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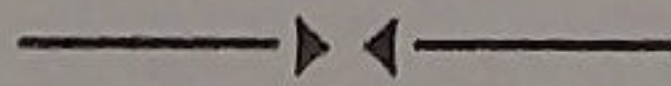
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ANNUAL REPORT
OF THE
METEOROLOGICAL
AND THE
SEISMOLOGICAL OBSERVATIONS
MADE AT THE
INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA
FOR
THE YEAR 1961.
AND
THE METEOROLOGICAL AVERAGE VALUES
FOR THE 60 YEARS FROM 1902 TO 1961.



LATITUDE 39°08' N., LONGITUDE 141°08' E.,
HEIGHT ABOVE MEAN SEA LEVEL 62 METERS.



PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA.

—

1962

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ERRATA

Page	Date	Column	Error	Correction
Intro.		Line 4	average	average
"		Line 7	telescop	telescope
"		13. Weather Symbols.	recoding	recording
"		"	meteorogical	meteorological
"		"	rein	rain
"		"	Thuder	Thunder
7	23	REMARKS	Η'	Η°
10	13	DIRECTION AND VELOCITY OF THE WIND 18 h	NNW	WNW
"	30	"	2 h NNW	WNW
"	29	Amount of Evaporation	(5.9)	5.9
11	11	REMARKS	●	●°
12		Duration of Sunshine	haurs	hours
13		AIR TEMPERATURE Min.	8.7	8.7
16	28	Amount of Evaporation	3.5	(3.5)
18		DIRECTION AND VELOCITY OF THE WIND	VELNCITY	VELOCITY
21		RELATIVE HUMIDITY	RERATIVE	RELATIVE
"	19	EARTH TEMPERATURE 20 cm	12.2	17.2
"	24	" 5 cm 14 h	11.2	16.2
"		AIR TEMPERATURE	AIL	AIR
23		"	AIL	AIR
25		RELATIVE HUMIDITY	25 h	22 h
32	Apr. 26-30	FIVE-DAYS MEANS Relative Humidity	72	70
34	No. 13	S (NS)	e25 31	25 31
37	No. 169	S (Z)	15 36	e15 36
41	No. 425	P (EW)	22 00 56	e22 00 56
42	No. 465	Intensity	0	I
"	No. 492	P (EW)	15 00 03	e15 00 03
46		NO. OF DAYS WITH Precipitation	0.1 ≥	≥ 0.1
49		EARTH TEMPERATURE	Mesured	Measured
50		MEAN DIRECTION AND VELOCITY OF WIND	VELOCITU	VELOCITY
53		NO. OF DAYS WITH MAXIMUM AIR TEMP. > 25°C	Jan.	Jun.

Introduction

This annual report contains all the meteorological and seismological data observed at the International Latitude Observatory of Mizusawa during 1961 which may serve to investigate the meteorological and seismological effects on the latitude observations. These observations have been continued since 1902. This report gives also the meteorological average values for the 60 years from 1902 to 1961.

The majority of meteorological instruments are situated in the observing field about 10 meters north of the visual zenith telescope room. In this field, there are the motor-driven aspiration psychrometer, maximum and minimum thermometers, thermograph, hygograph, pluviograph, Hellmann's chionograph, rain gauges, ordinary and large-sized evaporimeters, L-tube earth thermometers, Simon's earth thermometers, snow measuring plates, snow gauge and Robitzsch actinograph. The Fortin's mercurial barometer, three aneroid barographs, Richard's "Baromètre de Gravité" and anemograph are set in the seismograph room, about 110 meters NNE of the visual zenith telescope room. The Robinson's cup anemometer, wind vane and Jordan's sunshine recorder are fixed on the top of the observing tower above the building of the meteorological section, about 16.5 meters high above the ground.

The meteorological observations and computations are performed in accordance with the instructions issued by Japan Meteorological Agency, Tokyo. Observations have been made six times a day, that is, at 2^h, 6^h, 10^h, 14^h, 18^h and 22^h of Japanese Standard Time of the meridian 135°E (9^h east of Greenwich) as a routine work. This distribution of times of observation appears to be convenient to investigate the meteorological effects on the latitude observations. The observing programme of the international latitude observations was altered since January 6, 1955 and the three groups were observed during the one night. The central time of each group corresponds to 22^h for the evening group, 0^h for the intermediate group and 2^h for the morning group respectively.

The following points are to be noted as for the meteorological observations:

1. *Air Pressure*.—The barometric readings in the unit of millibar (mb) are reduced to the freezing point of water and the standard gravity at 45°N of latitude, 980.665 dynes. The observed gravity at Mizusawa is 980.162 dynes according to the measurements of the Geographical Survey Institute of Japan. This value referred to the Potsdam Gravity System is reduced to the Meteorological Gravity System by adding (−0.013 dynes) to the former. These corrected values are defined as the station pressure. Moreover, those reduced to the mean sea level (M.S.L. Pressure) are given in the next columns. The Gothic figures represent the maximum or minimum values in a given month.
2. *Air Temperature*.—The dry-bulb thermometer of the motor-driven aspiration psychrometer is adopted as standard. Air temperature is recorded in degrees Centigrade (°C) and the value below 0°C are prefixed by a minus sign. Maximum and minimum air temperatures are the highest and lowest temperature between 0^h and 24^h of the day respectively. Maximum or minimum thermometer is reset usually at 22^h, and so the selfrecording instrument is applied to observe the occurrence of maximum or minimum air temperature between 22^h and 2^h. The Gothic figures in the "Max., Min." represent the maximum, minimum values in a given month.
3. *Wind Velocity and Wind Direction*.—The unit of the wind velocity is meters per second. The wind velocity at the time of observation indicates ten minutes' mean velocity before the time of observation. The values of the wind velocity measured by Robinson's cup anemometer are multiplied by the factor C determined by the following formula;

$$\log C = 0.3411 - 0.2151 \log (V + 10),$$

where V represents the wind velocity measured by Robinson's cup anemometer. This formula was derived experimentally from the wind tunnel at Japan Meteorological Agency and it was adopted regularly since January 1, 1949.

The wind velocity in the column of "Mean for 24^h" are computed from the value of the total air movement in a 24-hour period (0^h—0^h). The wind direction are indicated

on a 16 point-scale. When the wind velocity is less than 0.4 meters per second, the wind direction is denoted as “—”.



4. *Relative Humidity and Vapour Pressure.*—The motor-driven aspiration psychrometer is used and Sprung's psychrometric formula is applied to derive the vapour pressure in mb as

$$e = E' - A(t - t') \frac{P}{755},$$

where e denotes the vapour pressure in mb, E' the saturation vapour pressure at t' , $t - t'$ the temperature difference between the dry-bulb and the wet-bulb thermometers and P the air pressure in *mm Hg*. The factor A is put as $1/2$ according to Sprung and 0.44 in the case of the freezing of the wet bulb.

5. *Cloud Amount.*—The cloud amount is measured visually by the amount of the sky covered with clouds and expressed in tenths of the whole sky covered.
6. *Duration of Sunshine.*—The number of hours with sunshine is the value read from Jordan's sunshine recorder (heliograph). Minutes of time are converted into tenths of one hour. The sunshine in percent of the possible amount for the month is also shown.
7. *Total Solar and Sky Radiation on the Horizontal Surface.*—It is measured by the Robitzsch actinograph. The instrumental constant k corresponding to 1 cm of displacement of the pen is $0.550\text{ gr.cal./cm.min.}$
8. *Amount of Evaporation.*—It is measured by two evaporimeters with 20 cm (ordinary) and 120 cm (large-sized) of diameter respectively. The ordinary evaporimeter is poured into by water up to 20 mm from the bottom at 10^h once a day. The large-sized evaporimeter is used regularly during the unfrozen months from May to October, since 1956. The amount of evaporation is recorded in mm and its daily data are the values measured at 10^h once a day.
9. *Precipitation.*—It is recorded in *mm* and observed with the rain gauge with 20 cm of diameter. The Gothic figures represent the maximum amount in four hours during a given month. Precipitation in the daily data is the total obtained in 24 hours from 22^h of the preceding day to 22^h of the day.
10. *Earth Temperature.*—The L-tube earth thermometers of $0.05, 0.10, 0.20,$ and 0.30 meters of depth and Simon's earth thermometers of $0.5, 1.0, 2.0, 3.0, 5.0$ and 6.0 meters of depth are employed. The earth temperatures at $0.05, 0.10, 0.02$ and 0.30 meters of depth in the daily data are the average values of six observations in a given day, and those at $0.5, 1.0, 2.0, 3.0, 5.0$ and 6.0 meters of depth in the monthly data are the average values of daily observations made at 10^h once a day.

●	Rain	⊕	Blowing snow	⊙	Drifting dust
☉	Rain shower	⊕⊕	Snow storm	⊙	Blowing dust
☂	Freezing rein	☾	Dew	☉	Dust storm or Sand storm
☂	Drizzle	☾	White dew	⊕	Dust whirl or Sand whirl
☂	Freezing drizzle	☾	Hoar-frost	⊕	Solar halo
✱	Snow	☾	Ice columns	☾	Lunar halo
✱	Snow shower	☾	Air hoar	⊙	Solar corona
☉	Rain and snow mixed	∨	Soft rime	☾	Lunar corona
☉	Rain and snow mixed shower	∨	Hard rime	☉	Irisation
✱	Snow pellets	∞	Glaze	☾	Rainbow
△	Snow grains	☒	Snow coverage	☉	Thunderstorm
△	Ice pellets	☒	Freezing	☉	Lightning
◆	Small hail	☒	Spout	☉	Thuder
▲	Hail	∞	Haze	☉	Gale
↔	Ice prisms	☉	Dust haze	☉	Rain in the neighbourhood
≡	Fog	☉	Yellow sand	☉	Snow in the neighbourhood
≡	Ice-fog	☉	Smoke	☉	Fog in the neighbourhood
=	Mist	☉	Ash fall	☉	Drifting snow

11. *Clear and Cloudy Days*.—The cloud amount is less than 2.5 exclusive for the clear days and more than 7.5 inclusive for the cloudy days.
12. *Sunless Days*.—They indicate the days without record on Jordan's sunshine recorder through the whole daytime.
13. *Weather Symbols*.—On recoding the meteorological phenomena, the following symbols adopted by Japan Meteorological Agency were used;

Here, the intensity of the meteorological phenomena is represented by three suffices on right side above the symbol, that is, 0, 1 and 2, according to the instructions issued by the Japan Meteorological Agency.

The heights of the meteorological instruments are as follows:

Barometer.—63.7 m above mean sea level.

Air Temperature Thermometer.—1.3 m above the ground.

Anemometer.—16.5 m above the ground.

Anemoscope.—16.5 m above the ground.

Rain Gauge.—0.6 m above the ground.

As an appendix, the meteorological average values for the 60 years from 1902 to 1961 were inserted.

The observations and computations have been worked out by Messrs, I. Kumagai, K. Suzuki, T. Goto, and N. Kikuchi, under the superintendence of Dr. C. Sugawa, the chief of the Meteorological Section.

Nov. 1962

T. Ikeda

Director of the International Latitude Observatory
of Mizusawa.





International
Seismological
Centre

JANUARY, 1961

METEOROLOGICAL OBSERVATIONS



JANUARY, 1961.

Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	999.3	0.8	3.7	4.7	7.8	9.8	4.4	7.4	9.0	11.8	12.7	16.0	18.0	12.5	-5.0	-5.4	-1.8	0.4	-7.6	-8.2	-4.6
2	11.0	11.1	12.7	12.0	13.7	15.0	12.6	19.4	19.5	21.0	20.2	21.7	23.1	20.8	-12.2	-13.4	-4.6	-1.4	-2.0	-2.3	-6.0
3	16.3	16.6	16.9	13.1	10.5	6.9	13.4	24.4	24.9	25.1	21.1	18.4	14.9	21.5	-3.9	-5.2	-0.8	2.2	0.1	-0.2	-1.3
4	2.6	998.9	995.7	992.7	996.6	1.3	998.0	10.7	6.9	3.6	0.5	4.6	9.4	6.0	-2.0	-1.2	0.2	3.6	-0.9	-4.4	-0.8
5	2.5	3.7	7.5	6.9	9.0	8.9	6.4	10.6	11.8	15.7	15.0	17.1	17.1	14.6	-5.1	-5.1	-4.1	-2.6	-3.4	-2.9	-3.9
6	7.6	7.9	9.3	6.5	7.6	7.9	7.8	15.8	16.1	17.3	14.6	15.8	16.3	16.0	-3.5	-4.5	-2.4	-2.6	-4.8	-9.2	-4.5
7	8.7	9.4	11.6	11.0	12.4	13.9	11.2	17.1	17.6	19.8	19.1	20.6	22.0	19.4	-8.4	-5.4	-2.9	-2.4	-2.3	-3.4	-4.1
8	15.0	15.8	16.4	13.1	14.7	14.4	14.9	23.3	23.9	24.7	21.1	22.7	22.5	23.0	-6.3	-12.2	-5.8	2.2	1.2	-0.9	-3.6
9	13.4	12.8	13.8	14.1	15.9	15.9	14.3	21.4	20.9	21.8	22.0	24.0	24.0	22.4	0.1	-1.6	0.8	1.8	1.4	-1.3	0.2
10	16.7	15.3	13.6	9.5	8.2	4.6	11.3	24.8	23.5	21.6	17.5	16.3	12.7	19.4	-3.7	-4.0	-2.8	-0.6	-1.8	-1.9	-2.5
11	4.1	3.5	3.4	2.8	4.7	4.6	3.9	12.2	11.7	11.5	10.9	12.8	12.8	12.0	-1.6	-4.5	-3.4	-3.5	-6.4	-7.9	-4.6
12	7.0	7.4	8.3	7.3	11.9	13.7	9.3	15.2	15.7	16.5	15.5	20.2	21.9	17.5	-8.5	-9.4	-6.0	-5.1	-7.6	-7.2	-7.3
13	14.5	16.7	16.6	13.6	14.2	13.7	14.9	22.8	25.3	24.9	21.7	22.4	21.7	23.1	-9.6	-14.4	-8.1	-3.4	-2.9	-4.2	-7.1
14	11.7	11.2	12.4	11.5	12.4	13.6	12.1	19.9	19.5	20.6	19.6	20.6	21.6	20.3	-5.3	-5.4	-2.0	-0.2	-1.4	-2.4	-2.8
15	13.4	12.6	13.1	11.1	12.0	11.8	12.3	21.6	20.8	21.2	19.1	20.2	20.1	20.5	-4.6	-7.1	-4.1	0.2	-4.4	-9.7	-5.0
16	10.3	9.5	9.6	8.0	9.6	11.0	9.7	18.6	17.6	17.7	16.1	17.6	19.2	17.8	-7.6	-5.8	-3.4	-0.1	-2.7	-3.4	-3.8
17	12.3	13.0	12.7	10.9	12.3	13.4	12.4	20.6	21.4	20.9	18.9	20.6	21.8	20.7	-6.1	-10.4	-5.0	-1.3	-7.6	-12.4	-7.1
18	13.0	12.4	13.2	9.4	10.8	12.4	11.9	21.5	20.8	21.4	17.4	19.1	20.8	20.2	-14.8	-10.1	-6.4	-2.2	-8.0	-11.5	-8.8
19	12.3	14.3	15.8	14.0	15.0	15.7	14.5	20.8	22.7	24.0	22.0	23.2	23.9	22.8	-13.2	-12.4	-5.9	-3.1	-4.3	-5.9	-7.5
20	15.9	16.0	17.6	16.0	16.7	15.9	16.4	24.1	24.3	25.8	24.1	24.8	24.1	24.5	-4.9	-5.4	-2.0	0.7	-2.4	-5.0	-3.2
21	15.1	12.7	9.1	2.9	2.5	2.7	7.5	23.5	21.1	17.3	10.8	10.5	10.7	15.7	-9.6	-10.8	-6.6	3.3	1.6	0.9	-3.5
22	1.2	998.7	2.0	2.5	4.9	5.2	2.4	9.2	6.7	10.0	10.6	13.1	13.4	10.5	0.0	-1.0	-1.0	-1.7	-4.6	-5.4	-2.3
23	4.8	5.2	8.0	7.9	10.8	11.8	8.1	13.1	13.6	16.3	16.0	19.0	19.9	16.3	-7.4	-11.3	-6.4	-3.0	-4.0	-2.5	-5.8
24	12.2	12.2	14.1	11.5	11.4	9.6	11.8	20.3	20.3	22.1	19.5	19.5	17.6	19.9	-1.8	-0.9	1.0	1.8	-1.2	-3.6	-0.8
25	5.7	0.5	994.0	985.1	983.3	983.5	992.0	13.8	8.5	1.9	992.9	991.0	991.3	999.9	-2.8	-2.1	-0.3	0.8	2.7	3.8	0.4
26	986.2	987.9	989.7	987.1	988.0	994.7	988.9	994.1	995.9	997.6	995.1	995.9	2.6	996.9	0.8	-1.6	-0.9	-1.9	-0.2	0.9	-0.5
27	0.3	6.2	10.9	11.8	13.8	13.4	9.4	8.3	14.2	18.9	19.8	21.7	21.4	17.4	0.2	0.3	1.6	1.9	-0.2	-1.3	0.4
28	12.1	11.5	11.9	11.3	12.6	12.9	12.1	20.2	19.7	19.9	19.4	20.7	21.1	20.2	-1.9	-2.2	0.1	-1.3	-3.1	-2.9	-1.9
29	12.9	12.4	12.2	8.9	8.9	7.9	10.5	21.1	20.8	20.4	17.0	17.0	16.1	18.7	-3.7	-9.8	-5.4	-1.6	-3.3	-4.9	-4.8
30	7.0	6.3	6.6	3.3	3.8	2.8	5.0	15.4	14.5	14.7	11.3	11.8	10.9	13.1	-6.8	-5.8	-3.6	-0.8	-1.5	-2.7	-3.5
31	0.5	0.5	998.2	994.1	993.1	992.7	996.5	8.5	8.5	6.1	1.9	1.1	0.7	4.5	-2.3	-1.9	-0.2	2.3	-3.7	-1.4	-1.2
Mean	8.6	8.5	9.1	6.9	8.0	8.4	8.3	16.8	16.7	17.2	14.9	16.1	16.6	16.4	-5.2	-6.1	-3.0	-0.6	-2.8	-4.0	-3.6

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	WNW	1.7	NNW	1.3	WSW	1.5	NNW	7.3	WNW	3.0	—	0.0	2.5	2.6	7.5	275		
2	WNW	0.7	WNW	1.5	—	0.2	NNW	1.1	ENE	2.0	ENE	2.4	1.3	1.2	1.8	205		
3	NE	0.4	E	1.1	—	0.0	S	1.7	E	0.4	E	3.0	1.1	1.2	—	151		
4	NNE	0.4	—	0.0	—	0.0	NNW	6.5	WNW	13.4	NW	4.4	4.1	4.5	0.2	123		
5	W	10.3	W	10.1	W	4.4	W	8.9	WNW	13.2	WNW	7.8	9.1	8.4	—	61		
6	S	0.7	WNW	4.0	—	0.2	NW	1.1	NNE	2.2	—	0.0	1.4	2.5	4.7	263		
7	NNW	3.4	NNE	4.4	N	3.4	ENE	2.0	E	0.4	SSW	1.5	2.5	2.5	—	182		
8	SE	1.3	—	0.2	—	0.0	SSE	6.1	SE	2.4	—	0.2	1.7	2.1	2.5	215		
9	—	0.0	—	0.0	—	0.2	N	3.8	NNW	3.8	ENE	2.0	1.6	1.7	—	109		
10	NW	1.3	N	1.5	—	0.2	WNW	0.9	N	1.5	WNW	0.9	1.1	2.3	—	92		
11	N	6.3	NNW	4.0	N	6.5	WNW	7.4	N	6.1	NW	2.4	5.5	5.2	1.0	189		
12	NW	3.0	NNW	4.6	E	2.0	WNW	7.6	WNW	3.0	N	5.4	4.3	4.2	5.9	266		
13	N	3.0	W	1.3	—	0.0	NNW	1.7	NE	1.1	—	0.0	1.2	1.4	0.5	157		
14	—	0.0	NW	0.7	—	0.2	NNW	6.7	NNW	6.1	S	1.5	2.5	2.4	4.2	244		
15	—	0.0	—	0.0	W	1.5	—	0.0	E	1.3	—	0.0	0.5	0.8	1.7	229		
16	SSW	0.4	NNW	3.2	NNW	3.2	—	0.0	WNW	0.7	W	2.6	1.7	1.9	2.3	221		
17	NNE	2.6	NNE	1.7	NE	0.9	NNW	2.6	—	0.0	—	0.0	1.3	1.8	5.2	265		
18	WNW	1.7	NW	2.0	N	3.6	N	3.8	W	2.8	N	1.5	2.6	2.8	4.9	292		
19	WNW	1.3	WNW	1.1	—	0.2	SE	0.9	—	0.0	ESE	1.7	0.9	0.8	3.8	259		
20	—	0.0	—	0.0	—	0.0	NW	1.3	—	0.0	—	0.0	0.2	0.3	4.3	295		
21	SSE	1.5	—	0.0	W	0.4	SSE	5.0	SSE	2.2	N	1.5	1.8	2.2	1.2	207		
22	—	0.0	E	0.4	W	8.4	W	9.8	W	13.5	ENE	2.2	5.7	5.5	2.1	178		
23	N	2.0	—	0.2	W	0.9	ESE	2.6	N	4.2	NNW	7.3	2.9	2.8	1.9	192		
24	NE	6.1	NNW	8.9	NNW	3.6	NNW	0.7	NNE	2.4	—	0.0	3.6	3.5	3.7	292		
25	—	0.0	NNE	0.4	—	0.0	NNW	1.5	W	1.1	WNW	5.4	1.4	1.4	—	79		
26	WNW	3.2	W	8.4	WSW	5.5	W	18.2	W	14.4	WNW	8.4	9.7	8.5	0.7	148		
27	WNW	9.3	NNW	7.1	NNW	10.3	WNW	6.5	NW	6.3	ESE	1.3	6.8	6.8	2.6	285		
28	ESE	1.1	SE	2.0	WNW	2.8	NNW	8.9	N	6.1	N	5.0	4.3	4.6	5.6	290		
29	NNW	6.1	W	1.5	NW	0.7	WNW	0.4	—	0.0	W	0.4	1.5	1.7	6.8	308		
30	—	0.0	—	0.0	NNW	1.3	NNW	3.2	NW	1.3	NW	1.1	1.2	1.3	0.5	144		
31	WNW	2.0	NNE	0.9	NNW	4.0	NNW	2.0	WNW	2.4	ENE	1.1	2.1	1.9	3.1	262		
Mean		2.3		2.3		2.1		4.2		3.8		2.3	2.8	2.9	78.7	6478		

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Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)								
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	1.3	-11.1	3.9	3.9	4.4	4.0	2.5	2.7	3.6	93	95	81	64	73	82	81	10	10	6	3	0	7	6.0
2	-0.1	-14.1	2.1	1.8	3.7	5.0	4.9	4.7	3.7	86	84	85	91	92	92	88	2	10	10	10	10	10	8.7
3	2.7	-8.0	4.3	4.0	5.2	4.9	5.2	4.7	4.7	94	95	90	68	84	79	85	10	10	10	10	10	10	10.0
4	4.1	-4.9	4.7	5.1	5.7	6.2	4.0	4.1	5.0	88	91	91	79	70	94	86	10	10	10	10	0	10	8.3
5	-2.2	-5.4	3.9	3.7	4.1	4.1	4.1	3.9	4.0	93	88	90	82	87	80	87	10	10	10	10	10	10	10.0
6	0.0	-9.3	4.3	3.9	3.7	3.6	3.1	2.8	3.6	91	89	73	70	73	91	81	10	10	10	5	3	9	7.8
7	-1.9	-9.5	2.7	3.0	3.4	4.2	4.1	4.3	3.6	84	73	70	82	78	91	80	2	4	10	10	10	10	7.7
8	2.6	-12.7	3.5	2.1	3.4	5.1	5.8	5.5	4.2	92	85	85	71	86	95	86	8	0	6	9	10	10	7.2
9	2.2	-3.7	6.0	5.1	6.3	5.6	4.7	4.2	5.3	98	95	97	80	70	75	86	10	10	10	10	5	3	8.0
10	-0.4	-4.4	4.0	3.8	4.0	5.2	5.3	5.2	4.6	86	83	80	89	98	98	89	10	10	10	10	10	10	10.0
11	-1.6	-8.2	4.5	3.3	3.5	3.2	2.6	2.9	3.3	83	75	73	68	69	85	76	10	10	10	10	2	10	8.7
12	-2.8	-11.3	2.9	2.3	2.7	2.9	2.7	2.3	2.6	90	78	69	69	78	64	75	9	2	6	4	3	0	4.0
13	-2.0	-14.5	2.2	1.8	2.6	3.8	4.3	4.1	3.1	75	87	80	81	87	92	84	0	7	10	10	8	10	7.5
14	1.2	-6.2	3.8	3.8	4.2	4.4	4.1	4.5	4.1	93	93	79	73	75	88	84	7	10	1	10	10	10	8.0
15	0.6	-11.3	4.0	3.4	3.9	3.9	3.7	2.6	3.6	92	93	85	63	83	88	84	10	1	7	10	7	0	5.8
16	0.2	-10.2	3.2	3.8	4.0	4.6	4.8	4.5	4.2	93	94	85	75	96	95	90	10	10	10	10	10	10	10.0
17	-0.2	-13.2	3.5	2.5	3.1	3.5	2.9	2.1	2.9	90	91	74	62	85	89	82	0	0	10	7	0	0	2.8
18	-1.6	-15.7	1.7	2.4	2.9	2.6	2.1	2.2	2.3	87	85	75	49	62	86	74	0	10	8	6	1	2	4.5
19	-1.0	-15.8	1.9	2.1	2.7	3.9	4.0	3.7	3.1	84	89	69	81	89	94	84	0	8	10	10	10	10	8.0
20	1.7	-8.1	4.0	3.8	4.4	4.0	4.1	3.8	4.0	93	93	83	62	80	91	84	10	10	10	9	10	5	9.0
21	3.7	-11.7	2.7	2.4	3.5	4.6	6.4	6.1	4.3	91	90	94	59	93	93	87	0	10	9	10	10	10	8.2
22	0.4	-6.6	5.9	5.4	5.4	4.2	4.0	3.6	4.7	96	95	95	78	91	88	91	10	10	10	10	3	4	7.8
23	-2.2	-12.9	3.3	2.3	3.1	4.4	4.2	3.8	3.5	93	90	82	89	92	74	87	9	3	10	10	10	10	8.7
24	2.1	-3.9	3.8	4.0	4.5	4.4	4.2	4.0	4.2	70	70	68	63	75	84	72	7	10	8	10	10	10	9.2
25	4.2	-3.4	4.4	5.1	5.6	6.3	6.7	5.4	5.6	88	98	94	97	91	68	89	10	10	10	10	10	8	9.7
26	4.2	-2.9	6.1	4.2	4.2	5.3	5.9	5.4	5.2	95	76	74	100	98	83	88	10	10	10	10	10	10	10.0
27	2.4	-1.8	5.0	5.0	4.8	4.8	5.1	5.3	5.0	80	81	70	69	84	95	80	9	8	6	10	10	10	8.8
28	0.4	-3.4	4.9	4.9	4.7	3.9	3.4	3.5	4.2	92	94	77	70	69	72	79	10	10	10	8	6	10	9.0
29	0.1	-11.1	3.3	2.4	2.6	3.4	3.2	3.4	3.1	70	82	64	62	67	80	71	10	10	10	10	8	9	9.5
30	0.0	-7.3	3.3	3.6	4.3	5.1	4.9	4.6	4.3	89	90	93	88	89	92	90	10	10	10	10	10	10	10.0
31	2.8	-3.9	4.8	5.1	5.5	5.5	4.1	5.2	5.0	94	96	90	76	88	95	90	10	10	10	4	0	10	7.3
Mean	0.7	-8.6	3.8	3.5	4.1	4.4	4.2	4.0	4.0	88	88	81	75	82	86	83	7.5	8.2	8.9	8.9	7.0	8.0	8.1

