speed at 2 metres, piche and pan "A" evaporations, the deivations were —0.1 m/sec., +0.0 mm. and —9.71 mm. respectively.

On the other hand, mean global radiation and-to a lesser extent-total-sunshine actual duration, showed larger deviations ; being +24 langleys for the first, and +6.3 hours for the latter.

As for the comparison of soil temperature extremes down to one metre, the maxima were higher by 0.8. to 3.2°C, while the minima were lower by 0.1 to 0.9°C, except at 5 cms where they were equal.

GIZA - AUGUST 1965

The month was rather cold if compared with the normal values of air temperature at 2 ms. above groud, the daily mean air temperature was 1.0°C below normal.

The daily mean of relative humidity was 2% higher than the normal value for August at Giza.

The month was characterised by a prolonged, mild spell during the period from the (10th to the 22nd) having the peak on the 19th (2.1°C below normal) ; besides, another mild spell started on the 28th. and having its peak on the 31st. (3.7°C below normal).

Comparing with last August, the absolute minimum air temperature at 5 cms in dry, wet and grass fields were all higher than their corresponding values by 0.5, 1.0 and 1.1°C respectively.

The extreme maxima of soil temperatures in the dry field within the layer from 1-100 cms depth were all generally, higher than the corresponding values of last August by an amount not exceeding 1.3°C (except at 5 cms depth where it was lower by 0.5°C). The extreme minima, in the dry field, showed irregular variations from those of last year, the maximum deviations being +0.5°C at 100 cms depth and —1.0°C at 2 cms depth.

The means of wind speed at 2 metres above ground (mean of the day, night time mean and day time mean) were all higher than their corresponding values of last year by 0.4 m/sec.

The daily mean piche evaporation and potential evaporation had the same values of last year, while the daily mean potential evapotranspiration was 0.6 mm. higher and that of Pan class "A" was 0.64 mm lower than those of last year.

The total actual duration of bright sunshine was 4.6 hours higher than that of August 1964.

KHARGA - - AUGUST 1965

This month was slightly warmer than normal. It was characterized by a prolonged heat wave in the period (1st-9th) with the peak on the 5th. which gave the absolute maximum air temperature of the month and also the lowest value of vapour pressure. Another heat wave occurred in the peiod (21st-24th) with the peack on 23rd.

The extreme maximum and minimum soil temperatures at different depths were higher than the corresponding values for August 1964, the maximum differences were +2.3°C at 20cms and 1.0°C at 1 cm depth respectively.

The mean daily wind speed at 2 m. height was 1.4 m/sec higher than the corresponding value of 1964. Total actual duration of bright sunshine was 13.5 hours lower than the corresponding value of August 1964. Mean daily value of piche evaporation was 6.0 mms higher than the corresponding value of August 1964 while class A pan evaporation was higher by 2.62 mms comparing with last August.

Table C1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

AUGUST — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	29.5	20.5	25.5	23.5	27.0	24.0	24.0	24.0	24.0	24.0	23.2	12.4	0.1	0.02	0.0	0.0
Tahrir	34.0	20.3	26.3	23.3	28.8	24.0	24.0	24.0	24.0	24.0	23.2	13.0	6.0	0.3	0.0	0.0
Giza , , ...	33.5	20.9	26.7	24.5	28.6	24.0	24.0	24.0	24.0	24.0	23.7	13.9	6.1	0.0	0.0	0.0
Kharga	39.3	22.8	32.5	30.1	34.5	34.0	24.0	24.0	24.0	24.0	24.0	22.3	15.6	8.3	1.2	0.0

Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS.

AUGUST — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	36.5	23	27.1	30	23.6	8	17.9	16	14.8	16	—	—
Tahrir	37.9	4	30.8	31	23.2	5	17.3	31	15.2	31	—	—
Giza , , ...	36.6	4	30.1	31	23.4	5	17.5	31	14.7	31	12.9	31
Kharga.	43.0	5	35.5	31	28.5	21	18.7	12	17.4	8	—	—

Table C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL

AUGUST — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours > 90 %	Duration in hours > 80 %	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
El Kasr . . .	550.0	374.9	411.7	91	0	0	72	63	28	23	17.9	18.3	22.9	3	11.2	23	12.1	10.46	0.0	0,0	—
Tahrir	640.1	365.5	410.6	89	3.9	8.7	68	39	21	12	16.7	14.5	21.0	9	8.4	12	13.3	10.03	0.0	0,0	—
Giza	602.6	319.6	409.6	85	2.3	7.4	65	41	20	12	16.4	14.7	22.1	4	7.4	12	13.3	10.06	0.0	0.0	—
Kharga. . . .	573.0	367.3	402.6	91	0	0	27	18	9	8	9.2	9.4	17.1	21	3.1	5	46.1	20.97	0.0	0.0	—

Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

AUGUST — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr . . .	H	48.6	44.3	43.6	40.3	35.6	31.3	28.9	27.2	25.0	—	—	—	—	—	—	—	—	—	—	—
	L	15.0	17.7	18.2	21.0	24.1	26.6	27.6	26.7	24.0	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	58.4	56.8	52.5	49.0	43.5	37.0	33.7	31.8	29.7	28.3	—	—	—	—	—	—	—	—	—	—
	L	18.3	18.0	19.0	22.4	25.1	29.1	30.6	31.0	29.1	27.4	—	—	—	—	—	—	—	—	—	—
Giza	H	63.0	62.3	61.0	44.2	39.2	35.2	34.1	32.0	29.0	26.7	40.7	35.0	32.2	30.8	29.5	28.4	27.9	26.1	24.5	—
	L	18.3	18.8	19.0	26.0	26.5	31.8	32.6	31.5	28.1	25.7	18.6	22.4	22.5	24.0	25.0	26.1	26.9	25.6	23.5	—
Kharga . . .	H	64.0	58.0	55.2	48.6	42.7	39.4	35.5	33.4	31.1	29.3	—	—	—	—	—	—	—	—	—	—
	L	21,0	23.0	24.0	27.4	30.8	33.0	34.2	32.9	30.3	28.6	—	—	—	—	—	—	—	—	—	—

Table C 5.– SURFACE WIND

AUGUST — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max, Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 konts	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr . . .	3.9	3.0	5.0	—	—	—	—	—	—	—	—	—
Tahrir	2.9	2.2	4.0	29	3	0	0	0	0	0	23	31
Giza	2.7	2.4	3.2	22	4	0	0	0	0	0	26	11
Kharga . . .	4.8	3.7	6.4	—	—	—	—	—	—	—	—	—

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This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.

THE ARAB REPUBLIC OF EGYPT

MONTHLY WEATHER REPORT

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METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

SEPTEMBER 1965

Rather mild in the north, hot in the south, intervened with a prevailing heat wave round the end of the month which was associated with sandrising and followed by light rain over the southern parts. Frequent Early morning mist and low stratus over scattered localities of the Delta, Cairo, and Canal districts.

GENERAL DESCRIPTION OF WEATHER

During the first three weeks of this month he prevailing weather was generally mild in he northern parts, hot in the central parts nd excessively hot in the southern parts. An intense heat wave prevailed all over the Republic during the last week attaining its peak round the 27th. The break down of the prevailing heat wave was associated with a eavy sandstorm over Sidi Barrani and rising and over few scattered inland localities and was followed by light rain over scattered localities in the Southern parts during the period etween the 27th — 30th Early morning low tratus and mist developed frequently over Delta, Canal and Cairo areas.

PRESSURE DISTRIBUTION

The prevailing pressure distributions over he surface map this month can be summarized in the following pressure systems.

— The Atlantic Anticyclonic ridge over West Europe.

— The Siberian Anticyclonic ridge over he Black and Caspian Sea vicinities.

— The complex low pressure system over he Arabian Gulf and Great Sahara.

In the upper levels up to more than 300 mb evel the prevailing upper systems were confind in the following.

— A planetory wave north of latitude 50°N with two closed lows : over north Atlantic and orth Russia.

— An Anticyclonic belt over the subtropical latitudes zone.

The mean sea level pressure this month was generally oscillatory and slightly above normal.

Travelling high latitude depressions traversed Europe from west to east and consequently the upper troughs over west Europe & Caspian Sea showed minor oscillations towards the Mediterranean Region.

During the first three weeks the surface pressure pattern was rather unchangeable though four oscillations of the complex monsoon over Arabia & Sudan were experienced and surface pressure accordingly attained four minima round the 4th, 9th, 13th & 17th respectively.

A desert depression developed south of the Atlas mountains round the 22nd and slowly deepened next two days, then proceeded eastwards along the Mediterranean coast crossing the northern districts round the 27th during which the mean sea level pressure attained its minimum value in most parts of the country (3—6 mbs below normal).

During the rest parts of the month, the surface picture returned more or less the same as it was at the beginning of the month.

The subtropical jet stream was evident during this month oscillating between latitudes 15 & 37°N. Over Egypt it was evident at about 178 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan and Aswan were 81, 145 & 68 Knots on the 1st, 22nd & 28th respectively.

SURFACE WIND

The prevailing winds during this month were generally light/Moderate N/NW. Fresh/strong winds blew occasionally during several days particularly over the Mediterranean (Western part) and the Red Sea districts. Calms were frequent most of night and early morning intervals over scattered localities.

Gales were reported at Aswan on the 29th.

TEMPERATURE

During this month, maximum temperature oscillated slightly round its normal in general and its values ranged between 28°C & 31°C over the northern parts, between 31°C & 35°C in the middle parts and between 37°C&42°C in the southern parts. As an exception a prevailing heat wave intervened from the 25th and attained its peak round the 26th in the northern parts, round 27th in the middle parts and round the 29th in the southern parts. It is worth to mention that maximum temperature over the southern parts was excessive most of the month.

The absolute maximum temperature was 43.4°C reported at Kena on the 29th and Kharga on the 28th.

Minimum temperature oscillated most of the month below its normal and its values ranged between 16°C & 22°C in the northern & middle parts and between 20°C & 26°C over the southern parts.

The absolute minimum temperature was 13.9°C reported at Wadi El Natrun on the 14th.

PRECIPITATION

This month was almost rainless with the exception of light rain over scattered localities of the southern districts between 27th & 30th. The monthly rain was subnormal in general with the exception of few scattered localities in the southern districts where it was slightly above normal.

The absolute maximum daily rainfall was 1.2 mms. reported at Kom Ombo on the 30th, which was also the absolute maximum monthly rainfall.

Cairo, September 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

SEPTEMBER — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms. Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	
Sallum	1013.8	0.0	29.2	— 0.1	20.7	+ 0.5	25.0	24.8	0.0	20.2	+ 0.1	64	+ 1	—	—	—	8.7
Mersa Matruh (A)	1013.9	+ 0.2	28.5	— 0.1	18.6	— 1.0	23.6	23.7	+ 0.5	20.0	0.0	70	+ 3	327.1	371.1	88.1	6.5
Alexandria (A)	1012.8	+ 0.2	30.1	+ 0.6	20.4	— 0.8	25.2	24.9	— 1.1	21.0	— 0.2	69	+ 1	326.2	370.8	88.0	5.8
Port Said (A)	1012.2	+ 0.3	28.9	— 0.3	23.2	— 0.6	26.0	25.8	— 0.3	22.3	+ 0.2	73	+ 4	303.5	370.8	81.8	4.9
El Arish	1012.2	+ 0.7	29.7	— 0.1	20.7	+ 0.3	25.2	25.4	— 0.2	22.3	+ 0.4	75	+ 4	325.3	368.7	88.1	10.1
Ghazza	1011.7	+ 0.2	27.7	— 0.5	20.7	+ 0.2	24.2	25.2	+ 0.1	21.7	— 0.1	72	— 2	318.3	359.0	87.3	5.2
Tanta	1012.1	+ 0.7	32.9	+ 0.5	18.8	+ 1.2	25.8	24.9	+ 0.4	20.1	+0.3	62	— 1	318.3	370.3	86.0	5.9
Cairo (A)	1012.3	— 0.3	33.3	+ 1.0	20.4	+ 0.5	26.8	26.1	+ 0.6	20.0	— 0.2	55	— 3	—	—	—	15.5
Fayoum	1011.7	+ 0.2	34.6	+ 0.9	20.0	+ 0.4	27.3	26.8	+ 0.4	19.8	+ 0.1	50	— 1	—	—	—	9.4
Minya (A)	1011.3	+ 0.3	34.3	+ 0.9	18.0	— 0.6	26.2	25.7	— 0.1	19.3	— 0.3	52	— 3	—	—	—	9.3
Assyout (A)	1010.8	+ 0.4	35.6	+ 0.7	20.2	+ 0.1	27.9	27.7	+ 0.2	18.7	— 0.2	38	— 1	—	—	—	17.2
Luxor (A)	1008.8	+ 0.5	38.7	— 0.4	21.1	+ 0.3	29.9	30.0	0.0	19.1	— 0.3	31	— 1	—	—	—	13.0
Aswan (A)	1008.7	+ 0.7	40.0	+ 0.8	22.4	+ 0.3	31.2	31.0	— 0.2	17.4	+ 0.2	19	0		—	—	19.8
Siwa	1013.3	— 0.1	34.9	0.0	19.4	+ 0.9	27.2	27.4	+ 0.5	18.1	+ 0.4	36	— 5	—	—	—	13.5
Bahariya	1012.0	+ 0.1	35.7	+ 1.7	19.8	+ 1.0	27.8	27.9	+ 1.3	19.1	+ 0.5	40	— 3	—	—	—	10.7
Farafra	1012.8	— 0.4	35.2	+ 0.8	18.5	— 0.4	26.8	26.9	+ 0.2	17.0	+ 0.5	32	+ 1	—	—	—	17.3
Dakhla	1010.8	+ 0.6	36.9	+ 1.3	18.8	— 1.5	27.8	27.8	— 0.2	17.0	— 0.2	28	0	—	—	—	20.3
Kharga	1010.3	+ 0.3	37.6	+ 1.0	22.3	+ 1.0	30.0	29.8	+ 1.2	17.5	+ 0.4	28	— 4	340.1	371.9	91.4	25.6
Tor	1009.1	+ 1.1	32.0	— 0.6	21.8	— 1.0	26.9	27.4	0.0	22.0	+ 0.1	60	0	—	—	—	11.8
Hurghada	1008.9	+ 0.9	32.0	+ 0.2	22.1	— 1.0	27.0	27.4	+ 0.4	20.2	— 0.8	48	— 4	—	—	—	18.9
Quseir	1009.6	+ 1.4	31.3	— 0.6	23.9	— 1.3	27.6	27.9	0.0	21.1	— 0.1	52	— 1	—	—	—	16.6

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

SEPTEMBER — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	36.0	24	26.8	22	30	8	2	0	0	20.0	—	24.0	27	18.5	22,29	0	0	0	0
Mersa Matruh (A)	34.4	26	26.6	19	30	4	0	0	0	—	—	22.4	27	16.0	2	0	0	0	0
Alexandria (A)	35.3	26,27	28.0	22	30	11	2	0	0	—	—	23.2	16	16.0	21	0	0	0	0
Port Said (A)	30.7	12	27.3	22	30	4	0	0	0	22.2	—	25.6	28	21.6	22	0	0	0	0
El Arish	32.0	27	28.3	22	30	7	0	0	0	19.4	—	22.8	22	18.5	20	0	0	0	0
Ghazza	31.6	16	27.7	18	30	11	0	0	0	19.6	—	24.6	22	18.2	30	0	0	0	0
Tanta	37.8	27	30.2	21	30	30	2	0	0	—	—	20.8	9,10,12	16.0	21	0	0	0	0
Cairo (A)	38.5	27	29.6	22	30	28	5	0	0	—	—	25.3	27	17.6	24	0	0	0	0
Fayoum	38.8	30	30.1	1	30	30	15	0	0	17.7	—	22.4	29	17.0	1	0	0	0	0
Minya (A)	40.0	28	30.5	23	30	30	9	0	0	—	—	20.8	16	14.5	20	0	0	0	0
Assyout (A)	43.0	28	31.9	23	30	30	13	3	0	18.7	—	24.0	28	14.0	20	0	0	0	0
Luxor (A)	41.5	9	34.0	23	30	30	29	7	0	18.2	—	24.4	30	19.0	26	0	0	0	0
Aswan (A)	42.8	29	32.8	30	30	30	29	19	0	—	—	25.7	16	18.2	24	0	0	0	0
Siwa	40.8	26	30.7	18	30	30	12	1	0	17.4	—	23.3	27	15.9	4	0	0	0	0
Bahariya	41.3	27	31.8	23	30	30	17	1	0	17.7	—	23.9	27	15.9	23	0	0	0	0
Farafra	40.6	27	31.6	23	30	30	15	1	0	17.6	—	21.1	9	15.6	14	0	0	0	0
Dakhla	43.0	27	32.7	23	30	30	23	3	0	—	—	23.0	9	14.5	20	0	0	0	0
Kharga	43.4	28	33.8	23	30	30	25	3	0	20.1	—	27.4	10	18.3	15	0	0	0	0
Tor	35.6	30	28.5	23	30	24	2	0	0	—	—	24.7	1	18.0	20	0	0	0	0
Hurghada	35.4	28	29.7	23,24	30	28	2	0	0	19.8	—	24.2	2,3	19.4	27	0	0	0	0
Qusseir	34.9	30	29.5	23,24	30	26	0	0	0	19.8	—	26.0	28	22.0	24	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

SEPTEMBER — 1965

Station	Mean Sky Cover Oct					Rainfall mms										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of Days With Amount of Rain						
								Amount	Date	< 0.1	≥ 0.1	≥ 1.0	≥ 5.0	≥ 10	≥ 25	≥ 50
Sallum	1.1	2.2	1.7	1.4	1.5	0.3	— 0.4	0.3	24	1	1	0	0	0	0	0
Mersa Matruh (A)	0.6	2.2	1.5	0.5	1.2	0.0	— 1.0	0.0	—	0	0	0	0	0	0	0
Alexandria (A)	1.8	3.1	3.0	2.4	2.4	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Port Said (A)	0.7	1.8	0.7	0.3	0.9	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
El Arish	3.5	2.9	1.7	2.3	2.0	0.0	— 0.6	0.0	—	0	0	0	0	0	0	0
Ghazza	3.5	2.3	1.3	2.3	1.9	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Tanta	—	1.6	1.2	0.1	—	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Cairo (A)	1.8	2.7	0.8	0.1	1.4	0.0	— tr.	0.0	—	0	0	0	0	0	0	0
Fayoum	—	0.6	0.2	0.4	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.0	0.8	0.2	0.3	0.2	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.0	0.2	0.1	0.3	0.1	0.0	— tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.0	0.3	0.5	0.5	0.3	1.0	+ 0.9	1.0	30	0	1	1	0	0	0	0
Aswan (A)	0.5	0.9	1.0	0.8	0.8	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	0.3	0.7	0.7	0.5	0.4	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Bahariya	0.0	1.0	0.3	0.0	0.3	0.0	— tr.	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.1	0.2	0.1	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Dakhla	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Kharga	0.0	0.1	0.3	0.1	0.2	0.0	— tr.	0.0	—	0	0	0	0	0	0	0
Tor	0.4	0.3	0.8	0.4	0.4	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Hurghada	0.0	0.3	0.3	0.3	0.2	tr.	+ tr.	tr.	30	1	0	0	0	0	0	0
Quseir	0.0	0.5	0.4	0.5	0.3	tr.	0.0	tr.	30	1	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

SEPTEMBER — 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice. Pellets	Hail											
Sallum.	1	0	0	0	0	1	1	0	0	0	2	0	0	19	0
Mersa Matruh. .(A)	0	0	0	0	0	0	4	0	0	0	0	0	0	23	0
Alexandria. . . .(A)	0	0	0	0	0	0	1	4	0	0	0	0	0	10	0
Port Said. . . .(A)	0	0	0	0	0	0	0	0	1	0	0	0	0	27	0
El Arish.	0	0	0	0	0	0	11	0	0	0	0	0	0	7	0
Ghazza.	0	0	0	0	0	0	2	0	0	0	0	0	0	13	0
Tanta.	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo. . . . . .(A)	0	0	0	0	0	0	17	4	1	0	2	0	0	22	0
Fayoum.	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya. . . . . .(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Assyout. . . . .(A)	0	0	0	0	0	0	0	0	3	0	0	0	0	30	0
Luxor. . . . . .(A)	1	0	0	0	0	0	0	0	1	0	2	0	0	29	0
Aswan. . . . . .(A)	0	0	0	0	0	0	0	0	0	0	3	1	1	28	1
Siwa.	0	0	0	0	0	0	0	0	0	0	1	0	0	26	0
Bahariya.	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Farafra.	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Dakhla.	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Kharga.	0	0	0	0	0	0	0	0	0	0	5	0	0	29	0
Tor.	0	0	0	0	0	0	0	0	0	0	3	0	0	29	0
Hurghada.	0	0	0	0	0	0	0	0	0	0	1	0	0	29	0
Quseir	0	0	0	0	0	0	0	0	0	0	0	0	0	29	1

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

SEPTEMBER — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Sallum	27	37	0	1—10	21	183	56	40	19	1	3	8	17	15	73	130	566
				11—27	4	19	0	0	0	0	0	5	4	1	16	41	90
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	25	202	56	40	19	1	3	13	21	16	89	171	656
Mersa Matruh (A)	7	5	0	1—10	106	120	13	9	5	9	7	6	17	69	100	45	506
				11—27	91	75	0	3	7	2	1	3	4	2	5	11	204
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	197	195	13	12	12	11	8	9	21	71	105	56	710
Alexandria (A)	62	0	0	1—10	133	33	8	5	7	11	5	9	4	7	36	199	457
				11—27	45	23	6	1	3	1	0	0	3	0	33	89	201
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All Speeds	178	56	14	6	10	12	5	9	4	7	69	288	658
Port Said (A)	0	0	0	1—10	155	73	32	5	14	8	5	2	26	83	43	185	631
				11—27	13	17	12	0	0	0	0	0	0	2	9	36	89
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	168	90	44	5	14	8	5	2	26	85	52	221	720
El Arish	29	1	0	1—10	83	63	8	6	16	53	36	81	57	12	26	245	686
				11—27	0	0	0	0	0	0	0	0	0	0	4	0	4
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	83	63	8	6	16	53	36	81	57	12	30	245	690
Ghazza (A)	0	39	2	1—10	54	40	20	7	23	169	23	8	16	40	82	113	595
				11—27	27	11	0	0	0	4	0	1	3	7	17	14	84
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	81	51	20	7	23	173	23	9	19	47	99	127	679
Tanta	35	9	0	1—10	178	69	38	21	14	12	0	0	30	63	87	157	669
				11—27	0	0	2	1	0	0	0	0	0	0	0	4	7
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	178	69	40	22	14	12	0	0	30	63	87	161	676
Cairo (A)	19	0	6	1—10	145	114	89	48	19	6	0	2	0	3	18	79	517
				11—27	32	60	51	17	7	0	0	0	0	0	0	5	178
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	177	174	140	65	26	6	0	2	0	3	18	84	695
Fayoum	1	1	279	1—10	281	37	2	1	1	3	3	4	3	1	3	99	438
				11—27	0	1	0	0	0	0	0	0	0	0	0	0	1
				38—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	281	38	2	1	1	3	3	4	3	1	3	99	439

Table A 5. (*contd.*)—**NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

SEPTEMBER — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indication												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya	23	37	0	1—10	189	22	1	0	2	6	9	1	1	3	3	265	502
				11—27	69	11	0	0	0	0	0	0	0	0	0	78	158
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**258**	**33**	**1**	**0**	**2**	**6**	**9**	**1**	**1**	**3**	**3**	**343**	**660**
Assyout (A)	5	0	0	1—10	6	4	11	9	7	2	6	6	156	174	138	45	564
				11—27	4	0	0	0	1	3	1	0	6	1	99	36	151
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**10**	**4**	**11**	**9**	**8**	**5**	**7**	**6**	**162**	**175**	**237**	**81**	**715**
Luxor (A)	17	32	3	1—10	101	50	14	1	10	18	109	97	25	41	55	108	629
				11—27	10	2	0	0	1	1	2	1	6	1	1	14	39
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**111**	**52**	**14**	**1**	**11**	**19**	**111**	**98**	**31**	**42**	**56**	**122**	**668**
Aswan (A)	0	0	26	1—10	228	122	19	0	0	0	1	3	2	13	14	96	498
				11—27	118	50	6	0	1	0	1	3	1	0	4	18	196
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**346**	**172**	**19**	**0**	**1**	**0**	**2**	**6**	**3**	**13**	**18**	**114**	**694**
Siwa	93	14	0	1—10	55	66	56	72	43	20	13	10	16	34	84	64	533
				11—27	14	22	12	4	1	2	3	2	1	2	8	5	80
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**69**	**88**	**72**	**76**	**44**	**22**	**16**	**12**	**17**	**36**	**92**	**69**	**613**
Dakhla	0	15	1	1—10	138	65	9	5	6	9	16	20	30	75	114	191	678
				11—27	12	14	0	0	0	0	0	0	0	0	0	0	26
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**150**	**79**	**9**	**5**	**6**	**9**	**16**	**20**	**30**	**75**	**114**	**191**	**704**
Tor	3	0	91	1—10	34	37	23	22	16	15	7	9	8	10	37	48	266
				11—27	6	0	1	0	0	0	2	0	0	1	250	98	358
				28—47	0	0	0	0	0	0	0	0	0	0	2	0	2
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**40**	**37**	**24**	**22**	**16**	**15**	**9**	**9**	**8**	**11**	**289**	**146**	**626**
Hurghada (A)	7	0	6	1—10	3	13	6	3	6	11	2	1	1	10	71	22	149
				11—27	113	12	0	0	0	3	1	0	0	19	154	227	529
				28—47	0	0	0	0	0	0	0	0	0	0	12	17	29
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**116**	**25**	**6**	**3**	**6**	**14**	**3**	**1**	**1**	**29**	**237**	**266**	**707**
Quseir	52	1	13	1—10	72	19	8	0	1	2	1	2	3	55	129	111	403
				11—27	94	0	0	0	0	0	0	0	0	4	19	133	250
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**166**	**19**	**8**	**0**	**1**	**2**	**1**	**2**	**3**	**59**	**149**	**244**	**654**

