UNITED ARAB REPUBLIC

MONTHLY WEATHER REPORT

VOLUME 9 NUMBER 2

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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 Meteorological Department issues several reports and publications on weather, clmate and agrometeorology. The principal publications are described on this page.

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

THE DAIDY WEATHER REPORT

This report is printed daily in the Meteorological Department. It eontains surface and upper air observations carrid 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 cl arts at 00 and 12 U.T. and two upper air charts for the standard isobaric sufaces 700 & 500 mbs. at both 00 and 12 U.T.

In complianee with resolution 8 (EC-XIII) of WMO, foreign upper air dato 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 toble 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 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 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 1966

Generally cold and light rainy associated with scattered thunderstorms in the north; dry, rather warm day time and cold night time elsewhere. Widespread rising dust between 13th and 15th. Frequent early morning mist and fog Delta, Canal and Cairo areas.

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was cold intervened with two warm intervals of short durations (13th — 15th & 23rd — 25th) in the northern parts of the Republic where rain was light/moderate in general. As an exception heavy showers fell over scattered localities in east of the Mediterranean coast during the 1st week and over west of the Mediterranean coast on the 26th. Rain was associated with thunderstorms over scattered localities on the 1st & 26th in particular. Rain penetrated inland south wards as far as Beni Suef on the 1st & 7th and attained Asyout on the 27th. The monthly rain was subnormal in general with the exception of few scattered localities where it was abnormally high.

Occasional rising sand occurred over scattered localitis for few days and was rather widespread between the 13th & 15th. Frequent early morning mist & fog developed over many scattered localities of the Delta, Canal & Cairo areas.

The prevailing weather was generally dry, rainless, rather warm daytime & cold nighttime over the middle & southern parts.

PRESSURE DISTRIBUTION

The prevailing pressure distributions over the surface map this month can be summarized in the following pressure systems :

— The Atlantic anticyclonic ridge over West Europe & West Mediterranean and its extension eastwards through Mediterranean and North Africa.

— The Siberian anticyclonic ridge over South west Russia and its extension southward through Asia Minor & East Mediterranean.

— The travelling Atlantic deep low pressure systems through Urasia.

— The transitory Mediterranean secondary depressions·

— The Sudan trough of low pressure.

The prevailing pressure distributions in the 700 & 500 mb upper air charts were confined in the following upper systems :

(1) Two deep upper low pressure systems one over North Russia and the other over North Atlantic.

(2) Transitory Minor upper troughs in (middle atitudes) between latitudes 30°N & 45°N

(3) Quasi stationary upper high pressure belt over the subtropical latitudes.

During this moth five travelling secondary upper troughs of moderate intensity were distinguished and passed through East Mediterranean round the 1st, 7th, 16th, 19th & 27th

The first two upper troughs were secondary to the deep upper lows over North Russia while the last three troughs generally developed over west Europe & west Mediterranean as secondaries to the deep upper lows over Atlantic and proceeded eastwards.

Over the surface maps six Mediterranean secondary depressions has been marked. The first secondary depression was stationary over Cyprus between the 1st day & the 3rd, then it proceeded rapidly eastwards. The second secondary depression appeard at the north arm of the Sudan low on the 4th and traversed East Mediterranean on the 5th.

On the 10th a rather deep depression was formed over Italy, it started to deepen appreciably while stationary. A secondary depression attached to its SE trough penetrated East Mediterranean on the 12th. On the 14th the depression over Italy began filling rapidly while it proceeded SE wards passing by Greece on the 15th and traversing East Mediterranean on the 166th.

The fifth secondary depression appeared over West Mediterranean on the 17th, passed by Central Mediterranean on the 18th and then shooted rapidly eastwards traversing East Mediterranean on the 19th.

The sixth secondary depression was a deep West Mediterranean depression, it proceeded rapidly eastwards, attained north Italy by the 23rd, the Balkans by the 24th and the Black Sea by the 25th when its rather deep secondary which was attached to its trailing cold front far to the south traversed East Mediterranean.

It is worth to mention that the Sudan trough this month showed three marked northward elongations round the 5th, 19th & 25th associating the three corresponding transits of secondary Mediterranean depressions.

SURFACE WIND

The prevailing winds were mostly Wly & NWly light/moderate in general with the exception of few days of SW ly or N ly winds Fresh/strong winds blew occasionally over scattered localities of the Mediterranean (western parts), Lower Egypt (Canal Zone) & Red Sea districts. Calms were frequent during night and early morning intervals over scattered localities.

Gales were reported at : Sallum on the 14th, Fayed on the 13th and at Hurghada on the 20th.

TEMPERATURE

Maximum temperature oscillated slightly round its normal and its values ranged beween 15°C & 25°C in the northern and middle parts of the Republic and ranged between 20C° & 30C° in the southern parts. Variability in maximum temperature was pronounced during the 2nd & 3rd decades.

The absolute maximum temperature for the Republic was 32.2°C reported at Kom Ombo on the 25th.

Minimum temperature oscillated also slightly round its normal and its values ranged between 1°C & 15°C in the northern & middle parts and ranged between 4°C & 11°C in the southern part.

The absolute minimum temperature for the Republic was —0.6°C reported at Dakhla on the 5th.

PRECIPITATION

Rain was confined to the northern parts and fell in general during the 1st decade and few scattered days of the 2nd & 3rd decades. Rain was light/moderate in general, though

exceptionally heavy rain fell in few scattered localites of the west Mediterranean coast during the 1st week and fell between Sallum & Alexandria on the 26th. Rain was associated with occasional thunderstorms over scattered localities of the Mediterranean coastal strip round the 1st & 26th. The monthly rain was subnormal in general, but as an exception it was abnormally high in many localities of the Mediterranean coastal strip.

The absolute monthly rain for the Republic was 46.4 mms. reported at Dabaa, while the maximum daily rainfall was 44.4 mms. reported at Sallum on the 26th.