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)									REMARKS	
	22-2 ^h 2-6 ^h 6-10 ^h			10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm					Daily Mean					
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm	20 cm	30 cm		
1	0.1	—	—	—	—	—	0.1	0.8	0.8	0.8	1.0	0.9	0.7	0.8	1.1	2.3	3.5	☐ ¹ , ☐ ⁰ , ☐
2	—	—	—	0.4	0.5	0.0	0.9	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.8	2.1	3.4	☐ ¹ , ☐ ⁰ , ☐ ¹ , ☐
3	0.1	0.0	—	—	—	—	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	2.0	3.3	☐ ⁰ , ☐ ⁰ , ☐
4	—	0.2	0.4	0.0	0.6	1.7	2.9	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.9	2.0	3.3	☐ ¹ , ☐ ⁰ , ☐, ☐, ☐, ☐, ☐ ¹ , ☐
5	2.5	1.1	1.7	2.9	0.7	0.2	9.1	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.9	2.0	3.3	☐ ¹ , ☐ ¹ , ☐ ¹ , ☐ ⁰ , ☐ ¹ , ☐ ⁰ , ☐
6	0.7	0.5	0.2	—	—	0.0	1.4	0.7	0.7	0.8	1.0	0.8	0.7	0.8	1.0	2.1	3.3	☐ ¹ , ☐ ⁰ , ☐
7	0.0	—	0.1	0.3	0.4	0.2	1.0	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.8	2.0	3.2	☐ ¹ , ☐ ⁰ , ☐, ☐
8	0.0	—	—	—	0.0	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.9	3.2	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐, ☐
9	0.5	0.5	0.0	0.2	0.0	—	1.2	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.8	1.9	3.2	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐, ☐, ☐ ¹ , ☐
10	—	—	—	0.4	2.9	0.9	4.2	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.9	1.9	3.2	☐ ⁰ , ☐ ⁰ , ☐, ☐
11	—	—	0.0	0.0	—	0.0	0.0	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.8	1.9	3.1	☐ ¹ , ☐ ⁰ , ☐, ☐ ¹ , ☐
12	1.1	0.1	0.0	—	0.0	—	1.2	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.8	1.9	3.1	☐ ¹ , ☐ ⁰ , ☐
13	—	—	0.1	0.3	—	—	0.4	0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	0.5	1.7	3.0	☐ ¹ , ☐ ⁰ , ☐
14	—	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.4	1.6	2.8	☐ ¹ , ☐ ⁰ , ☐
15	0.0	0.0	—	—	—	—	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	2.8	☐ ¹ , ☐ ⁰ , ☐
16	—	0.8	0.9	—	1.7	0.1	3.5	-0.2	-0.3	-0.2	0.0	0.0	0.0	-0.1	0.2	1.4	2.7	☐ ¹ , ☐ ⁰ , ☐
17	0.0	—	—	—	—	—	0.0	0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.1	1.4	2.6	☐ ² , ☐
18	—	—	—	—	—	—	—	-0.5	-0.6	-0.6	-0.3	-0.4	-0.9	-0.6	-0.2	1.2	2.6	☐ ¹ , ☐ ⁰ , ☐
19	—	—	—	0.0	0.0	0.2	0.2	-1.1	-1.4	-1.1	-0.5	-0.3	-0.5	-0.8	-0.5	1.1	2.5	☐ ¹ , ☐ ⁰ , ☐
20	0.4	0.5	0.3	0.0	0.0	0.0	1.2	-0.5	-0.4	-0.3	-0.2	-0.1	-0.1	-0.3	-0.3	1.1	2.4	☐ ¹ , ☐ ⁰ , ☐
21	—	—	—	—	2.3	0.9	3.2	-0.2	-0.5	-0.5	-0.3	-0.2	0.0	-0.3	-0.3	1.0	2.4	☐ ¹ , ☐ ¹ , ☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐, ☐
22	0.7	3.5	5.0	2.6	0.7	0.2	12.7	0.0	0.0	-0.2	0.1	-0.1	-0.1	-0.1	0.0	1.1	2.3	☐ ¹ , ☐ ⁰ , ☐ ¹ , ☐ ¹ , ☐ ¹ , ☐ ¹ , ☐
23	0.0	0.2	0.0	1.2	0.9	0.0	2.3	0.0	0.0	-0.2	0.1	-0.1	-0.1	-0.1	0.0	1.1	2.3	☐ ¹ , ☐ ⁰ , ☐
24	0.0	0.0	0.0	—	—	—	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	1.1	2.4	☐ ⁰ , ☐ ⁰ , ☐ ¹ , ☐
25	0.0	1.4	2.0	8.7	0.7	0.7	13.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.1	2.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐, ☐
26	1.7	1.3	0.7	3.0	7.1	2.4	16.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	1.1	2.2	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ¹ , ☐ ¹ , ☐
27	0.0	0.0	0.1	0.0	0.0	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.1	2.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐
28	0.2	1.9	0.5	0.0	—	—	2.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.1	2.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ¹ , ☐
29	—	—	—	—	—	—	—	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.1	2.3	☐ ¹ , ☐ ¹ , ☐
30	—	—	0.3	1.2	0.0	0.0	1.5	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	1.1	2.3	☐ ¹ , ☐ ⁰ , ☐, ☐
31	0.0	3.3	3.4	—	—	3.0	9.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.1	2.3	☐ ⁰ , ☐ ¹ , ☐, ☐

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Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C							
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	
1	990.5	988.9	989.4	990.1	994.5	998.4	992.0	998.5	996.8	997.3	998.0	2.4	6.5	999.9	-1.6	-0.9	0.9	1.6	-1.4	-1.8	-0.5	
2	999.9	1.3	2.4	0.3	2.0	2.6	1.4	8.0	9.5	10.3	8.1	10.1	11.0	9.5	-2.6	-8.3	0.5	2.6	-6.4	-12.1	-4.4	
3	2.6	3.0	3.2	1.7	5.2	7.4	3.9	11.0	11.4	11.3	9.6	13.2	15.6	12.0	-10.5	-12.4	-3.5	2.0	0.2	-3.8	-4.7	
4	9.4	12.5	15.0	14.6	17.0	17.1	14.3	17.6	20.8	23.1	22.6	25.1	25.3	22.4	-8.4	-6.2	0.3	3.1	-1.2	-3.4	-2.6	
5	17.9	18.0	19.4	17.9	18.1	17.9	18.2	26.1	26.1	27.5	25.9	26.3	26.3	26.4	-1.1	-0.7	0.2	2.6	-2.5	-7.6	-1.5	
6	16.1	16.2	15.5	11.0	11.0	8.9	13.1	24.4	24.6	23.7	19.0	19.0	16.9	21.3	-5.8	-6.9	-1.7	3.7	2.3	1.5	-1.2	
7	3.8	998.0	989.6	978.9	979.3	982.5	988.7	11.8	6.0	997.5	986.6	987.0	990.1	996.5	0.4	0.2	1.1	3.9	4.6	3.9	2.4	
8	984.6	987.8	991.0	989.7	991.8	992.6	989.6	992.3	995.6	998.8	997.6	999.8	0.5	997.4	2.4	0.6	1.4	1.4	-0.2	-1.1	0.8	
9	993.7	994.3	994.9	992.7	994.2	992.6	993.7	1.7	2.2	2.8	0.5	2.2	0.6	1.7	0.1	0.9	1.2	1.5	-0.9	-2.7	0.0	
10	995.2	995.8	998.6	0.5	4.1	5.5	0.0	3.3	3.9	6.7	8.7	12.3	13.7	8.1	-3.7	-5.4	-4.7	-4.2	-5.8	-4.5	-4.7	
11	6.6	7.3	8.1	4.7	5.4	3.4	5.9	14.7	15.5	16.2	12.7	13.5	11.7	14.1	-3.2	-5.6	-1.2	0.6	-2.4	-9.5	-3.6	
12	0.1	996.4	993.5	988.1	991.9	999.1	994.9	8.4	4.7	1.6	996.1	999.8	7.1	3.0	-11.5	-11.4	-6.0	-2.8	-1.7	-3.6	-6.2	
13	2.6	5.4	6.3	3.2	1.3	999.5	3.1	10.7	13.7	14.4	11.2	9.3	7.5	11.1	-5.5	-5.5	-2.4	0.0	-1.0	-1.9	-2.7	
14	995.1	993.0	993.7	994.9	998.2	999.4	995.7	3.1	0.9	1.7	3.0	6.3	7.7	3.8	-0.8	-0.1	-2.2	-4.4	-5.9	-8.0	-3.6	
15	999.1	999.1	998.7	997.5	998.1	997.1	998.3	7.4	7.3	6.9	5.6	6.2	5.2	6.4	-7.8	-7.6	-6.2	-5.0	-6.2	-6.2	-6.5	
16	997.3	998.8	999.8	0.4	2.0	1.8	0.0	5.5	7.0	7.9	8.5	10.1	10.0	8.2	-6.7	-6.6	-4.0	-3.6	-5.6	-5.1	-5.3	
17	1.8	0.8	997.7	997.1	998.1	999.0	999.1	10.0	9.3	5.9	5.0	6.2	7.1	7.3	-6.5	-13.8	-6.0	-0.4	-6.1	-4.9	-6.3	
18	0.5	3.0	5.7	6.6	8.7	9.7	5.7	8.7	11.2	13.8	14.6	16.8	17.7	13.8	-6.0	-7.9	-1.1	0.7	-1.4	-2.1	-3.0	
19	10.4	10.7	12.1	12.2	14.6	15.3	12.6	18.6	19.1	20.2	20.3	22.7	23.4	20.7	-7.2	-9.8	-0.6	-0.6	-2.3	-1.3	-3.6	
20	15.8	16.2	17.1	14.3	12.8	10.7	14.5	23.9	24.4	25.1	22.1	20.8	18.7	22.5	-0.2	-2.8	3.5	4.6	2.1	0.3	1.3	
21	8.0	6.2	3.8	999.7	0.7	0.4	3.1	16.0	14.2	11.5	7.4	8.7	8.4	11.0	2.8	0.7	6.8	9.0	3.1	1.3	4.0	
22	1.1	1.0	0.7	0.3	2.6	3.4	1.5	9.2	9.1	8.7	8.3	10.6	11.5	9.6	-2.0	-2.7	0.8	1.2	-2.7	-4.5	-1.7	
23	3.5	5.3	6.1	6.6	8.7	9.7	6.7	11.7	13.5	14.2	14.7	16.8	17.7	14.8	-5.6	-4.2	-1.4	-2.2	-2.9	-2.6	-3.2	
24	11.0	11.8	12.7	11.9	13.3	14.1	12.5	19.1	20.0	20.8	19.9	21.3	22.4	20.6	-3.0	-6.4	1.0	1.9	0.0	-6.3	-2.1	
25	14.1	14.4	14.2	11.0	10.9	10.9	12.6	22.4	22.8	22.3	18.9	19.0	19.0	20.7	-8.8	-9.6	-2.8	4.2	0.0	-2.6	-3.3	
26	10.0	8.7	8.4	5.5	6.2	6.8	7.6	18.2	17.0	16.4	13.4	14.2	14.8	15.7	-7.7	-6.4	-0.7	3.7	1.2	0.2	-1.6	
27	8.2	8.3	11.4	11.5	14.5	16.6	11.8	16.3	16.3	19.4	19.5	22.5	24.7	19.8	-0.1	0.7	2.2	2.1	-0.2	-0.8	0.7	
28	17.2	18.4	18.2	16.1	17.0	19.4	17.7	25.5	26.7	26.3	24.0	25.1	27.5	25.9	-4.2	-7.0	0.4	5.0	3.1	2.7	0.0	
29																						
Mean	4.1	4.3	4.5	2.8	4.4	5.1	4.2	12.3	12.5	12.6	10.8	12.4	13.2	12.3	-4.1	-5.2	-0.9	1.2	-1.4	-3.1	-2.3	

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	—	0.2	SSE	3.0	WNW	3.6	NW	8.4	NW	6.9	NW	6.7	4.8	5.5	1.8	230		
2	NNW	4.8	N	1.3	W	1.3	NE	2.6	W	1.7	WNW	2.6	2.4	2.1	7.8	364		
3	—	0.2	NW	1.1	N	2.0	—	0.0	WSW	1.1	WSW	1.1	0.9	1.3	3.4	358		
4	SW	0.4	—	0.0	—	0.0	NNW	3.2	ENE	1.1	W	1.7	1.1	1.4	7.0	327		
5	SW	0.7	N	2.6	—	0.2	NNW	4.6	S	0.7	W	1.5	1.7	2.1	4.9	329		
6	W	0.7	NW	1.3	—	0.0	—	0.2	S	3.8	WSW	2.6	1.4	1.3	5.7	336		
7	—	0.0	NNE	1.3	NNW	3.0	N	7.4	WNW	3.4	NNW	8.4	3.9	4.9	—	104		
8	WNW	5.7	WNW	8.5	WNW	3.6	W	3.2	W	7.4	SE	1.3	5.0	3.9	3.2	259		
9	W	5.0	W	3.8	NNE	3.2	NNE	2.8	WNW	5.9	WNW	4.4	4.2	3.7	2.2	291		
10	W	5.0	WNW	2.0	W	9.4	W	8.2	N	3.0	WNW	7.6	5.9	5.4	1.2	187		
11	ENE	6.1	E	1.1	E	0.9	N	2.8	NNE	1.1	WNW	2.4	2.4	2.4	1.5	288		
12	NW	1.5	W	1.3	WNW	1.1	—	0.0	WNW	1.7	NNW	5.9	1.9	2.4	—	156		
13	NNW	12.0	N	10.3	NW	6.1	WSW	2.4	S	7.6	S	4.8	7.2	7.3	4.3	374		
14	S	4.4	—	0.0	NW	0.9	W	3.6	W	1.5	WNW	3.2	2.3	2.4	—	170		
15	—	0.0	WNW	1.3	NE	1.5	W	3.6	W	11.7	WNW	11.0	4.9	4.1	0.4	104		
16	W	11.3	SE	1.3	NW	3.6	W	8.7	W	12.0	NW	4.4	6.9	7.5	6.1	370		
17	ENE	3.0	S	2.2	SE	2.2	N	2.0	W	4.4	—	0.0	2.3	2.6	1.0	280		
18	N	4.0	NNE	1.1	NNW	4.8	WNW	6.5	NNW	4.8	N	2.8	4.0	3.3	8.0	444		
19	S	0.4	SE	1.3	ESE	1.7	W	5.9	—	0.0	ENE	3.2	2.1	2.6	2.8	357		
20	NNE	3.4	—	0.0	SE	3.0	SSE	3.0	S	4.6	SSE	4.2	3.0	2.7	5.8	365		
21	SSE	7.4	S	4.6	SSE	4.2	WSW	1.1	NE	1.7	WNW	5.2	4.0	3.9	6.5	377		
22	WNW	4.6	NW	4.8	NE	0.9	WNW	8.0	W	8.7	WNW	4.6	5.3	4.2	5.2	367		
23	W	3.2	NNW	5.0	WNW	7.3	W	6.3	WNW	8.2	NW	5.5	5.9	5.8	2.5	393		
24	NNW	7.1	NNW	3.4	ESE	1.7	NW	7.4	N	4.8	WNW	2.4	4.5	3.4	9.7	473		
25	W	0.7	N	2.8	W	1.1	NNW	0.4	S	2.4	S	2.2	1.6	1.6	9.7	475		
26	NW	0.9	NNE	0.7	—	0.2	E	0.4	—	0.0	W	0.9	0.5	0.8	0.7	293		
27	NNW	5.0	NNW	4.8	WNW	8.2	WNW	5.2	NNW	6.7	NNW	5.5	5.9	6.4	8.2	493		
28	SSE	1.3	WSW	2.0	NNW	0.7	SSE	0.9	—	0.0	NNW	7.1	2.0	2.4	5.3	402		
Mean		3.5		2.6		2.7		3.9		4.2		4.0	3.5	3.5	114.9	8966		