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. (*cont.l.*)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND ELECTED PRESSURE SURFACES

SEPTEMBER — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh (A) 0000 UT	Surface	30	*1014m.b.	*1018m,b.	*1011m.b.	30	20.9	24.7	17.7	30	17.6
	1000	30	149	182	122	30	21.5	26.0	17.3	30	17.0
	850	30	1549	1575	1518	30	16.6	21.9	9.9	24	2.2
	700	30	3179	3207	3150	30	8.8	13.7	4.0	7	— 3.8
	600	30	4435	4466	4407	30	0.7	5.0	— 5.0	6	—11.8
	500	30	5872	5918	5835	30	— 9.5	— 6.1	—13.8	5	—19.7
	400	30	7553	7615	7501	30	—22.3	—19.2	—25.7	5	—30.9
	300	30	9602	9687	9523	30	—38.1	—33.6	—42.0	—	—
	200	27	12290	12420	12164	27	—54.7	—51.2	—60.0	—	—
	150	26	14099	14237	13946	26	—62.3	—59.0	—64.4	—	—
	100	19	16569	16690	16455	19	—67.9	—63.3	—71.6	—	—
	70	14	18742	18820	18620	14	—62.7	—58.0	—67.3	—	—
	60	14	19694	19776	19596	14	—59.9	—56.7	—62.7	—	—
	50	13	20838	20926	20736	13	—57.6	—55.0	—60.5	—	—
	40	5	22262	22356	22168	5	—55.2	—52.7	—57.1	—	—
	30	3	24146	24233	24061	3	—51.0	—47.8	—53.2	—	—
	20	1	26779	—	—	1	—49.7	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface	30	*996m.b.	*999m.b.	*992m.b.	30	22.0	27.7	19.3	30	16.7
	1000	30	107	132	76	—	—	—	—	—	—
	850	30	1509	1533	1484	30	18.9	22.3	14.4	27	1.3
	700	30	3147	3180	3122	30	9.9	14.9	5.0	11	— 4.6
	600	30	4409	4448	4366	30	1.7	5.6	— 3.0	8	—14.3
	500	30	5852	5910	5788	30	— 8.5	— 4.4	—12.8	2	—21.4
	400	30	7546	7622	7482	30	—21.2	—18.2	—25.0	2	—29.2
	300	30	9598	9695	9476	30	—37.3	—32.1	—41.5	—	—
	200	30	12293	12429	12106	30	—54.0	—50.3	—59.0	—	—
	150	30	14101	14257	13884	30	—63.4	—58.3	—66.3	—	—
	100	29	16542	16700	16342	29	—69.2	—63.0	—77.4	—	—
	70	25	18705	18860	18560	25	—64.0	—58.7	—67.5	—	—
	60	23	19646	19814	19496	23	—60.9	—55.3	—64.0	—	—
	50	21	20786	20967	20644	21	—57.9	—52.8	—60.4	—	—
	40	19	22194	22324	22040	19	—54.9	—48.2	—57.6	—	—
	30	16	24052	24270	23922	16	—52.6	—48.3	—55.4	—	—
	20	8	26667	26789	26560	8	—48.7	—46.9	—50.0	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan (A) 0000 UT	Surface	16	*987m.b.	*989m.b.	*985m.b.	16	25.6	59.5	21.5	16	6.1
	1000	16	83	97	60	—	—	—	—	—	—
	850	16	1511	1527	1496	16	24.1	26.1	22.3	14	0.5
	700	16	3173	3199	3149	16	11.8	14.1	9.5	13	— 5.0
	600	16	4437	4468	4402	16	0.3	2.8	— 1.8	14	—10.8
	500	16	5878	5909	5832	16	— 7.4	— 4.1	—11.7	1	—21.2
	400	16	7579	7628	7506	16	—19.7	—14.5	—24.6	—	—
	300	15	9651	9731	9543	15	—34.8	—31.8	—37.8	—	—
	200	13	12370	12489	12252	13	—53.8	—51.8	—55.8	—	—
	150	13	14174	14304	14063	13	—64.5	—61.9	—67.3	—	—
	100	12	16602	16738	16509	12	—73.1	—68.1	—77.7	—	—
	70	9	18739	18870	18640	9	—65.7	—64.0	—68.0	—	—
	60	7	19670	19824	19592	7	—63.8	—62.4	—66.3	—	—
	50	7	20794	20957	20730	7	—62.1	—59.6	—68.3	—	—
	40	4	22148	22164	22132	4	—56.5	—55.4	—57.9	—	—
	30	3	24004	24013	23996	3	—51.0	—47.5	—53.4	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALEUS OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

SEPTEMBER — 1965

Station	Presure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh (A) 1200 UT	Surface	30	*1014m.b.	*1017m.b.	*1011m.b.	30	27.2	32.0	24.2	30	19.8
	1000	30	153	178	133	30	25.8	30.6	22.5	30	18.0
	850	30	1563	1585	1534	30	17.8	25.3	8.8	26	1.4
	700	30	3198	3259	3167	30	9.4	16.4	4.5	11	— 3.4
	600	30	4459	4487	4417	30	1.8	7.0	— 3.6	6	—11.6
	500	30	5901	6008	5840	30	— 8.3	— 5.1	—13.0	1	—25.0
	400	30	7590	7711	7505	30	—21.4	—17.2	—25.7	3	—31.2
	300	30	9643	9787	9520	30	—37.2	—33.2	—41.3	1	—43.4
	200	28	12340	12546	12174	28	—53.7	—49.0	—56.8	—	—
	150	27	14161	14386	13996	27	—60.9	—57.6	—63.5	—	—
	100	25	16644	16866	16507	25	—66.0	—60.9	—70.3	—	—
	70	20	18842	19010	18690	20	—60.4	—57.5	—63.4	—	—
	60	18	19807	20033	19656	18	—57.4	—51.1	—60.2	—	—
	50	17	20907	21225	20803	17	—54.3	—48.7	—57.1	—	—
	40	5	22479	22687	22375	4	—52.1	—51.1	—52.9	—	—
	30	4	24367	24690	24245	4	—46.9	—43.4	—48.4	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10		—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	30	*995m.b.	*998m.b.	*992m.b.	30	32.5	38.0	28.6	30	10.1
	1000	30	101	124	76	—	—	—	—	—	—
	850	30	1522	1558	1502	30	20.1	24.2	15.3	27	0.8
	700	30	3167	3203	3127	30	11.1	16.5	7.4	6	— 4.5
	600	30	4434	4478	4381	30	2.8	6.8	— 2.3	3	—12.2
	500	30	5882	5937	5815	30	— 7.5	3.4	—11.4	2	—23.4
	400	29	7579	7652	7502	29	—20.0	15.7	—23.6	2	—27.8
	300	29	9646	9730	9532	29	—35.8	—30.6	—39.9	—	—
	200	29	12358	12474	12216	29	—53.2	—49.2	—59.0	—	—
	150	28	14168	14293	14016	28	—62.4	—58.6	—65.9	—	—
	100	28	16641	16991	16480	28	—68.8	—61.0	—76.8	—	—
	70	26	18793	18940	18640	26	—63.3	—57.8	—67.0	—	—
	60	23	19735	19876	19594	23	—59.1	—57.0	—61.5	—	—
	50	22	20893	21039	20778	22	—56.1	—51.6	—59.8	—	—
	40	16	22303	22417	22201	16	—53.2	—51.5	—55.0	—	—
	30	10	24179	24307	24112	10	—48.8	—43.2	—52.7	—	—
	20	5	26869	27027	26775	5	—44.4	—42.5	—48.7	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 UT	Surface	16	*987m.b.	*988m.b.	*983m.b.	16	38.2	40.8	34.0	16	5.6
	1000	16	70	1540	1503	—	—	—	—	—	—
	850	16	1525	3220	3174	16	36.3	28.5	22.9	9	—0.2
	700	16	3198	4505	4442	16	13.4	16.8	11.2	13	—4.7
	600	16	4471	5968	5880	16	2.3	6.1	0.0	15	—10.2
	500	16	5920	7703	7563	16	— 6.3	— 2.3	—10.4	—	—
	400	16	7628	9790	9625	16	—18.2	—12.8	—22.0	—	—
	300	15	9713	12611	12326	15	—33.5	—28.4	—35.9	—	—
	200	15	12444	14460	14138	15	—52.2	—49.3	—55.4	—	—
	150	15	14261	16933	16584	15	—62.6	—59.3	—65.8	—	—
	100	12	16719	19076	18010	12	—71.0	—68.6	—74.5	—	—
	70	10	18796	19958	19704	10	—64.0	—60.5	—70.6	—	—
	60	8	19819	21135	20853	8	—58.6	—54.6	—61.8	—	—
	50	8	20974	22591	22389	8	—55.5	—51.8	—58.7	—	—
	40	5	22438	24503	24276	5	—51.4	—48.7	—53.5	—	—
	30	5	24329	—	—	5	—45.9	—43.1	—49.8	—	—
	20	1	26995	—	—	1	—42.6	—	—	—	—
	10	—	—			—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

SEPTEMBER — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
0000 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh (A)	4533 (30)	593 (30)	−7.3 (7)	5100	553	—	3760	650	−4.2	14417 (19)	147 (19)	64.8 (19)	16656	100	−70.5	11570	221	−53.0	—	—	—	—
	Helwan	4663 (30)	582 (30)	−13.2 (9)	5290	541	—	3730	648	−12.2	15344 (29)	124 (29)	68.7 (29)	16950	92	−71.4	12800	183	−59.1	13320	170	240	145
	Aswan (A)	4518 (16)	594 (16)	−11.0 (14)	5210	545	—	4220	614	−12.5	16016 (10)	112 (10)	72.6 (10)	17520	85	−78.3	14500	141	−69.9	12300	200	270	68
1200 U.T.		(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh (A)	4718 (30)	584 (30)	−8.9 (6)	5350	542	—	3840	638	−3.2	14466 (25)	147 (25)	−63.2 (25)	16724	100	−70.0	11000	244	−50.2	13880	160	232	81
	Helwan	4833 (30)	572 (30)	−13.2 (3)	5410	535	—	4060	626	—	15834 (27)	116 (27)	−68.4 (27)	17480	86	−72.5	13100	178	−58.3	11300	234	240	91
	Aswan (A)	4792 (16)	576 (16)	−10.2 (12)	5630	520	—	4455	600	−4.8	16093 (12)	112 (12)	−71.3 (12)	17230	92	−73.5	14840	137	−61.8	9660	300	260	66

N = The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN CALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — SEPTEMBER 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	5	8	3	7	0	—	0	—	0	—	0	—	1	11	0	—	1	1	8	4	8	5	2	10	2	30	6
	1000	7	9	1	12	0	—	1	12	0	—	0	—	1	16	0	—	0	—	2	7	9	9	8	12	0	29	10
	850	4	11	2	11	2	10	0	—	0	—	0	—	0	—	0	—	3	9	1	11	2	21	5	13	0	19	12
	700	0	—	1	8	0	—	0	—	0	—	0	—	0	—	1	8	0	—	0	—	3	16	0	—	0	5	13
	600	0	—	0	—	0	—	1	7	0	—	0	—	0	—	1	13	0	—	0	—	2	21	0	—	0	4	16
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	18	0	—	0	2	18
	400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	15	11	10	12	0	—	1	17	2	18	0	—	0	—	0	—	1	14	0	—	1	11	0	—	0	30	12
	1000	5	11	2	11	0	—	0	—	0	—	1	14	1	9	0	—	1	10	0	—	4	12	15	13	1	30	12
	850	7	13	0	—	1	7	0	—	0	—	0	—	2	4	0	—	2	14	4	11	7	18	5	13	1	29	13
	700	2	13	1	11	1	7	0	—	2	8	2	12	1	16	2	13	1	14	5	18	7	17	4	12	2	30	13
	600	2	14	0	—	2	6	0	—	1	9	1	16	1	5	4	15	6	18	3	12	7	14	3	13	0	30	14
	500	2	18	1	11	1	6	0	—	0	—	0	—	2	10	3	18	6	20	5	9	7	14	0	—	1	28	14
	400	2	28	1	23	0	—	0	—	0	—	0	—	2	6	1	8	7	27	6	22	5	26	3	22	0	27	23
	300	0	—	1	17	0	—	0	—	1	13	0	—	0	—	0	—	9	40	7	22	3	28	1	11	0	22	29
	200	0	—	0	—	0	—	0	—	0	—	1	6	0	—	0	—	6	49	4	25	1	32	1	32	0	13	34
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	27	2	8	0	—	0	—	0	6	28
	100	0	—	0	—	0	—	0	—	0	—	1	7	0	—	0	—	0	—	1	10	0	—	0	—	0	2	8
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during themonth.

Table B 3 (*contd.*).— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN— SEPTEMBER 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	14	7	7	10	2	14	1	14	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	8	3	30	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	8	12	8	10	2	12	3	14	0	—	0	—	0	—	0	—	0	—	4	8	1	11	4	13	0	30	11
	700	4	12	0	—	1	12	0	—	1	5	1	16	1	2	4	14	0	—	6	10	3	10	9	15	0	30	12
	600	2	6	0	—	0	—	1	6	0	—	0	—	2	5	2	15	6	21	3	9	10	14	4	13	0	30	13
	500	1	4	2	8	0	—	0	—	1	8	0	—	1	17	3	18	6	22	7	16	6	18	3	16	0	30	17
	400	3	19	2	8	0	—	0	—	0	—	1	4	0	—	2	24	9	28	7	23	4	30	2	14	0	30	23
	300	2	44	1	22	1	20	0	—	0	—	0	—	1	12	1	35	8	40	9	34	6	25	1	18	0	30	33
	200	0	—	0	—	0	—	0	—	0	—	0	—	1	13	1	41	8	52	17	41	1	19	2	20	0	30	40
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	38	13	42	11	35	1	34	0	—	0	28	38
	100	0	—	0	—	0	—	1	24	1	10	1	30	1	24	1	16	5	29	10	23	3	16	0	—	0	23	24
	70	0	—	1	10	3	16	3	22	0	—	2	12	1	9	0	—	1	18	2	29	2	13	0	—	0	15	17
	60	1	13	1	12	2	16	3	16	0	—	2	14	0	—	0	—	0	—	1	36	1	1	1	43	0	12	18
	50	2	12	0	—	3	11	2	3	0	—	1	17	0	—	0	—	0	—	1	43	0	—	0	—	0	8	19
	40	0	—	0	—	0	—	5	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	5	16
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	5	10	4	14	1	19	0	—	0	—	1	4	0	—	0	—	1	4	1	11	3	9	14	11	0	30	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	8	10	10	12	1	11	3	8	2	8	0	—	0	—	1	2	0	—	1	4	3	9	1	10	0	30	10
	700	4	6	1	14	0	—	1	5	0	—	2	12	2	6	3	14	5	19	4	16	0	—	8	10	0	30	12
	600	2	4	2	6	0	—	0	—	0	—	2	9	1	18	3	19	6	17	8	16	6	10	0	—	0	30	14
	500	3	12	1	11	0	—	0	—	0	—	2	14	1	14	3	24	6	20	7	21	4	15	3	8	0	30	17
	400	1	22	1	10	1	4	0	—	2	18	0	—	2	16	3	25	7	36	9	21	2	30	1	9	0	29	24
	300	1	24	0	—	0	—	1	18	0	—	1	31	0	—	2	24	10	42	9	33	4	24	1	28	0	29	33
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	12	44	10	39	2	32	4	23	0	28	38
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	16	8	39	10	42	8	28	1	22	0	28	35
	100	0	—	0	—	0	—	1	14	1	5	1	43	2	15	4	12	8	23	7	19	0	—	2	20	0	26	19
	70	1	15	0	—	0	—	4	14	4	18	4	22	2	14	0	—	2	11	1	15	0	—	0	—	0	18	16
	60	0	—	2	20	2	16	4	16	5	24	0	—	0	—	0	—	0	—	1	2	2	4	0	—	0	16	17
	50	0	—	0	—	3	22	6	28	1	15	0	—	1	9	0	—	0	—	0	—	0	—	0	—	0	11	24
	40	0	—	0	—	0	—	4	18	1	19	0	—	0	—	0	—	0	—	1	22	0	—	0	—	0	6	19
	30	0	—	0	—	0	—	2	19	2	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	4	20
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the winds has been observed from the range of direction during the month.

TN — The total number of cases the wind has been observed for all directions during the month.

Table B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

ASWAN (A) SEPTEMBER 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	10	9	1	10	1	9	1	9	0	—	0	—	0	—	0	—	0	—	0	—	1	8	2	8	0	16	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	0	—	1	8	1	10	1	11	1	10	1	8	0	—	2	11	2	8	4	8	2	10	0	15	9
	700	0	—	0	—	0	—	0	—	0	—	0	—	3	5	3	29	8	18	0	—	0	—	1	25	0	15	18
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	21	6	20	1	20	1	30	0	—	0	15	21
	500	0	—	0	—	0	—	0	—	0	—	1	8	1	32	2	14	5	15	3	12	1	10	1	6	0	14	14
	400	0	—	0	—	0	—	0	—	0	—	0	—	2	20	1	16	6	21	2	15	2	16	1	4	0	14	18
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	12	0	—	7	27	4	20	1	12	0	—	0	13	22
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	30	2	47	1	4	0	—	0	10	31
	150	0	—	0	—	0	—	0	—	0	—	0	—	2	20	1	12	3	25	3	39	0	—	0	—	0	9	27
	100	0	—	0	—	0	—	0	—	1	30	0	—	2	10	0	—	2	14	2	40	0	—	0	—	0	7	21
	70	0	—	0	—	0	—	1	12	1	5	0	—	1	6	0	—	0	—	0	—	0	—	0	—	0	3	8
	60	0	—	0	—	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	10
	50	0	—	0	—	0	—	0	—	1	19	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	19
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	11	9	0	—	0	—	0	—	1	4	0	—	0	—	0	—	0	—	2	6	0	—	1	7	1	16	7
	1000	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	0	—	0	—	1	9	1	6	0	—	0	—	0	—	3	9	4	10	7	10	0	—	0	—	0	16	10
	700	0	—	0	—	0	—	0	—	0	—	1	12	1	7	9	20	4	26	1	22	0	—	0	—	0	16	20
	600	0	—	0	—	0	—	0	—	0	—	0	—	3	14	8	22	5	35	0	—	0	—	0	—	0	16	21
	500	0	—	0	—	0	—	0	—	0	—	3	11	3	12	2	14	6	8	2	19	0	—	0	—	0	16	12
	400	0	—	0	—	0	—	0	—	2	13	0	—	3	18	0	—	3	15	6	17	2	8	0	—	0	16	15
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	18	6	23	4	33	2	15	0	—	0	15	24
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	34	7	27	4	35	2	24	0	—	0	15	29
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	28	7	21	0	—	0	—	0	15	24
	100	0	—	0	—	0	—	1	16	0	—	2	10	2	10	1	6	2	14	2	10	0	—	0	—	0	10	11
	70	0	—	0	—	0	—	2	15	1	19	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	16
	60	0	—	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	1	20
	50	0	—	0	—	0	—	0	—	1	28	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	28
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR — SEPTEMBER 1965

This month was mild and dry. The mean air temperature was 0.6°C below normal & the total amount of rain fall was 11.0 mms below normal. The daily mean relative humidity was normal.

A heat wave was distinguished from the 24th to the 26th reaching its peak on the 26th of the month, giving rise to the absolute maximum air temperature at 2 metres with 9.3°C above nomal.

The extreme maximum and extreme minimum soil temperatures were higher than the corresponding values of last year, except for the absolute minimum of depth 0.3 cm which was lower by 1.0°C. The deviations of increase ranged from 2.2°C at 1 cm depth to 0.2°C at 20 & 200 cms depths for the extreme maxima and ranged from 1.0°C for 5 cms depth to 0.1°C for 200 cms depth for the extreme minima.

The daily mean wind speed at 2 ms above ground was remarkably lower than the corresponding value of last September by 1.0 m/sec. The total actual duration of bright sunshine was 4.7 hours less than last year. The daily mean value of Piche evaporation and Pan Class A evaporation were lower by 3.0 mms and 1.41 mms respectively than last September.

TAHRIR — SEPTEMBER 1965

The month started with moderate temperature without relevant fluctuations-prevailing in the first two weeks, after which temperature began to drop more or less gradually, until the 21st when occurred the lowest values of maximum and minimum air temperature of the month. After the 24th a warm spell took place reaching its peak on the 27th when the lowest relative humidity and the highest maximum temperature were recorded. Four cases of fog occurred. Deviations from the values of last September were small, mostly negative, except mainly mean air temperature and vapour pressure, whose deviations were +1.1°C and +0.8 mm respectively. Mean relative humidity was the same as last year.

As for soil temperature extreme from the surface to one meter depth, the differences from the corresponding extreme maxima were slight, and more on less irregular, varying between —0.1 and +0.8°C. On the other hand the extreme minima were higher than the corresponding values of last year by 1.0 to 1.9°C.

Mean wind speed was 0.3 m/sec lower than the corresponding value of September 1964. Mean evaporation of Piche and Class A pan deviated by —0.4 and —0.66 mm from last September. Total actual sunshine duration was 5.9 hours less than the corresponding value of September 1964.

GIZA — SEPTEMBER 1965

The month was rather warm as compared with the normal values of air temperature for September at Giza ; the mean daily air temperature at 2 ms height above ground was 1.0°C above normal. The mean daily relative humidity was about normal. The month started with a cold spell which stayed till the 3rd of the month and the peak on the 1st. Another cold spell acted through the period (18th-24th) with its peak on the 22nd. A heat wave occurred between the 25th and the end of the month with the peak on the 27th when the absolute maximum air temperature was recorded. The absolute minimum air temperature at 5 cms above ground level in different fields were lower than the corresponding values of September 1964 by 3.0, 2.0 and 3.3°C for the dry, wet and grass fields respectively.

Comparing with September 1964, the extreme maximum soil temperatures down to 20 cms depth in the dry field were higher ; the maximum deviation was 3.9°C at 1 cm depth. At 50 cms depth the value was 0.3°C lower and at 100 cms depth the value was the same as the corresponding value for last September. The extreme minimum soil temperature down to 100 cms depth were higher than the corresponding values for September 1964 ; the maximum deviation was 2.6°C at 20 cms depth.

The mean daily wind speed at 2 m. height was 0.2 m/sec lower than the corresponding value of September 1964. The mean daily value of Piche and Class a pan evaporation were higher than those of last September by 0.2 and 0.45 mm respectively, while the mean daily values of potential evaporation and potential evaportranspiration were lower by and 0.5 mm respectively. The total actual duration of bright sunshine was 2.3 hours higher than the corresponding value for September 1964.

KHARGA — SEPTEMBER 1965

This month was slightly warmer than normal. It was characterised by a pronounced heat wave during the period (25th-30th) with peak on 28th which was associated with the absolute maximum temperature of the month. The absolute minimum air temperature at 5 cms above the dry field was 15.8°C while that of September 1964 was 14.4°C.

The extreme maximum and minimum soil temperatures at different depths were generally higher than the corresponding values for September 1964. The differences ranged between 1.9°C at 10 cms depth and 0.2°C at 100 cms depth in case of extreme maxima; and between 1.5°C at 0.3 cm depth and 0.8°C at 100 cms depth in case of extreme minima.

The mean daily wind speed at 2 m. height was 0.3 m/sec lower than the corresponding value of September 1964. Mean daily Piche evaporation was 1.6 mms lower than the corresponding value of September 1964 while mean daily Class A pan evaporation was 0.7 mm higer. Total actual duration of bright sunshine was 5.2 hours lower than the corresponding value of last September.