Cairo, 10 / 1 / 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

FEBRUARY — 1966

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	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	1017.6	+0.3	20.8	+1.1	11.0	+1.3	15.9	15.3	+0.7	11.3	+0.8	59	+ 5	—	—	—	7.2
Mersa Matruh (A)	1017.8	+0.7	19.3	+0.5	9.6	+1.2	14.4	14.1	+0.7	11.2	+0.4	68	+ 5	—	—	—	6.3
Alexandria (A)	1017.3	+0.1	19.8	+0.6	10.1	+0.6	15.0	14.9	+0.7	12.0	+0.8	69	+ 1	232.3	310.5	75	4.3
ort Said (A)	1016.9	0.0	19.1	+0.5	13.5	+1.5	16.3	15.9	+1.1	13.3	+1.3	73	+ 4	242.7	310.5	78	3.8
l Arish	1017.1	+0.1	20.5	+0.6	10.9	+1.8	15.7	15.1	+1.3	13.0	+2.1	77	+10	—	—	—	4.0
Ghazza	1016.7	+0.2	19.5	+1.6	10.6	+0.6	15.0	14.9	+0.9	12.5	+0.8	74	0	237.3	309.9	77	3.5
Tanta	1017.2	—0.6	21.4	+0.5	8.3	+1.7	14.8	14.2	+1.4	11.1	+1.2	66	0	232.7	310.9	75	3.5
Cairo (A)	1017.6	+0.2	21.2	+0.6	10.2	+0.8	15.7	15.4	+0.6	11.0	+0.5	55	0	—	—	—	9.2
Fayoum	1017.9	+0.8	22.4	+0.4	9.0	+1.6	15.7	15.2	+0.8	10.6	+0.8	52	0	—	—	—	4.8
Minya (A)	1018.1	+0.4	22.0	—0.4	5.8	+0.6	13.9	13.6	+0.3	9.2	+0.3	52	— 1	257.1	312.1	82	5.5
Assyout (A)	1017.9	+0.7	22.1	—0.5	8.1	+0.6	15.1	14.7	—0.4	9.3	+0.1	45	+ 4	—	—	—	9.2
Luxor (A)	1017.1	+1.0	24.5	—0.7	7.2	+0.5	15.8	15.9	0.0	10.2	+0.2	44	+ 2	—	—	—	6.6
Aswan (A)	1017.0	+1.4	24.8	—1.0	8.0	—1.2	16.4	16.9	—0.6	9.3	+0.3	29	+ 5	—	—	—	10.8
Siwa	1018.5	+0.8	22.0	+0.3	6.5	+0.8	14.2	14.2	+0.3	9.1	+0.5	46	+ 2	—	—	—	7.4
Bahariya	1018.6	+1.5	22.1	—0.1	6.6	+0.3	14.4	14.3	+0.6	9.2	+0.8	47	+ 3	—	—	—	6.7
Farafra	1019.8	+0.3	22.6	+0.2	5.0	—0.4	13.8	13.6	—0.4	8.8	+1.4	48	+ 8	—	—	—	9.0
Dakhla	1018.7	+0.7	23.6	—0.1	3.8	—1.9	13.7	13.8	+0.2	7.7	+0.5	36	+ 4	—	—	—	9.3
Kharga	1018.0	+1.0	23.7	—0.7	7.4	+0.3	15.6	16.0	+0.8	9.1	+0.4	38	0	277.5	317.0	87	10.5
Tor	1016.5	+0.1	22.4	+0.6	11.0	+1.3	16.7	17.2	+1.1	12.1	+0.7	51	— 4	—	—	—	10.5
Hurghada	1016.0	+0.4	22.8	+1.6	10.2	+0.3	16.5	16.7	+0.2	11.3	+0.1	48	0	—	—	—	13.2
Quseir	1016.6	+0.9	23.2	+0.2	14.0	—0.3	18.6	18.7	+0.4	12.6	+0.2	46	+ 1	—	—	—	14.0

Table A 2.— MAXIMUM AND MINIMUM AIR TEMPERATURES

FEBRUARY — 1966

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	27.4	23	16.4	26	4	0	0	0	0	9.8	—	15.2	24	9.1	4	10	0	0	0
Mersa Matruh (A)	26.1	24	15.9	26	1	0	0	0	0	—	—	11.9	6	7.4	18	13	0	0	0
Alexandria (A)	24.7	12	16,7	2	0	0	0	0	0	—	—	13.6	21	6.6	18	15	0	0	0
Port Said (A)	22.7	15	16,9	7	0	0	0	0	0	12.0	—	15.7	20	11.1	1	0	0	0	0
El Arish	27.3	25	16,0	1	4	0	0	0	0	8.8	—	15.4	20	8.6	5	9	0	0	0
Ghazza	25.3	15	16·5	2	1	0	0	0	0	9,0	—	13.4	20	8.4	5	12	0	0	0
Tanta	27.9	25	17,1	2	4	0	0	0	0	—	—	11.7	15·26	5.1	23	25	0	0	0
Cairo (A)	28.4	25	17,2	6	4	0	0	0	0	—	—	13.1	13	8.0	19	15	0	0	0
Fayoum	29.3	25	17·6	2	5	0	0	0	0	5.0	—	12.0	26	7.	15	22	0	0	0
Minya (A)	29.7	25	14,9	27	5	0	0	0	0	2.9	—	10.1	26	3.5	9	27	9	0	0
Assyout (A)	29.3	24	17,5	27	5	0	0	0	0	6.8	—	11.8	26	6.0	4	24	0	0	0
Luxor (A)	29.7	25	19,3	11	11	0	0	0	0	4.4	—	11.2	26	3.8	5	27	2	0	0
Aswan (A)	30.7	25	20,0	3	13	3	0	0	0	—	—	12.9	26	5.0	5	24	0	0	0
Siwa	29.5	24	17,8	1	5	0	0	0	0	—	—	9.9	25,27	3.4	17	28	6	0	0
Bahariya	29.6	24	14·7	27	4	0	0	0	0	5.4	—	12.7	13	2.5	5	26	6	0	0
Farafra	29.5	24	18,3	2	7	0	0	0	0	4.1	—	9.7	28	0.9	5	28	15	0	0
Dakhla	31.9	24	18,8	6	8	2	0	0	0	—	—	9.7	28	—0.6	5	28	19	2	0
Kharga	31.3	25	19,7	1	10	2	0	0	0	5.1	—	14.0	26	3.8	10	24	4	0	0
Tor	26.6	12	20·1	6,7	4	0	0	0	0	—	—	14.1	2	7.6	19	8	0	0	0
Hurghada	29.9	13	19,9	4	4	0	0	0	0	8.9	—	12.1	14	7.7	25	12	0	0	0
Quseir	30.7	13	20,7	6	4	1	0	0	0	12.5	—	16.0	23	12.0	10	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