FEBRUARY, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)							AMOUNT OF CLOUD (0-10)						
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	3.3	-2.2	5.2	5.4	5.4	4.6	5.0	4.0	4.9	97	94	83	67	91	74	84	10	10	10	10	10	7	9.5
2	3.2	-12.3	3.4	2.3	3.2	3.3	2.7	2.2	2.9	67	72	51	45	71	89	66	6	7	3	6	1	10	5.5
3	3.5	-12.9	2.5	2.1	3.4	4.8	5.2	4.3	3.7	90	89	72	68	84	92	83	4	10	9	10	10	5	8.0
4	4.6	-9.1	3.0	3.6	4.7	4.9	4.8	3.8	4.1	92	94	75	65	86	81	82	6	10	2	3	6	3	5.0
5	3.6	-8.9	5.4	4.2	4.7	4.0	3.6	3.0	4.2	95	72	75	55	69	88	76	10	10	2	8	2	5	6.2
6	4.4	-7.5	3.4	3.2	3.7	3.9	5.0	5.6	4.1	85	88	68	48	70	82	74	10	10	5	10	10	10	9.2
7	5.0	0.1	5.8	6.0	6.3	7.6	6.7	5.9	6.4	93	96	95	94	79	74	89	10	10	10	10	10	10	10.0
8	3.5	-2.1	5.7	5.6	5.3	6.0	5.9	5.4	5.7	78	88	78	88	98	95	88	10	10	10	10	10	10	10.0
9	4.0	-2.9	4.7	4.1	5.1	5.2	4.0	4.7	4.6	77	63	77	77	70	93	76	10	10	10	9	10	10	9.8
10	-2.9	-6.6	3.4	3.8	3.7	3.6	3.5	3.0	3.5	74	93	85	79	87	68	81	10	10	10	10	10	0	8.3
11	1.4	-10.7	3.5	3.2	3.7	4.0	3.8	2.6	3.5	73	79	66	62	75	89	74	8	9	10	10	10	4	8.5
12	-0.8	-12.6	2.3	2.3	3.3	4.6	5.2	3.1	3.5	89	89	85	93	96	66	86	5	10	10	10	10	9	9.0
13	1.1	-6.6	3.0	2.6	3.2	3.7	4.0	5.0	3.6	75	64	62	61	70	94	71	10	10	10	10	8	10	9.7
14	0.3	-8.7	5.6	6.1	4.7	4.0	3.6	2.8	4.5	98	100	90	91	92	82	92	10	10	10	10	10	3	8.8
15	-3.8	-8.1	3.2	3.2	3.4	3.3	3.5	3.3	3.3	93	93	89	78	92	85	88	10	10	10	10	10	10	10.0
16	-1.6	-7.1	2.9	3.3	3.9	3.3	3.0	2.9	3.2	77	89	86	70	74	69	78	6	10	10	10	0	0	6.0
17	0.3	-14.7	2.8	1.8	3.3	5.0	3.4	4.0	3.4	75	87	85	84	87	93	85	0	0	10	8	4	10	5.3
18	2.5	-8.4	3.5	3.0	3.8	3.5	3.8	3.8	3.6	90	90	66	54	69	73	74	10	6	10	2	10	10	8.0
19	2.8	-10.5	3.2	2.6	4.8	4.5	4.8	4.0	4.0	91	91	81	76	94	71	84	4	10	10	10	10	6	8.3
20	5.1	-3.0	4.0	3.9	4.6	4.9	5.3	5.0	4.6	66	78	58	57	74	80	69	10	10	2	2	10	2	6.0
21	10.2	-1.3	5.5	5.0	5.2	4.9	6.3	5.3	5.4	73	77	52	43	83	78	68	10	10	7	7	10	4	8.0
22	3.4	-5.1	3.8	3.4	3.7	4.3	4.4	3.4	3.8	72	68	58	65	88	76	71	0	1	10	10	4	2	4.5
23	-0.4	-6.7	3.3	3.3	3.3	4.1	3.7	3.4	3.5	81	73	60	79	75	67	73	2	10	8	10	10	7	7.8
24	3.4	-6.7	3.3	2.9	3.7	3.8	3.7	3.1	3.4	68	75	56	55	60	82	66	2	10	1	1	3	10	4.5
25	6.6	-10.5	2.7	2.7	3.5	4.3	3.8	3.8	3.5	86	91	70	52	62	76	73	2	0	0	0	0	0	0.3
26	4.4	-7.9	3.2	3.5	4.6	5.4	5.3	5.7	4.6	93	92	79	67	80	91	84	7	10	10	10	10	10	9.5
27	3.5	-2.4	4.3	4.4	4.6	4.5	4.5	4.0	4.4	70	69	65	63	75	69	69	2	1	3	4	7	4	3.5
28	5.8	-7.3	3.3	3.0	4.1	4.8	5.6	4.7	4.3	73	84	65	55	74	64	69	3	4	0	10	10	0	4.5
Mean	2.7	-7.2	3.8	3.6	4.2	4.5	4.4	4.0	4.1	82	84	73	68	80	80	78	6.7	8.1	7.2	7.9	7.7	6.1	7.3

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)										REMARKS
	22-2 ^h 2-6 ^h 6-10 ^h			10-14 ^h 14-18 ^h		18-22 ^h	Total	5 cm					Daily Mean					
	22-2 ^h	2-6 ^h	6-10 ^h	10-14 ^h	14-18 ^h	18-22 ^h	Total	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm	20 cm	30 cm	
1	1.9	2.6	3.1	0.1	1.5	0.1	9.3	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	1.1	2.3	☐ ⁰ , * ² , † ¹ , ∇, ☒
2	0.3	—	—	—	—	—	0.3	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.2	1.1	2.3	☐ ² , ☒
3	—	—	0.0	—	0.2	0.0	0.2	0.0	-0.1	0.0	0.0	0.1	0.0	0.0	0.2	1.1	2.2	☐ ² , * ⁰ , ● ⁰ , ☒, ☒
4	—	0.1	0.1	—	—	—	0.2	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.1	1.1	2.2	☐ ¹ , * ⁰ , ☒, ☒
5	0.7	0.3	0.0	—	—	—	1.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	1.1	2.2	☐ ² , * ⁰ , ☒
6	—	—	—	—	—	0.1	0.1	-0.1	-0.2	-0.2	0.0	0.0	0.1	-0.1	0.1	1.1	2.2	☐ ² , * ⁰ , ♯ ⁰ , ☒
7	0.0	0.5	4.1	9.7	1.0	0.1	15.4	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.2	1.1	1.9	♯ ⁰ , ● ⁰ , ∇, ☒
8	0.5	0.9	0.6	0.4	1.3	0.2	3.9	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.7	☐ ⁰ , ● ⁰ , * ⁰ , * ⁰ , ☒, ☒
9	0.3	0.0	0.0	0.0	—	0.4	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	1.9	☐ ⁰ , * ¹ , † ⁰ , ☒, ☒
10	1.3	2.3	4.4	2.4	0.2	0.0	10.6	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	1.0	2.0	☐ ¹ , * ² , * ¹ , ∇, ☒
11	—	—	—	—	—	—	—	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	1.1	2.0	☐ ¹ , ☒
12	—	—	0.0	4.9	2.5	0.3	7.7	0.0	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.1	1.1	2.0	☐ ² , * ⁰ , * ¹ , ∇, ☒, ☒
13	0.1	0.0	0.2	0.0	0.0	1.9	2.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	1.0	2.0	☐ ¹ , * ⁰ , * ² , † ¹ , ☒, ☒
14	6.8	9.2	2.1	2.3	3.0	2.6	26.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	1.0	2.0	☐ ⁰ , * ² , * ² , ☒
15	1.6	5.4	5.2	2.8	2.8	0.4	18.2	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2	1.1	2.0	☐ ¹ , * ¹ , * ¹ , † ⁰ , ∇, ☒
16	0.2	1.5	2.1	0.1	0.0	—	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	2.0	☐ ¹ , † ⁰ , * ¹ , ∇ ⁰ , ∇, ☒
17	—	—	0.5	1.7	0.0	1.1	3.3	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.0	1.0	2.0	☐ ² , * ¹ , * ⁰ , ∇, ☒, ☒
18	0.4	0.0	0.4	—	0.0	0.0	0.8	0.0	-0.1	-0.2	-0.1	0.0	0.0	-0.1	0.0	1.0	2.0	☐ ¹ , * ⁰ , ☒
19	0.0	0.0	0.6	0.0	0.3	0.0	0.9	0.0	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	1.0	2.0	☐ ¹ , ∇ ⁰ , * ⁰ , ∇, ☒
20	—	—	—	—	—	—	—	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.0	2.0	☐ ¹ , ☒
21	—	—	—	—	—	—	—	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	1.0	2.0	☐ ⁰ , ∇, ☒
22	—	—	—	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.9	1.8	☐ ¹ , ∇ ⁰ , ☒, ∇, ☒
23	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	-0.1	0.0	0.0	0.1	0.0	0.1	0.9	1.8	☐ ¹ , ∇ ⁰ , * ⁰ , ∇, ☒
24	—	—	—	—	—	—	—	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.1	0.9	1.9	☐ ¹ , ☐ ⁰ , ☒
25	—	—	—	—	—	—	—	-0.2	-0.5	-0.4	0.0	0.0	0.0	-0.2	0.0	0.8	1.8	☐ ¹ , ☐ ¹ , ☒
26	—	—	0.0	—	—	—	0.0	-0.2	-0.5	-0.2	0.0	0.0	0.0	-0.2	-0.1	0.8	1.7	☐ ¹ , Δ ⁰ , ☒
27	—	—	—	—	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.8	1.7	☐ ⁰ , * ⁰ , ∇, ☒
28	—	—	—	—	0.2	0.4	0.6	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.8	1.7	☐ ⁰ , ● ⁰ , Δ ⁰ , ☒
Mean	14.1	22.8	23.4	24.4	13.2	7.6	105.5	0.0	0.0	-0.1	0.0	0.1	0.1	0.0	0.1	1.0	2.0	

MARCH, 1961.



Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	20.6	22.1	23.9	22.5	23.0	23.5	22.6	28.7	30.3	31.9	30.4	31.0	31.8	30.7	1.5	-0.5	5.5	8.1	3.9	-0.8	3.0
2	22.0	21.1	19.2	14.5	12.6	10.7	16.7	30.2	29.3	27.1	22.2	20.4	18.6	24.6	-2.3	-1.0	5.5	9.3	8.3	5.4	4.2
3	7.9	9.0	12.2	10.9	12.4	14.0	11.1	15.9	16.9	20.1	18.8	20.4	22.0	19.0	4.5	4.0	5.5	6.7	3.5	-1.3	3.8
4	12.2	11.2	12.7	9.9	10.1	10.4	11.1	20.2	19.2	20.7	17.7	18.0	18.3	19.0	1.2	1.6	0.7	2.9	1.7	1.2	1.6
5	8.8	8.3	7.5	6.6	7.6	9.6	8.1	16.8	16.4	15.4	14.5	15.6	17.5	16.0	0.7	0.7	2.3	5.3	2.1	1.8	2.2
6	9.1	9.9	11.1	9.3	10.1	10.8	10.1	17.1	17.9	19.0	17.1	18.0	19.0	18.0	1.0	0.5	4.8	5.1	2.4	-2.8	1.8
7	10.0	9.1	6.6	4.9	8.6	9.1	8.1	18.1	17.3	14.5	12.7	16.7	17.1	16.1	-5.4	-6.9	4.9	6.3	0.4	-1.2	-0.3
8	9.3	10.5	10.7	8.4	8.9	8.5	9.4	17.2	18.5	18.7	16.5	17.0	16.6	17.4	-1.2	-2.1	-1.3	-0.6	-1.6	-2.6	-1.6
9	6.6	6.4	8.4	7.5	8.4	9.4	7.8	14.7	14.5	16.6	15.5	16.6	17.5	15.9	-2.8	-3.4	-3.4	-1.8	-2.8	-3.1	-2.9
10	8.4	8.4	8.6	8.3	9.7	11.4	9.1	16.5	16.6	16.7	16.4	17.6	19.5	17.2	-2.7	-4.2	0.0	-1.3	-2.2	-3.0	-2.2
11	12.2	13.3	14.4	13.7	15.3	16.1	14.2	20.3	21.3	22.4	21.6	23.4	24.2	22.2	-2.2	-1.8	0.0	2.4	0.4	1.0	0.0
12	15.7	17.1	18.6	17.5	18.4	18.0	17.6	23.8	25.2	26.6	25.5	26.5	26.1	25.6	0.2	-0.8	5.3	6.1	1.8	0.1	2.1
13	18.9	20.1	20.5	18.4	19.6	20.2	19.6	26.9	28.3	28.5	26.4	27.6	28.2	27.7	2.0	-2.2	2.7	6.3	3.0	2.2	2.3
14	18.4	18.0	17.3	14.7	15.0	16.3	16.6	26.5	26.1	25.3	22.7	23.0	24.4	24.7	1.7	0.4	2.7	5.2	2.7	-0.1	2.1
15	16.5	17.4	18.2	16.9	17.7	19.1	17.6	24.7	25.6	26.2	24.8	25.8	27.3	25.7	-3.1	-2.4	3.4	5.8	1.2	-2.4	0.4
16	17.9	17.4	16.5	13.1	11.8	12.3	14.8	26.1	25.6	24.6	21.0	19.8	20.3	22.9	-4.0	-3.8	1.9	8.3	5.3	1.0	1.5
17	12.0	13.2	14.2	13.3	13.7	13.7	13.4	20.2	21.3	22.0	21.1	21.6	21.7	21.3	-2.4	-3.2	5.7	8.3	4.9	1.0	2.4
18	12.2	10.2	8.0	3.6	2.7	4.4	6.9	20.3	18.3	15.8	11.1	10.5	12.3	14.7	-1.0	-1.7	8.0	15.3	10.9	5.9	6.2
19	5.1	7.8	7.4	4.4	5.0	5.3	5.8	13.0	15.8	15.3	12.3	12.9	13.3	13.8	4.1	1.5	5.3	5.9	3.1	-0.2	3.3
20	4.2	4.8	5.2	3.7	5.7	7.7	5.2	12.3	12.8	13.1	11.5	13.6	15.7	13.2	-2.0	-2.0	4.5	7.1	3.9	1.2	2.1
21	7.9	9.3	9.2	7.1	9.0	9.2	8.6	15.9	17.3	17.1	1.49	16.9	17.2	16.6	0.5	0.1	6.1	8.6	3.6	-0.5	3.1
22	9.9	10.1	8.7	5.0	4.5	4.0	7.0	18.0	18.1	16.5	12.7	12.3	12.0	14.9	-3.3	-4.0	6.5	11.4	5.4	0.8	2.8
23	2.8	2.5	1.8	1.0	3.2	5.2	2.8	10.8	10.6	9.6	8.8	11.1	13.2	10.7	-0.1	-1.3	5.9	4.3	2.9	0.8	2.1
24	8.2	9.2	9.2	8.2	8.4	9.2	8.7	16.2	17.1	17.0	15.9	16.3	17.1	16.6	1.1	1.7	9.6	9.9	6.4	3.4	5.4
25	7.6	7.0	5.7	4.8	7.9	10.6	7.3	15.7	15.0	13.3	12.5	15.8	18.7	15.2	-0.8	-1.0	12.5	12.1	4.2	0.6	4.6
26	11.9	12.8	12.2	8.3	9.6	9.2	10.7	19.9	20.9	20.2	16.1	17.5	17.1	18.6	-1.1	-1.9	3.3	6.8	3.4	1.4	2.0
27	6.6	6.4	6.2	2.5	2.8	2.4	4.5	14.6	14.5	14.3	9.2	10.8	10.4	12.3	0.9	0.1	-0.2	-0.4	-0.8	-1.3	-0.3
28	1.2	3.1	6.0	6.5	9.7	13.1	6.6	9.3	11.1	13.8	14.4	17.5	21.1	14.5	-2.5	-1.0	3.3	6.7	2.1	1.9	1.8
29	14.4	16.9	17.9	15.6	15.5	15.7	16.0	22.4	25.0	25.8	23.4	23.4	23.6	23.9	1.0	1.5	7.2	10.3	6.5	5.2	5.3
30	11.7	7.4	8.0	9.6	10.5	10.9	9.7	19.6	15.2	15.9	17.2	18.3	18.8	17.5	5.5	6.0	7.3	9.4	5.7	3.5	6.2
31	10.4	9.6	8.7	4.7	4.8	6.5	7.5	18.4	17.6	16.5	12.2	12.4	14.3	15.2	-1.7	0.4	9.3	15.2	11.7	8.7	7.3
Mean	11.0	11.3	11.4	9.5	10.4	11.2	10.8	19.0	19.3	19.4	17.3	18.3	19.2	18.8	-0.4	-0.9	4.3	6.6	3.4	0.9	2.3

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND														Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)	
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	NNW	7.4	NE	2.6	NNE	0.7	E	1.3	N	1.7	SSE	2.4	2.7	2.5	9.7	454		
2	—	0.0	—	0.2	—	0.2	—	0.0	SW	4.8	SSE	4.4	1.6	1.8	7.1	430		
3	NNW	2.6	NNW	6.3	WNW	5.2	N	2.0	NE	1.3	—	0.0	2.9	3.8	2.4	347		
4	S	0.7	S	4.2	S	3.0	SSE	0.4	W	1.5	E	1.7	1.9	2.0	—	161		
5	—	0.0	WNW	0.9	—	0.0	NNW	2.2	W	7.3	NNW	5.4	2.6	2.6	1.4	209		
6	N	4.2	N	4.0	SW	1.7	N	3.4	N	0.4	WNW	0.7	2.4	3.2	9.9	534		
7	—	0.0	—	0.0	SSE	6.3	WSW	7.6	WNW	3.0	NW	3.6	3.4	3.2	5.9	384		
8	NW	3.4	ESE	0.4	E	2.2	S	1.3	—	0.0	S	3.2	1.8	2.0	—	214		
9	ESE	1.7	SSE	0.9	N	2.0	E	2.4	NW	4.4	N	5.2	2.8	3.0	2.0	316		
10	NNW	4.8	—	0.2	—	0.2	NW	4.4	N	4.6	NNW	4.8	3.2	3.2	3.6	443		
11	NNW	8.9	NNE	3.0	ENE	1.3	NW	3.8	N	1.1	NE	1.5	3.3	3.6	0.6	261		
12	ENE	1.7	ENE	1.5	W	0.9	WNW	5.4	WNW	3.4	E	1.7	2.4	3.1	10.1	517		
13	NW	3.2	—	0.0	NW	1.3	NNW	2.6	SSE	5.2	SSE	3.0	2.6	3.0	7.5	485		
14	SW	1.5	—	0.0	WNW	0.9	SSE	2.6	SSE	3.2	E	2.4	1.8	1.6	0.8	276		
15	WSW	0.7	N	3.2	W	2.0	NNW	3.4	NW	2.0	E	2.0	2.2	2.4	6.9	435		
16	WNW	1.7	NNE	1.3	NNW	1.1	S	5.9	SSE	2.2	—	0.2	2.1	1.9	7.2	454		
17	NW	0.9	NNW	1.5	N	3.4	NW	5.9	NNE	1.1	WSW	0.7	2.3	1.8	10.0	552		
18	NW	1.7	—	0.0	NW	2.0	WSW	8.0	E	3.4	NNW	10.5	4.3	3.9	7.1	452		
19	W	8.2	WNW	2.2	E	2.0	NNW	2.2	S	5.5	—	0.0	3.4	2.4	—	140		
20	WNW	1.3	N	1.5	NW	4.2	N	5.5	W	3.2	E	2.0	3.0	2.9	10.7	572		
21	SSE	1.1	NW	1.1	W	1.3	NW	3.6	NE	1.1	E	1.3	1.6	1.8	6.3	489		
22	—	0.0	—	0.0	SE	1.5	WNW	3.0	W	5.5	SSE	3.6	2.3	2.7	10.6	574		
23	—	0.2	NNE	0.9	NNW	1.1	NNW	7.3	NW	5.2	NW	6.1	3.5	3.8	4.5	372		
24	NNW	5.5	NW	3.6	WNW	5.0	WNW	6.9	SW	3.4	S	6.1	5.1	5.2	8.2	517		
25	SE	2.2	SE	1.1	WSW	4.2	NNW	4.4	NNW	5.0	NE	4.0	3.5	3.6	6.8	533		
26	N	6.9	NNW	3.4	NNW	3.2	W	1.1	SSE	4.8	NNE	2.0	3.6	3.5	4.5	402		
27	N	2.8	NNE	5.4	NNW	7.6	NNW	5.2	N	3.4	NNW	4.2	4.8	4.5	—	146		
28	NNW	2.4	—	0.0	NNW	5.9	NW	5.9	NNE	0.7	NW	4.8	3.3	3.5	7.3	542		
29	W	1.5	NE	0.4	N	1.7	W	3.4	SSE	8.0	S	3.4	3.1	3.1	9.5	580		
30	SSW	3.2	SSE	6.9	SSE	5.5	W	6.3	N	2.4	N	1.3	4.3	4.3	5.8	398		
31	—	0.0	NNE	2.6	N	0.7	W	8.7	WSW	6.1	NNE	2.0	3.4	3.4	9.7	521		
Mean		2.6		1.9		2.5		4.1		3.4		3.0	2.9	3.0	181.1	12710		



MARCH, 1961.

Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)							AMOUNT OF CLOUD (0-10)						
	Max.	Min.	2h	6h	10h	14h	18h	22h	Mean	2h	6h	10h	14h	18h	22h	Mean	2h	6h	10h	14h	18h	22h	Mean
1	9.5	-2.3	4.9	4.5	5.0	5.4	5.4	5.0	5.0	72	76	56	50	67	86	68	0	0	0	0	8	10	3.0
2	11.0	-3.0	5.1	5.5	5.8	7.1	5.9	6.0	5.9	98	97	64	61	54	67	74	10	10	10	3	9	10	8.7
3	7.2	-1.4	7.1	6.2	5.0	3.7	4.2	4.4	5.1	84	76	55	38	54	78	64	10	10	10	10	10	10	10.0
4	3.0	-2.1	5.6	5.5	6.2	6.1	6.3	6.4	6.0	85	80	96	81	92	97	89	10	10	10	10	10	10	10.0
5	5.8	0.5	6.3	6.2	7.0	6.1	5.2	4.6	5.9	98	96	97	68	72	66	83	10	10	10	9	1	7	7.8
6	5.6	-3.7	4.2	4.4	4.1	4.2	4.5	4.2	4.3	65	69	48	47	62	84	63	10	10	4	1	0	0	4.2
7	7.6	-7.0	3.8	3.4	5.1	6.0	4.1	4.5	4.5	92	93	59	63	65	80	75	0	0	0	7	10	10	4.5
8	-0.3	-3.3	4.0	4.2	4.9	5.0	4.7	4.5	4.6	71	81	88	85	87	90	84	10	10	10	10	10	10	10.0
9	0.0	-3.9	4.6	4.4	4.2	3.7	3.4	3.7	4.0	93	93	89	68	68	77	81	10	10	10	8	10	7	9.2
10	1.5	-6.3	3.8	4.2	4.9	4.6	4.0	4.3	4.3	76	94	80	82	77	87	83	10	10	10	8	10	10	9.7
11	2.8	-2.7	3.7	3.8	5.9	4.4	5.3	4.4	4.6	71	70	96	60	84	68	75	10	10	10	10	10	10	10.0
12	6.9	-1.6	5.4	3.9	3.8	4.3	4.5	4.1	4.3	87	67	42	45	64	66	62	10	6	7	6	2	0	5.2
13	7.0	-2.4	5.4	4.5	4.1	3.6	5.3	5.1	4.7	77	86	55	37	71	71	66	10	1	5	6	10	10	7.0
14	5.8	-1.8	5.3	5.8	6.2	6.3	6.1	5.3	5.8	77	93	84	72	82	88	83	10	10	10	10	4	0	7.3
15	5.8	-3.6	4.2	4.0	4.4	4.7	4.7	4.3	4.4	87	78	56	51	71	84	71	0	3	8	6	1	0	3.0
16	8.7	-4.4	4.1	3.9	4.8	6.0	6.3	6.1	5.2	90	84	69	55	70	93	77	0	10	10	10	10	5	7.5
17	8.6	-3.9	4.6	4.4	4.7	5.2	5.2	5.8	5.0	90	91	51	48	60	88	71	0	2	0	0	0	0	0.3
18	15.4	-2.1	5.3	5.0	8.1	6.6	7.7	7.4	6.7	93	93	76	38	59	79	73	2	10	10	6	10	10	8.0
19	6.1	-1.6	4.5	4.9	4.9	4.7	6.2	5.6	5.1	55	72	54	51	81	93	68	3	10	10	10	10	0	7.2
20	7.6	-2.7	4.9	4.8	4.2	3.9	4.6	4.8	4.5	92	90	50	39	57	71	67	0	10	1	4	8	2	4.2
21	9.5	-2.0	5.2	4.8	4.0	4.7	5.4	5.0	4.9	83	79	42	42	69	85	67	10	2	6	10	2	0	5.0
22	11.6	-5.0	4.3	4.4	4.5	3.6	4.0	4.5	4.2	91	96	47	27	44	69	62	0	0	10	1	9	3	3.8
23	8.6	-1.8	4.7	4.9	5.3	5.8	4.6	4.5	5.0	77	88	57	70	62	69	71	8	4	9	10	9	8	8.0
24	11.3	0.4	4.6	3.6	5.0	4.9	5.2	4.9	4.7	70	51	42	41	54	62	53	2	1	1	7	8	0	3.2
25	13.6	-1.5	4.5	4.5	4.4	5.9	5.6	4.7	4.9	78	79	30	42	68	74	62	0	3	0	10	4	5	3.7
26	7.3	-2.3	3.6	3.7	2.9	3.0	3.7	3.8	3.5	65	70	37	31	48	55	51	1	10	10	10	10	10	8.5
27	1.3	-1.4	3.8	5.1	5.8	5.9	5.7	5.4	5.3	58	82	96	100	99	97	89	10	10	10	10	10	10	10.0
28	7.4	-2.6	4.8	5.1	5.5	5.4	6.1	4.6	5.3	94	90	71	55	85	66	77	10	10	8	7	10	10	9.2
29	11.3	0.5	5.2	4.7	4.5	3.7	6.5	6.5	5.2	79	68	44	29	67	73	60	10	5	2	0	10	10	6.2
30	11.0	1.0	7.0	8.1	8.9	5.8	5.3	5.2	6.7	78	86	87	49	58	67	71	10	5	10	2	1	0	4.7
31	15.6	-1.9	4.8	5.4	6.6	7.3	7.3	7.8	6.5	89	86	57	43	53	70	66	2	9	10	2	7	5	5.8
Mean	7.6	-2.4	4.8	4.8	5.2	5.1	5.3	5.1	5.0	81	82	64	54	68	77	71	6.1	6.8	7.1	6.5	7.2	5.9	6.6