Table C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

SEPTEMBER — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kaar	28.8	18.5	23.9	21.8	25.9	24.0	24.0	24.0	24.0	24.0	19.3	9.5	0.3	0.1	0.0	0.0
Tahrir	33.3	18.9	25.3	22.1	28.1	24.0	24.0	24.0	24.0	24.0	20.8	11.2	4.6	0.3	0.0	0.0
Giza	33.3	19.1	25.9	23.4	28.2	24.0	24.0	24.0	24.0	24.0	21.3	12.5	5.2	0.4	0.0	0.0
Kharga	37.6	22.3	29.9	27.0	32.5	24.0	24.0	24.0	24.0	24.0	23.8	19.4	11.1	4.6	0.5	0.0

Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS

SEPTEMBER — 1965

STATION	Max. Temp. at 2 metres				Min. Temp. at 2 metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry Soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kaar	37.0	26	27.0	23	23.3	27	15.6	2	12.4	2	—	—
Tahrir	39.1	27	30.2	21	21.4	11,12	15.1	21	12.4	21	—	—
Gizal	38.5	27	30.0	22	21.8	9	15.5	21	11.9	20	10.4	20
Kharga	43.4	28	33.8	23	27.4	10	18.5	15	15.8	19	—	—

Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY & VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL

SEPTEMBER — 1965

STATION	Solar+Sky Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour Pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual	Total Possible monthly	%	Duration in hours > 90 %	Duration in hours > 80 %	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount monthly	Max. fall in one day	Date
El Kaar	460.5	327.7	371.1	87	—	—	73	63	23	26	16.8	17.4	22.3	7	10.6	1	10.8	11.95	Tr.	Tr.	26
Tahrir	551.8	318.8	370.6	86	4.0	8.8	67	37	22	26,27	15.2	13.2	21.0	30	9.4	7	12.5	8.70	0.0	0.0	—
Giza	535.7	318.0	370.6	86	1.9	6.5	62	36	19	3,27	14.7	12.9	19	8	8.9	30	13.3	9.62	0.0	0.0	—
Kharga	529.0	340.1	371.9	91	0	0	30	19	8	26	8.9	8.8	13.8	10,19	3.9	26	34.5	18.31	0.0	0.0	—

Table C. 4. EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

SEPTEMBER 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr	H	46.0	41.1	40.7	37.4	33.1	29.4	28.1	27.1	25.1	—	—	—	—	—	—	—	—	—	—	—
	L	12.6	15.1	15.7	18.4	21.3	24.4	26.2	26.1	24.8	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	51.9	50.3	47.3	44.5	39.7	34.7	31.6	30.9	29.6	28.4	—	—	—	—	—	—	—	—	—	—
	L	15.6	15.6	16.5	20.5	23.2	27.2	28.8	29.5	28.9	28.2	—	—	—	—	—	—	—	—	—	—
Giza	H	59.0	57.5	55.4	41.0	36.9	33.6	32.8	31.7	29.3	27.4	24.0	34.2	31.5	29.6	28.7	27.7	27.2	26.2	24.9	—
	L	15.3	15.8	17.0	24.2	27.9	30.4	31.3	31.0	28.9	26.8	16.0	19.2	20.8	22.2	24.2	25.2	26.1	25.6	24.5	—
Kharga	H	57.6	50.[illegible]	49.0	42.6	38.1	34.8	34.3	33.2	31.3	29.8	—	—	—	—	—	—	—	—	—	—
	L	18.5	19.8	20.8	24.4	27.5	30.2	31.8	32.0	31.1	29.4	—	—	—	—	—	—	—	—	—	—

Table C 5. SURFACE WIND

SEPTEMBER 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr . . .	3.5	2.6	4.7	—	—	—	—	—	—	—	—	—
Tahrir	2.7	2.0	3.7	28	3	0	0	0	0	0	21	21·28
Giza	2.2	1.8	2.6	30	11	1	0	0	0	0	25	28
Kharga	4.3	3.2	6.2	—	—	—	—	—	—	—	—	—

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THE ARAB REPUBLIC OF EGYPT

MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 10

OCTOBER, 1965

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METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE ARAB REPUBLIC OF EGYPT — CAIRO

In fulfilment of its duties, the Meteorological Department of Egypt issues several reports an publications on weather, climate and agrometeorology. The principal publications are describe on this page.

Orders for publications should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It include surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selectio of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weathe conditions that prevailed over Egypt during the month, with a table showing the mean values fo few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.

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METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

OCTOBER 1965

Changeable; cold and rainy in the northern parts with occasional thunderstorms, hot and dry in the southern parts. A daily rain record at Suez on the 5th.

GENERAL DESCRIPTION OF WEATHER

During this month, the prevailing weather was changeable, mild to cold and rainy with occasional scattered thunderstorms over the northern parts; hot to mild and dry in the southern parts Rain was light/moderate in general and fell over many localities in the northeru parts motly in the first and fourth weeks.

Rain was associated with occasional thunderstorms over scattered localities particularly of the Mediterranean coastal strip round the 3rd, 4th, 26th, 27th & 28th. The monthly rain was remarkably above its normal over the Mediterranean district, slightly above its normal over Lower Egypt & Cairo districts and scattered localities of the western Desert & Red Sea districts. Destructive floods occurred at Suez on the 5th when 50 mms of rain fell, a record since the year 1921.

Widespread rising sand and sandstorms occurred on the 23rd over scattered localities of Lower Egypt district particularly in Tahrir Province and Canal area. Early morning mist and fog developed for few days over many localities of the Delta, Canal & Cairo areas.

PRESSURE DISTRIBUTION

The prevailing pressure distribution over the surface map this month can be summarized in the following pressure systems.

- The Anticyclonic ridge over Europe & west Mediterranean and its southeast extension towards north Africa.

— The anticyclonic ridge over Caspian & Black seas vicinities.

— The travelling deep northern low pressure systems through Urasia from west to the east.

— Two shallow depressions, one over Sudan and the other over the great sahara of Africa.

Transitory troughs of low pressure through Urasia showed four marked southward oscillations towards Black & Caspian Seas vicinities round the periods (2nd - 3rd), (6th - 8th), (11th - 13th) & (23rd - 24th). Accordingly the northern arm of the Sudan low was elongated markedly north-wards during these periods towards south east Mediterranean where the barometicr-pressure experienced four subnormal shallow oscillations. Apart from the last four periods two high pressure systems showed marked prevalence one in the west extending from Europe to north Africa and the other in the east over south-west Russia and the barometric pressure over south-east Mediterranean in particular was rather abnormal during periods (15th - 19th) & (25th - 31st),

The subtropical jet stream was evident over Egypt most of the month at about 190 mb level.

The highest wind speeds recorded at Mersa Matruh. Helwan & Aswan were 98, 140 & 136 Knots on the 21 st, 30th & 29 th respectively.

SURFACE WIND

The prevailing winds were Nly light/ moderate in general, fresh occasionally over scattered localities particularly of the Mediterranean (western parts) and Red Sea districts. Calms were frequent most night and early morning periods in general.

Gales were reported at : Kabrit on the 5th

TEMPERATURE

Maximum temperature continued mostly above normal during the first half and below normal otherwise. During the 1st half of the month its values ranged between 26°C & 32°C in the northern parts, betwen 28°C & 36°C in the middle parts and between 35°C & 40°C in the southern parts. During the second half its values ranged between 22°C & 27°C in the the northern parts, between 24°C & 30°C in the middle parts and between 27°C & 37°C in the Southern parts.

The absolute maximum temperature for the Republic was 40.6°C reported at Kom Ombo on the 8th.

The lowest maximum temperature was 20.3°C reported at Damietta on the 30th.

Minimum temperature on the other hand oscillated slightly round its normal in the northern & middle parts and generally below normal in the southern parts and its values ranged between 12°C & 22°C in general.

The absolute minimum temperature for the Republic was 7.3°C reported at Farafra on the 19th.

The highest minimum temperature was 27.5°C reported at Abul Kizan on the 1st.

PRECIPITATION

Rain was light/moderate in general, confined to the northern parts particularly the Mediterranean coastal strip & precoastal areas and fell during the 1st & 4th weeks. Occasional heavy rain associated with thunderstorms fell over many scattered localities of the northern parts for few days particularly round the 3rd, 4th, 26th, 27th & 28th. The monthly rain was excessively above normal in the Mediterranean district, slightly above its normal in the Lower Egypt & Cairo districts and scattered localities of the Western Desert & Red Sea districts. On the 5th 50 mms of rain a record since 1921 fell over Suez area and caused destructive floods.

The absolute maximum monthly rainfall for the Republic was 86.0 mms. reported at Borollos L.H. while the maximum daily rainfall was 53.9 mms. at Sidi Barrani on the 13th.

Cairo, October 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

TABLE A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

OCTOBER — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms.
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F Normal or Average	(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	1016.0	—0.2	25.6	—1.8	17.9	0.0	21.8	21.4	—1.2	17.0	—1.2	62	— 2	—	—	—	7.8
Mersa Matruh (A)	1015.9	—0.5	25.3	—1.7	16.6	—0.2	21.0	20.8	—0.9	16.8	—1.0	65	— 1	266.7	353.6	75.4	7.6
Alexandria . (A)	1014.9	—0.9	26.7	—1.1	16.6	—1.1	21.6	21.3	—1.4	17.6	—1.2	68	0	269.0	354.2	75.9	5.9
Port Said . . (A)	1014.1	—1.0	26.4	—0.9	20.5	—1.3	23.4	23.2	—0.9	19.3	—1.0	68	— 1	256.2	354.2	72.3	5.2
El Arish	1014.1	—1.0	27.2	—1.3	18.2	+0.2	22.7	22.5	—0.6	19.0	—0.4	70	— 3	293.6	352.7	83.2	9.5
Ghazza.	1013.7	—1.1	27.1	—0.2	17.5	—0.2	22.3	22.2	—0.3	18.0	—1.6	64	—11	284.9	353.6	80.6	6.3
Tanta	1014.1	—0.8	28.8	—1.3	16.4	+0.9	22.6	21.6	—0,5	17.2	—0.8	62	— 3	258.2	354.5	72.8	5.0
Cairo . . . . (A)	1014.5	—0.7	28.6	—1.3	17.6	—0.8	23.1	22.4	—1.1	17.0	—1.2	55	— 3	—	—	—	12.6
Fayoum	1014.0	—0.4	29.7	—1.7	17.3	0.0	23.5	22.9	—1.2	16.9	—1.1	51	— 1	—	—	—	6.9
Minya . . (A)	1014.0	— 0.2	30.2	—1.2	15.0	—0.6	22.6	22.3	—0.9	16.6	—0.9	53	— 2	—	—		8.3
Assyout . . . (A)	1013.4	—0.2	31.0	—0.1	17.1	—0.9	24.0	23.8	—0.6	16.0	—1.3	40	— 6	—	—	—	13.8
Luxor . . . (A)	1012.1	—0.3	33.4	—1.7	17.4	—0.2	25.4	25.3	+0.4	17.0	—0.9	39	0	—	—	—	9.8
Aswan . . . (A)	1012.4	+1.2	34.2	—2.7	18.0	—1.4	26.1	26.3	—1.9	15.6	—0.2	27	+ 7	—	—	—	18.2
Siwa.	1015.4	—0.6	29.1	—2.5	15.4	+0.5	22.2	22.3	—0.8	15.5	—0.5	45	+ 1	—	—	—	9.6
Bahariya	1014.4	—0.1	30.0	—1.1	16.4	+0.4	23.2	23.4	—0.4	16.0	—0.6	42	— 7	—	—	—	8.4
Farafra	1015.9	—0.3	29.1	—2.2	13.3	—2.1	21.2	21.0	—2.2	14.3	—0.5	43	+ 7	—	—	—	12.1
Dakhla	1013.7	+0.8	31.9	—0.3	14.4	—2.7	23.2	23.4	—1.3	14.5	—0.6	32	+ 2	—	—	—	14.4
Kharga	1013.1	+0.2	32.6	—1.5	18.2	—0.2	25.4	25.9	+0.2	15.4	—0.8	33	0	336.8	351.4	95.8	18.2
Tor	1012.3	0.0	29.9	+0.3	19.0	+0.4	24.4	24.8	+0.4	18.5	—0.9	52	— 8	—	—	—	12.0
Hurghada	1012.0	—0.1	29.7	+0.9	19.0	—0.8	24.2	24.5	—0.4	18.6	—0.6	54	— 2	—	—	—	14.4
Quseir	1012.5	+0.3	29.1	—1.0	21.6	-1.2	25.3	25.6	—0.3	19.4	—0.2	53	0	—	—	—	13.5

Table A 2.— MAXIMUM AND MINIMUM AIR TEMPERATURES

OCTOBER — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	<5	<0	<-5
Sallum	34.6	11	20.9	28	16	3	0	0	0	16.8	—	23.7	4	12.9	25,26	0	0	0	0
Mersa Matruh (A)	32.4	11	20.6	27	16	1	0	0	0	—	—	21.6	4	12.3	26	0	0	0	0
Alexandria (A)	32.5	12	22.5	24	21	5	0	0	0	—	—	21.8	2	12.5	19	0	0	0	0
Port Said (A)	32.5	12	20.5	27	22	1	0	0	0	19.2	—	25.0	2	14.4	28	0	0	0	0
El Arish	31.3	12	22.6	27	24	2	0	0	0	16.3	—	22.0	4	12.4	30	0	0	0	0
Ghazza	32.0	5	22.8	27	23	3	0	0	0	15.7	—	22.6	4	13.4	26,28,30	0	0	0	0
Tanta	34.8	12	23.4	25	24	12	0	0	0	—	—	20.2	3	12.0	13	0	0	0	0
Cairo (A)	36.5	1	22.5	28	23	10	1	0	0	—	—	21.6	1	12.5	28	0	0	0	0
Fayoum	37.0	1	24.7	27	27	15	2	0	0	—	—	22.2	3	12.3	28	0	0	0	0
Minya (A)	38.0	1	24.3	28	27	15	3	0	0	—	—	20.2	1	10.2	28	0	0	0	0
Assyout (A)	38.5	1	23.8	28	28	17	6	0	0	16.1	—	23.0	1	11.2	30	0	0	0	*
Luxor (A)	38.6	2	36.3	28	31	25	13	0	0	10.1	—	23.6	1	11.4	30	0	0	0	0
Aswan (A)	40.2	15	26.2	29	31	25	15	1	0	—	—	23.6	16	11.8	30	0	0	0	0
Siwa	36.2	1	22.8	26	25	12	1	0	0	13.5	—	21.2	1	9.8	31	1	0	0	0
Bahariya	39.9	1	24.5	27	29	15	5	0	0	14.5	—	23.4	2	10.5	28	0	0	0	0
Farafra	36.1	7	22.2	30	24	14	2	0	0	12.5	—	19.5	3	7.3	19	5	0	0	0
Dakhla	39.2	1	24.3	28	26	20	10	0	0	—	—	21.6	1	8.8	20	3	0	0	0
Kharga	39.8	2	25.6	28	31	21	11	0	0	16.1	—	23.0	15	11.5	28	0	0	0	0
Tor	35.0	13	24.4	26	30	15	0	0	0	—	—	27.0	1	13.5	30	0	0	0	0
Hurghada	38.2	8	25.2	26	31	14	1	0	0	16.6	—	26.4	1	15.2	30	0	0	0	0
Quseir	33.3	1	25.4	28	31	10	0	0	0	18.6	—	26.8	1	17.7	28	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

OCTOBER — 1965

Station	Mean Sky Cover Oct					Rainfall mms										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of Days With Amount of Rain						
								Amount	Date	< 0.1	≥ 0.1	≥ 1.0	≥ 5.0	≥10	≥25	≥50
Sallum	2.9	4.3	4 0	3.2	3.8	58.0	+40.9	25.2	28	4	10	6	4	2	1	0
Mersa Matruh (A)	2.4	4.3	4.0	2.7	3.3	67.5	+51.3	44.1	26	3	10	6	2	2	1	0
Alexandria (A)	3.0	4.4	4.6	3.6	3.8	18.1	+ 8.9	5.2	2	2	13	7	1	0	0	0
Port Said (A)	1.9	3.1	3.4	2.7	2.9	81.9	+74.9	39.6	27	0	10	7	4	2	1	0
El Arish	4.1	4.1	3.5	4.0	3.0	30.7	+24.7	18.6	23	2	5	3	2	1	0	0
Ghazza	3.2	2.8	2.8	2.2	2.2	33 9	+18.1	16.7	24	1	4	4	3	1	0	0
Tanta	—	2.2	3.4	0.8	—	4.8	+ 0.4	1.8	25	0	8	1	0	0	0	0
Cairo (A)	0.8	2.6	4.2	2.9	2.7	12.7	+11 9	12.2	27	0	5	1	1	1	0	0
Fayoum	—	0.8	1.7	0.6	—	Tr.	— 0.9	Tr.	3	1	0	0	0	0	0	0
Minya (A)	0.1	0.4	1.8	0.4	0.7	0.0	— 0 6	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.1	0.2	1.1	0.4	0.4	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.7	0.8	1.2	1.0	0.9	1.0	+ 0.9	1.0	1	0	1	1	0	0	0	0
Aswan (A)	0.9	1.3	1.3	0.7	1.1	0.0	—Tr.	0,0	—	0	0	0	0	0	0	0
Siwa	0.7	2.0	3.2	1.5	1.4	0.1	— 0.2	0.1	24	2	1	0	0	0	0	0
Bahariya	0.3	0.9	2.4	1.0	1.2	2.0	+ 1.7	2.0	3	3	1	1	0	0	0	0
Farafra	—	0.3	1.4	0.7	—	0.0	— 1.0	0.0	—	0	0	0	.	0	0	0
Dakhla	0.3	2.2	0.5	0.2	0.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.4	0.6	1.0	0.4	0.6	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Tor	0.7	1.4	1.8	1.4	1.4	Tr.	— 0.7	Tr.	1	1	0	0	0	0	0	0
Hurghada	0 8	1.1	1.6	1.0	1.1	Tr.	— 0.1	Tr.	1	1	0	0	0	0	0	0
Quseir	1.4	1.3	1.5	0.9	1.4	0.0	— 0.5	0	—	0	0	0	0	0	0	0

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

OCTOBER — 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice, Pellets	Hail											
Sallum	10	0	0	0	0	0	0	0	0	0	2	0	0	4	3
Mersa Matruh (A)	10	0	0	0	0	2	0	0	0	0	3	0	0	5	0
Alexandria (A)	13	0	0	0	0	5	1	1	0	0	0	0	0	5	0
Port Said (A)	10	0	0	0	0	3	1	0	0	0	1	0	0	7	1
El Arish	5	0	0	0	0	4	2	2	0	0	1	2	0	3	2
Ghazza	4	0	0	0	0	2	1	0	0	0	0	0	0	10	0
Tanta	8	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Cairo (A)	5	0	0	0	0	1	10	0	4	0	3	1	0	1	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	1	0	2	0	0	30	0
Assyout (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Luxor (A)	1	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Aswan (A)	0	0	0	0	0	0	0	0	1	0	2	0	0	—	0
Siwa	1	0	0	0	0	1	0	0	0	0	0	0	0	16	0
Bahariya	1	0	0	0	0	1	0	0	0	0	0	0	0	27	0
Farafra	0	0	0	0	0	0	0	0	0	0	2	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	1	0	0	0	0	30	0
Kharga	0	0	0	0	0	1	0	0	0	0	0	0	0	29	0
Tor	0	0	0	0	0	0	0	0	0	0	1	1	0	25	0
Hurghada	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Quseir	0	0	0	0	0	0	2	0	0	0	0	0	0	23	1

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

OCTOBER — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sallum	10	10	4	1–10	20	146	108	21	17	12	6	19	1	28	60	105	643
				11–27	7	24	20	5	2	0	0	18	1	12	63	25	177
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**27**	**170**	**128**	**26**	**19**	**12**	**6**	**37**	**2**	**40**	**123**	**130**	**720**
Mersa Matruh (A)	9	4	0	1–10	60	74	48	16	16	14	16	30	47	57	42	28	448
				11–27	58	108	46	8	3	1	6	12	6	16	10	9	283
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**118**	**182**	**94**	**24**	**19**	**15**	**22**	**42**	**53**	**73**	**52**	**37**	**731**
Alexandria (A)	58	0	4	1–10	114	96	28	11	17	12	23	33	0	4	22	121	481
				11–27	42	39	14	2	0	1	0	5	0	1	25	72	201
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**156**	**135**	**42**	**13**	**17**	**13**	**23**	**38**	**0**	**5**	**47**	**193**	**682**
Port Said	0	2	0	1–10	89	130	66	11	6	11	12	19	26	48	22	81	521
				11–27	31	37	8	0	5	1	3	10	20	52	16	38	221
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**120**	**167**	**74**	**11**	**11**	**12**	**15**	**29**	**46**	**100**	**38**	**119**	**742**
El Arish	3	5	0	1–10	105	132	30	26	28	143	35	84	6	19	20	65	693
				11–27	0	1	2	0	0	0	0	17	5	3	12	3	43
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**105**	**133**	**32**	**26**	**28**	**143**	**35**	**101**	**11**	**22**	**32**	**68**	**736**
Ghazza	0	42	0	1–10	108	15	41	67	88	124	21	17	0	21	34	56	592
				11–27	5	14	1	2	0	5	3	12	2	21	30	15	110
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**113**	**29**	**42**	**69**	**88**	**129**	**24**	**29**	**2**	**42**	**64**	**71**	**702**
Tanta	32	8	0	1–10	147	101	55	20	13	8	11	32	23	41	86	159	696
				11–27	0	0	0	0	0	0	0	3	0	2	2	1	8
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**147**	**101**	**55**	**20**	**13**	**8**	**11**	**35**	**23**	**43**	**88**	**160**	**704**
Cairo	29	2	7	1–10	82	125	107	55	21	24	9	20	5	24	22	76	570
				11–27	19	22	35	14	7	3	5	7	2	4	12	6	136
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**101**	**147**	**142**	**69**	**28**	**27**	**14**	**27**	**7**	**28**	**34**	**82**	**706**
Fayoum (A)	4	15	60	1–10	301	39	18	8	4	10	18	17	2	24	55	167	663
				11–27	0	1	0	0	0	0	0	1	0	0	0	0	2
				28–47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**301**	**40**	**18**	**8**	**4**	**10**	**18**	**18**	**2**	**24**	**55**	**167**	**665**

Table A 5 (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

OCTOBER — 1965

Station	calm (hours)	variable (hours)	unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of direction indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya	46	146	3	1-10	154	23	0	4	15	15	15	6	1	4	14	189	440
				11-27	47	16	4	2	0	0	0	0	0	3	4	33	109
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**201**	**39**	**4**	**6**	**15**	**15**	**15**	**6**	**1**	**7**	**18**	**222**	**549**
Assyut (A)	16	2	3	1-10	4	0	6	12	20	15	6	44	117	204	133	86	647
				11-27	0	0	0	0	0	0	1	1	1	5	20	48	76
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**4**	**0**	**6**	**12**	**20**	**15**	**7**	**45**	**118**	**209**	**153**	**134**	**723**
Luxor (A)	24	3	1	1-10	127	84	25	28	29	49	90	87	2	33	53	96	703
				11-27	0	1	0	0	0	0	0	2	0	7	0	3	13
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**127**	**85**	**25**	**28**	**29**	**49**	**90**	**89**	**2**	**40**	**53**	**99**	**716**
Aswan (A)	2	6	2	1-10	222	251	9	2	1	0	2	8	5	3	19	84	606
				11-27	72	29	2	0	0	0	4	2	0	1	10	8	128
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**294**	**280**	**11**	**2**	**1**	**0**	**6**	**10**	**5**	**4**	**29**	**92**	**734**
Siwa	113	14	0	1-10	72	67	92	63	26	17	12	38	4	37	54	82	564
				11-27	0	5	10	5	0	0	0	5	1	8	12	7	53
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**72**	**72**	**102**	**68**	**26**	**17**	**12**	**43**	**5**	**45**	**66**	**89**	**617**
Dakhla	7	26	0	1-10	111	43	17	14	9	15	22	63	9	71	116	198	688
				11-27	12	3	0	0	0	0	0	0	0	0	1	7	23
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**123**	**46**	**17**	**14**	**9**	**15**	**22**	**63**	**9**	**71**	**117**	**205**	**711**
Tor	0	3	5	1-10	28	10	89	40	18	13	10	18	2	37	57	56	468
				11-27	37	6	0	1	1	0	1	1	0	1	138	80	266
				28-47	1	0	0	0	0	0	0	0	0	0	1	0	2
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**66**	**106**	**89**	**41**	**19**	**13**	**11**	**19**	**2**	**38**	**196**	**136**	**736**
Hurghada	28	1	11	1-10	10	23	14	15	20	14	10	9	2	18	70	16	221
				11-27	88	27	3	1	2	3	1	0	0	38	175	145	483
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**98**	**50**	**17**	**16**	**22**	**17**	**11**	**9**	**2**	**56**	**245**	**161**	**704**
Quseir	16	9	21	1-10	52	52	21	15	18	15	18	5	16	96	119	57	484
				11-27	82	37	0	0	4	0	0	0	0	0	20	71	214
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**134**	**89**	**21**	**15**	**22**	**15**	**18**	**5**	**16**	**96**	**139**	**128**	**698**

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. — MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