FEBRUARY — 1966

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	2.1	2.2	3.5	1.8	2.4	46.0	+34.5	44.4	26	0	2	2	1	1	1	0
Mersa Matruh (A)	2.4	3.8	3.2	2.3	2.7	22.1	+ 4.4	16.3	26	0	5	4	1	1	0	0
Alexandria (A)	3.8	4.6	4.8	3.8	4.1	8.2	—23.1	3.8	2	4	5	4	0	0	0	0
Port Said (A)	2.2	2.9	3.0	2.1	2.6	21.9	+ 9.9	10.8	6	0	8	6	1	1	0	0
El Arish	2.9	4.0	3.3	3.3	3.4	22.4	+ 6.0	12.1	7	1	5	3	2	1	0	0
Ghazza	3.8	3.8	3.9	2.6	3.6	63.6	+10.6	28.3	3	0	8	8	2	2	1	0
Tanta	1·2	2.4	4.0	1.1	2.1	1.4	— 6.5	0.8	13	0	2	0	0	0	0	0
Cairo (A)	2.1	3.1	4.1	2.1	2.8	1.1	— 3.6	0.8	1	2	2	0	0	0	0	0
Fayoum	—	2.0	3.0	1.8	—	0.5	— 0.9	0.3	27	1	3	0	0	0	0	0
Minya (A)	1.2	1.6	2.4	0.8	1.6	0.9	— 0.3	0.9	27	1	1	0	0	0	0	0
Assyout (A)	0.8	1.0	2.1	0.8	1.2	20.0	+19.7	20.0	27	0	1	1	1	1	0	0
Loxur (A)	0.5	0.5	1.1	1.0	0.8	Tr	— 0.2	Tr.	11	1	0	0	0	0	0	0
Aswan (A)	0.5	0.8	1.2	0.8	0.8	0.0	0.0	0.0	—	0	0	0	0	0	0	0
Siwa	1.4	1.4	2.8	1.8	1.7	0.8	— 1.7	0.8	26	1	1	0	0	0	0	0
Bahariya	1.1	1.6	2.3	1.4	1.4	8.0	+ 6.8	6.4	27	2	2	2	1	0	0	0
Farafra	—	0.8	1.1	0.4	—	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Dakhla	0.4	0.9	1.4	0.8	0.8	0.0	— 0.3	0.0	—	0	0	0	0	0	0	0
Kharga	0.6	0.8	1.8	0.9	1.1	Tr	— 0 3	Tr.	11	1	0	0	0	0	0	0
Tor	1.0	1.7	2.3	1.2	1.5	2.3	+ 1.0	2.3	27	0	1	1	0	0	0	0
Hurghada	0 8	1.1	1.6	1.2	1.1	Tr.	0.0	Tr.	28	1	0	0	0	0	0	0
Quseir	1.0	1.3	1.7	1.0	1.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0

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

FEBRUARY — 1966

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	0	0	0	0	3	1	1	14	2
Mersa Matruh (A)	5	0	0	0	0	2	0	0	0	0	2	0	0	14	2
Alexandria (A)	6	0	0	0	0	1	1	2	0	0	0	0	0	4	5
Port Said (A)	8	0	0	0	0	0	0	0	0	0	1	0	0	13	0
El Arish	7	0	0	0	0	0	9	0	0	0	1	0	0	5	1
Ghazza	8	0	0	0	0	0	0	1	0	0	0	0	0	5	3
Tanta	1	0	0	0	0	0	1	0	0	0	0	0	0	17	0
Cairo (A)	3	0	0	0	0	0	10	0	7	0	5	0	0	8	0
Fayoum	3	0	0	0	0	0	0	0	0	0	2	0	0	—	—
Minya (A)	1	0	0	0	0	0	2	0	0	0	1	0	0	17	0
Assyout (A)	1	0	0	0	0	0	2	0	7	0	3	0	0	22	0
Luxor (A)	0	0	0	0	0	0	0	0	7	0	5	1	0	26	0
Aswan (A)	0	0	0	0	0	0	0	0	2	0	7	0	0	25	0
Siwa	1	0	0	0	0	1	0	0	0	0	3	0	0	20	0
Bahariya	2	0	0	0	0	0	2	0	0	0	1	0	0	20	1
Farafra	0	0	0	0	0	0	0	0	0	0	4	1	0	—	—
Dakhla	0	0	0	0	0	0	0	0	4	0	4	0	0	24	1
Kharga	0	0	0	0	0	0	0	0	0	0	3	0	0	24	2
Tor	1	0	0	0	0	0	0	0	0	0	1	0	0	18	0
Hurghada	0	0	0	0	0	0	0	0	0	0	3	0	1	21	0
Quseir	0	0	0	0	0	0	0	0	1	0	4	1	0	22	0

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

FEBRUARY — 1966

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	32	2	0	1–10	28	38	23	19	5	8	20	19	22	63	57	30	332
				11–27	7	3	2	0	0	0	2	38	20	102	108	22	304
				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	**35**	**41**	**25**	**19**	**5**	**8**	**22**	**59**	**42**	**165**	**165**	**52**	**638**
Mersa Matruh (A)	0	1	0	1–10	27	18	9	3	7	24	21	24	35	54	41	34	297
				11–27	58	30	3	7	10	5	16	42	34	47	51	67	370
				28–47	0	0	0	0	0	0	0	0	3	0	0	0	3
				≥48	0	0	0	0	0	0	0	1	0	0	0	0	1
				All speeds	**85**	**48**	**12**	**10**	**17**	**29**	**37**	**67**	**72**	**101**	**92**	**101**	**671**
Alexandria (A)	19	0	1	1–10	61	37	35	20	40	22	30	68	11	74	53	74	525
				11–27	16	0	0	0	0	0	0	13	14	40	31	13	127
				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**	**37**	**35**	**20**	**40**	**22**	**30**	**81**	**25**	**114**	**84**	**87**	**652**
Port Said	3	0	1	1–10	44	53	48	39	24	11	11	36	74	59	24	43	466
				11–27	9	1	4	1	0	5	7	18	49	43	23	42	202
				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	**53**	**54**	**52**	**40**	**24**	**16**	**18**	**54**	**123**	**102**	**47**	**85**	**668**
Tanta	26	0	0	1–10	32	32	48	8	43	17	19	48	115	103	84	71	620
				11–27	2	1	0	0	0	0	0	3	3	9	2	6	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	**34**	**33**	**48**	**8**	**43**	**17**	**19**	**51**	**118**	**112**	**86**	**77**	**646**
Cairo	23	0	2	1–10	33	42	29	31	22	36	30	57	62	58	52	60	512
				11–27	12	5	0	2	3	11	27	25	14	20	13	3	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	**45**	**47**	**29**	**33**	**25**	**47**	**57**	**82**	**76**	**78**	**65**	**63**	**647**
Fayoum (A)	14	5	150	1–10	115	15	12	1	5	24	54	53	49	23	38	96	488
				11–27	2	0	0	0	0	0	0	1	1	0	0	0	4
				28–47	0	0	0	0	0	0	0	0	0	11	0	0	11
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**117**	**15**	**12**	**1**	**5**	**24**	**54**	**57**	**50**	**34**	**38**	**96**	**503**
Minya	42	152	1	1–10	76	4	1	0	13	58	31	12	18	19	23	115	370
				11–27	28	0	0	0	0	0	3	1	0	13	16	46	107
				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	**104**	**4**	**1**	**0**	**13**	**58**	**34**	**13**	**18**	**32**	**39**	**161**	**477**