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)										REMARKS				
	22-2h			2-5h		6-10h		Total	5 cm					Daily Mean								
	22-2h	2-5h	6-10h	10-14h	14-18h	18-22h	2h		6h	10h	14h	18h	22h	Mean	10 cm	20 cm	30 cm					
1	—	—	—	—	—	—	—	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.8	1.6	⊞°, ⊞°, ⊞		
2	—	—	—	—	—	0.0	0.0	0.1	0.1	0.2	0.6	0.6	0.5	0.4	0.2	0.8	1.8	●°, ⊞°, ⊞°, ⊞				
3	—	—	—	—	—	—	—	0.5	0.5	1.2	3.5	2.5	1.1	1.6	0.2	1.0	2.7	●°, ⊞°, ⊞°, ⊞, ✓				
4	—	—	2.1	0.8	—	—	2.9	0.9	0.8	0.9	2.0	2.2	1.8	1.4	0.2	1.3	3.1	*°, ●°, ⊞°, ⊞, ✓				
5	0.4	0.3	1.3	0.2	—	—	2.2	1.5	1.5	2.0	3.9	4.1	2.1	2.5	0.9	1.8	3.2	●°, ⊞°, ⊞				
6	—	—	—	—	—	—	—	1.4	1.1	2.5	8.0	7.0	3.4	3.9	2.0	2.6	3.5	—°°, ⊞°, ⊞, ⊞				
7	—	—	—	0.0	0.0	0.1	0.1	2.0	1.3	1.3	5.6	5.6	3.0	3.1	2.3	2.9	3.7	●°, *°, ⊞°, ⊞°, ⊞°, ⊞°, ⊞°, ⊞				
8	0.2	0.3	0.8	0.8	0.9	0.1	3.1	2.2	1.7	1.8	3.7	3.0	2.3	2.5	1.8	2.9	3.6	*°, *°, ⊞°, ⊞, ⊞, ⊞, ⊞				
9	0.3	1.1	4.2	1.0	0.0	0.0	6.6	2.0	1.6	1.5	2.1	2.1	1.2	1.8	1.6	2.6	3.3	*°, ⊞°, ⊞, ⊞				
10	0.0	0.5	0.6	0.4	0.0	0.0	1.5	1.0	1.0	1.7	3.8	3.4	1.7	2.1	1.5	2.2	2.9	*°, ⊞°, ⊞, ⊞				
11	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.1	2.0	1.7	3.0	2.9	1.9	2.1	1.5	2.2	2.8	*°, ⊞°, ⊞, ⊞				
12	0.0	0.0	—	—	—	—	0.0	1.5	1.0	2.9	9.0	7.8	4.0	4.4	3.2	2.9	3.0	3.0	*°, ⊞°, ⊞, ⊞			
13	—	—	—	—	—	—	—	3.0	2.0	3.7	10.1	8.0	5.3	5.4	4.2	3.9	3.7	3.7	⊞°, ⊞			
14	—	0.2	0.5	—	—	—	0.7	4.2	3.5	4.5	7.3	6.5	4.1	5.0	4.5	4.5	4.3	4.3	*°, ⊞°, ⊞, ⊞			
15	—	—	—	—	—	—	—	2.6	1.7	2.6	7.2	5.3	3.5	3.8	3.8	4.0	4.2	4.2	⊞°, ⊞°, ⊞			
16	—	—	—	—	—	—	—	2.0	1.4	1.6	7.9	7.9	5.2	4.3	3.8	3.9	4.0	4.0	⊞°, ⊞°			
17	—	—	—	—	—	—	—	3.1	2.0	3.5	10.1	9.0	5.5	5.5	4.8	4.5	4.2	4.2	⊞°, ⊞°, ⊞°			
18	—	—	—	—	—	0.2	0.2	3.8	2.6	4.6	11.4	9.9	8.0	6.7	5.8	5.1	4.7	4.7	⊞°, ⊞°, ⊞°, ⊞°, ✓			
19	0.1	—	—	—	—	—	0.1	6.3	4.8	5.0	6.2	5.8	4.3	5.4	5.6	5.6	5.3	5.3	●°, ⊞°, ⊞°, ⊞°, ✓			
20	—	—	—	—	—	—	—	2.9	2.0	3.6	10.5	8.8	6.0	5.6	5.0	4.9	4.9	4.9	4.9	⊞°, ⊞°		
21	—	0.0	—	—	—	—	0.0	4.3	3.2	5.8	10.6	11.2	5.6	6.8	5.7	5.4	5.1	5.1	5.1	*°, ⊞°, ⊞°, ⊞°		
22	—	—	—	—	—	—	—	3.5	2.4	4.0	11.1	10.4	6.5	6.3	5.7	5.4	5.2	5.2	5.2	⊞°, ⊞°, ⊞°, ⊞°		
23	—	—	—	0.0	0.2	—	0.2	6.5	6.4	6.3	8.8	7.4	5.5	6.8	5.7	5.7	5.5	5.5	5.5	●°, *°, *°, *°, ⊞°, ⊞°, ⊞°, ⊞		
24	0.2	—	—	—	—	—	0.2	3.8	3.0	5.7	11.0	8.8	6.3	6.4	6.0	5.6	5.5	5.5	5.5	*°, ⊞°, ⊞°, ✓		
25	—	—	—	—	—	—	—	4.5	3.2	5.3	11.4	10.0	6.8	6.9	6.4	6.0	5.7	5.7	5.7	⊞°, ⊞°		
26	—	—	—	—	—	—	—	4.7	3.3	4.3	7.9	7.3	5.5	5.5	5.5	5.8	5.8	5.8	5.8	⊞°, ⊞°		
27	—	0.0	0.0	1.0	2.2	1.8	5.0	4.5	3.7	3.7	4.3	3.7	3.2	3.9	4.3	5.1	5.5	5.5	5.5	*°, ⊞°, ⊞°, ⊞°, ⊞°, ⊞		
28	0.4	0.2	0.0	—	0.0	0.2	0.8	2.8	2.4	4.3	8.5	7.8	5.7	5.3	4.8	4.7	4.7	4.7	4.7	*°, *°, *°, *°, ⊞°, ⊞°, ⊞°		
29	0.0	—	—	—	—	—	0.0	4.3	3.7	6.6	12.3	11.0	7.9	7.6	6.7	5.9	5.6	5.6	5.6	5.6	*°, ⊞°, ⊞°, ⊞°, ⊞°, ⊞	
30	—	0.0	1.5	0.0	—	—	1.5	6.9	6.5	6.8	10.7	10.9	7.3	8.2	7.7	7.0	6.4	6.4	6.4	6.4	✓, ⊞°, ⊞°, ⊞°	
31	—	—	—	—	—	—	—	5.2	3.8	6.5	12.3	11.9	9.4	8.2	7.7	7.0	6.6	6.6	6.6	6.6	⊞°, ⊞°	
Mean	1.6	2.6	12.0	4.2	3.3	2.4	26.1	3.0	2.4	3.4	7.3	6.5	4.3	4.5	3.8	4.0	4.3	4.3	4.3	4.3	4.3	4.3

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Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	6.3	6.5	4.6	0.8	1.0	1.8	3.5	14.2	14.5	12.2	8.3	8.7	9.6	11.3	4.7	0.6	13.3	17.4	11.8	9.1	9.5
2	0.9	0.2	1.9	2.9	6.7	9.4	3.7	8.7	8.0	9.6	10.6	14.6	17.3	11.5	4.2	5.2	10.2	12.1	5.8	1.1	6.4
3	10.1	11.0	9.0	5.4	5.7	7.4	8.1	18.1	19.1	16.7	12.7	13.3	15.1	15.8	-2.1	-1.9	12.5	20.2	16.5	11.9	9.5
4	7.0	7.7	6.4	0.4	997.2	994.2	2.2	14.7	15.4	13.8	7.8	4.7	1.8	9.7	10.4	9.2	21.3	22.9	14.9	12.9	15.3
5	990.5	988.4	990.7	993.0	998.4	999.4	993.4	998.0	995.9	998.3	0.4	6.1	7.1	1.0	11.9	12.6	12.6	15.3	8.1	6.4	11.2
6	996.7	995.9	993.1	995.2	997.3	0.7	996.5	4.4	3.7	0.7	2.9	5.1	8.6	4.2	4.8	5.2	10.4	9.7	4.3	3.3	6.3
7	3.4	7.1	11.4	13.6	15.9	17.2	11.4	11.4	15.0	19.2	21.3	23.9	25.4	19.4	2.7	3.1	8.0	8.7	4.9	-1.1	4.4
8	15.7	14.1	10.1	6.2	2.0	0.4	8.1	23.8	22.1	17.8	13.9	9.6	8.0	15.9	-0.6	1.5	8.3	10.5	12.7	11.8	7.4
9	997.7	999.3	0.3	3.0	6.2	10.2	2.8	5.4	7.1	8.2	10.8	14.1	18.1	10.6	9.3	3.5	4.8	4.3	1.8	0.5	4.0
10	12.6	17.5	20.0	20.6	22.1	24.4	19.5	20.7	25.6	27.9	28.4	30.1	32.6	27.6	-1.7	0.1	8.1	9.0	5.0	-0.8	3.3
11	25.0	26.0	25.6	22.9	22.9	22.5	24.2	33.2	34.2	33.3	30.6	30.7	30.4	32.1	-1.3	-0.1	12.1	14.5	10.5	8.2	7.3
12	19.9	18.1	16.3	13.5	11.9	11.3	15.2	27.8	26.0	24.0	21.2	19.7	19.0	23.0	8.2	8.5	12.1	11.7	10.5	10.3	10.2
13	9.1	8.3	8.0	5.6	5.2	7.4	7.3	16.8	16.1	15.6	13.0	12.7	15.1	14.9	9.5	9.5	15.2	19.1	17.1	11.1	13.6
14	7.1	7.8	7.6	5.1	5.0	5.1	6.3	14.9	15.6	15.3	12.6	12.6	12.7	14.0	9.2	8.8	13.0	15.2	14.2	12.8	12.2
15	3.0	1.5	999.4	994.3	991.7	995.9	997.6	10.6	9.1	7.0	1.8	999.3	3.6	5.2	11.6	10.5	12.1	13.1	9.0	7.9	10.7
16	998.0	0.1	0.5	999.9	0.4	3.5	0.4	5.7	7.8	8.2	7.7	8.2	11.3	8.2	7.8	8.6	9.1	9.9	7.7	7.3	8.4
17	5.6	7.9	6.7	3.8	4.7	7.4	6.0	13.3	15.7	14.4	11.2	12.3	15.3	13.7	8.1	7.9	13.8	17.9	11.3	5.0	10.7
18	8.6	9.7	11.2	11.2	12.0	13.1	11.0	16.5	17.5	19.0	18.9	19.9	21.1	18.8	5.1	5.8	9.4	10.3	6.3	2.2	6.5
19	13.7	14.1	13.1	9.2	9.1	11.5	11.8	21.6	22.0	20.9	16.7	16.7	19.4	19.6	-0.7	-0.5	10.9	17.9	12.7	6.8	7.9
20	12.4	14.9	14.7	11.4	10.2	10.6	12.4	20.3	22.9	22.3	18.9	17.7	18.3	20.1	2.9	3.9	16.3	19.0	15.2	10.2	11.3
21	9.1	8.6	6.5	3.5	3.0	3.1	5.6	17.0	16.4	14.0	10.9	10.5	10.6	13.2	7.6	7.3	21.0	21.8	18.5	15.3	15.3
22	2.7	6.3	7.9	8.3	9.6	13.2	8.0	10.4	14.0	15.6	15.9	17.2	21.1	15.7	14.1	10.4	13.7	14.9	10.8	5.8	11.6
23	13.3	13.3	12.0	7.8	7.6	7.5	10.3	21.2	21.2	19.7	15.4	15.3	15.3	18.0	2.1	2.4	11.3	14.3	11.1	8.2	8.2
24	6.5	7.0	7.4	5.9	7.8	9.0	7.3	14.2	14.7	15.1	13.5	15.5	16.8	15.0	7.4	9.4	11.5	14.1	9.3	6.7	9.7
25	8.8	10.1	9.7	8.4	10.1	11.3	9.7	16.7	17.9	17.3	16.1	17.7	19.1	17.5	5.1	7.3	10.8	11.6	8.2	6.6	8.3
26	10.2	11.1	10.7	6.5	5.2	4.6	8.1	18.1	19.1	18.3	14.1	12.7	12.3	15.8	3.0	3.6	14.3	18.4	14.6	9.7	10.6
27	1.7	996.7	986.8	986.7	994.3	999.3	994.3	9.4	4.4	994.4	994.3	2.0	7.0	1.9	9.1	8.3	10.9	11.6	7.9	8.7	9.4
28	3.5	8.8	12.0	10.5	11.8	13.7	10.1	11.2	16.5	19.6	17.7	19.3	21.4	17.6	10.3	11.3	16.6	23.6	16.7	10.0	14.8
29	13.7	14.5	14.2	10.7	10.6	9.8	12.3	21.6	22.3	21.8	18.0	18.0	17.4	19.9	5.7	6.1	15.6	24.0	16.8	12.9	13.5
30	9.7	8.3	6.7	3.7	3.7	6.9	6.5	17.2	16.0	14.2	11.0	11.1	14.5	14.0	11.6	11.2	20.0	23.1	17.3	13.9	16.2
Mean	7.4	8.0	7.5	5.7	6.3	7.7	7.1	15.2	15.9	15.1	13.2	14.0	15.5	14.8	6.0	6.0	12.6	15.2	11.1	7.8	9.8