OCTOBER — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 UT	Surface . . .	31	1010* m.b.	1022* m.b.	1010* m.b.	31	18.9	23.2	14.8	31	14.2
	1000 . . .	31	156	213	115	31	19.4	24.0	15.9	31	14.2
	850 . . .	31	1538	1568	1503	31	10.4	18.5	5.1	31	2.7
	700 . . .	31	3132	3158	3094	31	1.3	6.3	— 3.9	20	— 7.0
	600 . . .	31	4356	4435	4302	31	— 6.2	— 1.3	—13.7	13	—15.8
	500 . . .	31	5757	5859	5666	31	—15.9	—11.7	—22.4	11	—22.1
	400 . . .	31	7400	7525	7269	31	—28.3	—23.9	—34.8	9	—33.6
	300 . . .	31	9401	9547	9218	31	—42.9	—40.0	—47.0	—	—
	200 . . .	28	12035	12198	11876	28	—57.2	—53.2	—62.7	—	—
	150 . . .	28	13837	14008	13686	28	—60.7	—56.6	—64.2	—	—
	100 . . .	16	16328	16499	16191	16	—63.3	—61.0	—66.2	—	—
	70 . . .	10	18516	18670	18400	10	—59.2	—52.9	—64.3	—	—
	60 . . .	5	19492	19585	19380	5	—58.9	—57.3	—60.7	—	—
	50 . . .	4	20627	20748	20520	4	—56.7	—54.0	—58.1	—	—
	40 . . .	2	22033	22126	21940	2	—56.2	—55.9	—56.4	—	—
	30 . . .	2	23872	23970	23774	2	—53.8	—52.9	—54.7	—	—
	20 . . .	—	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface . . .	31	998* m.b.	1003* m.b.	993* m.b.	31	19.4	27.2	14.0	31	12.9
	1000 . . .	31	122	165	84	9	16.1	19.1	13.9	9	11.0
	850 . . .	31	1507	1536	1485	31	13.0	23.1	6.4	31	1.3
	700 . . .	31	3108	3184	3067	30	2.6	8.1	— 3.7	21	— 9.1
	600 . . .	31	4336	4430	4272	31	— 5.0	— 1.5	—11.1	15	—14.7
	500 . . .	31	5744	5847	5650	31	—14.5	—10.0	—20.6	7	—19.6
	400 . . .	31	7398	7515	7269	31	—26.9	—23.4	—32.7	8	—31.6
	300 . . .	31	9411	9552	9248	31	—42.0	—37.7	—47.0	—	—
	200 . . .	31	12057	12223	11887	31	—56.8	—53.0	—61.9	—	—
	150 . . .	31	13860	14027	13666	31	—61.6	—56.6	—66.0	—	—
	100 . . .	27	16360	16510	16176	27	—63.5	—52.5	—68.1	—	—
	70 . . .	24	18573	18710	18400	24	—61.6	—56.7	—65.0	—	—
	60 . . .	24	19524	19640	19360	24	—59.9	—56.3	—63.1	—	—
	50 . . .	23	20677	20790	20549	23	—58.3	—56.1	—61.4	—	—
	40 . . .	21	22081	22210	21942	21	—55.4	—52.9	—57.5	—	—
	30 . . .	16	23930	24052	23770	16	—53.4	—50.1	—56.0	—	—
	20 . . .	10	26571	26698	26481	10	—50.5	—48.8	—52.4	—	—
	10 . . .	2	31126	31175	31078	2	—46.4	—44.9	—47.8	—	—
Aswan 0000 UT	Surface . . .	23	990* m.b.	993* m.b.	985* m.b.	23	21.1	26.5	15.0	23	5.0
	1000 . . .	23	103	133	63	—	—	—	—	—	—
	850 . . .	23	1508	1543	1454	23	17.8	24.0	9.0	22	1.1
	700 . . .	23	3136	3180	3087	23	7.0	10.1	3.2	14	— 5.5
	600 . . .	23	4384	4424	4324	23	— 1.9	2.0	— 7.0	9	—14.5
	500 . . .	23	5815	5867	5742	23	— 9.8	— 7.0	—12.8	4	—23.7
	400 . . .	23	7500	7562	7412	23	—22.1	—19.4	—26.5	4	—32.1
	300 . . .	22	9554	9639	9476	22	—37.4	—22.9	—41.0	2	—39.7
	250 . . .	—	—	—	—	—	—	—	—	—	—
	200 . . .	21	12251	12355	12156	21	—54.7	—50.8	—59.2	—	—
	150 . . .	19	14051	14159	13955	19	—64.9	—60.0	—68.4	—	—
	100 . . .	18	16479	16583	16382	18	—70.6	—67.6	—79.0	—	—
	70 . . .	14	18632	18770	18530	14	—64.6	—61.2	—66.7	—	—
	60 . . .	11	19589	19717	19489	11	—62.9	—61.3	—64.7	—	—
	50 . . .	11	20720	20856	20620	11	—59.1	—50.7	—62.7	—	—
	40 . . .	9	22141	22273	22013	9	—58.4	—54.1	—60.0	—	—
	30 . . .	9	23969	24130	23843	9	—54.5	—51.2	—57.0	—	—
	20 . . .	4	26592	26765	2 446	4	—51.7	—47.9	—54.7	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

N = Number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

UPPER AIR CLIMATOLOGICAL DATA

Table B1 (*contd.*)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

OCTOBER — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 UT	Surface	31	1016m.b.*	1022m.b.*	1011m.b.*	31	24.2	32.0	17.5	31	15.6
	1000	31	165	214	125	31	22.7	30.7	16.0	31	14.4
	850	31	1551	1576	1526	31	11.2	17.8	5.0	31	2.8
	700	31	3145	3197	3080	31	1.9	6.0	— 5.0	23	— 6.1
	600	31	4372	4437	4304	31	— 5.4	— 2.3	—10.6	13	—15.3
	500	31	5780	5857	5698	31	—14.7	—10.5	—19.5	10	—21.8
	400	31	7434	7531	7315	31	—26.6	—20.9	—31.2	8	—33.5
	300	29	9443	9561	9299	29	—42.3	—38.8	—46.0	—	—
	200	28	12089	12244	11934	28	—56.3	—48.9	—64.0	—	—
	150	26	13903	14112	13743	26	—59.6	—54.5	—63.8	—	—
	100	23	16432	16658	16260	23	—60.3	—58.4	—66.3	—	—
	70	19	18672	18900	18400	19	—57.9	—54.9	—61.1	—	—
	60	16	19660	19882	19477	16	—55.8	—50.4	—59.9	—	—
	50	15	20837	21070	20627	15	—54.6	—51.3	—57.2	—	—
	40	11	22294	22531	22041	11	—51.4	—47.1	—54.3	—	—
	30	7	24160	24451	23920	7	—49.2	—43.7	—51.6	—	—
	20	1	26806	—	—	1	—48.5	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	31	997m.b.*	1002m.b.*	992m.b.*	31	27.5	36.2	21.8	31	9.7
	1000	31	117	158	76	5	23.3	25.4	21.8	5	8.7
	850	31	1517	1545	1490	31	13.9	23.4	7.6	31	4.2
	700	31	3124	3180	3079	31	3.8	8.3	— 2.6	22	— 7.9
	600	31	4358	4434	4296	31	— 4.1	— 0.4	— 9.3	16	—14.0
	500	31	5771	5851	5680	31	—13.3	— 9.0	—18.8	17	—23.7
	400	31	7431	7563	7300	31	—25.7	—20.8	—33.0	14	—34.3
	300	30	9454	9620	9284	30	—41.0	—37.4	—44.9	1	—44.2
	250	30	12115	12298	11954	30	—55.5	—51.2	—60.1	—	—
	200	30	13928	14103	13880	30	—60.2	—56.1	—65.9	—	—
	150	26	16429	16596	16315	26	—62.5	—59.2	—68.7	—	—
	100	22	18636	18840	18340	22	—59.1	—55.4	—64.9	—	—
	70	21	19622	19764	19453	21	—57.7	—54.6	—62.3	—	—
	60	2	20780	20952	20587	21	—55.0	—48.5	—59.2	—	—
	50	13	22242	22389	22121	13	—52.6	—49.1	—55.4	—	—
	40	8	24083	24133	23969	8	—49.9	—48.3	—51.1	—	—
	30	6	26766	26899	26656	6	—46.8	—45.9	—47.8	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10										
Aswan 1300 UT	Surface	26	989m.b.*	993m.b.*	984m.b.*	26	32.9	39.0	24.8	26	6.0
	1000	26	93	131	46	—	—	—	—	—	—
	850	26	1523	1540	1499	26	20.0	25.9	11.0	24	0.9
	700	26	3160	3203	3096	26	8.1	11.0	3.2	16	— 6.2
	600	26	4413	4464	4332	26	0.2	3.2	— 3.0	11	—15.2
	500	26	5847	5907	5750	26	— 8.7	— 4.9	—12.5	4	—24.9
	400	26	7540	7613	7422	26	—21.2	—18.2	—24.8	1	—32.3
	300	26	9563	9690	9480	26	—36.0	—32.3	—39.6	2	—41.7
	250	24	12311	12447	12188	24	—51.0	—47.6	—57.3	—	—
	200	23	14122	14294	14006	23	—62.8	—57.8	—66.6	—	—
	150	18	16588	16785	16499	18	—68.0	—62.6	—72.8	—	—
	100	15	18757	18980	18608	15	—63.1	—58.8	—73.4	—	—
	70	8	19719	19801	19599	8	—57.6	—55.0	—61.0	—	—
	60	8	20881	20979	20743	8	—54.0	—52.1	—57.3	—	—
	50	1	22361	—	—	1	—49.7	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10										

N — Number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

OCTOBER — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
		(N)	(N)	(N)							(N)	(N)	(N)										
0000 UT	Mersa Matruh(A)	3276 (31)	688 (31)	—8.6 (21)	4280	611	—	2240	782	— 3.8	12550 (23)	187 (23)	—60.2 (23)	15940	108	—65.0	10400	255	—55.6	9115	307	278	94
	Helwan	3447 (31)	672 (31)	—8.3 (20)	4070	622	—19.1	2370	766	—11.4	13765 (28)	156 (28)	—63.4 (28)	16100	107	—67.6	10520	248	—54.9	18770	68	260	136
	Aswan . . A)	4193 (23)	615 (23)	—11.2 (9)	4680	581	—	3620	659	— 9.2	15186 (18)	126 (18)	—70.3 (18)	16940	92	—73.0	13280	169	—64.2	10800	250	250	108
		(N)	(N)	(N)							(N)	(N)	(N)										
1200 UT	Mersa Matruh(A)	3457 (31)	674 (31)	—7.2 (20)	4100	626	—	2270	779	— 0.6	12428 (26)	193 (26)	—59.0 (26)	14730	133	—62.0	10060	266	—52.0	9775	282	292	98
	Helwan	3684 (31)	653 (31)	—10.3 (19)	4380	604	—15.0	2660	737	— 3.9	13695 (28)	161 (28)	—62.5 (28)	16270	104	—67.1	11030	236	—55.0	17870	81	240	140
	Aswan . . .(A)	4428 (26)	604 (26)	—13.0 (11)	5120	550	—	3670	655	— 8.2	15418 (28)	123 (18)	—67.6 (18)	17380	89	—72.9	13680	160	—62.3	10620	257	250	133

N = The number of cases the element has been observed during the month.

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A)— OCTOBER 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	2	16	5	8	3	11	2	6	0	—	0	—	3	10	0	—	6	8	6	8	2	4	1	13	1	31	8
	1000	7	11	1	12	4	10	1	5	0	—	2	11	0	—	0	—	0	—	3	13	3	10	7	11	1	29	10
	850	5	12	2	14	3	13	1	17	0	—	0	—	0	—	1	20	2	20	1	8	6	14	4	16	0	25	14
	700	1	11	2	12	0	—	0	—	0	—	0	—	0	—	0	—	1	16	5	23	5	15	3	16	0	17	17
	600	0	—	2	10	0	—	0	—	0	—	0	—	0	—	0	—	2	26	6	30	4	22	2	14	0	16	23
	500	1	15	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	40	3	23	3	20	0	16	30
	400	1	11	1	25	0	—	0	—	0	—	0	—	0	—	0	—	2	36	5	53	4	32	2	28	0	15	37
	300	1	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	45	2	50	2	40	0	12	43
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	2	66	1	34	2	48	0	6	46
	150	1	37	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	35	1	33	0	—	0	3	35
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	38	0	—	0	—	0	1	38
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	9	12	8	13	4	13	1	21	1	14	0	—	0	—	1	3	1	19	1	18	2	6	3	11	0	31	12
	1000	8	14	6	13	2	10	1	15	0	—	0	—	0	—	1	15	1	19	2	7	1	7	9	14	0	31	13
	850	1	7	0	—	2	12	2	10	0	—	0	—	0	—	4	16	2	18	6	10	6	10	6	16	0	29	13
	700	2	12	0	—	0	—	0	—	0	—	0	—	1	2	1	20	4	18	7	17	8	16	4	17	1	28	16
	600	0	—	1	15	0	—	0	—	0	—	0	—	0	—	1	14	4	20	9	20	11	17	3	13	0	29	18
	500	0	—	1	22	0	—	0	—	0	—	0	—	1	9	0	—	1	6	12	28	10	20	3	22	0	28	23
	400	1	21	0	—	0	—	0	—	0	—	0	—	0	—	1	19	2	28	12	38	8	28	3	14	0	27	30
	300	0	—	1	27	0	—	0	—	0	—	0	—	0	—	0	—	3	36	14	39	4	52	2	21	0	24	39
	200	1	7	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	62	11	36	6	45	0	—	0	19	39
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	38	2	20	1	10	0	8	30
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	13	3	17	1	13	0	—	0	5	15
	70	0	—	0	—	0	—	0	—	—	—	0	—	0	—	0	—	2	16	1	25	0	—	0	—	0	3	19
	60	0	—	0	—	1	9	0	—	—	—	0	—	0	—	0	—	0	—	1	13	0	—	0	—	0	2	11
	50	0	—	0	—	0	—	0	—	—	—	0	—	0	—	0	—	1	12	0	—	0	—	0	—	0	1	12
	40	0	—	0	—	0	—	0	—	—	—	0	—	0	—	0	—	1	8	—	—	—	—	0	—	0	1	8
	30	—	—	—	—	—	—	—	—	—	—	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table. B 3 *(contd.)*—**NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIE RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES**

HELWAN—OCTOBER 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
U. T. 0000	Surface	5	7	7	9	4	9	1	8	0	—	0	—	0	—	0	—	0	—	2	2	1	2	3	5	8	31	5
	1000	3	9	2	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	2	3	6	0	9	10
	850	3	9	4	9	1	19	0	—	3	15	1	10	1	2	0	—	1	21	5	14	4	10	8	11	0	31	12
	700	3	7	2	6	1	4	0	—	0	—	0	—	1	5	0	—	3	17	10	26	7	15	4	11	0	31	16
	600	3	14	0	—	0	—	0	—	0	—	0	—	1	2	1	23	5	23	14	22	5	15	2	20	0	31	20
	500	1	19	0	—	0	—	0	—	0	—	2	—	0	—	1	17	5	30	18	32	3	15	3	10	0	31	27
	400	-	26	0	—	0	—	0	—	0	—	0	—	0	—	2	18	7	35	16	35	4	30	0	—	0	30	33
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	34	8	46	11	45	5	52	2	24	0	30	43
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	35	11	48	13	54	1	44	0	—	0	26	50
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	57	16	59	0	—	0	—	0	23	58
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	33	1	80	10	39	0	—	0	—	0	13	41
	70	0	—	0	—	1	18	0	—	0	—	1	16	2	11	1	18	1	25	6	50	0	—	0	—	0	12	33
	60	0	—	1	22	1	19	0	—	0	—	1	15	1	16	1	21	1	30	4	27	0	—	0	—	0	10	23
	50	1	8	0	—	0	—	0	—	0	—	0	—	0	—	2	14	2	30	2	14	1	32	0	—	0	8	19
	40	0	—	0	—	0	—	1	6	0	—	1	20	1	12	0	—	0	—	1	37	0	—	2	14	0	6	17
	30	0	—	0	—	0	—	2	8	1	20	0	—	0	—	0	—	0	—	1	29	0	—	0	—	0	4	16
	20	0	—	0	—	0	—	0	—	0	—	0	—	1	17	0	—	0	—	1	12	0	—	0	—	0	2	14
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U. T. 1200	Surface	5	14	2	15	1	10	0	—	0	—	0	—	1	6	0	—	2	12	3	6	7	8	9	7	1	31	9
	1000	3	17	1	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	7	0	5	17
	850	7	9	7	10	2	10	0	—	0	—	2	8	1	10	1	19	2	12	3	17	4	10	2	10	0	31	11
	700	5	7	1	7	0	—	1	3	0	—	0	—	1	4	3	18	5	21	7	20	6	20	2	12	0	31	16
	600	1	12	0	—	0	—	0	—	0	—	0	—	0	—	3	15	7	26	13	22	3	21	4	9	0	31	20
	500	1	5	0	—	0	—	0	—	0	—	0	—	0	—	2	17	7	27	14	32	3	22	4	13	0	31	29
	400	2	20	1	14	0	—	0	—	0	—	0	—	0	—	1	12	11	38	12	42	4	31	0	—	0	31	36
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	14	8	55	14	43	1	14	4	37	0	28	44
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	55	18	52	2	35	1	97	0	26	53
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	56	15	46	1	53	0	—	0	22	49
	100	0	—	0	—	0	—	1	16	0	—	0	—	1	24	0	—	1	81	12	33	0	—	0	—	0	15	35
	70	0	—	0	—	0	—	0	—	0	—	1	13	0	—	1	29	3	57	6	35	0	—	0	—	0	11	30
	60	0	—	1	14	0	—	3	13	1	31	1	9	0	—	0	—	2	40	2	14	0	—	0	—	0	10	20
	50	1	27	1	8	0	—	0	—	0	—	0	—	1	14	1	19	0	—	3	28	0	—	0	—	0	7	22
	40	0	—	0	—	0	—	3	12	0	—	0	—	0	—	0	—	1	13	0	—	0	—	0	—	0	4	12
	30	0	—	0	—	0	—	1	21	0	—	0	—	0	—	1	15	0	—	1	12	0	—	0	—	0	3	16
	20	0	—	0	—	1	12	1	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	9
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

Table B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) OCTOBER — 1965

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	15	8	1	10	1	6	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	9	3	23	7
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	4	8	1	17	2	10	1	13	0	—	0	—	0	—	0	—	0	—	6	11	2	8	5	12	0	21	11
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	27	6	12	4	19	8	22	0	—	1	14	0	20	18
	600	0	—	0	—	0	—	0	—	0	—	1	27	0	—	2	20	7	23	10	28	0	—	0	—	0	20	25
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	13	8	32	10	33	0	—	1	26	0	20	31
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	30	6	38	9	45	1	40	0	—	0	19	40
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	55	7	55	8	54	0	—	0	—	0	18	56
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	13	63	4	78	0	—	0	—	0	17	43
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	48	5	57	5	60	0	—	0	—	0	11	58
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	29	2	25	1	42	0	—	0	6	30
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	16	0	—	0	—	0	1	16
	60	—	—	0	—	0	—	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	15	8	0	—	0	—	1	10	0	—	1	3	0	—	0	—	0	—	3	7	1	9	4	9	1	26	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	1	6	2	8	0	—	2	10	1	5	0	—	2	4	1	15	3	7	6	10	3	10	5	9	0	26	8
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	1	6	17	7	16	11	17	1	11	0	—	0	26	16
	600	1	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	14	21	10	22	0	—	0	—	0	26	22
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	32	13	34	11	33	0	—	0	—	0	25	32
	400	4	—	0	—	0	—	0	—	0	—	0	—	0	—	3	28	13	40	7	47	1	22	0	—	0	24	40
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	80	10	57	11	60	0	—	0	—	0	22	60
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	54	8	73	6	75	0	—	0	—	0	16	71
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	50	4	70	0	—	0	—	0	12	56
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	3	25	3	30	0	—	0	—	0	7	26
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	7	0	—	0	—	0	2	7
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N. = The number of cases the wind has been observed from the range of direction during the month.

T.N. = The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR — OCTOBER 1965

The month was cool and remarkably rainy as compared with the normal values of air temperature and total amount of rainfall for Mersa-Matrouh during October. The mean daily air temperature at 2 metres above ground was 1.0°C below normal. The mean daily relative humidity was 15% below normal. Total amount of rainfall was 75.8 mm higher than normal.

The month was characterized by a hot wave on the 11th giving rise to the extreme maximum air temperature of the month. It was also characterized by 2 cold waves prevailing during the period from the 13th to 16th and from the 24th to the end of the month. These two cold waves were associated with heavy rain showers-and the second one with thunderstorms-giving rise to the remarkably high total rainfall of 87.6 mm.

The extreme maximum soil temperatures for the depths from 0.3 to 5 cms were lower than the corresponding values of last October by amounts ranging from 1.6°C at 2 cm depth to 0.2°C at 5 cm depth while the extreme maximum values of deeper layers were higher by amounts ranging from 2.6°C at 10cm to 0.7°C at 100 cm. The extreme minimum soil temperatures between 0.3 and 5cm depths were higher than the corresponding values of October 1964 by amounts ranging between 0.4°C at 5 cm depth and 2.0°C at 1 cm depth. At deeper layers the extreme minima were lower than the corresponding values of last October by values ranging between 4.5°C at 20 cm depth and 1.3°C at 100 cm depth.

The mean daily wind speed at 2 metres above ground was higher by 0.2 m/sec than the corresponding value of last October. The actual duration of bright sunshine was 56.0 hours lower than the corresponding value for October 1964. The mean daily Piche evaporation and Class A Pan evaporation were higher by 2.0 mms and 0.64 mm respectively than the corresponding values of last October.

TAHRIR — OCTOBER 1965

The month was slightly cool and dry as compared with October 1964. Mean daily air temperature at 2m height above ground was less by 0.6°C than the corresponding values of last October while mean daily relative humidity was 5% less and total rainfall was 4.6 mm higher.

During the first 12 days of the month warm weather prevailed with two marked peaks (35.4°C) on the 1st and the 12th.

The extreme maximum soil temperatures at different depths in the dry field were higher than the corresponding values of October 1964 by amounts ranging from 1.4°C at 100 cm depth and 3.7°C at 20 cm depth. The extreme minimum soil temperatures at different depths were lower than the corresponding values of last October by amounts ranging from 1.4°C at 100 cms depth and 3.4°C at 2 cm. depth.

Mean daily wind speed at 2m height was 0.1 m./sec higher than the corresponding value of October 1964. Mean daily value of Piche evaporation was 0.3 mm lower than the corresponding value of last October, while mean daily Class A Pan evaporation was very nearly equal to the corresponding value of October 1964 (+0.3mm). Total actual duration of bright sunshine was 34.8 hours less than the corresponding value of last October.

GIZA — OCTOBER 1965

The month was slightly cooler and drier than normal. The mean daily value of air temperature at 2m height above ground and the mean daily relative humidity were 0.7°C and 2% respectively below normal. Total rainfall was below the normal by 2.8 millimetres.

The month started with a heat wave which began in the last week of September. This wave gave the absolute maximum temperature on the first of October. Another wave occurred in the second week with its peak on the 12th. The second half of the month was markedly cooler than the first.

The absolute minimum air temperature at 5cm height in the different fields were all lower than those of last October by 1.9, 0.9 & 0.4°C for the dry, wet and grass fields respectively.

The extreme maximum soil temperatures in the dry field were higher than the corresponding values of October 1964 for the layer from the surface down to 100 cms depth the maximum deviation was 5.9°C at 1cm depth. The extreme minimum soil temperatures were lower than the corresponding values of last October ; the maximum deviation was 3.2°C at 5cm depth.

The mean daily wind speed at 2 metres height was 0.8 m/sec lower than the corresponding value of October 1964.

The mean daily values of Piche evaporation, Pan (Class A) evaporation, potential evaporation from soil and potential evapotranspiration from grass were lower than the corresponding values of last October by 2.1, 0.88;0.61 and 0.3 mm respectively

The total actual duration of bright sunshine was 31.0 hours lower than the corresponding value of October 1964.

KHARGA — OCTOBER 1965

The month was mild as compared with normal value of air temperature for Kharga in October.

The month strated with a prolonged moderate heat wave which continued during the period 1st-8th and reached 1ts peak on 2 nd when the absolute maximum air temperature for the month (39.8°C) was recorded. Another heat wave occurred in the period 12th - 16th with peak on 14th. A cold spell occurred during the period 18 th - 21st Another cold wave startd on 26 th and continued till the end of the month and gave on 28th the absolute minimum air temperature, the lowest maximum air temperature and the absolute minimum evaporation from Pan Class A for the month.

The extreme maximum soil temperatures at all depths in the dry field were higher than the corresponding values of October 1964. The deviations varied between 4.6°C at 2 cm depth and 1.6°C at 5 cm depth. The extreme minimum soil temperatures at 1 and 10 cm depths were higher by 0.2, 0.9°C respectively while at other depths the values, were lower than the corresponding values of last October with deviations ranging between 2.2°C at 5cm depth and 0.3°C at 50 cm depth.

The mean daily wind speed at2 metres above ground was the same as that of last October. The daily mean values of Piche evaporation, Class A pan evaporation were lower than the corresponding values of October 1964 by 3.0, 0.32 mm respectively The total actual duration of bright sunshine was 1.4 hours lower than that of last October

Table C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

OCTOBER — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	25 3	16.8	21.1	19.7	22.7	24.0	24.0	24.0	24.0	23.2	14.9	3.0	0.2	0.0	0.0	0.0
ahrir	29.1	16.1	21.6	19.3	24.3	24.0	24.0	24.0	24.0	21.4	12.9	4.9	0.6	0.0	0.0	0.0
iza	29 3	15.8	22.0	20.0	24.4	24.0	24.0	24.0	24.0	21.8	15.4	6.8	1.2	0.1	0.0	0.0
harga	32.6	18.2	25.6	23.3	28.5	24.0	24.0	24.0	24.0	23.5	19.7	12.6	5.4	1.5	0.0	0.0

Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, BSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS

OCTOBER — 1965

STATION	Max. Temp. at 2 metres				Min. Temp. at 2 metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry Soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	34.0	11	20.5	30	22.5	4	13.6	30	11.2	19	—	—
Tahrir	35.4	1,12	22.9	24	20.0	1	11.0	31	9.3	31	—	—
Giza	37.5	1	24.2	28	22.2	3	10.0	26	6.1	26	5.4	26
Kharga	39.8	2	25.6	28	23.0	15	11.5	28	9.5	28	—	—

able C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY & VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVPORATION & RAINFALL

OCTOBER — 1965

TION	Solar+Sky Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour Pressure (mms)						Evaporation(mms)		Rainfall (mms)		
		Total Actual	Total Possible monthly	%	Duration in hours > 90 %	Duration in hours > 80 %	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class (A)	Total Amount monthly	Max. fall in one day	Date
Kasr.	320.0	253.3	354.1	71	—	—	70	56	23	11	12.9	12.8	19.0	1	8.7	11	11.8	7.94	87.6	34.0	26
rir .	407.5	255.1	354.8	72	2.5	8.1	67	41	21	12	12.6	11.2	20.3	1	7.2	11	10.0	6.45	4.6	3.6	3
a . .	393.0	268.1	354.8	76	1.1	6.0	63	39	24	12	12.1	11.0	19.8	3	8.0	29	10.1	6.36	1.3	0.9	28
rga .	436.7	336.8	351.4	96	0	0	35	23	11	12	8.2	8.0	12.3	9	5.0	12	25.5	13.44	0.0	0.0	—

Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

OCTOBER — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr . . .	H	42.7	38.8	37.9	35.0	32.0	27.6	26.7	26.2	24.9	—	—	—	—	—	—	—	—	—	—	—
	L	10.8	12.0	12.2	14.0	14.5	16.2	19.7	22.4	24.1	—	—	—	—	—	—	—	—	—	—	—
Tahrir . . .	H	47.4	45.7	42.6	40.8	37.3	33.2	30.3	29.8	28.9	28.3	—	—	—	—	—	—	—	—	—	—
	L	10.4	10.4	11.2	14.5	16.6	20.2	22.9	25.2	27.4	27.4	—	—	—	—	—		—	—	—	—
Giza	H	54.5	54.0	53.0	39.2	35.1	32.2	31.8	31.0	29.3	27.6	40.3	32.7	30.0	28 7	27.5	26.7	26.4	25.7	24.8	—
	L	9.2	10.6	11.6	16.0	20.6	24.1	26.4	28.5	28.7	27.4	10.0	14.0	14.0	16 0	19.1	20.2	22.3	23.7	24.5	—
Kharga . . .	H	55.0	49.9	47.2	41.4	37.6	34.8	33.5	32.8	31.2	30 1	—	—	—	—	—	—	—	—	—	—
	L	11.0	14.0	15.0	17.6	21.9	25.1	28.1	30.3	30.8	29.8	—	—	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

OCTOBER — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	Value knots	Date
El Kasr . . .	3.5	3.0	4.3	—	—	—	—	—	—	—	—	—
Tahrir	2.7	2.0	3.6	29	6	2	1	1	0	0	37	3
Giza	1.9	1.6	2.4	27	6	1	0	0	0	0	29	23
Kharga . . .	3.6	2.9	4.6	—	—	—	—	—	—	—	—	—

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MONTHLY WEATHER REPORT

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METEOROLOGICAL DEPARTMENT

CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE ARAB REPUBLIC OF EGYPT — CAIRO

In fulfilment of its duties, the Meteorological Department of Egypt issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.