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

FEBRUARY — 1966

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
Assyout . . . . (A)	6	2	23	1-10	1	12	25	22	23	19	8	16	105	162	107	32	532
				11-27	3	1	0	0	0	0	3	2	15	18	56	11	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	**4**	**13**	**25**	**22**	**23**	**19**	**11**	**18**	**120**	**180**	**163**	**43**	**641**
Luxor . . . . . (A)	2	1	0	1-10	36	21	28	24	33	41	75	81	46	83	81	95	644
				11-27	0	0	0	1	0	0	0	3	6	6	8	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	**36**	**21**	**28**	**25**	**33**	**41**	**75**	**84**	**52**	**89**	**89**	**96**	**669**
Aswan . . . . . (A)	0	2	0	1-10	163	195	19	6	2	2	6	12	5	9	23	87	529
				11-27	42	20	7	6	0	0	0	0	1	11	15	38	140
				28-47	0	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	**205**	**215**	**26**	**12**	**2**	**2**	**6**	**12**	**6**	**20**	**38**	**125**	**670**
Dakhla.	12	2	1	1-10	20	26	32	40	18	22	31	35	58	126	116	105	629
				11-27	0	0	0	0	0	0	0	0	0	17	5	6	28
				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**	**26**	**32**	**40**	**18**	**22**	**31**	**35**	**58**	**143**	**121**	**111**	**657**
Siwa	93	5	88	1-10	23	8	24	17	39	47	20	32	18	55	46	29	358
				11-27	15	2	1	0	0	3	2	9	6	3	52	35	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	**38**	**10**	**25**	**17**	**39**	**50**	**22**	**41**	**24**	**58**	**98**	**64**	**486**
Hurghada.	38	1	0	1-10	14	16	10	8	12	12	10	8	2	13	61	9	175
				11-27	92	15	0	1	3	1	1	0	0	25	194	117	449
				28-47	0	0	0	0	0	0	0	0	0	0	0	9	9
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	**106**	**31**	**10**	**9**	**15**	**13**	**11**	**8**	**2**	**38**	**255**	**135**	**633**
Quseir	0	2	0	1-10	49	46	14	11	4	5	5	12	23	153	95	26	**443**
				11-27	78	5	0	1	0	0	0	0	7	47	39	50	**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	**127**	**51**	**14**	**12**	**4**	**5**	**5**	**12**	**30**	200	**134**	**76**	**670**

Table B 1.—UPPER AIR CLIMATOLOGICAL DATA

FEBRUARY — 1966

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	1018m.b.*	1024m.b.*	1010m.b.*	27	11.8	15.6	7.5	27	8.4
	1000	27	179	228	112	27	12.9	16.0	9.1	26	8.4
	850	27	1528	1599	1462	27	5.6	13.1	— 0.6	24	— 3.0
	700	27	3097	3209	3012	27	— 2.1	5.1	— 8.0	16	—14.4
	600	27	4304	4446	4210	27	— 9.7	— 3.5	—16.0	13	—20.1
	500	27	5680	5857	5554	27	—19.4	—13.0	— 27.0	9	—27.5
	400	27	7303	7508	7122	27	—32.1	—26.0	—39.6	7	—37.7
	300	27	9275	9517	9073	27	—45.7	—39.4	—50.5	—	—
	200	25	11916	12131	11774	25	—54.3	—43.5	—64.5	—	—
	150	22	13753	13904	13635	22	—57.6	—51.5	—65.4	—	—
	100	18	16259	16377	16173	18	—66.0	—62.1	—73.5	—	—
	70	13	18447	18595	18340	13	—65.4	—61.3	—69.9	—	—
	60	13	19369	19439	19286	13	—64.7	—60.6	—67.4	—	—
	50	10	2 491	20565	20396	10	—62.7	—60.0	—66.6	—	—
	40	8	21878	21955	21766	8	—60.8	—56.9	—65.5	—	—
	30	7	23664	23748	23408	7	—58.9	—53.5	—66.8	—	—
	20	2	26278	26290	26266	2	—55.1	—52.6	—57·6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface	28	1001m.b.*	1006m.b.*	993m.b.*	28	12.1	16.0	8.6	28	6.0
	1000	28	147	191	84	19	11.8	16.0	8.6	19	6.4
	850	28	1495	1576	1437	28	5.5	12.9	1.1	25	— 5.0
	700	28	3060	3161	2986	28	— 2.6	6.1	—10.3	16	—14.7
	600	28	4266	4401	4165	28	—10.2	— 3.7	—17.9	13	—21.8
	500	28	5609	5816	5507	28	—19.6	—12.9	—28.3	10	—28.4
	400	28	7261	7476	7071	28	—31.9	—25.8	—40.0	5	—38.3
	300	28	9242	9498	9000	28	—44.2	—36.0	—50.2	—	—
	200	28	11898	12126	11670	28	— 53.2	—44.5	—62.9	—	—
	150	27	13722	13857	13530	27	—58.6	—50.6	—65.0	—	—
	100	27	16229	16380	16084	27	—65.9	—60.5	—73.4	—	—
	70	26	18393	18530	18260	26	—66.0	—59.1	—70.7	—	—
	60	25	19319	19477	19205	25	—64.5	—58.1	—67.8	—	—
	50	24	20141	20605	20321	24	—63.0	—57.8	—68.0	—	—
	40	22	21814	21996	21665	22	—61.1	—55.3	—66.3	—	—
	30	19	23622	23788	23471	19	—59.2	—50.0	—64.8	—	—
	20	12	26123	26361	25997	12	—53.9	—48.2	—65.1	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan 0000 UT	Surface	27	994m.b.*	997m.b.*	987m.b.*	27	12.2	16.0	8.5	27	— 2.1
	1000	27	142	176	84	—	—	—	—	—	—
	850	27	1504	1540	1458	27	10.1	15.5	2.8	19	— 6.5
	700	27	3094	3145	3043	27	2.8	7.1	— 4.8	5	—13.3
	600	27	4327	4396	4252	27	— 4.2	0.5	— 8.8	2	—18.4
	500	26	5743	5859	5643	26	—12.8	— 9.5	—22.1	2	—19.9
	400	26	7410	7514	7256	26	—24.2	—19.5	—29.9	5	—27.4
	300	24	9453	9597	9564	24	—37.0	—30.1	—42.2	1	—42.2
	200	22	12125	12343	11963	22	—53.0	—49.8	—57.6	—	—
	150	20	13963	14180	13799	20	—63.4	—57.8	—68.6	—	—
	100	14	16412	16620	16294	14	—72.5	—68.2	—76.0	—	—
	70	3	18515	18600	18445	3	—71.5	—69.5	—74.2	—	—
	60	2	19470	19503	19437	2	—68.3	—67.6	—69.0	—	—
	50	2	20574	20603	20546	2	—65.0	—64.6	—65.4	—	—
	40	2	21942	21969	21916	2	—62.1	—62.0	—62.2	—	—
	30	2	23739	23762	23706	2	—58.0	—57.5	—58.6	—	—
	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 1 (*contd.*)—UPPER AIR CLIMATOLOGICAL DATA