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)			
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized									
							6 obs.	24 ^h											
1	ENE	0.9	SE	1.3	SE	5.5	W	5.4	SSW	4.8	SW	5.0	3.8	3.1	10.5	547	3.6		
2	N	1.7	ENE	1.5	ENE	0.4	NW	7.8	WNW	6.5	SE	2.4	3.4	3.3	7.1	471	3.5		
3	WNW	1.1	—	0.2	S	4.0	W	11.5	WSW	8.5	SSW	5.4	5.1	5.3	10.7	588	7.6		
4	NE	1.3	S	5.2	SSE	7.3	SSE	8.9	S	4.4	SSE	6.1	5.5	5.7	9.4	511	5.8		
5	SSE	7.6	SSE	9.4	SSE	6.1	WSW	10.0	NNW	4.8	N	3.6	6.9	5.7	3.2	246	1.9		
6	WSW	2.6	SSW	0.9	SSE	5.2	W	8.4	W	0.9	W	4.8	3.8	6.1	2.8	345	3.2		
7	W	19.3	W	15.0	E	3.0	NW	8.0	NW	4.0	—	0.0	8.2	8.6	11.6	665	3.8		
8	—	0.0	N	0.4	SSW	4.8	SSE	2.0	S	9.3	SE	2.6	3.2	3.3	—	108	1.2		
9	—	0.0	NW	9.6	WNW	8.5	WNW	7.8	W	6.5	WNW	5.7	6.4	6.4	1.1	260	2.1		
10	SSE	1.5	N	2.0	W	10.1	WNW	5.5	WNW	2.0	SSE	1.7	3.8	3.4	8.4	579	3.3		
11	—	0.0	—	0.0	SSE	7.6	SSE	9.1	S	6.1	SE	3.2	4.3	4.5	10.0	579	4.4		
12	SSE	3.4	S	3.8	SE	4.2	SE	5.0	SSE	3.2	SSE	1.7	3.6	3.3	—	121	(1.0)		
13	WSW	0.7	—	0.0	WNW	2.0	NNW	4.2	N	2.2	SSE	4.2	2.2	2.4	7.7	522	3.9		
14	S	5.0	SSE	3.6	SE	1.3	SW	2.8	S	3.8	SSW	3.4	3.3	2.7	—	238	(0.7)		
15	SSW	1.7	—	0.0	NW	1.3	NNW	3.6	N	6.1	NW	3.2	2.7	2.6	—	137	(0.1)		
16	NW	1.1	—	0.2	SSE	3.2	—	0.0	NNW	6.9	ENE	3.6	2.5	2.5	—	81	(1.9)		
17	NNW	3.0	NE	0.7	SE	2.0	SW	7.3	W	12.0	S	0.7	4.3	3.5	9.7	594	4.7		
18	W	6.7	W	7.6	NW	5.9	WNW	5.2	WNW	6.3	S	2.2	5.7	5.2	2.1	363	2.3		
19	SW	1.5	—	0.0	S	5.9	W	7.8	WNW	5.2	E	2.0	3.7	3.0	10.0	615	5.6		
20	W	2.0	WSW	0.4	S	8.5	SSE	9.8	SSE	6.3	E	1.5	4.8	4.8	9.7	596	5.4		
21	NW	0.4	W	1.1	SSE	2.6	W	7.8	SW	7.8	—	0.2	3.3	4.1	6.1	431	5.3		
22	W	3.8	W	6.9	WNW	7.6	NW	3.0	SSE	5.7	SSE	4.6	5.3	5.1	8.6	568	4.5		
23	S	3.0	SE	1.1	S	6.9	S	7.4	S	3.8	S	2.4	4.1	4.1	4.5	494	4.1		
24	NNW	1.7	N	3.0	NNW	8.2	NNW	3.8	WNW	7.8	NW	4.0	4.8	4.9	2.5	355	4.0		
25	NW	3.4	NW	5.4	WNW	8.7	WNW	8.7	WNW	5.4	NNE	2.0	5.6	6.1	9.8	573	4.5		
26	SSE	2.8	ESE	2.8	WSW	1.1	NE	2.2	S	5.2	NW	1.5	2.6	2.3	11.3	658	(1.6)		
27	—	0.2	NNW	2.2	NW	4.8	—	0.2	W	5.9	NW	6.5	3.3	4.2	—	156	(1.6)		
28	N	4.0	ESE	1.3	NE	1.3	W	7.3	S	5.0	WSW	2.2	3.5	3.3	11.8	659	5.0		
29	NNW	0.7	NNW	0.4	—	0.2	NE	1.1	SSE	6.3	S	1.5	1.7	2.0	8.1	481	4.2		
30	—	0.0	NNW	2.0	NW	0.9	W	7.6	W	8.5	WNW	4.8	4.0	3.7	8.4	589	5.4		
Mean		2.7		2.9		4.6		6.0		5.7		3.1	4.2	4.2	185.1	13130	106.2		

APRIL, 1961.



International
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Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)					RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)										
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	18.1	-0.1	7.4	5.9	7.9	5.9	7.7	6.1	6.8	87	93	52	30	55	53	62	0	0	0	2	2	0	0.7
2	12.7	-0.7	6.8	8.2	8.2	5.8	4.6	4.8	6.4	82	93	66	41	50	73	68	9	10	10	1	0	0	5.0
3	20.2	-3.9	4.8	5.2	5.9	5.8	4.2	4.0	5.0	92	98	41	24	23	29	51	0	0	0	8	2	0	1.7
4	23.6	5.8	4.9	5.7	8.1	6.5	11.2	11.0	7.9	39	49	32	23	66	74	47	0	10	10	10	10	10	8.3
5	16.8	6.3	11.6	11.8	13.5	11.7	9.0	8.4	11.0	84	81	92	67	84	88	83	10	10	10	8	10	8	9.3
6	12.9	2.3	7.6	8.1	10.6	6.8	6.7	5.7	7.6	88	91	84	56	81	74	79	10	10	8	9	10	9	9.3
7	10.0	-1.9	4.3	3.9	4.0	4.4	4.2	4.4	4.2	58	51	37	38	48	79	52	2	1	1	0	0	0	0.7
8	13.0	-2.5	5.0	5.4	9.1	10.2	12.9	12.6	9.2	85	80	84	80	88	91	85	10	10	10	10	10	10	10.0
9	10.6	-0.6	11.0	6.2	5.0	4.6	3.7	4.9	5.9	94	79	58	55	53	77	69	10	10	10	10	3	10	8.8
10	11.0	-1.8	5.0	5.3	6.1	4.8	5.3	4.9	5.2	93	85	57	41	60	85	70	5	3	6	3	0	0	2.8
11	15.1	-1.9	5.0	5.6	7.4	7.9	7.9	8.0	7.0	89	93	52	48	62	73	70	4	8	10	10	10	10	8.7
12	12.6	7.3	8.7	9.0	10.9	12.0	11.9	11.8	10.7	80	81	77	88	94	94	86	10	10	10	10	10	10	10.0
13	20.4	8.8	11.1	11.4	13.2	12.9	12.2	11.8	12.1	94	96	76	58	63	90	80	10	10	5	6	6	3	6.7
14	16.0	8.5	11.3	11.0	12.6	14.2	13.5	13.0	12.6	98	98	84	82	84	88	89	10	10	10	10	10	10	10.0
15	13.4	7.6	12.9	12.1	13.2	14.3	10.1	9.0	11.9	94	95	93	95	88	85	92	10	10	10	10	10	10	10.0
16	10.2	7.1	9.2	10.5	11.1	11.6	9.0	9.4	10.1	87	94	96	95	86	92	92	10	10	10	10	10	10	10.0
17	18.4	4.0	8.5	8.6	9.4	10.0	8.9	6.6	8.7	79	81	60	48	67	76	69	5	8	9	10	10	0	7.0
18	10.9	1.8	5.2	5.1	5.3	5.2	4.8	5.2	5.1	59	55	45	41	50	72	54	3	3	8	9	2	1	4.3
19	19.0	-1.8	5.1	5.9	5.9	5.8	5.5	5.3	5.6	88	99	45	28	38	53	59	0	3	10	10	10	2	5.8
20	19.4	1.2	5.5	6.5	8.2	11.0	12.5	11.6	9.2	73	80	44	50	72	93	69	0	0	6	10	10	2	4.7
21	25.0	6.8	9.9	10.1	13.0	11.7	10.5	12.6	11.3	95	99	53	44	49	73	69	10	10	10	10	10	10	10.0
22	16.6	4.3	12.8	7.5	6.0	5.1	7.2	6.7	7.6	80	59	38	30	56	72	56	10	10	10	8	4	4	7.7
23	14.8	0.5	6.1	6.8	7.1	7.9	8.9	9.5	7.7	85	93	53	49	68	87	73	0	10	10	10	10	10	8.3
24	14.2	5.4	9.2	9.2	7.6	7.6	6.0	5.8	7.6	90	78	56	48	51	59	64	10	10	10	10	7	1	8.0
25	13.1	3.9	5.7	5.9	6.9	6.8	5.6	6.6	6.3	65	58	54	50	51	68	57	0	4	7	3	1	0	2.5
26	19.7	-0.3	6.4	6.6	6.5	6.8	7.3	9.3	7.2	84	83	40	32	44	77	60	0	10	9	9	10	10	8.0
27	12.4	6.8	10.6	10.8	12.7	11.5	8.4	8.1	10.4	91	99	98	84	78	72	87	10	10	10	10	10	10	10.0
28	24.2	7.5	8.9	9.8	10.3	11.1	11.2	10.1	10.2	71	73	55	38	59	81	63	4	0	2	0	0	0	1.0
29	24.5	3.4	8.3	8.4	10.5	8.6	13.1	13.4	10.4	90	89	59	29	68	90	71	0	8	10	10	9	7	7.3
30	24.8	10.8	12.4	13.1	13.0	11.8	12.8	11.8	12.5	91	99	56	42	65	74	71	10	10	10	4	9	10	8.8
Mean	16.5	3.2	8.0	8.0	9.0	8.7	8.6	8.4	8.4	83	83	61	51	63	76	70	5.7	7.3	8.0	7.7	6.8	5.6	6.9

Day	PRECIPITATION (mm)						EARTH TEMPERATURE (°C)									REMARKS						
	22-2 ^h		2-6 ^h		6-10 ^h		10-14 ^h		14-18 ^h		18-22 ^h		Total	5 cm					Daily Mean			
	22-2 ^h	2-6 ^h	6-10 ^h	10-14 ^h	14-18 ^h	18-22 ^h	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h		Mean	10 cm		20 cm	30 cm				
1	—	—	—	—	—	—	7.2	5.4	8.2	13.4	13.4	10.0	9.6	9.0	7.9	7.1	☐°					
2	—	1.9	—	—	—	—	7.7	7.0	8.5	12.5	12.1	8.1	9.3	8.9	8.4	7.6	●°°, ☐°					
3	—	—	—	—	—	—	5.6	4.1	7.2	13.2	12.8	10.0	8.8	8.4	7.8	7.5	☐°, ☐°, ☐°, ☐°					
4	—	—	—	—	—	—	8.1	6.8	9.8	14.5	13.9	12.0	10.9	10.2	8.8	8.1	●°, ☐°, ☐°, ☐°					
5	1.3	0.0	0.7	0.5	—	—	11.0	10.6	10.8	12.9	13.3	10.5	11.5	11.0	9.9	8.8	●°, ☐°, ☐°, ☐°					
6	—	—	0.0	0.7	1.0	0.4	9.0	7.9	8.3	11.6	10.7	8.3	9.3	9.5	9.3	8.8	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
7	0.0	—	—	—	—	—	6.5	5.0	7.6	12.0	11.1	7.5	8.3	8.2	8.3	8.3	☐°, ☐°, ☐°, ☐°					
8	—	—	—	—	—	—	5.5	5.4	6.0	7.8	8.7	9.0	7.1	7.2	7.6	7.9	☐°, ☐°, ☐°, ☐°					
9	—	2.8	0.0	0.0	0.0	0.0	8.5	7.7	7.3	7.1	7.3	5.4	7.2	7.4	7.7	7.7	●°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
10	0.3	0.0	0.0	—	—	—	4.7	4.0	6.1	11.6	11.3	7.4	7.5	7.1	6.9	7.2	*°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
11	—	—	—	—	—	—	5.2	4.3	7.6	12.3	11.8	9.7	8.5	8.0	7.6	7.5	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
12	—	—	0.0	1.0	2.4	0.4	8.5	7.8	8.9	9.8	10.0	9.7	9.1	9.0	8.5	8.2	●°, ☐°, ☐°, ☐°, ☐°					
13	—	—	—	—	—	—	9.5	9.3	11.7	18.0	17.1	13.9	13.3	12.0	9.9	8.8	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
14	—	—	—	—	—	—	12.0	11.2	12.2	14.2	14.0	13.0	12.8	12.3	11.2	10.0	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
15	—	2.3	3.5	7.7	2.3	—	12.3	11.8	12.4	13.9	13.5	11.8	12.6	12.3	11.3	10.4	●°					
16	—	0.0	0.0	9.3	2.9	2.4	10.9	10.4	10.7	11.3	10.8	9.7	10.6	10.7	10.6	10.3	☐°, ☐°, ☐°, ☐°, ☐°					
17	—	—	—	—	—	—	9.3	8.3	11.9	17.5	16.4	12.8	12.7	11.9	10.6	10.1	☐°, ☐°, ☐°, ☐°, ☐°					
18	—	—	—	—	—	—	10.1	8.5	9.7	11.5	10.6	8.1	9.8	10.1	10.4	10.3	☐°, ☐°, ☐°, ☐°, ☐°					
19	—	—	—	—	—	—	6.4	5.1	8.1	13.8	14.1	10.8	9.7	9.4	9.2	9.3	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
20	—	—	—	—	—	—	8.5	7.0	10.4	15.3	14.7	12.7	11.4	11.0	10.1	9.8	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
21	—	0.0	—	—	—	—	10.8	10.3	13.0	17.6	16.0	14.2	13.7	13.0	11.4	10.6	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
22	—	—	—	—	—	—	13.0	12.4	12.8	17.7	16.9	12.8	14.3	13.6	12.3	11.3	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
23	—	—	—	—	—	—	10.2	8.5	10.5	13.9	13.6	11.3	11.3	11.4	11.4	11.1	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
24	0.0	—	—	—	—	—	10.6	10.0	11.9	12.6	12.0	9.9	11.2	11.2	11.1	10.9	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
25	—	—	0.0	—	—	—	8.2	7.3	10.0	13.8	13.1	10.0	10.4	10.4	10.3	10.4	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
26	—	—	—	—	—	—	8.0	6.6	11.1	17.6	16.8	13.5	12.3	11.5	10.6	10.4	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
27	4.3	18.1	18.2	4.5	0.2	0.1	12.0	9.8	10.6	12.3	12.0	10.2	11.2	11.2	11.2	11.0	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
28	—	—	—	—	—	—	9.4	8.8	10.1	19.4	18.7	14.7	13.5	13.0	11.5	11.0	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
29	—	—	—	—	—	—	12.0	10.0	12.6	17.8	17.3	14.8	14.1	13.5	12.6	11.8	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
30	—	—	—	—	—	—	13.5	13.0	16.1	21.5	20.0	16.4	16.8	15.6	13.7	12.5	☐°, ☐°, ☐°, ☐°, ☐°, ☐°, ☐°					
Mean	5.9	25.1	22.4	23.7	8.8	3.3	89.2	9.1	8.1	10.1	13.9	13.5	10.9	11.0	10.6	9.9	9.5					