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METEOROLOGICAL DEPARTMENT
CAIRO

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Note : For explanatory notes on the tables please refer to Volume 3, Number 1 (January 1965).

GENERAL SUMMARY OF WEATHER CONDITIONS

NOVEMBER 1965

Rather cold and dry in general. Destructive floods in Minya and Asyout. Early morning mist and fog over scattered localities in the northern and middle parts

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was rather cold and generally dry. Rain was light in general, confiend to the northern parts of the Republic and fell in few days particularly the 16th & 17th during which it extended southwards inland as for as Cairo area. Heavy rain caused destructive floods on the 7th over scattered localities in Minya and Asyout Provinces.

Early morning mist & fog developed rather frequently over Delta, Canal & Cairo areas and extended southwards in many days as far as Asyout. Widespread rising sand and sandstorms occurred over scattered localities of the Republic round the 25th & 26th.

PRESSURE DISTRIBUTION

During this month, the prevailing pressure distributions over the surface map can be summarized in the following pressure systems :

— The Siberian Anticyclonic ridge over Black and Caspian seas vicinities.

— The Atlantic Anticyclonic ridge over Europe, West Mediterranean and NW Africa.

— The travelling deep Atlantic depressions through Europe & Russia along their preferred tracks.

— Troughs of low pressure over Sudan and the African great Sahara.

Travelling Atlantic depressions this month followed a rather northeast track. Accordingly cyclogenesis over Mediterranean and its vicinities was not frequent, and during the whole month two secondary depressions developed only over Italy & west Mediterranean round the 10th & 22nd respectively. They were reflected aloft up to the 300 mb level and were rather deep. They proceeded eastwards through Greece, reached Asia Minor round the 12th & 25th respectively, then they were shifted NE wards through Black Sea.

For the month as a whole the barometric pressure over east Mediterranean in general and Egypt in particular experienced three oscillations of short duration, the first of which was between the 5th & 7th when the Sudan trough of low pressure showed a northward elongation towards southeast Mediterranean as a result of the relative deepening of a Black Sea transitory depression. The other two oscillations accompanied transits of the last two Mediterranean secondary depressions of this month through Asia Minor round periods (10th - 12th) & (22nd - 26th) respectively. Apart from the three short period oscillations, high pressure systems in the west (Europe, west Mediterranean & north Africa) and the east (south west Russia & Asia Minor) established and the barometric pressure over east Mediterranean was abnormally high.

The polar jet stream appeared in the upper troposphere over the Mediterranean and adjacent areas north of latitude 33°N at about 300 mb level. Over the northern districts of Egypt it was only evident

in association with the travelling depressions. The subtropical jet stream was evident over Egypt most of the month at about 185 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan & Aswan were 117, 150 & 125 knots on the 27th, 28th & 17th respectively.

SURFACE WIND

The prevailing winds were NW ly & Nly, light / moderate in general, fresh / strong occasionally in few days particularly over scattered localities of the Mediterranean (Western parts), Western Desert & Red Sea districts. Calms were frequent most night and early morning intervals over scattered localities.

Gales were reported at: Ras El Hikma on the 25th & 26th and at Hurghada on the 26th.

TEMPERATURE

Maximum temperature experienced four oscillations of rather moderate variability and its values were rather subnormal and ranged between 20°C & 27°C in the northern and middle parts and between 25°C & 35°C in the southern parts.

The absolute maximum temperature for the Republic was 34.4°C reported at Kom Ombo on the 14th & 15th.

Minimum temperature similarly was rather subnormal and its values ranged between 10°C & 17°C in the northern & middle parts and between 6°C & 17°C in the southern parts.

The absolute minimum temperature for the Republic was 2.0°C reported at Dakhla on the 25th.

PRECIPITATION

This month was generally dry. Rain was light, confined to scattered localities in the northern parts and fell in few scattered days (1st, 6th, 16th & 17th). Heavy rain caused destructive floods on the 7th over scattered localities in Minya and Asyout Provinces. The monthly rain was subnormal in general.

The absolute monthly rainfall for the Republic was 23.2 mms. reported at El Kasr while the maximum daily rainfall was 18.1 mms. reported at Tahrir on the 5th.

Cairo, October 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.

NOVEMBER — 1965

STATION	Atmospheric Pressure (mbs) M.S.L.		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation (mms) Mean
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	$\frac{A+B}{2}$	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
Sallum	1019.4	+ 1.6	23.9	— 0.7	14.1	— 0.8	19.0	18.4	— 1.4	13.3	— 2.0	53	— 7	—	—	—	8.8
Mersa Matruh (A)	1019.9	+ 2.1	22.4	— 1.1	12.3	— 1.1	17.4	16.9	— 1.3	13.3	— 1.4	64	— 3	256.7	317.2	80.9	6.6
Alexandria (A)	1019.0	+ 1.8	23.7	— 0.8	12.9	— 1.8	18.3	18.0	— 1.3	14.8	— 1.3	69	0	264.7	318.2	83.2	4.7
Port Said (A)	1018.2	+ 1.7	22.9	— 1.1	17.8	— 0.7	20.4	20.0	— 0.9	17.6	— 0.6	72	+ 1	243.6	318.0	76.6	4.4
El Arish	1018.1	+ 1.0	23.3	— 1.9	13.7	— 0.6	18.5	18.6	— 0.9	15.7	— 0.6	72	+ 1	—	—	—	4.0
Ghazza	1017.8	+ 1.0	22.9	— 1.1	13.9	— 0.6	18.4	18.5	— 0.8	15.2	— 0.9	69	— 1	239.7	317.2	75.6	4.9
Tanta (A)	1018.3	+ 1.3	24.4	— 1.4	12.1	— 0.3	18.2	17.4	— 1.0	14.1	— 1.1	68	— 2	254.3	318.8	79.8	3.3
Cairo (A)	1018.5	— 1.4	24.0	— 1.2	12.6	— 1.2	18.3	18.0	— 1.3	14.2	— 0.8	63	+ 2	—	—	—	8.8
Fayoum	1018.2	+ 0.8	25.2	— 1.3	12.8	— 0.4	19.0	18.3	— 1.2	13.9	— 1.2	59	0	—	—	—	5.0
Minya (A)	1018.6	+ 2.0	25.1	— 1.7	10.4	— 1.1	17.8	17.0	— 1.4	13.5	— 1.0	65	+ 5	—	—	—	5.8
Assyout (A)	1017.4	+ 1.0	25.3	— 1.3	11.3	— 1.5	18.3	17.7	— 0.7	13.0	— 0.6	56	+ 8	—	—	—	8.8
Luxor (A)	1015.4	+ 0.8	28.6	— 1.1	11.8	— 0.4	20.2	19.8	— 0.1	13.9	— 0.8	48	+ 1	—	—	—	7.2
Aswan (A)	1015.3	+ 0.9	29.2	— 1.3	13.2	— 1.4	21.2	21.1	— 1.3	13.0	— 0.5	34	+ 4	—	—	—	11.6
Siwa	1019.8	+ 1.8	24.4	— 1.9	8.3	— 1.7	16.4	16.0	— 2.0	11.0	— 1.6	50	0	—	—	—	5.9
Bahariya	1018.7	+ 1.0	25.0	— 1.2	10.4	— 0.9	17.7	17.6	— 0.6	12.4	— 1.1	51	0	—	—	—	5.5
Farafra	1020.2	+ 1.7	23.7	— 2.5	9.2	— 1.5	16.4	16.2	— 2.1	11.9	0.0	57	+14	—	—	—	8.9
Dakhla	1018.1	+ 2.7	24.2	— 2.5	8.5	— 3.0	16.9	16.7	— 2.4	11.0	— 1.0	45	+ 7	—	—	—	10.0
Kharga	1016.9	+ 0.8	26.5	— 2.2	12.2	— 0.7	19.4	19.4	— 1.2	12.4	— 1.0	45	+ 3	305.4	327.7	93.2	13.4
Tor	1015.8	+ 0.8	25.5	+ 1.1	13.8	— 0.8	19.6	20.1	— 0.8	15.4	— 0.4	57	+ 1	—	—	—	8.9
Hurgihada	1015.4	+ 0.6	25.6	— 0.3	14.8	— 0.7	20.2	20.3	— 0.6	15.5	— 0.2	57	+ 3	—	—	—	12.7
Quser	1015.7	+ 1.1	26.0	— 1.3	18.2	— 1.3	22.1	22.2	— 0.9	16.7	— 0.6	54	+ 1	—	—	—	14.6

Table A2. — MAXIMUM AND MINIMUM AIR TEMPERATURES

NOVEMBER — 1965

Station	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							10	<5	<0	<-5
Sallum	28.5	13	19.5	27	9	0	0	0	0	13.1	—	17.4	14	8.1	29	1	0	0	0
Mersa Natruh (A)	27.6	14	18.6	26	4	0	0	0	0	—	—	16.5	6	9.0	24	2	0	0	0
Alexandria (A)	26.2	14	20.2	27	8	0	0	0	0	—	—	19.4	5	8.5	21	3	0	0	0
Port Said (A)	26 2	4	19.9	18	1	0	0	0	0	16.0	—	21.0	5	14.9	26	0	0	0	0
El Arish	26.3	3	19.6	18	4	0	0	0	0	12.4	—	17.0	6	9.7	20	1	0	0	0
Ghazza	30.2	4	19.5	26	3	1	0	0	0	12.4	—	17.7	4	10 3	19	0	0	0	0
Tanta	27.0	5	20.2	26	15	0	0	0	0	—	—	15.7	5	9.0	19	2	0	0	0
Coiro (A)	27.4	4.5	20.1	18	10	0	0	0	0	—	—	15.5	5	8.8	19	4	0	0	0
Fayoum	30.0	14	20.0	27	18	0	0	0	0	9.9	—	17.0	4.5	9.4	27	3	0	0	0
Minya (A)	29.1	14	19.6	27	17	0	0	0	0	—	—	17.3	4	5.0	28	13	0	0	0
Assyout (A)	30.4	14	21.0	26	18	1	0	0	0	10.0	—	16.0	4	7.4	19	9	0	0	0
Luxor (A)	33.3	15	23.2	26	27	6	0	0	0	11.4	—	14.8	17	6.3	20	8	0	0	0
Aswan (A)	33.8	14	23.4	26	27	13	0	0	0	—	—	17.6	29	8.2	19	3	0	0	0
Siwa	29.4	14	19.3	27	16	0	0	0	0	6.2	—	12.9	6	3.7	30	17	4	0	0
Bahariya	29.4	14	18.8	27	19	0	0	0	0	8.5	—	16.5	6	5.4	21	15	0	0	0
Farafra	27.4	15	17.1	27	12	0	0	0	0	8.3	—	14.9	6	3.9	20	19	2	0	0
Dakhla	31.4	14	20.6	26	18	2	0	0	0	—	—	15.0	5	2.0	25	18	6	0	0
Kharga	31.2	14	21.2	26	24	3	0	0	0	10.4	—	16.4	4	6.2	28	8	0	0	0
Tor	27.8	4	22.5	27	20	0	0	0	0	—	—	19.2	17	9.8	28	2	0	0	0
Hurghada	28.4	25	21.9	27	20	0	0	0	0	12.8	—	17.3	7	11.8	23,28	0	0	0	0
Quseir	28.4	25	22.4	27	23	0	0	0	0	17.0	—	19.6	26	15.0	27	0	0	0	0

Table A 3.— SKY COVER AND RAINFALL

NOVEMBER — 1965

Station	Mean Sky Cover Oct.					Rainfall mms.										
	00 U.T.	06 U.T.	12 U.T.	18 U.T.	Daily Mean	Total Amount	D. From Normal	Max. Fall in one day Amount	Max. Fall in one day Date	Number of Days with Amount of Rain <0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum (A)	1.5	3.1	3.3	2.3	2.2	0.5	—28.0	0.3	5	1	3	0	0	0	0	0
Mersa Matruh (A)	0.9	2.6	2.9	1.5	2.1	8.5	—15.1	5.5	1	2	5	2	1	0	0	0
Alexandria (A)	3.2	3.6	4.1	3.2	3.5	3.4	—25.4	2.8	25	1	3	1	0	0	0	0
Port Said (A)	1.5	3.2	2.4	1.9	2.3	1.3	— 8.4	0.8	17	0	2	0	0	0	0	0
El Arish	2.8	3.1	3.1	3.4	2.4	1.3	—15.5	0.7	17	0	2	0	0	0	0	0
Ghazza	2.7	3.3	3.6	2.8	2.4	39.7	—15.5	31.4	16	0	3	2	2	1	1	0
Tanta	—	2.1	2.8	0.7	—	0.2	— 4.0	0.2	16	0	1	0	0	0	0	0
Cairo (A)	1.4	2.2	3.4	1.1	2.5	Tr.	— 2.7	tr.	17	1	0	0	0	0	0	0
Fayoum	—	1.2	1.7	0.4	—	0.0	— 0.5	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.4	2.2	1.7	0.7	1.1	Tr.	— 0.2	tr.	6	1	0	0	0	0	0	0
Assyout (A)	0.3	1.6	1.2	0.6	0.8	Tr.	0.0	tr.	6	1	0	0	0	0	0	0
Luxor (A)	0.6	0.8	1.3	0.8	0.8	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.2	1.2	1.5	0.6	0.8	0.6	— tr.	0.0	—	0	0	0	0	0	0	0
Siwa	0.4	1.8	2.8	1.5	1.2	0.0	— 0.6	0.0	—	0	0	0	0	0	0	0
Bahariya	0.4	1.5	1.9	0.8	1.2	0.0	— 0.6	0.0	—	0	0	0	0	0	0	0
Farafra	—	0.8	1.8	1.2	—	0.2	+ 0.1	0.2	6	0	1	0	0	0	0	0
Dakhla	0.3	1.0	1.0	0.4	0.7	0.0	— tr.	0.0	—	0	0	0	0	0	0	0
Kharga	0.1	0.9	1.2	0.4	0.7	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Tor	0.8	1.8	2.1	1.5	1.6	1.0	— 0.8	0.9	6	0	2	0	0	0	0	0
Hurghada	0.8	1.0	1.4	0.8	1.0	1.5	+ 1.3	1.5	29	0	1	1	0	0	0	0
Quseir	0.8	1.5	1.7	1.1	1.2	0.5	— 1.4	0.5	6	0	1	0	0	0	0	0

Table A 4. - DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

NOVEMBER — 1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥ 1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis < 1000 Metres	Dust or Sandstorm Vis < 1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice. Pellets	Hail											
Sallum	3	0	0	0	0	0	0	0	0	0	2	0	0	15	0
Mersa Matruh (A)	5	0	0	0	0	0	1	0	0	0	2	0	0	15	0
Alexandria (A)	3	0	0	0	0	0	4	7	0	0	0	0	0	4	0
Port Said (A)	2	0	0	0	0	0	2	0	0	0	3	0	0	13	1
Al Ar'sh	2	0	0	0		0	7	0	0	0	2	0	0	9	2
Ghazza	3	0	0	0	0	2	2	0	0	0	1	0	0	11	4
Tanta	1	0	0	0	0	0	2	0	0	0	0	0	0	—	—
Cairo (A)	0	0	0	0	0	0	16	4	4	0	1	0	0	13	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	5	1	0	0	0	0	0	28	0
Assyout (A)	0	0	0	0	0	0	6	0	5	0	1	0	0	26	0
Luxor (A)	0	0	0	0	0	0	0	0	5	0	1	0	0	25	0
Aswan (A)	0	0	0	0	0	0	0	0	0	0	7	1	0	26	0
Siwa	0	0	0	0	0	0	0	0	1	0	1	0	0	19	0
Bahariya	0	0	0	0	0	0	0	1	0	0	1	0	0	23	0
Farafra	1	0	0	0	0	0	0	0	0	0	2	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	1	0	1	0	0	25	0
Kharga	0	0	0	0	0	0	0	0	0	0	1	0	0	25	0
Tor	2	0	0	0	0	0	0	0	1	0	1	0	0	21	0
Hurghada	1	0	0	0	0	0	0	0	0	0	2	0	1	24	0
Quseir	1	0	0	0	0	0	0	0	1	0	4	0	0	22	1

Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

NOVEMBER — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Sailum	29	1	0	1-10	14	26	50	19	9	7	6	42	16	74	70	28	361
				11-27	7	0	4	0	1	0	0	89	26	104	71	24	326
				28-47	0	0	0	0	0	0	0	0	0	0	3	0	3
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**21**	**26**	**54**	**19**	**10**	**7**	**6**	**131**	**42**	**178**	**144**	**52**	**690**
Mersa Matruh . (A)	1	9	0	1-10	25	70	26	27	24	27	29	132	14	56	26	24	480
				11-27	19	31	0	2	0	0	11	68	8	27	21	32	219
				28-47	0	0	0	0	0	0	0	0	0	0	3	8	11
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**44**	**101**	**26**	**29**	**24**	**27**	**40**	**200**	**22**	**83**	**50**	**64**	**710**
Alexandria . . . (A)	113	0	24	1-10	83	64	24	17	25	8	8	49	1	6	15	71	371
				11-27	45	62	5	1	0	0	0	3	3	22	21	50	212
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**128**	**126**	**29**	**18**	**25**	**8**	**8**	**52**	**4**	**28**	**36**	**121**	**583**
Port Said . . . (A)	2	3	0	1-10	91	112	85	6	2	5	5	18	7	41	27	36	435
				11-27	46	102	33	1	0	0	0	16	12	31	20	19	280
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	**137**	**214**	**118**	**7**	**2**	**5**	**5**	**34**	**19**	**72**	**47**	**55**	**715**
El Arish	11	6	0	1-10	76	147	23	33	37	149	30	84	2	29	32	36	678
				11-27	0	2	2	0	0	0	0	6	1	4	9	1	25
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**76**	**149**	**25**	**33**	**37**	**149**	**30**	**90**	**3**	**33**	**41**	**37**	**703**
Ghazza	3	1	2	1-10	61	28	51	69	108	111	35	21	4	20	29	43	580
				11-27	41	22	2	0	0	3	2	16	6	10	26	6	134
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**102**	**50**	**53**	**69**	**108**	**114**	**37**	**37**	**10**	**30**	**55**	**49**	**714**
Tanta	46	1	0	1-10	72	126	38	9	1	1	0	99	14	65	50	67	542
				11-27	37	42	8	1	0	0	0	18	0	9	10	6	131
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**109**	**168**	**46**	**10**	**1**	**1**	**0**	**117**	**14**	**74**	**60**	**73**	**673**
Cairo . . . . . (A)	53	0	8	1-10	52	104	116	111	57	9	1	9	10	3	10	19	501
				11-27	8	41	59	19	2	0	0	6	1	11	6	5	158
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**60**	**145**	**175**	**130**	**59**	**9**	**1**	**15**	**11**	**14**	**16**	**24**	**659**
Fayoum	11	4	142	1-10	352	24	3	1	0	1	8	11	1	7	21	132	561
				11-27	0	1	0	0	0	0	0	0	0	0	0	0	1
				28-47	0	0	0	0	0	0	0	0	0	0	0	1	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeps	**352**	**25**	**3**	**1**	**0**	**1**	**8**	**11**	**1**	**7**	**21**	**133**	**563**

Table A 5 (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

NOVEMBER — 1965

Station	calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya . . . . . (A)	12	12	0	1-10	194	17	1	1	0	12	0	2	1	7	21	319	575
				11-27	91	9	0	0	0	0	0	0	0	0	0	21	121
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**285**	**26**	**1**	**1**	**0**	**12**	**0**	**2**	**1**	**7**	**21**	**340**	**696**
Asyout . . . . . (A)	1	0	14	1-10	1	1	0	0	1	3	0	34	56	268	156	66	586
				11-27	7	0	0	0	0	0	0	0	0	23	48	41	119
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**8**	**1**	**0**	**0**	**1**	**3**	**0**	**34**	**56**	**291**	**204**	**107**	**705**
Luxor . . . . . (A)	21	4	76	1-10	66	59	17	20	13	39	86	112	5	43	62	80	602
				11-27	2	0	0	0	0	0	0	0	0	0	3	12	17
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**68**	**59**	**17**	**20**	**13**	**39**	**86**	**112**	**5**	**43**	**65**	**92**	**619**
Aswan	2	3	1	1-10	232	233	6	2	0	0	2	2	0	4	10	64	555
				11-27	71	67	1	0	0	0	0	0	0	0	2	16	156
				28-47	1	0	0	0	0	0	0	0	0	0	0	1	3
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**304**	**300**	**7**	**2**	**0**	**0**	**2**	**2**	**0**	**4**	**12**	**81**	**714**
Siwa	222	16	0	1-10	40	21	12	19	28	42	39	64	13	54	85	43	460
				11-27	4	1	0	0	0	0	0	0	0	0	3	14	22
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**44**	**22**	**12**	**19**	**28**	**42**	**39**	**64**	**13**	**54**	**88**	**57**	**482**
Dakhla	5	3	12	1-10	25	10	7	1	0	2	9	57	20	138	176	190	635
				11-27	1	1	0	0	0	0	0	0	0	1	3	59	65
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**26**	**11**	**7**	**1**	**0**	**2**	**9**	**57**	**20**	**139**	**179**	**249**	**700**
Tor	0	3	0	1-10	22	142	134	32	8	11	0	6	0	16	78	48	497
				11-27	3	2	0	0	0	0	0	0	0	0	131	83	219
				28-47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**25**	**144**	**134**	**32**	**8**	**11**	**0**	**6**	**0**	**16**	**210**	**131**	**717**
Hurghada . .	0	3	0	1-10	8	11	6	6	4	1	2	5	1	10	70	12	136
				11-27	92	11	1	0	0	0	0	0	0	52	223	178	567
				28-47	0	0	0	0	0	0	0	0	0	0	2	12	14
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**100**	**22**	**7**	**6**	**4**	**1**	**2**	**5**	**1**	**62**	**305**	**202**	**717**
Quseir	0	1	3	1-10	34	24	11	3	2	2	4	3	2	99	138	32	354
				11-27	190	18	0	0	0	0	0	0	0	5	14	130	357
				28-47	5	0	0	0	0	0	0	0	0	0	0	0	5
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**229**	**42**	**11**	**3**	**2**	**2**	**4**	**3**	**2**	**104**	**152**	**162**	**716**

Table B 1.—UPPER AIR CLIMATOLOGICAL DATA

NOVEMBER — 1965

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	27	1020m.b.*	1023m.b.*	1014m.b.*	27	14.5	19.4	10.5	27	9.9
	1000	27	192	221	143	27	17.0	21.4	12.7	27	10.7
	850	27	1557	1588	1510	27	8.1	14.1	1.7	22	0.3
	700	27	3142	3184	3065	27	1.7	5.4	— 3.0	11	—12.9
	600	27	4367	4424	4272	27	— 5.8	— 1.4	—10.4	6	—18.5
	500	27	5769	5840	5649	27	—16.2	—12.7	—21.0	8	—23.1
	400	27	7410	7502	7259	27	—28.5	—24.8	—33.9	6	—39.5
	300	26	9413	9526	9300	26	—43.9	—40.0	—47.4	—	—
	200	24	12031	12160	11916	24	—59.0	—53.4	—64.0	—	—
	150	23	13821	13954	13702	23	—63.0	—58.0	—69.8	—	—
	100	17	16304	16413	16228	17	—64.7	—57.0	—70.0	—	—
	70	13	18499	186[illegible]0	18440	13	—63.7	—59.0	—68.9	—	—
	60	13	19444	19556	19368	13	—60.6	—55.8	—67.1	—	—
	50	11	20588	20697	20508	11	—58.4	—50.8	—64.0	—	—
	40	8	21998	22107	21908	8	—55.3	—53.8	—60.0	—	—
	30	7	23827	239[illegible]4	23729	7	—53.9	—50.4	—55.8	—	—
	20	4	2642[illegible]0	26[illegible]27	26326	4	—52.4	—51.3	—53.5	—	—
	10	—	—	—	—	—	—	—	—	—	
Helwan 0000 U.T.	Surface	30	1002* m.b.	1006*m.b.	997*m.b.	30	15.4	18.5	10.2	30	10.9
	1000	30	153	[illegible]	116	24	15.2	17.5	11.7	24	10.3
	850	30	1525	1545	1490	30	10.9	17.8	1.0	25	— 4.1
	700	30	3122	3160	3078	30	3.0	8.2	— 1.6	10	—10.3
	600	30	4353	4406	4289	30	— 4.8	— 0.8	—10.0	10	—19.4
	500	30	5764	5831	5686	30	—14.8	—10.7	—19.3	6	—24.8
	400	30	7411	7507	7322	30	—27.5	—22.5	—30.8	6	—32.8
	300	30	9415	9[illegible]	9280	30	—42.6	—38.4	—47.0	—	—
	200	30	12051	12[illegible]4	11913	29	—58.2	—51.4	—63.6	—	—
	150	30	13842	14013	13731	30	—63.1	—57.4	—70.6	—	—
	100	30	16314	16455	16212	30	—66.0	—61.7	—70.9	—	—
	70	28	18490	18619	18390	28	—64.3	—59.4	—70.5	—	—
	60	24	19431	19[illegible]34	19308	24	—61.9	—57.1	—67.7	—	—
	50	23	20570	20[illegible]78	20420	23	—59.4	—49.8	—64.0	—	—
	40	18	21973	22004	21805	18	—58.1	—54.5	—61.3	—	—
	30	16	23782	23[illegible]0	23612	16	—55.4	—51.5	—59.4	—	—
	20	13	26414	2656[illegible]	26222	13	—50.4	—46.3	—54.2	—	—
	10	2	30869	30935	30802	2	—39.0	—28.8	—49.1	—	—
Aswan 0000 U.T.	Surface	30	993m.b.*	996m.b.*	989m.b.*	30	16.5	22.0	11.6	30	5.4
	1000	30	130	159	100	—	—	—	—	—	—
	850	30	1520	1545	1478	30	15.6	19.1	10.7	26	1.3
	700	30	3136	3178	3036	30	6.1	9.0	1.7	10	— 7.4
	600	30	4382	443[illegible]	4288	30	— 1.3	3.1	— 6.5	6	—14.8
	500	30	5810	5872	5689	30	— 10.8	— 7.9	—16.8	3	—18.4
	400	30	7499	7810	7341	30	—22.8	—18.8	—27.7	4	—29.7
	300	29	9533	9632	9407	29	—38.0	—33.9	—41.0	1	—41.6
	200	29	12215	12327	12037	29	—55.5	—48.9	—63.1	—	—
	150	26	14004	14105	13838	26	—65.1	—60.3	—68.3	—	—
	100	24	16436	16552	16280	24	—71.1	—67.4	—76.7	—	—
	70	9	18561	18680	18420	9	—67.6	—62.8	—71.4	—	—
	60	6	19517	19[illegible]07	19431	6	—64.8	—60.4	—67.7	—	—
	50	6	20636	20712	20552	6	—62.4	—58.3	—64.8	—	—
	30	5	22023	22087	21947	5	—58.9	—56.2	—61.6	—	—
	20	4	23828	23883	23760	4	—56.0	—52.2	—58.4	—	—
	10	1	26358	—	—	1	—51.4	—	—	—	—

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde station.