FEBRUARY — 1966

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 . . .	28	*1017m.b.	*1022m.b.	*1010m.b.	28	18.4	24.5	15.0	28	9.3
	1000 . . .	28	175	216	114	28	16.8	23.7	13.6	27	1.8
	850 . . .	28	1532	1594	1467	28	6·6	16.0	— 2.0	25	— 9.3
	700 . . .	28	3108	3215	3047	28	— 0.9	6.1	— 7.3	10	—13.8
	600 . . .	28	4314	4461	4208	28	— 8.5	3.0	—14.3	4	—20.1
	500 . . .	28	5706	5885	5558	28	—14.8	—11.4	—25.1	4	—27.8
	400 . . .	28	7370	7575	7138	28	—30.9	—24.4	—38.6	2	—42.8
	300 . . .	27	9319	9582	9075	27	—44.5	—40.1	—48.3	—	—
	200 . . .	26	11980	12249	11817	26	—52.9	—43 2	—62.0	—	—
	150 . . .	25	13831	14065	13686	25	—56.4	—48.4	—62.7	—	—
	100 . . .	18	16330	16413	16206	18	—64.1	—59.8	—69.0	—	—
	70 . . .	12	18531	18590	18400	12	—63.4	—59.8	—68.6	—	—
	60 . . .	11	19485	19528	19429	11	—62.4	—60.4	—65.0	—	—
	50 . . .	9	20609	22061	20549	9	—61.1	—58.4	—63.9	—	—
	40 . . .	7	22011	22061	21950	7	—58.9	—57.0	—62 8	—	—
	30 . . .	5	23811	23891	23728	5	—56.1	—53.3	—61.8	—	—
	20 . . .	4	26451	26509	26363	4	—50.4	—48.3	—52.4	—	—
	10 . . .	1	30957	—	—	1	—41.2	—	—	—	—
Helwan 1200 UT	Surface . . .	28	*1000m.b.	*1005m.b.	*993m.b.	28	19.7	26.4	15.2	28	4.8
	1000 . . .	28	142	184	84	19	19.3	26.0	15.6	19	6.5
	850 . . .	28	1508	1570	1449	28	7.6	17.0	2.1	24	— 3.2
	700 . . .	28	3084	3199	3004	28	— 0.3	8 2	— 8.3	12	—14.1
	600 . . .	28	4299	4447	4185	28	— 8.0	— 1.2	—17.2	10	—20.3
	500 . . .	28	5654	5874	5528	28	—17.7	—10.3	—27.7	9	—28.1
	400 . . .	27	7321	7550	7107	27	—29.5	—23.3	—38.0	3	—33.9
	300 . . .	27	9318	9598	9068	27	—42.9	—38.6	—49.0	—	—
	200 . . .	27	11987	12263	11804	27	—51.4	—44.0	—59.8	—	—
	150 . . .	26	13832	14051	13664	26	—56.6	—50 3	—62.7	—	—
	100 . . .	24	16355	16518	16202	24	—64.9	—59.0	—69.3	—	—
	70 . . .	22	18532	18660	18400	22	—65.4	—58.2	—68.8	—	—
	60 . . .	21	19465	19596	19330	21	—64.4	—58.7	—69.3	—	—
	50 . . .	18	20595	20721	20458	18	—62.0	—54.0	—65.4	—	—
	40 . . .	14	21982	22113	21853	14	—59.7	—56.0	—62.8	—	—
	30 . . .	8	23785	23899	23648	8	—57.0	—51.1	—65.0	—	—
	20 . . .	5	26374	26464	26293	5	—52.4	—49.5	—60.0	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—
Aswan 1200 UT	Surface . . .	26	*993m.b.	*997m.b.	*988m.b.	26	23.0	28.5	19.4	26	1.8
	1000 . . .	26	135	167	87	—	—	—	—	—	—
	850 . . .	26	1519	1560	1481	26	11.5	15.2	5.0	16	— 3.2
	700 . . .	26	3119	3175	3058	26	4.3	9.0	— 3.2	—	—
	600 . . .	26	4357	4429	4261	26	— 2.8	1.4	—10.8	3	—18.2
	500 . . .	26	5778	5869	5631	26	—11.8	— 7.8	—19.8	2	—19.8
	400 . . .	25	7456	7560	7294	25	—22.4	—19.4	—28.2	1	—24.3
	300 . . .	23	9512	9619	9350	23	—35.0	—26.5	—42.2	1	—40.6
	200 . . .	21	12251	12398	12087	21	—51.1	—46.8	—57.2	—	—
	150 . . .	15	14083	14259	13961	15	—61.1	—57.0	—64.6	—	—
	100 . . .	11	16542	16718	16413	11	—70.4	—67.7	—72.8	—	—
	70 . . .	21	18600	—	—	1	—66.7	—	—	—	—
	60 . . .	1	19541	—	—	1	—65.0	—	—	—	—
	50 . . .	1	20662	—	—	1	—62.2	—	—	—	—
	40 . . .	1	22052	—	—	1	—57.2	—	—	—	—
	30 . . .	1	23902	—	—	1	—49.2	—	—	—	—
	20 . . .	1	—	—	—	—	—	—	—	—	—
	10 . . .	—	—	—	—	—	—	—	—	—	—