Table B 1 (*contd.*).—UPPER AIR CLIMATOLOGICAL DATA

NOVEMBER — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh (A) 1200 U.T.	Surface . . .	29	1019m.b.*	1023m.b.*	1015m.b.*	29	21.7	27.0	17.6	29	12.2
	1000 . . .	29	193	224	158	29	19.2	25.0	15.8	29	10.8
	850 . . .	29	1564	1590	1512	29	8.9	15.2	2.5	26	—1.1
	700 . . .	29	3152	3184	3097	29	2.4	7.6	—1.0	9	—12.1
	600 . . .	29	4381	4428	4318	29	—5.0	—0.9	—8.9	6	—14.6
	500 . . .	29	5790	5852	5720	29	—15.1	—10.6	—19.4	7	—23.5
	400 . . .	28	4432	7524	7370	28	—27.3	—24.0	—31.3	5	—31.6
	300 . . .	28	9476	9554	9344	28	—42.9	—40.2	—45.7	—	—
	200 . . .	26	12073	12185	11960	26	—58.1	53.2	—64.0	—	—
	150 . . .	22	13870	13960	13747	22	—62.4	—58.6	—66.0	—	—
	100 . . .	15	16359	16447	16270	15	—63.3	—58.7	—70.0	—	—
	70 . . .	9	18558	18680	18430	9	—62.2	—56.6	—70.6	—	—
	60 . . .	5	19546	19644	19480	5	—59.2	—54.5	—64.2	—	—
	50 . . .	5	20694	20815	20603	5	—57.3	—53.9	—62.0	—	—
	40 . . .	3	22106	22252	21994	3	—54.3	—52.0	—57.0		—
	30 . . .	2	23889	23939	23839	2	—54.2	—50.7	—57.8		—
	20 . . .	2	26534	26592	26477	2	—49.1	—48.6	—49.5	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface . . .	30	1001m.b.*	1005m.b.*	996m.b.*	30	23.6	27.9	18.9	30	8.5
	1000 . . .	30	145	183	108	19	22.6	27.3	18.0	19	7.5
	850 . . .	36	1529	1554	1493	30	11.9	18.9	6.2	23	0.1
	700 . . .	30	3132	3167	3080	30	4.1	8.8	—1.7	6	—8.4
	600 . . .	30	4367	4429	4290	30	—4.0	—0.4	—10.0	6	—17.8
	500 . . .	30	5780	5857	5676	30	—13.8	—9.7	—18.5	6	—25.5
	400 . . .	30	7435	7531	7302	30	—26.5	—22.3	—30.6	4	—35.8
	300 . . .	30	9448	9564	9300	30	—41.9	—37.7	—46.6	—	—
	200 . . .	30	12096	12234	11960	30	—57.1	—51.4	—61.7	—	—
	150 . . .	30	13896	14018	13780	30	—62.5	—57.7	—68.9	—	—
	100 . . .	26	16383	16496	16310	26	—65.5	—61.3	—71.9	—	—
	70 . . .	21	18562	187.0	18470	21	—62.9	—57.5	—68.1	—	—
	60 . . .	18	19507	19678	19401	18	—61.0	—57.3	—65.2	—	—
	50 . . .	17	20643	20831	20519	17	—58.5	—51.1	—63.2	—	—
	40 . . .	11	22045	22245	21912	11	—56.1	—52.9	—58.7	—	—
	30 . . .	8	23903	24098	23704	8	—52.1	—49.5	—54.1	—	—
	20 . . .	3	26548	26589	23516	3	—47.4	—41.8	—51.6	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface . . .	29	992m.b.*	995m.b.*	987m.b.*	29	28.3	34.8	24.0	29	7.5
	1000 . . .	29	119	149	78	—	—	—	—	—	—
	850 . . .	29	1530	1553	1496	29	16.5	22.9	12.2	21	1.8
	700 . . .	29	3152	3193	3107	29	7.2	11.3	3.8	8	—7.9
	600 . . .	26	4403	4447	4348	26	—0.3	3.3	—4.5	1	—17.8
	500 . . .	26	5836	5899	5771	26	—9.6	—5.6	—14.2	—	—
	400 . . .	26	7521	7604	7439	26	—21.8	—18.2	—26.5	1	—29.3
	300 . . .	26	9573	9682	9467	26	—37.6	—34.0	—40.2	1	—43.3
	200 . . .	24	12272	12382	12161	24	—52.1	—50.4	—58.0	—	—
	150 . . .	23	14079	14174	13962	23	—63.6	—60.3	—66.8	—	—
	100 . . .	20	16541	16620	16479	20	—68.9	—65.8	—74.1	—	—
	70 . . .	12	18695	18780	18620	12	—65.0	—60.7	—69.3	—	—
	60 . . .	5	19647	19715	19557	5	—60.4	—58.4	—63.4	—	—
	50 . . .	5	20786	20862	20685	5	—59.1	—56.3	—62.0	—	—
	40 . . .	5	22196	22281	22083	5	—55.7	—53.8	—57.6	—	—
	30 . . .	4	24042	24154	23943	4	—49.4	—48.3	—50.0	—	—
	20 . . .	1	26845	—	—	1	—46.3	—	—	—	
	10 . . .	—	—	—	—	—	—	—	—	—	

N = The number of cases the element has been observed during the month.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

Table B 2.- MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE. THE HIGHEST WIND SPEED IN THE UPPER AIR

NOVEMBER — 1965

	Station	Freezing Level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)	Speed in Knots
0000 U.T.	Mersa Matruh (A)	3389 (27)	680 (27)	-11.3 (9)	4130	622	—	1730	826	-2.6	12675 (22)	185 (22)	-62.8 (22)	15740	110	-64.9	10680	247	-56.1	10375	262	258	112
	Helwan.	3619 (30)	659 (30)	-11.7 (9)	4250	608	—	2740	730	-5.6	13569 (29)	161 (29)	-64.4 (29)	16417	100	-70.9	10740	241	-55.0	12320	192	260	150
	Aswan . . . (A)	4246 (30)	615 (30)	-11.7 (6)	5320	533	-11.0	3220	684	—	15011 (21)	128 (21)	-69.7 (21)	16393	100	-72.3	13690	159	-63.8	12400	194	260	120
1200 U.T.	Mersa Matruh (A)	3517 (29)	670 (29)	-11.4 (9)	4330	608	—	1820	824	-2.2	12661 (15)	184 (15)	-61.2 (15)	15220	121	-65.2	10800	242	-53.5	13720	160	242	117
	Helwan	3745 (30)	648 (30)	-11.3 (7)	4620	582	—	2860	719	-9.1	13898 (26)	155 (26)	-64.1 (26)	16448	100	-71.9	10780	241	-52.0	12940	221	260	146
	Aswan . . . (A)	4357 (26)	604 (26)	-12.8 (4)	5030	526	—	3540	665	-11.2	14910 (17)	133 (17)	-66.8 (17)	17100	91	-71.7	12530	190	-58.6	12620	189	280	125

Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A) NOVEMBER — 1965

Time	Pressure Surface (Millibar.)	Wind between specified ranges of direction (000 – 360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 164		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	1	9	1	12	0	—	1	8	1	1	0	—	1	14	7	10	6	9	4	8	1	9	3	22	1	27	10
	1000	4	8	0	—	2	11	1	13	0	—	1	11	1	10	6	10	0	—	4	10	2	8	3	14	2	26	9
	850	4	11	1	8	1	17	0	—	2	10	0	—	2	12	1	1	3	9	4	14	2	26	6	15	0	26	13
	700	2	8	2	11	0	—	1	7	1	10	0	—	0	—	1	8	2	16	3	25	5	22	5	19	0	22	17
	600	3	10	1	18	1	28	0	—	0	—	0	—	0	—	1	5	3	33	8	20	4	22	1	45	0	22	22
	500	2	13	2	20	1	21	0	—	0	—	1	16	0	—	0	—	3	35	7	31	4	30	0	—	0	20	27
	400	0	—	1	20	2	19	1	33	0	—	1	25	0	—	0	—	4	37	4	46	7	34	0	—	0	20	34
	300	1	35	2	36	1	40	0	—	0	—	0	—	1	21	0	—	0	—	6	53	5	44	1	27	0	17	43
	200	2	22	0	—	0	—	0	—	0	—	0	—	1	7	0	—	0	—	1	30	1	44	0	—	0	5	25
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	0	—	0	—	0	1	47
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Sufrace	5	10	10	9	4	6	1	8	0	—	0	—	0	—	0	—	1	7	2	6	1	18	5	14	0	29	10
	1000	4	10	3	6	0	—	2	5	0	—			0	—	2	7	2	8	1	9	10	14	5	13	0	29	11
	850	2	12	3	5	2	6	1	10	0	—	2	12	0	—	1	10	5	18	6	8	4	19	3	15	0	29	12
	700	3	12	2	10	0	—	1	7	0	—	1	14	0	—	1	12	5	20	8	18	3	20	3	17	1	28	16
	600	1	18	4	14	0	—	1	6	1	4	0		0	—	2	26	5	21	7	27	3	30	3	12	1	28	20
	500	0	—	5	20	0	—	0	—	2	13	1	5	0	—	0	—	5	30	9	29	4	34	1	11	0	27	26
	400	1	18	2	24	2	28	0	—	0	—	0	—	2	21	0	—	4	58	7	37	6	35	0	—	0	24	36
	300	1	20	3	41	0	—	0	—	0	—	2	23	0	—	0	—	3	65	6	49	4	36	1	13	0	20	42
	200	1	21	2	30	0	—	0	—	0	—	0	—	0	—	0	—	1	80	2	26	1	60	0	—	0	7	39
	150	1	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	64	3	30	0	—	0	—	0	6	42
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

= number of cases the wind has been observed for all directions during the month.

The number of cases the elemnet has been observed during the month.

Table B 3.(*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

HELWAN — NOVEMBER 1965

Time	Pressure Surface (Millibar)	Wind between specified ranges of direction (000 – 360)°																								Number of Calm winds	Total Number of Observations (TN)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	3	9	14	12	8	12	1	4	0	—	0	—	0	—	0	—	0	—	1	14	0	—	2	6	1	30	10
	1000	3	14	7	14	11	18	0	—	0	—	0	—	0	—	0	—	0	—	1	14	0	—	2	12	0	24	15
	850	4	8	7	14	3	11	3	7	0	—	1	5	1	15	1	7	2	11	1	23	4	10	3	15	0	30	11
	700	2	8	4	9	0	—	0	—	0	—	3	10	0	—	2	11	3	12	6	14	6	18	4	15	0	30	13
	600	4	14	1	26	1	12	0	—	0	—	2	13	0	—	2	6	7	15	5	19	6	20	2	14	0	30	16
	500	2	19	1	19	0	—	0	—	0	—	0	—	0	—	1	8	7	30	9	23	8	24	2	21	0	30	24
	400	1	8	1	41	0	—	1	5	0	—	0	—	1	13	0	—	6	44	8	38	8	28	3	21	0	29	32
	300	1	15	2	43	0	—	0	—	0	—	0	—	0	—	1	20	5	53	10	53	7	39	3	21	0	29	43
	200	0	—	1	42	0	—	0	—	0	—	0	—	0	—	1	20	6	86	14	71	4	64	2	48	0	28	69
	150	0	—	1	60	0	—	0	—	0	—	0	—	0	—	1	40	1	33	15	57	2	60	1	29	0	21	51
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	41	8	50	3	41	1	25	0	17	44
	70	1	11	0	—	0	—	0	—	1	17	0	—	0	—	0	—	0	—	4	19	0	—	0	—	0	6	18
	60	0	—	0	—	0	—	0	—	0	—	0	—	1	35	1	12	1	16	2	36	1	34	0	—	0	6	28
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	27	1	50	0	—	0	—	0	4	33
	40	0	—	0	—	0	—	0	—	1	8	0	—	1	8	0	—	1	84	0	—	0	—	0	—	0	3	33
	30	0	—	1	10	0	—	1	79	1	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	40
	20	0	—	0	—	0	—	0	—	0	—	1	23	0	—	0	—	0	—	0	—	0	—	0	—	0	1	23
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—
1200 U.T.	Surface	13	11	5	12	3	11	0	—	0	—	0	—	0	—	2	7	0	—	0	—	3	15	4	10	0	30	11
	1000	6	14	8	16	0	—	0	—	0	—	0	—	0	—	1	3	0	—	0	—	2	12	2	11	0	19	13
	850	5	12	8	14	5	11	2	10	0	—	1	18	4	9	1	6	1	27	1	14	0	—	2	14	0	30	13
	700	2	10	1	14	1	7	0	—	2	10	2	4	3	6	5	20	5	9	2	14	4	25	3	11	0	30	13
	600	3	8	0	—	0	—	1	3	1	2	1	10	0	—	1	17	8	17	8	21	4	16	3	23	0	30	16
	500	3	7	1	23	0	—	0	—	0	—	0	—	0	—	3	29	5	26	9	27	3	21	6	20	0	30	22
	400	2	24	1	12	0	—	1	9	0	—	0	—	0	—	2	18	3	40	11	41	7	32	3	30	0	30	33
	300	4	28	0	—	1	32	0	—	0	—	0	—	0	—	2	52	4	60	9	44	7	36	2	28	0	29	41
	200	1	47	0	—	1	26	0	—	0	—	0	—	0	—	1	19	4	72	12	61	7	71	2	27	0	28	59
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	65	12	64	5	35	0	—	0	21	57
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	43	1	122	0	—	0	12	49
	70	0	—	0	—	0	—	1	19	0	—	0	—	0	—	1	24	0	—	3	28	1	48	0	—	0	6	29
	60	0	—	0	—	0	—	0	—	0	—	0	—	1	20	0	—	1	30	1	67	0	—	0	—	0	3	39
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the wind has been observed during the month.

TN — The total number of cases the wind has been observed for all directions during the month.

Table B 3. *(contd)* — **NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.**

ASWAN (A) — NOVEMBER 1965

Time	Pressure Surface (Millibar.)	Wind between specified ranges of direction (000—360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	17	9	5	7	0	—	0	—	0	—	0	—	0	—	1	11	0	—	0	—	0	—	7	7	0	30	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	7	4	8	3	7	5	6	3	8	1	5	1	5	1	7	2	8	1	5	3	8	2	6	1	30	7
	700	3	7	3	4	0	—	0	—	0	—	1	22	5	14	6	10	4	11	3	15	2	10	3	10	0	30	11
	600	1	7	0	—	0	—	0	—	0	—	0	—	0	—	5	23	6	23	7	29	10	15	1	21	0	30	19
	500	1	16	0	—	0	—	0	—	0	—	0	—	0	—	4	38	7	37	8	25	7	22	3	10	0	30	27
	400	1	19	0	—	0	—	0	—	0	—	0	—	0	—	1	82	8	42	12	37	6	32	1	15	0	29	37
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	93	7	60	14	53	5	43	1	23	0	28	53
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	78	12	78	3	51	1	25	0	21	72
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	68	11	58	1	54	0	—	0	14	59
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	28	7	37	2	32	0	—	0	11	34
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	17	8	4	12	0	—	1	2	0	—	0	—	0	—	0	—	0	—	1	10	0	—	3	5	3	29	7
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	7	3	7	0	—	7	7	2	5	0	—	2	10	1	7	1	12	4	8	4	12	2	6	0	29	8
	700	3	8	0	—	1	4	0	—	0	—	1	15	6	11	6	12	1	11	4	14	3	6	3	12	0	28	11
	600	0	—	0	—	0	—	0	—	1	2	0	—	1	19	5	15	6	20	5	18	5	16	3	15	0	26	17
	500	0	—	0	—	0	—	0	—	0	—	0	—	1	35	4	33	5	36	7	50	6	16	3	16	0	26	27
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	54	8	48	12	42	3	33	2	16	0	26	41
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	85	6	64	10	56	7	33	0	—	0	25	54
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	78	5	74	9	80	6	54	0	—	0	21	71
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	73	10	65	2	58	0	—	0	17	67
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	34	4	38	1	27	0	—	0	9	35
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR—NOVEMBER 1965

This month was cool and rather humid as compared with normal values of air temperature and relative humidity of Mersa Matruh for November. Total rainfall was 3.8 mm below normal.

A warm spell occurred in the period 12-14 th which gave rise to the highest maximum air temperature at 2m above ground on the 14th.

The extreme maximum soil temperatures at all depths between 0.3cm and 100cm were lower than the corresponding values of November 1964 ; the differences varied between 6.6°C at 0.3cm depth and 1.4°C at 100 cm deptl . The extreme minimum soil temperature at 2 cm depth was equal to the corresponding value of last November while the extreme minimum value at 5 cm depth was 0.8°C higher than the corresponding value of last November. At 0.3 and 1cm depth, and also at all depths between 10 and 100 cm depths the extreme minimum soil temperatures were lower than the corresponding values of November 1964 ; the largest difference was 1.8°C at 1cm depth.

The mean daily wind speed at 2m. height above ground was 0.8 m/sec lower than the corresponding value of last November. The mean daily Piche evaporation was 0.7 mm higher while mean daily Class A pan evaporation was 0.95 lower than the corresponding value of last November. Total actual duration of bright sunshine was 37.2 hours higher than the corresponding value of November 1964.

TAHRIR—NOVEMBER 1965

This month was cooler (-1.2°C) and slightly more humid (+ 3%) and much more rainy (18.2 mm against 2.6 mm last year) than last November.

During the first half of the month moderately warm weather prevailed. A warm spell prevailed in the first week which gave the highest maximum air temperature of the month on the 5th. Two cold waves occurred in the second half of the month. The second one was associated with the lowest maximum air temperature on the 27th.

The extreme maximum soil temperatures in the dry field at all depths between 0.3cm and 100cm were lower than the corresponding values of November 1964. The deviations varied between 3.1°C at 0.3 cm depth and 1.3°C at 100 cm depth. The extreme minimum soil temperaures at 20 cm depth and upper layers were higher than the corresponding values of last November, at deeper layers the values were lower than the values of last November and the deviations varied between 2.5°C at 2cm depth and -1.3°C at 50cm depth.

The mean daily wind speed at 2m. above ground was lower than the corresponding value of November 1964 by 0.5 m/sec. The mean daily Piche evaporation and Class A pan evaporation were lower than the corresponding values of last November by 1.8 and 1.15 mm respectively. The total actual duration of bright sunshine was 16.2 hours higher than the corresponding value of November 1964.

GIZA—NOVEMBER 1965

This month was cooler than normal. The mean daily air temperature at 2 metres above ground was 1.1°C below normal. The mean daily relative humidity was slightly above normal (+ 1%). Total rainfall was below normal (—2.3 mm).

The month was characterised by cold spells on lst, 18th, 19th and 27th. Except for three days, when the maximum air temperature was slightly above normal, the daily maximum air temperatures were below normal.

The extreme maximum soil temperatures in the dry field at depths between 0.3 and 100 cm depths were lower than the correspinding values November 1964 ; the differences varied between 7.2°C at 2cm depth and 0.3°C at 100 cm depth. The extreme minimum soil teperatures at 0.3 cm and 5 cm depths were lower than the corresponding values of November 1964 by 1.2 and 0.2°C respectively, while the values at other depths were higher than the corresponding values of last November by amounts varying between 1.6°C at 2cm depth and 0.1°C at 50 and 100 cm depths.

The mean daily wind speed at 2m above ground was 0.4m/sec lower than the corresponding value of November 1964.

Mean daily values of Piche evaporation, water pan evaporation potential evaporation and potential evapotranspiration were lower than the corresponding values for last November by 2.1, 0.40, 0.5 and 0.6 mm respectively. Total actual duration of bright sunshine was 26.6 hours higher than the corresponding value of November 1964.

KHARGA—NOVEMBER 1965

This month was cool as compared with the normal value of air temperature for November.The mean daily air temperature at 2metres above ground was0.7°Cbelow normal. Total rainfall was 0.1 mm below normal. Except for few days when the maximum air temperatures were not more than 2.5°C above normal, the daily maximum air temperatures were below normal.

The extreme maximum soil temperatures at all depths between 0.3 cm and 100 cm were lower than the corresponding values of November 1964 ; the differences varied between 5.2°C at 1 cm depth and 0.3°C at 50 cm depth. The extreme minimum soil temperatures at 0.3 cm, lcm and 50 cm depths were higher than the corresponding values of last November, while at 2cm, 5cm, 20 cm and 100 cm depths the values were lower than the corresponding values for November 1964. The differences varied between 0.5°C at 0.3cm and lcm depths and 0.6°C at 10 cm depth.

The mean daily wind speed at 2 m. height was 0.6 m/sec higher than the corresponding value of last November. Mean daily values of Piche evaporation and water pan evaporation were lower than the corresponding values for November 1964 by 1.0 and 0.66 mm respectively. Total actual duration of bright sunshine was 5.3 hours lower than the corresponding value of November 1964.

Table C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND

NOVEMBER — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	−5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	22.5	12.2	17.0	15.0	19.6	24.0	24.0	24.0	23.6	15.2	5.6	0.3	0.0	0.0	0.0	0.0
Tahrir	24.2	12.2	17.4	15.4	20.1	24.0	24.0	24.0	23.4	14.2	6.4	0.2	0.0	0.0	0.0	0.0
Giza	24.4	11.4	17.6	15.7	20.0	24.0	24.0	24.0	23.3	16.2	7.8	0.7	0.0	0.0	0.0	0.0
Kharga	26.5	12.2	19.4	17.2	32.3	24.0	24.0	24.0	23.0	19.1	10.9	3.9	0.2	0.0	0.0	0.0

Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS.

NOVEMBER — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	27.6	14	18.8	26	16.9	6	9.1	29	7.0	20	—	—
Tahrir	27.3	5	19.8	27	16.0	5	8.8	19	6.8	19	—	—
Giza	27.7	5	20.3	27	15.2	5	8.1	18	2.9	19	2.1	19
Kharga	31.2	14	21.2	26	16.4	4	6.2	28	3.6	20	—	—

Table C 3.—(SOLAR+SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL

NOVEMBER — 1965

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours		Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 U.T.	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
					90	80															
El Kasr.	267.0	256.2	317.6	80	—	—	74	57	23	22	10.2	10.6	16.1	14,15	5.0	23	9.7	4.54	23.1	17.8	1
Tahrir .	339.0	243.9	318.7	76	6.9	10.9	75	50	35	23	11.0	10.5	16.0	15	6.0	26	6.0	3.46	18.2	18.1	5
Giza . .	322.5	246.9	319.8	80	4.6	9.4	72	47	32	28	10.7	10.2	15.1	5	6.5	26	6.8	4.02	0.2	0.2	16
Kharga	436.7	305.4	327.7	93	0	0.1	45	28	16	25	7.4	7.1	12.0	4,6	4.2	20	17.6	9.28	0.0	0.0	—

TABLE C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

NOVEMBER — 1965

STATION	Highest (H) Lowest (L)	Extreme soil tempetature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms,)									
		0,3	1	2	5	10	20	50	100	200	300	0,3	1	2	5	10	20	50	100	200	300
El Kasr. . . .	H	29.0	27.4	26.4	24.4	22.0	19.6	19.7	22.3	24 0	—	—	—	—	—	—	—	—	—	—	—
	L	7.2	6.2	8.2	10.0	11.6	14.2	16.8	19.3	21.8	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	36.0	35.7	33.3	32.2	27.7	24.4	23.3	25.2	27.1	27.3	—	—	—	—	—	—	—	—	—	—
	L	9.0	9.1	9.8	11.9	13.5	15.9	18.2	21.2	24.0	25.2	—	—	—	—	—	—	—	—	—	—
Giza	H	40.9	36.1	34.8	29.2	26.8	25.4	26.4	28.4	28.6	27.7	29.6	26.2	24.8	22.0	22.2	21.9	22.3	23.7	24.4	—
	L	6.3	8.6	10.0	13.8	17.5	20.7	22.7	25.1	27.0	27.2	7.7	8.6	8.8	11.9	14.4	16.3	19.1	21.1	23.2	—
Kharga. . . .	H	41.5	34.4	33.0	30.7	27.4	26.4	28.2	30.3	31.2	30.0	—	—	—	—	—	—	—	—	—	—
	L	6.5	7.5	8.6	12.0	16.5	20.2	23.8	26.4	29.2	29.5	—	—	—	—	—	—	—	—	—	—

TABLE C 5.- SURFACE WIND

NOVEMBER — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres.							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots	Value (knots)	Date
El Kasr . . .	3.5	3.1	3.8	—	—	—	—	—	—	—	—	—
Tahrir	2.3	1.7	3.2	23	10	3	1	0	0	0	31	26
Giza	2.0	1.5	2.7	28	9	1	0	0	0	0	26	3,17,26
Kharga . . .	3.9	2.9	5.4	—	—	—	—	—	—	—	—	—

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THE ARAB REPUBLIC OF EGYPT

MONTHLY WEATHER REPORT

VOLUME 8 NUMBER 12

DECEMBER, 1965

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METEOROLOGICAL DEPARTMENT
CAIRO

PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE ARAB REPUBLIC OF EGYPT — CAIRO

In fulfilment of its duties, the Meteorological Department of Egypt issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be adressed to :
"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.

THE ARAB REPUBLIC OF EGYPT

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METEOROLOGICAL DEPARTMENT
CAIRO

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GENERAL SUMMARY OF WEATHER CONDITIONS

DECEMBER 1965

Cold and deficiently rainy in general. Widespread rising sand and sandstorms between 12th and 14th. Early morning mist and fog in scattered localities of Delta, Canal and Cairo areas

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was cold and deficiently rainy in the northern parts, rather cold in the middle parts and alternatively cold and warm in the southern parts. Light / moderate rain fell in few scattered days over the northern parts and extended inland southwords as far as Cairo area on the 15th. Daily rain as an exception was heavy on the 13th between Rosetta and Balteam. Monthly rain was markedly subnormal. Rain was associated with thunderstorms over few scattered localities in the northern parts.

Widespread rising sand and sandstorms occurred over scattered localities between 12th and 14th Early morning mist and fog developed rather frequently over many scattered localities of the Delta, Canal and Cairo areas and extended southwards as far as Asyout in few scattered days.

PRESSURE DISTRIBUTION

The prevailing pressure distributions this month over the surface map can be summarized in the following pressure systems.

— The Atlantic Anticyclonic ridge over Europe, west Mediterranean and NW Africa.

— The Siberian Anticyclonic ridge over Caspian and Black sea vicinities and Asia Minor.

— The Deep Atlantic transitory low pressure systems through Europe and Russia along their prefered tracks.

— Transitory Mediterranean secondary depressions.

Both 700 and 500 mb monthly sets of charts depict the prevalence of two deep upper low pressure systems one over north Atlantic and the other over north Russia with a marked block in between and a broad upper high pressure belt over south Mediterranean and north Africa Regions.

During this month three variant secondary depressions developed over Central Mediterranean round the 1st, 4th and 24th and another three developed over west Mediterranean round the 9th, 21st and 29th. Tracks of these depressions from Central Mediterranean were rather eastward tracks. They attained Asia Minor round the 3rd, 5th, 26th, 13th, 24th and 31st respectively. In the mean time a local high pressure belt established over East Mediterranean round periods (7th - 9th), (17th - 20th) and (28th-29th) during which barometric pressure was abnormally high in general.

It is worth to mention that the 3rd secondary depression was the deepest and caused a fall in the barometric pressure over Egypt in general ranging between 20 mbs in Mediterranean district and 10 mbs in the Upper Egypt district.

The polar jet stream was evident over the area between latitudes 35°N and 55°N during the whole month. Over the northern districts of Egypt it was only evident 6 times in association with the travelling depressions at about 310 mb level. The subtropical jet stream oscillated over Egypt during most of the month at about 195 mb level.

The highest wind speeds recorded at Mersa Matruh, Helwan and Aswan were 196, 150 and 136 Knots on the 5th, 25th and 25th respectively.

SURFACE WIND

The prevailing winds were light / moderate in general SWly and Wly during Mediterranean depressions transits and NWly & Wly at their rears. Fresh / strong winds blew occasionally over scattered localities particularly the Mediterrancan (Western parts), lower Egypt (Canal Zone), Western Desert (Kharga) and Red Sea districts. Calms were frequent most of night and early morning intervals over scattered localities.

Gales were reported at: Mersa Matruh on the 12th; Ghazza on the 16th; Abu Sueir on the 13th and at Fayed on the 13th and 16th.

TEMPERATURE

Maximum temperature continued subnormal till the 28th and its values ranged between 16° C and 23°C in the northern and middle parts and between 20°C and 30°C in the southern parts. Otherwise it was abnormal and its values ranged between 25°C and 33°C in general.

The absolute maximum temperature for the Republic was 34.2°C reported at Kom Ombo on the 31st.

Minimum temperature was generally subnormal and its values ranged between 5°C and 15°C in general apart from scattered localities of the Western Desert and Upper Egypt districts where its values ranged between 0°C and 10°C.

The absolute minimum temperature for the Republic was - 2.1° reported at Dakhla on the 27th.

PRECIPITATION

Rain was light / moderate in general, fell in few scattered days and was confined to the northern parts. It extended inland southwards till Cairo on the 15th. Daily rain as an ex ption was heavy on the 13th between Rosetta and Ballteam. The monthly rain was markedly subnormal particularly over the Mediterranean district.

The absolute monthly rain for the Republic was 57.2 mms. reported at Rosetta while the maximum daily rainfall was 41.0 mms. reported also at Rosetta on the 13th.

Cairo, October 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

SURFACE DATA

Table A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE, RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION

DECEMBER — 1965

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C									Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mms.
			Maximum		Minimum			Dry Bulb		Wet Bulb							
	Mean	D.F. Normal or Average	(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average	$\frac{A+B}{2}$	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Mean	D.F Normal or Average	Total Actual	Total Possible	%	Mean
Sallum	1017.2	+0.2	20.0	—0.5	10.6	—0.4	15.3	15.0	—0.8	10.9	—0.8	57	— 2	—	—	—	8.5
Mersa Matruh (A)	1017.8	+0.1	19.5	+0.3	9.4	—1.2	14.4	14.0	—0.5	10.6	—0.8	63	— 5	223.1	313.7	71.1	7.6
Alexandria (A)	1017.7	+0.2	20.5	0.0	9.8	—1.3	15.2	14.8	—0.5	11.8	—0.9	68	— 4	235.9	315.6	74.7	4.8
Port Said (A)	1017.6	+0.3	19.8	0.0	13.1	—0.5	16.4	16.0	—0.3	13.4	—0.3	73	0	246.0	315.6	77.9	4.2
El Arish	1018.4	+0.9	21.2	—0.2	10.1	0.0	15.6	15.0	—0.5	12.0	—0.4	68	+ 1	—	—	—	4.9
Ghazza	1017.8	+0.4	20.0	—0.4	10.1	—0.9	15.4	15.3	—0.6	12.2	—0.4	67	— 1	223.4	313.7	71.2	4.4
Tanta	1017.6	+0.9	21.0	—0.3	8.9	+0.7	15.0	14.1	—0.6	10.8	—0.9	64	— 3	250.0	316.8	78.9	3.9
Cairo (A)	1018.4	+0.4	20.7	0.0	10.6	+0.2	15.6	15.2	—0.2	10.8	—0.7	54	— 8	—	—	—	9.6
Fayoum	1018.5	—0.5	21.5	—0.4	8.3	—0.1	14.9	14.0	—0.4	10.4	—0.4	61	0	—	—	—	3.7
Minya (A)	1019.3	+1.0	21.8	—0.2	5.8	—1.1	13.8	13.0	—0.7	9.5	—0.6	61	— 1	—	—	—	4.6
Assyout (A)	1018.6	+0.6	21.8	—0.5	7.4	—1.4	14.6	14.1	—1.1	9.2	—1.0	48	— 1	—	—	—	7.1
Luxor (A)	1017.4	+0.5	24.5	—0.3	6.1	—1.5	12.9	15.0	0.0	10.2	—0.9	51	— 2	—	—	—	5.5
Aswan (A)	1017.4	+1.0	24.7	—1.2	7.6	—2.5	16.2	16.2	—1.6	9.8	—1.1	38	+ 2	—	—	—	9.4
Siwa	1018.6	+0.2	19.7	—1.6	5.8	—0.3	12.8	12.7	—0.9	8.6	—0.6	54	— 1	—	—	—	6.1
Bahariya	1019.1	+0.8	21.4	—0.2	6.3	—0.4	13.8	13.5	—1.3	9.0	—1.0	51	+ 1	—	—	—	6.2
Farafra	1020.6	+0.6	21.3	—0.7	4.5	—1.5	15.3	12.4	—1.1	8.4	—0.1	54	+ 8	—	—	—	7.5
Dakhla	1019.3	+2.0	22.8	—0.5	2.2	—3.9	12.5	12.1	—2.2	7.4	—1.4	46	+ 2	—	—	—	6.8
Kharga	1018.5	+0.5	23.4	—0.6	6.2	—1.8	14.8	14.7	—0.5	8.9	—0.7	45	— 1	307.0	329.3	93.2	9.5
Tor	1017.5	+0.9	22.7	+0.2	10.2	—0.6	16.4	17.0	—0.4	12.1	—0.7	53	— 3	—	—	—	9.7
Hurghada	1017.0	+0.6	23.1	+0.6	10.8	—0.9	17.0	16.6	—0.6	11.9	—0.7	54	— 1	—	—	—	11.7
Quseir	1017.4	+1.1	23.4	—0.7	14.8	—1.0	19.1	19.1	—0.8	13.7	—1.3	51	— 2	—	—	—	11.7

TABLE A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

DECEMPER — 1965

STATION	Maximum Temperature °C									Grass Min. Temp.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<— 5
Sallum	25.0	30	16.4	13	0	0	0	0	0	9.8	—	15.6	30	7.4	22	11	0	0	0
Mersa Matruh (A)	24.9	31	16.2	16	0	0	0	0	0	—	—	12.2	10	6.0	19	20	0	0	0
Alexandria (A)	23.8	31	16.5	16	0	0	0	0	0	—	—	14.2	7	4.8	22	14	1	0	0
Port Said (A)	23.6	10	15.4	16	0	0	0	0	0	11.6	—	18.0	1	9.9	16	1	0	0	0
El Arish	27.2	12	17.1	16	2	0	0	0	0	8.1	—	13.8	3	7.5	29	14	0	0	0
Ghazza	25.3	12	16.8	16	1	0	0	0	0	9.3	—	15.3	3	7.8	19	11	0	0	0
Tanta	25.7	31	16.5	16	1	0	0	0	0	—	—	12.4	3	5.8	31	24	0	0	0
Cairo (A)	27.4	31	17.6	13,16	1	0	0	0	0	—	—	13.8	3,12	6.1	19	9	0	0	0
Fayoum	25.5	31	17.3	13	2	0	0	0	0	5.0	—	13.0	3	5.3	23	25	0	0	0
Minya (A)	28.3	31	18.3	17	4	0	1	0	0	—	—	10.8	3	1.9	17	30	11	0	0
Assyout (A)	29.2	31	18.3	17	4	0	0	0	0	5.9	—	12.5	3	3.8	18	28	2	0	0
Luxor (A)	30.0	2	19.6	14	12	0	0	0	0	5.3	—	9.9	2	2.8	18	31	10	0	0
Aswan (A)	32.8	31	18.4	14	13	3	0	0	0	—	—	13.5	12	5.1	17,18	26	0	0	0
Siwa	26.4	31	17.8	13	1	0	0	0	0	3.6	—	9.4	9	1.6	17	31	13	0	0
Bahariya	28.9	31	17.4	13	2	0	0	0	0	4.9	—	11.7	1	1.7	17	30	7	0	0
Farafra	28.4	31	16.3	17	3	0	0	0	0	3.6	—	8.0	1	—0.7	17	31	17	1	0
Dakhla	32.6	31	18.4	14	6	1	0	0	0	—	—	6.6	4	–2.1	27	31	27	4	0
Kharga	31.7	31	19.2	14	8	1	0	0	0	3.7	—	13.6	3	3.0	15	29	12	0	0
Tor	28.0	12	19.5	14	4	0	0	0	0	—	—	18.1	12	5.8	18	19	0	0	0
Hurghada	27.1	3	19.6	17	6	0	0	0	0	9.6	—	14.1	1	7.7	27	12	0	0	0
Quseir	27.5	3	19.6	17	6	0	0	0	0	13.8	—	18.3	2	12.0	16	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

DECEMBER — 1965

Station	Mean Sky Cover (Oct)					Rainfall (mms)										
	00 U.T.	06 U.T.	12 U.T.	18 U T	Daily Mean	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
								Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	2.0	3.4	4.2	2.1	2.7	3.3	—15.8	1.7	5	4	2	2	0	0	0	0
Mersa Matruh (A)	1.3	4.0	4.4	2.5	3.0	7.8	—26.1	4.0	13	0	7	2	0	0	0	0
Alexandria (A)	3.7	5.0	4.6	3.9	4.1	21.4	—31.7	8.5	15	2	10	3	2	0	0	0
Port Said (A)	1.6	2.5	2.8	2.5	2.2	2.9	—16.0	2.9	16	1	1	1	0	0	0	0
El Arish	2.4	3.1	3.2	3.0	2.3	1.4	—22.2	1.4	16	0	1	1	0	0	0	0
Ghazza	2.3	3.4	3.9	3.1	2.4	17.0	—47.4	5.6	19	0	4	4	1	0	0	0
Tanta	—	2.4	3.1	0.9	—	0.9	— 9.1	0.4	15	0	3	0	0	0	0	0
Cairo (A)	1.2	3.5	3.9	1.5	2.3	0.6	— 7.4	0.6	15	0	1	0	0	0	0	0
Fayoum	—	2.6	2.6	1.8	—	0.0	— 4.6	0.0	—	0	0	0	0	0	0	0
Minya (A)	0.5	1.7	1.7	0.7	1.2	0.0	— 0.7	0.0	—	0	0	0	0	0	0	0
Assyout (A)	0.5	1.3	1.8	0.8	1.1	0.0	0.6	0.0	—	0	0	0	0	0	0	0
Luxor (A)	0.2	0.6	0.9	0.9	0.7	0.0	+ 0.1	0.0	—	0	0	0	0	0	0	0
Aswan (A)	0.2	1.1	1.5	0.7	0.9	0.0	— 0.2	0.0	—	0	0	0	0	0	0	0
Siwa	1.0	2.6	3.2	1.5	1.6	0.0	— 2.1	0.0	—	0	0	0	0	0	0	0
Bahariya	0.7	1.8	2.2	1.5	1.5	0.0	— 1.2	0.0	—	0	0	0	0	0	0	0
Farafra	—	1.3	1.4	1.2	—	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Dakhla	0.2	1.1	1.1	0.4	0.7	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Kharga	0.3	0.9	1.3	0.7	0.8	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Tor	0.6	1.9	2.0	1.2	1.4	0.0	— 3.7	0.0	—	0	0	0	0	0	0	0
Hurghada	0.5	1.0	1.4	1.1	0.9	0.0	— 2.2	0.0	—	0	0	0	0	0	0	0
Quseir	0.2	1.3	1.7	0.4	0.9	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0

TABLE A 4—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

DECEMBER—1965

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥1000 metres	Fog Vis < 1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis < 1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sallum	2	0	0	0	0	0	0	0	0	0	6	1	0	12	1
Mersa Matruh (A)	7	0	0	0	0	0	0	0	0	0	4	2	1	9	2
Alexandria (A)	10	0	0	1	0	1	5	3	0	0	1	0	0	3	2
Port Said (A)	1	0	0	0	0	0	1	0	0	0	1	0	0	11	1
El Arish	1	0	0	0	0	0	8	0	0	0	5	0	0	8	3
Ghazza	4	0	0	0	0	0	0	0	2	0	5	0	1	10	2
Tanta	3	0	0	0	0	0	1	0	0	0	0	0	0	—	—
Cairo	1	0	0	0	0	0	3	3	11	0	10	0	0	16	1
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	6	1	3	0	1	0	0	22	0
Assyout (A)	0	0	0	0	0	0	4	0	10	0	2	0	0	25	0
Luxor (A)	0	0	0	0	0	0	0	0	2	0	1	0	0	29	0
Aswan (A)	0	0	0	0	0	0	0	0	1	0	1	0	0	24	0
Siwa	0	0	0	0	0	0	0	0	2	0	4	0	0	17	0
Bahariya	0	0	0	0	0	0	0	0	0	0	2	0	0	20	0
Farafra	0	0	0	0	0	0	0	0	0	0	3	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	1	0	0	0	0	27	0
Kharga	0	0	0	0	0	0	0	0	1	0	1	0	0	27	0
Tor	0	0	0	0	0	0	0	0	1	0	1	0	0	22	0
Hurghada	0	0	0	0	0	0	0	0	0	0	2	0	0	27	0
Quseir	0	0	0	0	0	0	1	0	1	0	2	0	0	25	0

TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

DECEMBER — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												All directions
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	
Sallum	10	8	0	1—10	11	25	22	19	7	19	19	25	17	53	41	15	273
				11—27	0	0	1	0	0	7	12	66	77	195	89	6	453
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**11**	**25**	**23**	**19**	**7**	**26**	**31**	**91**	**94**	**248**	**130**	**21**	**726**
Mersa Matruh (A)	0	1	0	1—10	25	10	14	14	18	30	29	42	34	57	27	10	319
				11—27	11	0	0	1	4	15	22	45	87	148	49	42	424
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**36**	**10**	**14**	**15**	**22**	**54**	**51**	**87**	**121**	**205**	**76**	**52**	**743**
Alexandria (A)	57	0	0	1—10	19	72	44	43	50	29	22	53	10	28	22	38	430
				11—27	9	13	3	0	1	0	4	59	57	30	43	8	257
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**28**	**85**	**47**	**43**	**51**	**29**	**26**	**142**	**67**	**58**	**65**	**46**	**687**
Port Saird	10	1	0	1—10	32	52	37	31	39	30	26	53	59	32	13	19	423
				11—27	5	21	14	8	1	6	4	88	130	23	5	5	310
				28—47	0	0	0	0	0	0	0	0	0	1	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**37**	**73**	**51**	**39**	**40**	**36**	**30**	**141**	**189**	**55**	**18**	**24**	**733**
El Airsh	28	0	1	1—10	32	32	19	18	61	150	42	162	42	37	28	28	651
				11—27	0	0	0	0	0	0	0	15	22	22	4	0	63
				28—47	0	0	0	0	0	1	0	0	0	0	0	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**32**	**32**	**19**	**18**	**61**	**151**	**42**	**177**	**64**	**59**	**32**	**28**	**715**
Ghazza	1	77	15	1—10	21	22	16	32	64	169	66	22	22	18	28	34	514
				11—27	0	1	0	0	5	41	34	25	11	9	9	2	137
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**21**	**23**	**16**	**32**	**69**	**210**	**100**	**47**	**33**	**27**	**37**	**36**	**651**
Tanta	48	12	1	1—10	49	54	55	34	96	15	21	168	37	67	18	30	645
				11—27	0	0	0	0	3	0	0	12	12	6	4	1	38
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**49**	**54**	**56**	**34**	**99**	**15**	**21**	**180**	**49**	**73**	**22**	**31**	**683**
Cairo (A)	22	0	34	1—10	6	37	38	66	55	9	15	105	4	24	25	30	414
				11—27	6	5	29	8	2	1	5	179	6	24	8	7	274
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**6**	**42**	**67**	**74**	**57**	**10**	**20**	**284**	**10**	**48**	**33**	**37**	**688**
Fayoum	47	19	31	1—10	146	36	3	8	30	27	161	114	2	49	36	30	642
				11—27	0	1	0	0	3	0	0	1	0	0	0	0	5
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**146**	**37**	**3**	**8**	**33**	**27**	**161**	**115**	**2**	**49**	**36**	**30**	**647**

TABLE A 5. (*contd.*)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

DECEMBER — 1965

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurences of wind blowing from the ranges of directions indicated												
					345 / 014	015 / 044	045 / 074	075 / 104	105 / 134	135 / 164	165 / 194	195 / 224	225 / 254	255 / 284	285 / 314	315 / 344	All directions
Minya	42	8	56	1—10	161	12	4	3	19	99	44	44	18	30	55	119	608
				11—27	13	0	0	0	0	0	1	1	0	7	1	7	30
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**174**	**12**	**4**	**3**	**19**	**99**	**45**	**45**	**18**	**37**	**56**	**126**	**638**
Asyout	7	1	22	1—10	0	11	11	16	30	26	15	48	129	202	107	34	629
				11—27	5	2	0	0	6	6	3	11	8	17	24	3	85
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**5**	**13**	**11**	**16**	**36**	**32**	**18**	**59**	**137**	**219**	**131**	**37**	**714**
Luxor	42	14	19	1—10	46	52	58	39	34	58	73	72	24	49	61	96	662
				11—27	0	0	0	0	0	0	0	0	0	0	5	2	7
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**46**	**52**	**58**	**39**	**34**	**58**	**73**	**72**	**24**	**49**	**66**	**98**	**669**
Aswan	1	3	2	1—10	310	210	10	1	3	3	4	12	0	15	9	50	627
				11—27	61	39	0	0	0	0	0	2	1	0	1	7	111
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**371**	**249**	**10**	**1**	**3**	**3**	**4**	**14**	**1**	**15**	**10**	**57**	**738**
Siwa	105	0	0	1—10	0	7	12	41	54	37	23	56	15	172	42	36	495
				11—27	0	0	0	3	3	10	7	17	7	51	39	7	144
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**0**	**7**	**12**	**44**	**57**	**47**	**30**	**73**	**22**	**223**	**81**	**43**	**639**
Dakhla	16	15	12	1—10	25	31	28	34	7	33	45	67	39	143	148	99	699
				11—27	0	0	0	0	0	0	0	0	0	0	1	1	2
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**25**	**31**	**28**	**34**	**7**	**33**	**45**	**67**	**39**	**143**	**140**	**100**	**701**
Tor	1	1	0	1—10	31	211	88	17	9	20	15	9	0	20	75	30	527
				11—27	42	2	0	0	0	2	2	1	0	1	76	88	214
				28—47	0	0	0	0	0	0	0	0	0	0	1	0	1
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**73**	**213**	**88**	**17**	**9**	**22**	**17**	**10**	**2**	**21**	**152**	**118**	**742**
Hurghada	9	0	2	1—10	13	5	13	12	10	2	8	10	5	60	60	19	217
				11—27	56	4	4	0	7	7	0	2	1	66	220	143	510
				28—47	1	0	0	0	0	0	0	0	0	0	0	5	6
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**70**	**9**	**17**	**12**	**17**	**9**	**8**	**12**	**6**	**126**	**280**	**167**	**733**
Quseir	0	4	9	1—10	26	26	22	20	12	6	5	9	8	132	128	21	415
				11—27	126	4	8	0	0	0	1	0	0	43	58	76	316
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**152**	**30**	**30**	**20**	**12**	**6**	**6**	**9**	**8**	**175**	**186**	**97**	**731**