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 — 1966

	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)	2619 (27)	745 (27)	— 6.9 (17)	3900	641	—	1430	860	— 1.9	10656 (25)	247 (25)	—55.4 (25)	14590	134	—67.7	8030	351	—46.5	10000	268	310	129
	Helwan	2534 (28)	750 (28)	— 7.7 (16)	3860	643	—	1600	837	— 3.2	11304 (28)	232 (28)	—56.2 (28)	16700	94	—67.5	7420	390	—40.6	10940	228	270	150
	Aswan . . A)	3540 (27)	665 (27)	—10.2 (6)	4480	594	—	2170	783	— 7.4	15464 (7)	119 (7)	—72.2 (7)	16427	100	—75.8	14290	143	—69.0	10850	243	230	190
1200 UT		(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh(A)	2813 (28)	725 (28)	— 7.7 (14)	4280	614	—	1740	828	— 3.7	10789 (25)	235 (16)	—54.2 (25)	12590	216	—58.8	8040	350	—45.6	10000	269	300	145
	Helwan	2941 (28)	715 (28)	—9.6 (12)	4280	612	—	1760	820	— 2.9	10959 (25)	241 (25)	—53.0 (25)	16449	100	—67.5	8040	348	—41.6	16765	93	278	162
	Aswan . . .(A)	3903 (26)	625 (26)	—16.5 (3)	4590	587	—	2300	769	—14.7	15942 (4)	112 (4)	—70.2 (4)	16720	96	—73.1	15030	132	—66.6	11330	224	240	163

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 1966

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	1	14	1	9	0	—	0	—	0	—	2	8	2	6	1	10	5	12	7	9	4	11	3	13	1	27	10
	1000	0	—	1	7	0	—	1	8	1	20	1	11	0	—	1	9	4	23	3	16	7	12	5	19	1	25	15
	850	2	14	0	—	1	4	0	—	0	—	0	—	0	—	2	14	3	17	3	24	5	22	9	17	0	25	18
	700	4	26	0	—	0	—	0	—	0	—	0	—	0	—	1	22	4	25	3	19	7	24	5	23	0	24	24
	600	5	29	1	39	1	21	0	—	0	—	0	—	1	33	0	—	4	22	5	42	3	28	4	37	0	24	32
	500	2	66	1	22	0	—	0	—	0	—	0	—	0	—	1	13	1	29	7	43	6	40	6	26	0	24	37
	400	3	60	1	27	0	—	0	—	0	—	0	—	0	—	2	35	4	31	5	55	5	45	3	32	0	23	43
	300	2	87	0	—	0	—	0	—	0	—	0	—	0	—	2	76	4	37	5	81	8	51	2	42	0	23	58
	200	1	73	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	80	2	90	3	74	3	44	0	14	72
	150	1	55	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	66	1	52	3	69	1	60	0	8	63
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	40	1	48	2	34	1	28	0	7	38
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	0	—	0	1	27
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	26	0	—	0	1	26
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	6	14	4	17	0	—	2	13	0	—	0	—	0	—	2	6	2	24	1	8	4	16	7	15	0	28	15
	1000	3	17	0	—	0	—	1	18	0	—	1	8	0	—	3	20	2	8	1	24	8	17	8	18	1	28	16
	850	4	19	1	6	1	4	0	—	0	—	0	—	1	13	1	17	3	20	6	18	8	17	2	16	1	28	16
	700	4	33	2	14	0	—	0	—	0	—	0	—	0	—	2	28	3	19	4	28	4	26	8	20	1	28	23
	600	6	28	1	15	0	—	0	—	0	—	0	—	0	—	2	38	5	20	3	47	7	34	4	28	0	28	30
	500	5	39	0	—	1	31	0	—	0	—	0	—	0	—	2	40	2	32	6	36	7	44	4	35	0	27	38
	400	3	74	0	—	1	43	0	—	0	—	0	—	1	20	3	45	1	59	5	43	8	51	5	36	0	27	47
	300	4	54	0	—	1	39	0	—	0	—	0	—	0	—	2	57	3	62	7	77	5	63	4	43	0	26	61
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	48	6	72	3	47	2	48	0	13	52
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	48	5	50	3	44	2	40	0	12	46
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	39	3	52	3	39	1	9	0	8	40
	70	0	—	1	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	19	1	20	1	18	0	4	16
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	20	1	25	1	19	0	3	21
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	19	1	11	0	—	0	2	15
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	26	0	—	0	2	26
	30	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	19	0	—	0	—	0	1	19
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	37	0	—	0	—	0	1	37
	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 1966

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	5	7	5	9	3	5	1	8	1	6	1	5	0	—	0	—	1	4	0	—	0	—	3	7	8	28	5
	1000	5	9	5	9	2	14	1	—	1	7	0	—	0	—	0	—	0	—	1	9	0	—	1	20	4	19	17
	850	4	12	1	5	0	—	1	12	1	10	0	—	1	11	2	19	2	14	7	17	4	12	5	13	0	28	14
	700	4	16	1	12	0	—	0	—	0	—	1	21	0	—	2	19	2	14	6	23	7	20	5	21	0	28	20
	600	4	32	1	21	0	—	0	—	0	—	0	—	0	—	3	21	3	36	6	29	7	20	4	23	0	28	26
	500	4	64	2	30	0	—	0	—	0	—	0	—	0	—	3	32	3	28	7	40	6	32	3	44	0	27	37
	400	1	53	1	47	0	—	0	—	0	—	0	—	0	—	1	84	6	34	6	44	4	30	3	34	0	22	40
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	82	3	63	8	75	3	41	4	54	0	20	65
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	92	7	73	3	69	1	50	0	13	73
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	45	7	78	3	76	0	—	0	11	75
	100	1	40	0	—	0	—	0	—	0	—	0	—	0	—	1	32	0	—	3	58	2	99	0	—	0	7	63
	70	1	32	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	25	1	48	1	19	0	—	0	4	31
	60	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	20	1	10	0	—	0	3	16
	50	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	30	1	26	1	9	0	—	0	—	0	3	22
	40	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	16	1	54	0	—	0	3	28
	30	0	—	0	—	0	—	0	—	0	—	0	—	1	30	0	—	0	—	0	—	1	28	0	—	0	2	28
	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	33	0	—	0	1	33
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	3	9	0	—	0	—	0	—	0	—	0	—	0	—	10	6	4	4	3	8	3	10	4	10	1	28	7
	1000	2	10	1	10	1	19	0	—	0	—	0	—	1	11	5	6	2	5	2	6	1	10	4	11	0	19	9
	850	4	12	2	10	2	8	2	8	0	—	1	2	2	10	1	8	3	22	5	14	4	20	2	8	0	28	13
	700	2	18	3	14	0	—	1	2	0	—	0	—	0	—	4	14	2	34	7	22	5	21	4	23	0	28	20
	600	3	31	3	15	0	—	0	—	0	—	0	—	1	8	2	28	3	15	8	30	4	31	4	28	0	28	26
	500	3	49	2	20	1	30	0	—	0	—	0	—	0	—	3	36	2	25	10	45	4	52	3	22	0	28	39
	400	2	18	1	10	0	—	0	—	0	—	0	—	0	—	2	54	4	43	8	57	3	44	3	43	0	23	46
	300	2	28	0	—	0	—	0	—	0	—	0	—	0	—	1	53	3	58	5	56	5	59	2	38	0	18	53
	200	1	74	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	90	3	78	2	50	1	109	0	12	81
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	20	5	88	1	46	0	—	0	7	72
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	50	1	140	1	41	0	—	0	4	70
	70	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	30	0	—	0	—	0	1	30
	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.