UPPER AIR CLIMATOLOGICAL DATA

Table B 1.— MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

DECEMBER — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 0000 U.T.	Surface	30	*1018mb	*1027mb	*1006mb	30	11.3	15.6	8.0	30	6.8
	1000	30	181	252	79	30	13.3	16.5	9.9	30	7.7
	850	30	1534	1601	1440	30	6.7	17.2	2.2	26	— 3.2
	700	30	3114	3194	3016	30	0.2	6.3	— 8.0	13	—12.5
	600	30	4332	4434	4211	30	— 7.1	— 1.8	—15.6	10	—19.7
	500	30	5730	5876	5566	30	—16.3	—11.0	—25.6	8	—25.9
	400	30	7369	7526	7148	30	—29.1	—24.4	—37.5	8	—34.2
	300	30	9366	9554	9117	30	—43.4	—39.4	—48.6	—	—
	200	26	12068	12173	11743	26	—58.6	—52.2	—64.4	—	—
	150	17	13799	13935	13581	17	—63.1	—58.0	—68.0	—	—
	100	13	16267	16364	16094	13	—66.5	—61.4	—73.4	—	—
	70	5	18444	18490	18400	5	—67.3	—64.0	—70.4	—	—
	60	5	19376	19444	19335	5	—66.9	—64.3	—71.3	—	—
	50	4	20496	20569	20456	4	—63.9	—60.8	—68.7	—	—
	40	3	21858	21874	21844	3	—62.5	—60.7	—65.7	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	30	*1002mb	*1008mb	*993mb	31	11.9	16.9	8.2	31	4.9
	1000	26	184	206	84	26	11.8	16.8	7.9	25	5.9
	850	31	1506	1553	1434	31	6.4	13.7	0.4	27	— 4.9
	700	31	3083	3163	2977	31	0.8	5.7	— 6.7	8	—17.5
	600	31	4306	4404	4171	31	— 6.1	— 1.0	—11.8	3	—21.4
	500	31	5708	5829	5572	31	—15.7	—11.4	—20.8	5	—26.0
	400	31	7356	7495	7237	31	—27.8	—20.4	—34.1	8	—33.0
	300	31	9356	9516	9208	31	—42.8	—36.7	—48.1	—	—
	200	31	11992	12143	11827	31	—58.9	—53.7	— 64.1	—	—
	150	31	13773	13930	13661	31	—63.7	—58.2	— 68.9	—	—
	100	31	16230	16422	16017	31	—68.1	—62.6	—72.5	—	—
	70	26	18450	18620	18160	26	—68.3	—62.6	—72.6	—	—
	60	23	19288	19414	19083	23	—66.7	—61.6	—72.8	—	—
	50	20	20396	20431	20183	20	—64.2	—54.7	—68.2	—	—
	40	18	21769	21903	21543	18	—61.0	—57.2	—66.2	—	—
	30	17	23583	23713	23313	17	—58.2	—53.5	—62.0	—	—
	20	13	26121	26336	25884	3	—55.9	—48.5	—60.3	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 U.T.	Surface	29	*995mb	*998mb	*989mb	29	11.2	15.5	7.8	29	3.0
	000	29	148	188	100	—	—	—	—	—	—
	850	29	1513	1549	1470	29	12.0	17.3	5.0	19	— 5.5
	700	29	3119	3173	3055	29	5.6	8.8	0.3	—	—
	600	29	4332	4431	4287	29	— 0.8	2.2	— 4.8	—	—
	500	29	5795	5876	5701	29	—10.5	— 7.3	—17.6	1	—24.9
	400	29	7476	7558	7434	29	—22.0	—17.7	—27.3	2	—27.8
	300	27	9428	9640	9382	27	—37.0	—32.5	—41.2	1	—28.7
	200	27	12217	12351	12063	27	—56.3	—53.2	—59.0	—	—
	150	23	14010	14152	13853	23	—60.6	—58.8	—69.2	—	—
	100	22	16412	16620	16253	22	—71.8	—56.7	—76.5	—	—
	70	11	18513	18[illegible]0	18348	11	—72.8	—67.6	—81.4	—	—
	60	6	19405	19568	19181	6	—67.2	—62.5	—72.0	—	—
	50	6	20514	20662	20293	6	—63.4	—52.8	—70.4	—	—
	40	1	21839	—	—	1	—63.4	—	—	—	—
	30	1	23719	—	—	1	—59.6	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N — Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the immedeondes

UPPER AIR CLIMATOLOGICAL DATA

Table B 1. (*contd.*)—MONTHLY MEANS, ABSOLUTE HIGHER AND LOWER VALUES OF ALTITUDE, AIR TEMPERATURE AND DEW POINT AT STANDARD AND SELECTED PRESSURE SURFACES

DECEMBER — 1965

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	31	*1017mb	*1027mb	*1004mb	31	19.0	24.6	16.3	31	8.3
	1000	31	175	255	62	31	17.5	24.0	14.0	31	7.3
	850	31	1534	1609	1422	31	7.1	17.5	1.3	26	— 2.9
	700	31	3114	3196	2978	31	0.7	6.3	— 7.0	15	—14.5
	600	31	4336	4434	4168	31	— 5.7	0.3	—14.5	12	—20.5
	500	31	5736	5862	5528	31	—15.6	—10.8	—22.5	8	—25.4
	400	31	7380	7533	7160	31	—27.6	—23.1	—33.8	6	—33.2
	300	30	9396	9573	9206	30	—42.8	—37.5	—49.8	1	—49.3
	200	28	12033	12226	11839	28	—58.0	—50.5	—62.6	—	—
	150	27	13828	13987	13663	27	—61.7	—55.6	—67.5	—	—
	100	17	16327	16430	16198	17	—65.2	—57.7	—73.0	—	—
	70	14	18497	18630	18330	14	—64.9	—61.0	—77.8	—	—
	60	9	19470	19582	19400	9	—63.8	—58.0	—67.2	—	—
	50	7	20614	20738	20545	7	—58.7	—54.8	—63.5	—	—
	40	4	22049	22161	21958	4	—55.0	—50.3	—60.4	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	*1001mb	*1008mb	*993mb	31	19.7	26.4	16.7	31	5.9
	1000	31	147	208	68	31	19.0	22.7	16.5	21	6.0
	850	31	1515	1564	1438	31	9.1	17.7	3.4	26	— 3.2
	700	31	3106	3188	2998	31	3.2	9.2	— 6.9	4	—17.7
	600	31	4339	4442	4200	31	— 3.2	2.6	— 8.4	2	—20.0
	500	31	5758	5885	5615	31	—13.1	— 7.8	—20.2	5	—23.2
	400	31	7415	7574	7250	31	—26.0	—21.0	—32.6	7	—33.9
	300	31	9435	9618	9228	31	—41.0	—37.6	—48.6	1	—47.9
	200	31	12094	12273	11889	31	—57.1	—50.0	—62.0	—	—
	150	30	13891	14059	13723	30	—61.5	—55.9	—64.0	—	—
	100	30	16370	16595	16208	30	—66.6	—61.0	—70.4	—	—
	70	27	18563	18720	18440	27	—67.2	—61.3	—75.3	—	—
	60	24	19459	19600	19358	24	—65.1	—57.9	—70.7	—	—
	50	22	20578	20696	20456	22	—56.1	—62.1	—68.2	—	—
	40	18	21962	22043	21856	18	—58.2	—50.2	—61.7	—	—
	30	14	23799	23957	23669	14	—54.4	—47.2	—60.6	—	—
	20	3	26429	26502	26365	3	—51.1	—48.8	—52.6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 1200 U.T.	Surface	31	*992mb	*996mb	*988mb	31	33.6	34.0	17.5	31	4.1
	1000	31	136	159	87	—	—	—	—	—	—
	850	31	1523	1554	1483	31	13.7	19.8	7.9	17	— 2.0
	700	31	3137	3189	3100	31	7.1	10.0	3.3	—	—
	600	31	4388	4455	4344	31	0.2	4.8	— 5.8	—	—
	500	30	5824	5908	5767	30	— 9.0	— 3.9	—15.0	1	—24.8
	400	30	7513	7611	7417	30	—20.8	—15.6	—26.0	—	—
	300	30	9544	9695	9447	30	—35.9	—30.9	—44.5	—	—
	200	26	12173	12439	12113	28	—54.9	—52.4	—57.8	—	—
	150	26	13948	14245	13923	29	—63.9	—39.4	—69.8	—	—
	100	21	16373	16720	16398	21	—71.0	—66.2	—74.2	—	—
	70	6	18532	18680	17921	6	—69.7	—66.0	—73.0	—	—
	60	4	19602	19632	19568	4	—65.1	—62.7	—66.8	—	—
	50	4	20722	20764	20686	4	—61.2	—59.6	—63.6	—	—
	40	3	22111	22170	22070	3	—58.0	—56.0	—60.7	—	—
	30	3	23952	24025	30889	3	—51.2	—49.6	—53.9	—	—
	20	1	26707	—	—	1	—44.5	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE; THE HIGHEST WIND SPEED IN THE UPPER AIR

DECEMBER — 1965

	Station	Freezing level									First Tropopause									Highest wind speed			
		Mean			Highest			Lowest			Mean			Highest			Lowest						
		Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
		(N)	(N)	(N)							(N)	(N)	(N)										
0000 UT	M. Matruh (A)	3064 (30)	707 (30)	- 8.8 (14)	4140	820	—	1740	822	- 2.0	12390 (20)	196 (20)	-61.1 (20)	17200	82	-68.2	9680	280	-50.9	11300	237	300	107
0000 UT	Helwan . . .	3135 (31)	697 (31)	- 8.0 (10)	4200	611	—	1550	828	- 4.0	13691 (30)	156 (30)	-65.3 (30)	16218	100	-68.8	11060	226	-56.7	10630	241	290	150
0000 UT	Aswan . .(A)	4194 (29)	616 (29)	— —	4780	573	—	3530	662	—	15184 (17)	126 (17)	-69-1 (17)	18160	75	-74.5	13440	164	-67.2	11890	209	270	135
		(N)	(N)	(N)							(N)	(N)	(N)										
1200 U.T.	M. Matruh (A)	3204 (31)	695 (31)	-13.5 (17)	4390	596	—	1850	810	- 9.6	12444 (25)	190 (25)	-61.1 (25)	14700	132	-66.2	11000	227	-56.0	8800	321	210	196
1200 U.T.	Helwan . . .	3670 (31)	658 (31)	-13.7 (3)	4760	574	—	1810	813	—	13031 (31)	178 (31)	-61.3 (31)	16200	139	-61.2	8660	328	-41.2	11160	230	260	149
1200 U.T.	Aswan . .(A)	4015 (30)	603 (30)	— —	5110	553	—	3760	647	—	15126 (19)	127 (19)	-68.5 (19)	18440	73	-75.7	13090	151	-69.7	11400	226	240	136

N = The number of cases the element has been observed during the month.

TABLE B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

MERSA MATRUH (A)— DECEMBER 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000 –360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	0	—	0	—	0	—	0	—	0	—	3	9	2	4	7	8	5	15	13	12	0	—	0	—	0	30	11
	1000	0	—	0	—	1	7	1	5	2	15	3	20	0	—	4	16	3	18	6	17	5	14	2	10	1	28	15
	850	1	25	1	10	2	9	1	7	1	20	1	9	1	21	1	12	4	17	3	28	4	27	2	17	0	22	18
	700	0	—	0	—	0	—	0	—	0	—	0	—	1	11	1	14	2	32	0	—	2	21	1	28	0	7	23
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	8	0	—	2	24	0	—	0	3	19
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	36	0	—	2	32	0	—	0	3	33
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	0	—	1	55	1	35	0	3	46
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	88	1	81	0	—	0	2	84
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	89	0	—	0	1	89
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	6	10	1	5	1	10	2	11	1	8	1	10	2	12	2	19	3	19	4	19	4	21	4	17	0	31	15
	1000	1	11	1	7	0	—	2	10	0	—	2	12	1	6	1	7	4	27	4	19	7	26	6	14	1	30	18
	850	3	7	1	4	0	—	0	—	0	—	0	—	3	13	5	14	3	27	5	21	3	32	5	21	1	29	18
	700	0	—	1	15	0	—	0	—	0	—	1	5	0	—	4	26	5	35	7	33	5	32	4	24	0	27	29
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	52	6	44	8	38	5	42	3	21	0	23	39
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	66	4	60	7	55	6	43	1	53	0	20	54
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	127	2	46	8	56	4	52	0	—	0	15	61
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	60	7	58	2	66	0	—	0	10	60
	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month

TN = The total number of cases the wind has been obeserved for all directions during the month

Table B 3.(*contd*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

HELWAN — DECEMBER 1965

Item	Pressure Surface (Millibar)	Wind between ranges of direction (000 – 360)°																								Number of Calm winds	Total Number of Observations (T N)	Mean Scalar wind Speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	1	2	4	11	8	10	0	—	3	4	6	7	1	6	1	4	0	—	0	—	0	—	0	—	7		6
	1000	2	9	5	20	8	15	1	9	0	—	5	6	1	6	1	4	1	1	0	—	0	—	2	10	0	26	12
	850	2	19	3	11	4	11	0	—	0	—	1	4	3	8	5	19	5	31	3	29	4	16	1	21	0	31	18
	700	2	10	1	16	1	10	1	7	0	—	0	—	1	11	4	12	7	34	4	37	7	30	3	32	0	31	26
	600	1	7	0	—	1	11	0	—	0	—	0	—	0	—	4	36	9	42	3	21	9	37	4	28	0	31	34
	500	0	—	1	14	1	18	0	—	0	—	0	—	0	—	2	56	7	43	10	37	6	44	2	36	0	29	40
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	47	8	42	10	49	1	37	0	26	46
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	60	8	60	9	57	0	—	0	20	59
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	85	7	73	2	42	1	58	0	11	67
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	83	6	74	3	62	0	—	0	10	71
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	39	0	—	0	—	0	3	39
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	24	0	—	0	—	0	1	34
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	21	0	—	0	—	0	1	21
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	—	—	1	19	0	—	0	—	0	—	0	1	19
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	3	9	2	17	2	15	0	—	0	—	0	—	3	10	9	7	1	23	5	7	2	10	1	12	3	31	9
	1000	2	10	3	28	3	16	1	18	1	30	0	—	2	10	6	7	0	—	2	6	0	—	1	10	0	21	13
	850	4	14	0	—	1	16	3	10	0	—	0	—	2	18	6	15	5	14	6	17	3	12	1	18	0	31	15
	700	4	17	1	11	0	—	0	—	0	—	0	—	3	16	4	19	3	37	6	26	7	34	3	16	0	31	24
	600	3	16	0	—	0	—	0	—	0	—	0	—	2	22	5	31	2	58	9	31	9	43	1	40	0	31	35
	500	1	4	0	—	0	—	0	—	0	—	0	—	0	—	3	43	7	39	10	45	6	45	3	24	0	30	40
	400	1	16	0	—	0	—	0	—	0	—	0	—	0	—	1	74	6	57	12	44	5	61	2	32	0	27	49
	300	1	37	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	60	9	63	4	58	2	73	0	21	6
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	60	8	90	4	82	1	40	0	16	8
	150	1	—	0	—	0	—	0	—	0	—	0	—	0	—	1	70	1	50	6	64	3	58	0	—	0	11	6
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	115	5	55	2	52	0	—	0	8	6
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	47	1	47	0	—	0	4	4
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	97	2	29	0	—	0	—	0	3	5
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	28	0	—	1	17	0	2	2
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	26	0	—	1	8	0	2	1
	30	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	20	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	0	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element thas been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (*contd.*)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.

ASWAN (A) — DECEMBER 1965

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345/014		015/044		045/074		075/104		105/134		135/164		165/194		195/224		225/254		255/284		285/314		315/344				
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	20	8	2	6	0	—	1	10	0	—	0	—	0	—	0	—	0	—	1	6	0	—	3	10	1	28	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	3	10	5	11	3	10	0	—	1	20	1	10	4	9	0	—	1	11	3	10	2	18	5	12	0	28	11
	700	1	13	1	3	0	—	1	11	0	—	0	—	3	8	0	—	5	17	6	19	6	12	5	17	0	28	14
	600	1	14	2	10	0	—	0	—	0	—	0	—	1	21	0	—	5	27	9	25	4	23	6	13	0	28	21
	500	0	—	2	10	0	—	0	—	0	—	0	—	0	—	1	28	7	43	10	30	4	37	4	17	0	28	31
	400	1	20	0	—	0	—	0	—	0	—	0	—	0	—	1	45	9	47	12	50	5	32	0	—	0	28	44
	300	1	41	0	—	0	—	0	—	0	—	0	—	0	—	1	90	7	73	13	69	4	40	0	—	0	26	65
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	95	12	79	3	66	1	41	0	26	78
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	64	12	75	4	66	0	—	0	20	71
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	28	3	37	4	64	4	40	0	—	0	12	46
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	10	0	—	0	—	0	—	0	1	10
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	18	8	2	4	0	—	0	—	0	—	0	—	0	—	0	—	1	10	2	4	0	—	4	8	4	31	7
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	4	12	2	10	3	12	1	9	2	18	1	15	1	5	7	11	2	2	3	8	2	12	3	8	0	31	11
	700	1	10	1	6	1	13	2	12	0	—	2	11	1	4	3	17	3	15	6	15	6	21	5	11	0	31	14
	600	0	—	1	10	1	3	1	17	0	—	1	29	1	5	3	20	7	22	8	21	6	24	2	12	0	31	20
	500	0	—	1	20	1	19	0	—	0	—	1	23	0	—	5	25	7	35	8	32	7	32	0	—	0	30	30
	400	0	—	1	16	0	—	0	—	0	—	0	—	1	8	1	29	11	51	10	48	5	50	1	12	0	30	45
	300	1	27	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	61	15	68	4	51	1	41	0	29	61
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	77	10	87	9	62	0	—	0	26	74
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	66	6	68	8	71	5	58	1	77	0	21	67
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	52	6	39	3	41	2	50	0	—	0	13	41
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	20	0	—	0	—	0	—	0	1	20
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR—DECEMBER 1965

The month was slightly cooler and drier than normal. The mean daily air temperature at 2 metres above ground was 0.3°C below normal, while total rainfall was 25.6mm below normal. Mean daily relative humidity was about normal. The daily maximum values of air temperatures between 1st and 24th of the month were generally below normal. A heat wave occurred in the last two days of the month with peak on the 31st.

The extreme maximum soil temperatures from the surface down to 1 m. depth were lower than the corresponding values of December 1964 by 0.7 to 2.8°C. The extreme lminimum soil temperatures from the surface down to 50cm depth were lower than the corresponding values of last December by 0.4 to 3.0°C. The extreme minimum value at 100 cm depth was 0.1°C higher than the corresponding value of December 1964.

The mean daily wind speed at 2m. above ground was 0.2 m/sec higher than the corresponding value of December 1964. The mean daily values of Piche evaporation and water pan evaporation were higher than the corresponding values of last December by 2.6 and 0.85 mm respectively. The total actual duration of bright sunshine was 15.2 hours higher than the correspoi dirg value of December 1964.

TAHRIR—DECEMBER 1965

Compared with December 1964, this month was drier as regards relative humidity and total rainfall. Mean daily air temperature at 2m. above ground was the same as the corresponding value of December 1964, while mean relative humidity and total rainfall were lower by 9% and 20.2 mm respectively than the corresponding values rof last December. The month was characterised by a cold wave prevailing during the period 12th to 26th ; and a warm day on the 31st when the absolute maximum air temperature occurred.

The extreme maximum soil temperatures from the surface down to 1 m. depth were lawer than the corresponding values of December 1964 by 0.8 to 1.8°C except at 1 and 20cm depths where the values were higher by 0.1 and 0.2°C respectively. The extreme minimum soil temperatures at depths between 0.3 and 20 cm inclusive were higher than the corresponding values of last December by 0.1 to 1.1°C ; at deeper layers the values were lower than the corresponding values of December 1964 by 0.3 to 1.1°C.

The mean daily wind speed at 2m. above ground was 0.3 m/sec higher than the corresponding value of December 1964. The mean daily values of Piche evaporation and water pan evaporation were higher than the corresponding values of last December by 3.1 and 1.40 mm respectively . The total actual duration of bright sunshine was 34.9 hours higher than that of December 1964.

GIZA—DECEMBER 1965

The month was slightly cooler and drier than normal. The mean daily values of air temperature and relative humidity at 2 metres above ground were below normal by 0.2°C and 4% respectively. Total rainfall was 5.8 mm below normal.

The daily maximum values of air temperature were nearly all below normal except for the last three days when it warmed steadily; the maximum deviations from normal were -5.2°C on 13th and +7.8°C on 31st.

The minimum air temperature at 5 cm above grass fell below 0°C on three days. The duration in hours of air temperature below 0°C, - 1.0°C and -2.0°C on these days together with the actual value of minimum air temperatures are given in the following table.

Date	Min. air Temperaturs °C	Duration in hours (to the nearest half) of air temp. below the following Limits.		
		0°C	-1°C	- 2°C
29	— 1.0	3.0	0	0
30	— 1.4	1.5	1.0	0
31	— 0.3	0	0	0

The extreme maximum soil temperatures at 0.3 and lcm depths were higher than the corresponding values of December 1964 by 0.8 and 2.8°C respectively, while the values at 2.5 and 20cm depths were 2.1, 0.5 and 0.1°C lower than the coressponding values of last December. The extreme maximum soil temperature at 10.50 and 100cm depths were equal to the corresponding values of December 1964. The extreme minimum soil temperature at 0.3cm depth was equal to the corresponding value of December 1964. The extreme minima at 1, 5, 10, 20 and 50cm depths were lower than the corresponding values of last December by amounts varying between 0.3°C at 50cm depth and 1.5°C at 5cm depth. The extreme minima at 2 and 100cm depths were higher than the corresponding values of December 1964 by 1.3 and 0.1°C respectively.

The mean daily wind speed at 2 metres above ground was 0.1 m/sec higher than the corresponding value of December 1964. Mean daily values of Piche evaporation, water pan evaporation and potential evaporation were 1.3, 0.74 and 0.1 mm higher while mean daily potential evapotranspiration was 0.1 mm lower than the corresponding values of laat December. The total possible duration of bright sunshine was 28.8 hours higher than that of December 1964.

KHARGA—DECEMBER 1965

This month was slightly cooler than normal. The mean daily air temperatue at 2m. above ground was 0.2°C below normal. Total rainfall was zero or 0.3 mm below normal. The daily maximum values of air temperatures between 1st and 27th of the month were generally below normal. A heat wave occurred on the last two days of the month with peak on the 31st associated with the absolute maximum air temperature for the month and also the highest value of mean daily piche evaporation. The absolute minimum air temperature at 5cm over dry field was 0.5°C against 1.2°C for December 1964.

The extreme maximum soil temperatures at different depths were generally lower than the corresponding values for December 1964; the differences varied between -3.0°C at 0.3 cm depth and +0.1°C at 100 cm depth. The extreme minimum soil temperatures at depths 0.3, 10,20,50 and 100 cm depths were lower than the corresponding values of last December, while the values at 1,2 and 5 cm depths were higher than the corresponding values of December 1964; the differenes varied between -1.1°C at 20 cm depth and +1.1°C at 5 cm depth.

The mean daily wind speed at 2 metres height was 0.1 m/sec lower than the corresponding value of December 1964. Mean daily values of Piche evaporation and Class A pan evaporation were 4.5 mm and 1.16 mm lower than the corresponding values of last December. Total actual duration of bright sunshine was 5.1 hours higher than the corresponding value of December 1964.

TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND
DECEMBER — 1965

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values										
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	—5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
El Kasr	19.9	9.3	14.2	12.2	16.9	24.0	24.0	24.0	21.2	9.6	1.3	0.03	0.0	0.0	0.0	0.0
Tahrir	21.4	8.6	14.2	12.0	17.1	24.0	24.0	24.0	17.4	8·7	1.9	0.1	0.0	0.0	0.0	0.0
Giza	21.0	8.1	13.9	12.0	16.4	24.0	24.0	24.0	19.2	9.3	2.0	0.1	0.0	0.0	0.0	0.0
Kharga	23.4	6.2	14·7	11.7	18.5	24.0	24.0	23.5	18.1	11.1	5.5	0.8	0.0	0.0	0.0	0.0

TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND, ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS
DECEMBER — 1965

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr	25.4	31	16.1	16	12·0	27	5.6	19	3.1	19	—	—
Tahrir	28.6	31	19.9	14	12.5	3	5.6	29	3.2	19	—	—
Giza	29.3	31	17.4	13	10.4	2	4.8	30	—0.7	30	—1.4	30
Kharga	31.7	31	19.2	14	13.6	3	3.0	15	0.5	27	—	—

TABLE C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY, VAPOUR PRESSURE AT 2 METRES, EVAPORATION & RAINFALL
DECEMBER — 1965

STATION	Soar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation (mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours 90%	Duration in hours > 80%	Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	Date
El Kasr	220.2	220.2	314·5	70	—	—	71	51	22	30	8.0	8.4	12.2	9	4.6	26	11.0	5.05	8.6	5.3	1
Tahrir	308.6	234.7	316.6	75	4.2	7.7	67	45	23	12	8.0	8.0	13.4	2	4.1	25	8.2	4.00	0.2	0.2	1
Giza.	284.6	235.8	317.4	74	2.7	6.3	67	44	25	31	8.7	7.7	12.1	2	4.9	13	7.2	3.33	0.1	0.1	1
Kharga	325.4	307.0	329.3	93	0	0.2	48	31	17	3	5.7	6.3	10.3	31	1.5	5	12.2	5.91	0.0	0.0	-

Table C 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms) IN DIFFERENT FIELDS

DECEMBER — 1965

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr	H	26.0	24.9	23.6	20.8	19.0	16.6	17.2	19.6	21.8	—	—	—	—	—	—	—	—	—	—	—
	L	4.0	5.8	6.4	7.4	9.1	11.7	14.6	17.3	20.1	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	28.8	30.0	25.5	24.5	22.3	20.4	19.3	21.1	23.9	25.1	—	—	—	—	—	—	—	—	—	—
	L	5.1	5.1	5.8	8.4	9.9	12.2	14.9	17.8	21.1	23.0	—	—	—	—	—	—	—	—	—	—
Giza	H	36.0	34.8	30.1	24.6	21.8	21.3	22.8	25.2	26.9	27.1	24.3	23.6	21.0	18.9	18.0	17.5	19.1	21.0	23.2	—
	L	2.7	3.3	5.6	8.7	12.9	16.8	19.1	21.9	24.9	26.3	3.0	6.1	6.1	8.9	10.0	12.8	15.5	17.8	21.4	—
Kharga	H	37.0	33.0	30.2	28.0	23.4	22.4	24.2	26.7	29.0	29.5	—	—	—	—	—	—	—	—	—	—
	L	3.0	5.0	6.0	8.3	13.4	16.7	20.4	23.4	27.0	28.6	—	—	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

DECEMBER — 1965

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots at 10 metres)	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 konts	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr	4.4	3.8	5.1	—	—	—	—	—	—	—	—	—
Tahrir	2.7	2.0	3.6	27	19	7	2	0	0	0	39	13
Giza	2.2	1.8	2.9	26	11	3	0	0	0	0	29	16
Kharga	2.7	1.9	3.7	—	—	—	—	—	—	—	—	—

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