ASWAN (A) — FEBRUARY 1966

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	9	1	10	1	8	0	—	0	—	0	—	0	—	0	—	0	—	1	18	2	10	5	10	2	27	9
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	6	12	1	18	2	11	0	—	0	—	0	—	0	—	1	15	3	18	4	9	4	18	6	11	0	27	13
	700	2	24	0	—	1	23	0	—	0	—	0	—	0	—	2	20	5	29	7	21	4	28	3	23	0	24	24
	600	1	37	1	14	0	—	0	—	0	—	0	—	0	—	1	34	5	43	9	33	6	32	1	17	0	24	33
	500	0	—	1	11	0	—	0	—	0	—	0	—	0	—	1	42	7	60	7	49	7	34	1	23	0	24	45
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	6	79	10	58	3	58	4	34	0	24	57
	300	0	—	1	6	0	—	0	—	0	—	0	—	0	—	2	123	6	88	9	94	5	64	0	—	0	23	85
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	99	13	99	0	—	0	—	0	20	99
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	65	12	79	2	86	0	—	0	15	79
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	34	4	43	0	—	0	—	0	6	40
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200 U.T.	Surface	9	12	2	9	1	10	0	—	0	—	0	—	0	—	0	—	0	—	1	18	4	12	9	9	0	26	11
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	850	2	8	2	6	1	4	1	10	0	—	0	—	0	—	0	—	2	9	3	11	9	15	6	18	0	26	13
	700	3	11	—	—	1	19	0	—	0	—	0	—	0	—	1	15	5	26	4	26	7	24	5	22	0	26	22
	600	0	—	0	—	1	11	0	—	0	—	0	—	1	28	0	—	5	39	8	28	6	30	4	25	0	25	30
	500	0	—	0	—	0	—	1	8	0	—	0	—	0	—	1	66	6	68	11	48	4	27	1	55	0	24	47
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	58	6	85	9	56	2	41	1	30	0	20	62
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	7	101	9	81	1	25	0	—	0	17	87
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	105	5	100	0	—	0	—	0	14	103
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	87	0	—	0	—	0	8	87
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	47	1	37	1	36	0	—	0	3	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 1966

This month was warmer than normal. Mean daily air temperature at 2 metres height above ground was 1.0°C above normal. Total amount of rainfall was 13.8 above normal.

The month was distinguished by successive warm spells which prevailed in the period from the 9th to the 24th, with peaks on 12th, 14th, 18th & 24th. The last peak gave rise to the absolute maximum temperature for the month. A cold wave prevailed from the 25th to the end of the month with peak on the 26th which was accompanied by a strong thunderstorm giving rise to the highest amount of rainfal in one day.

The extreme soil maximum and minimum air temperatures were higher than the corresponding values of February 1965. For the extreme maxima the deviations ranged between 4.2°C at 0.3 cm depth and 1.3°C at 50 and 100 depths. For the extreme minima the deviations ranged between 2.6°C at 2 cm depth and 1.0°C at 0.3 and 100 cm depths.

The mean daily wind speed at 2 m. above ground was 0.7 m./Sec lower than the corresponding value of February 1965. Mean daily Piche evaporation and water pan evaporation were lower than the corresponding values of last February by 2.7 and 0.99 mm. respectively. The total actual duration of bright sunshine was 10.2 hours higher than the corresponding values of February 1965.

REVIEW OF AGRO-METEOROLOGICAL STATION AT TAHRIR

FEBRUARY 1966

This month was slightly warmer, more humid and rainy than February 1965. Mean daily air temperature at 2 m. height above ground, mean daily relative humidity and total rainfall were higher than the corresponding values of Febraury 1965 by 0.6°C, 6% and 3.1mm respectively.

The month began with a prevailing cold air mass which persisted for the first week, and was associated with rainfall which amounted to 4.1 mm. out of 5.2 mm. falling in the whole month. Two consecutive warm spells occupied the second week, with the peaks on 12th and 15th respectively. Before the passage of the cold front on the 15th, the prefrontal conditions yielded the extreme minimum values of relative humidity and vapour pressure, and the highest mean and instantaneous wind speed, which led to the one case of sand rising in the month. Another warming process started on the 20th, leading to the extreme maximum air teperature on the 25th, when an active cold front passed causing a drop in maximum tmperature next day of about 7°C and giving the only thunderstorm occurring in the month. One day later another warming process began.

The extreme maximum soil temperatures at depths from 0.3 to 10 cm. and at 100 cm. were higher by 5.3 to 0.8°C than the corresponding values of February 1965. At 20 and 50 cm. depths the values were practically equal to those of last February. The extreme minimum soil temperatures for the same depths were higher than the corresponding values of February 1965 by 0.3 to 1.5°C except at 0.3 cm depth where the value was 0.4°C lower than the corresponding value of last February.

Mean daily wind speed at 2m. height above ground was 0.5 m/Sec lower than the corresponding value of February 1965. Mean daily Piche evaporation and water pan evaporation were lower than the corresponding values of last February by 2.7 and 1.08 mm respectively. Total sunshine duration was 22.2 hours less than the corresponding value of February 1965.

REVIEW OF AGRO-METEOROLOGICAL STATION AT GIZA

FEBRUARY 1966

This month was warmer than normal. Mean daily air temperature at 2 metres above ground was above normal (+0.9°C). Mean daily relative humidity was slightly above normal (+ 1%) while total rainfall was below normal (—2.8 mm).

The month began with a cold spell keeping the maximum temperature below normal for 9 days. A moderate warm spell occupied the period from 10th to 15th with a peak on the 15th when the extreme minimum values of relative humidity and vapour pressure occurred. Another marked warm spell occurred between 23rd & 25th giving the extreme maximum temperature of the month on 24th and the extreme minimum relative humidity again on 25th. A moderate cold front passed on 26th, the weather becoming cool for the rest of the month.

Minimum air temperature at 5cms above grass fell below zero on 4 days. The values and the duration in hours of the minimum temperature on these days below specified limits are given in the following table :

Date	Minmium air temperature at 5 cms. above grass	Duration to nearest half hour below		
		0.0°C	—1.0°C	—2.0°C
5	—1.1	1.0	0.0	0.0
6	—0.7	1.5	0.0	0.0
8	—1.1	2.0	0.5	0.0
18	—1.2	3.0	1.0	0-0

The extreme maximum soil temperatures at depths from 0.3 cm to 100cm were higher than the corresponding values of February 1965; the maximum deviation being + 4.1°C at 0.3 cm depth. The extreme minimum soil temperatures were also higher than the corresponding values of last February, except at 5cm. depth. The maximum deviation was + 2.2°C and at 5cm the deviation was —0.4°C.

Mean daily wind speed at 2m. height above ground was 0.1m/Sec above normal. Mean daily Piche evaporation and water pan evaporation were above normal by 0.2 and 0.03 mm. Mean daily potential evapotranspiration was 0.7 mm. lower than the corresponding value of February 1965. Total sunshine duration was 14.4 hours lower than the corresponding value of last February.

REVIEW OF AGRO-METEOROLOGICAL STATION AT KHARGA

FEBRUARY 1966

This month was warmer than normal. Mean daily air temperature at 2 metres above ground was 0.9°C above normal. The total amount of rainfall was 0.3 mm below normal.

The month started with a prolonged cold wave which continued till the 9th of the month with its peak on the 6th. A prolonged heat wave prevailed during the period 12th to 25th, with its peak on 25th giving rise to the absolute maximum air temperature and the absolute minimum vapour pressure. The absolute minimum relative humidity and the absolute minimum vapour pressure again occurred on the 24th.

The absolute minimum air temperature at 5 cm. above dry soil was 1.4°C while the corresponding value of February 1965 was 0.5°C.

The extreme maximum soil temperature at 0.3 cm. depth was higher than the corresponding value of February 1965. At depths between 1 and 20 cm inclusive the values were lower than the corresponding valus of last February while at 50 and 100 cm the values were the same as those of February 1965. The extreme deviations were +3.5°C and —4.1°C at 0.3 and 5 cm. depths respectively. The extreme minimum soil temperatures at depths between 0.3 cm. and 5 cm. inclusive were higher than the corresponding values of February 1965, while at depths 50 and 100 cm. the values were lower than those of last February. The extreme deviations were +1.9°C and —0.1°C at 1 and 100 cm. depths respectively.

The mean daily wind speed at 2 metres above ground was 0.6 m/Sec lower than the corresponding value of February 1965. Mean daily Piche evaporation was 2.5 mm higher while mean daily water pan evaporation was 2.25 mm. lower than the corresponding values of last February. The total actual duration of bright sunshine was 8.8 hours higher than the corresponding value of February 1965.

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

FEBRUARY — 1966

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	19.6	9.4	14.2	12.2	16.6	24.0	24.0	24.0	20.4	8.2	1.4	0.0	0.0	0.0	0.0	0.0
Tahrir	22.1	8.8	14.6	12.2	17.5	24.0	24.0	24.0	20.6	10.2	3.0	0.2	0.0	0.0	0.0	0.0
Giza	21.8	8.0	14.5	12.2	17.0	24.0	24.0	24.0	19.8	10.4	2.7	0.4	0.0	0.0	0.0	0.0
Kharga	23.7	7.5	16.1	13.0	19.1	24.0	24.0	23.8	20.5	13.5	5.7	1.2	0.1	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

FEBRUARY — 1966

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	26.4	24	15.4	26	12.8	6	7.5	5	6.5	18	—	—
Tahrir	27.7	25	18.9	2	11.2	26	5.8	23	3.5	19	—	—
Giza	29.2	24	18.5	27	12.2	26	5.5	6,8	0.2	18	—1.2	18
Kharga	31.3	25	19.7	1	14.0	26	3.8	10	1.4	5	—	—

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

FEBRUARY — 1966

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 Kasr.	310.7	230.9	309.7	74	—	—	77	61	25	12	8.8	7.7	12.3	27	4.8	24	11.8	5.43	32.4	25.1	26
Tahrir .	395.6	228.0	310.6	73	3.9	9.1	68	41	13	15	8.1	7.3	12.3	25	3.0	15	7.9	4.48	5.2	2.5	1
Giza . .	378.1	229.7	311.3	74	2.6	6.9	65	42	16	15,25	7.7	7.3	11.7	25	3.8	15	8.1	4.17	1.4	0.4	1,3
Kharga .	396.7	277.5	317.0	87	0.0	0.5	41	27	9	24	5.3	5.5	8.9	28	3.2	16	16.3	7.92	0.0	0.0	—

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

FEBRUARY — 1966

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	33.6	30.3	28.8	25.9	22.3	18.6	17.2	17.5	19.0	—	—	—	—	—	—	—	—	—	—	—
	L	5.0	7.1	7.6	8.7	10.1	11.9	14.3	16.4	18.7	—	—	—	—	—	—	—	—	—	—	—
Tahrir . . .	H	38.4	37.4	32.4	30.4	26.2	22.2	19.0	18.8	19.6	21.1	—	—	—	—	—	—	—	—	—	—
	L	5.6	6.3	6.5	8.8	10.4	12.7	15.0	17.3	19.3	20.7	—	—	—	—	—	—	—	—	—	—
Giza	H	48.4	46.4	45.0	29.3	24.2	20.9	20.3	20.7	22.9	24.9	26.7	24.0	22.0	20.1	18.4	16.7	16.7	17.0	19.6	—
	L	3.4	4.0	4.2	9.2	13.3	16.4	17.9	20.0	22.2	24.0	6.0	7.0	7.0	9.2	11.3	13.2	14.8	16.3	19.1	—
Kharga . . .	H	—	—	34.0	30.4	24.8	22.6	22.5	22.7	25.3	27.3	—	—	—	—	—	—	—	—	—	—
	L	—	—	6.2	9.3	13.8	17.0	19.7	22.0	24.6	26.5	—	—	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

FEBRUARY — 1966

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 . . .	4.2	3.5	5.2	—	—	—	—	—	—	—	—	—
Tahrir	2.6	2.0	3.6	22	14	7	3	0	0	0	36	15
Giza	2.2	1.6	3.1	27	14	4	1	0	0	0	33	15
Kharga . . .	3.1	2.2	4.4	—	—	—	—	—	—	—	—	—