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Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	7.5	8.7	9.3	8.5	8.7	8.9	8.6	15.3	16.4	16.7	16.0	16.3	16.7	16.2	10.7	9.5	18.5	16.9	15.0	11.1	13.6
2	8.2	8.7	9.3	8.1	7.7	9.4	8.6	15.9	16.5	16.8	15.5	15.1	17.0	16.1	9.9	10.4	15.3	22.2	19.7	15.8	15.6
3	10.2	10.8	11.0	7.9	8.0	7.8	9.3	17.7	18.4	18.4	15.2	15.5	15.4	16.8	15.4	13.7	20.2	23.5	18.5	17.0	18.1
4	5.1	3.0	999.9	996.1	995.1	994.2	998.9	12.7	10.5	7.5	3.5	2.6	1.6	6.4	16.6	15.3	15.2	17.9	17.3	16.5	16.5
5	992.7	990.6	991.7	993.3	995.3	997.2	993.5	0.2	998.1	999.1	0.7	2.8	4.8	1.0	16.2	16.2	15.7	17.0	14.3	12.7	15.4
6	998.5	5.5	10.2	12.4	14.6	18.0	9.9	6.1	13.3	17.8	20.1	22.4	25.9	17.6	11.5	8.3	10.7	12.3	9.5	5.2	9.6
7	18.7	18.6	17.6	14.7	13.6	12.5	16.0	26.7	26.6	25.3	22.3	21.2	20.2	23.7	3.2	5.7	12.3	13.4	12.9	13.0	10.1
8	10.5	9.7	6.9	2.9	2.2	3.8	6.0	18.1	17.3	14.4	10.2	9.7	11.4	13.5	12.7	13.6	17.4	21.0	17.1	14.6	16.1
9	6.7	9.7	10.5	7.3	8.0	9.2	8.6	14.4	17.2	17.9	14.6	15.6	16.8	16.1	12.9	12.1	18.7	24.5	17.8	12.0	16.3
10	6.2	7.1	5.3	1.7	2.7	4.8	4.6	14.0	14.9	12.7	8.8	10.1	12.3	12.1	9.8	10.0	19.6	29.0	21.8	16.9	17.9
11	3.8	3.1	2.1	997.9	996.7	994.6	999.7	11.4	10.7	9.3	5.0	4.1	2.1	7.1	14.7	15.7	23.0	27.2	20.4	18.0	19.8
12	990.8	989.2	988.0	986.2	986.4	991.0	988.6	998.2	996.6	995.3	993.5	993.7	998.5	996.0	17.8	17.6	20.0	21.8	20.6	17.2	19.2
13	996.3	3.5	8.7	11.5	14.7	18.9	8.9	3.9	11.2	16.3	19.1	22.3	26.8	16.6	14.1	11.7	14.5	16.3	13.0	6.9	12.8
14	20.0	21.8	21.2	18.0	18.0	18.4	19.6	28.0	29.8	28.8	25.5	25.7	26.1	27.3	4.1	5.1	19.5	22.6	16.7	12.5	13.4
15	15.8	14.2	12.1	6.5	3.3	3.3	9.2	23.5	21.8	19.7	13.9	10.7	10.9	16.8	11.5	11.4	16.3	21.2	19.9	14.8	15.9
16	3.3	4.1	3.5	1.7	2.6	4.2	3.2	10.9	11.8	11.0	8.9	10.1	11.8	10.8	13.2	12.6	20.0	24.2	20.2	16.1	17.7
17	6.2	7.9	8.6	9.0	9.6	12.2	8.9	13.9	15.6	16.1	16.5	17.1	19.9	16.5	11.6	13.2	18.3	19.0	15.5	10.3	14.7
18	12.6	13.7	11.4	8.8	9.0	9.4	10.8	20.5	21.4	18.9	16.2	16.5	17.1	18.4	6.9	7.8	18.2	21.8	16.3	11.8	13.8
19	7.1	6.7	7.1	6.3	7.4	10.1	7.5	14.9	14.5	14.9	14.0	15.0	17.7	15.2	10.7	10.4	10.1	11.9	12.1	11.7	11.2
20	9.0	9.7	8.8	6.1	4.6	3.0	6.9	16.7	17.2	16.4	13.6	12.2	10.6	14.5	11.0	12.5	15.8	15.4	14.4	14.3	13.9
21	0.2	998.7	997.4	994.8	994.4	995.3	996.8	7.8	6.2	4.8	2.3	1.9	2.8	4.3	14.1	14.1	15.6	17.0	16.9	13.9	15.3
22	997.1	997.6	997.7	997.9	0.3	2.8	998.9	4.7	5.1	5.0	5.4	7.8	10.5	6.4	9.7	12.3	17.6	17.0	13.9	11.3	13.6
23	3.9	6.1	6.5	4.4	4.5	5.0	5.1	11.7	13.8	14.0	11.8	12.0	12.6	12.7	9.5	11.5	18.1	21.4	16.9	13.6	15.2
24	3.4	3.4	2.0	999.8	1.1	3.1	2.1	11.1	11.1	9.4	7.3	8.6	10.7	9.7	12.4	12.5	18.3	20.0	16.7	12.0	15.3
25	3.9	6.3	8.6	8.4	10.0	11.7	8.2	11.5	13.9	16.0	15.9	17.5	19.4	15.7	11.3	15.6	18.7	19.7	16.3	11.3	15.5
26	12.6	14.5	13.0	9.9	9.6	10.8	11.7	20.4	22.1	20.5	17.1	17.0	18.4	19.3	8.6	10.4	18.2	25.3	21.2	14.1	16.3
27	8.6	8.2	6.5	4.7	4.2	4.4	6.1	16.3	15.8	13.8	11.9	11.5	11.9	13.5	11.5	13.9	26.5	28.0	22.3	16.9	19.9
28	2.9	2.2	0.4	997.7	996.2	996.1	999.3	10.5	9.7	7.8	4.8	3.4	3.5	6.6	14.4	14.8	24.4	29.5	24.6	19.3	21.2
29	991.8	986.8	983.2	985.6	988.5	994.9	988.5	999.2	994.1	990.4	992.8	995.9	2.5	995.8	17.7	19.0	22.7	20.6	16.1	10.5	17.8
30	996.0	999.1	0.2	999.3	999.9	0.2	999.1	3.6	6.7	7.7	6.6	7.4	7.8	6.6	11.0	12.7	18.2	22.4	18.0	12.9	15.9
31	0.3	0.5	999.4	996.7	996.2	996.8	998.3	7.9	8.2	6.8	4.0	3.5	4.3	5.8	9.9	1.1	19.1	22.1	20.2	15.9	16.4
Mean	4.8	5.5	5.1	3.4	3.6	4.9	4.6	12.5	13.1	12.6	10.7	11.1	12.5	12.1	11.8	12.3	18.0	20.7	17.3	13.5	15.6

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	NNE	1.7	SW	2.0	SSW	2.4	SSE	8.4	S	3.2	SSE	2.0	3.3	3.8	6.8	498	4.0	0.9
2	—	0.0	E	1.3	SSE	1.5	SSE	2.6	SSE	2.2	SSE	3.0	1.8	1.7	2.8	360	3.4	2.2
3	SSW	2.6	NNW	1.5	SSE	5.2	SSE	6.9	SSE	5.2	S	2.0	3.9	3.8	5.0	457	(3.6)	(2.5)
4	SE	4.6	SSE	5.0	SSE	3.8	W	0.4	SSE	1.7	SSW	2.8	3.1	3.0	0.0	210	(0.0)	(0.0)
5	SSE	3.4	WSW	4.0	WNW	3.4	NE	2.8	WSW	7.4	WSW	6.5	4.6	4.4	0.7	245	3.5	3.7
6	W	5.5	NW	5.7	N	10.0	NNE	8.2	NE	4.8	SE	0.4	5.8	5.3	8.4	664	4.3	2.8
7	—	0.0	S	1.3	S	1.7	S	5.7	S	2.2	S	2.0	2.2	2.3	—	205	1.6	0.9
8	SSW	1.7	SW	1.3	SSE	5.0	SSE	7.1	WSW	5.0	SW	2.0	3.7	3.7	3.2	402	(4.6)	(2.6)
9	ENE	4.0	N	0.7	SSE	4.6	SSE	3.6	SSE	8.0	S	2.0	3.8	3.8	12.7	696	6.0	3.9
10	—	0.0	—	0.2	W	0.4	W	7.6	W	4.4	E	2.4	2.5	2.9	9.8	620	6.2	3.8
11	NW	2.2	WSW	2.2	SE	2.4	S	3.2	SSE	6.1	—	0.2	2.7	2.5	6.6	499	(4.7)	(3.2)
12	SE	0.9	S	5.7	S	3.6	SSE	0.7	SSW	1.5	WSW	9.6	3.7	4.1	—	217	(3.2)	(3.6)
13	W	5.2	NW	6.1	NW	7.1	NW	7.6	NNW	5.4	WSW	2.4	5.6	6.1	10.0	697	5.7	4.3
14	—	0.2	N	0.7	SSE	6.1	SSE	9.1	S	5.9	SE	2.8	4.1	4.1	10.2	711	6.3	3.5
15	ESE	0.4	—	0.0	SE	2.0	SE	3.8	SSE	5.7	WSW	1.3	2.2	2.3	5.5	509	4.3	2.3
16	NNW	2.0	NW	1.1	—	0.2	WSW	8.4	WSW	8.0	NNW	0.9	3.4	3.0	3.1	458	5.4	4.2
17	W	6.1	NNW	4.4	NNW	1.5	WNW	8.9	NNW	3.8	N	1.1	4.3	4.5	8.9	617	6.5	4.5
18	SW	1.5	—	0.2	W	1.1	SSE	7.6	S	5.5	SE	1.7	2.9	3.3	11.0	715	(5.0)	(3.2)
19	NNW	1.3	—	0.0	N	3.2	NW	3.2	SSW	1.1	S	0.9	1.6	1.8	—	155	(0.8)	(0.5)
20	S	2.2	SE	3.6	SSE	8.0	S	8.0	SSE	4.4	S	5.9	5.4	5.2	1.7	354	(0.4)	(0.0)
21	S	4.6	SSE	2.6	S	5.9	SSE	4.4	WNW	2.4	NNW	2.4	3.7	4.2	1.5	226	(2.4)	(0.9)
22	W	2.4	NNE	3.6	WNW	5.2	WNW	4.6	NW	6.7	NNW	1.3	4.0	3.8	5.6	548	5.9	3.8
23	—	0.2	ENE	0.7	W	2.0	SE	1.1	SSE	6.9	S	1.5	2.1	2.4	10.7	695	(5.0)	(4.2)
24	—	0.0	N	0.9	—	0.2	S	3.2	NNW	5.5	W	1.5	1.9	2.5	2.1	395	(3.9)	(2.8)
25	NW	0.7	N	2.6	NW	5.5	WNW	5.7	ENE	5.0	E	0.4	3.3	3.5	7.0	522	5.3	3.7
26	—	0.0	NNW	2.0	W	1.5	WSW	3.2	NW	3.0	ENE	2.4	2.0	2.0	11.9	729	7.3	4.4
27	—	0.0	—	0.0	NE	1.1	NW	5.9	—	0.0	SE	1.5	1.4	2.7	10.3	694	7.4	6.0
28	NNW	1.5	WNW	0.4	SE	0.7	W	9.6	W	5.5	SE	1.3	3.2	3.1	8.7	686	(6.6)	(4.7)
29	E	1.5	SSE	6.3	S	9.1	WSW	5.9	WSW	12.9	W	8.5	7.4	8.1	1.2	278	(5.9)	4.1
30	NNW	10.3	NW	7.4	W	1.3	NW	3.0	SSE	6.3	SSW	1.7	5.0	5.0	11.5	722	5.9	4.2
31	N	2.0	NW	0.4	NW	1.5	—	0.0	S	2.4	WSW	2.4	1.5	1.6	6.6	475	(3.3)	(2.9)
Mean		2.2		2.4		3.5		5.2		4.8		2.5	3.4	3.6	183.5	15259	138.4	94.3



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Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)							AMOUNT OF CLOUD (0-10)						
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	19.9	7.5	10.8	10.4	11.3	11.4	10.9	11.2	11.0	84	88	53	59	64	85	72	6	10	3	8	10	10	7.8
2	22.5	9.7	11.3	11.7	13.8	13.0	15.7	16.2	13.6	93	93	79	48	68	90	79	10	10	10	10	10	10	10.0
3	23.9	13.5	16.6	14.2	18.4	18.4	17.6	16.3	16.9	95	90	78	63	82	84	82	10	10	9	10	10	10	9.8
4	18.2	14.2	16.3	14.4	16.4	17.8	18.2	17.8	16.8	86	83	95	87	92	95	90	10	10	10	10	10	10	10.0
5	17.6	10.6	17.9	17.9	12.5	11.9	10.6	8.7	13.3	97	97	70	61	65	60	75	10	10	10	10	10	5	9.2
6	13.4	4.0	9.5	7.8	8.5	9.0	8.3	7.8	8.5	70	72	66	63	70	88	72	6	9	7	2	4	0	4.7
7	14.4	2.3	7.2	8.6	11.5	12.8	13.1	14.0	11.2	94	94	80	83	88	93	89	5	10	10	10	10	10	9.2
8	21.7	12.6	13.9	14.7	16.0	17.5	16.5	15.6	15.7	95	95	81	71	85	94	82	10	10	10	4	10	2	7.7
9	24.9	9.9	10.8	10.3	11.3	12.7	10.5	11.2	11.1	72	73	53	41	51	80	62	1	0	0	0	0	0	0.2
10	29.4	8.9	10.9	11.2	16.2	17.4	16.6	16.3	14.8	90	92	71	43	63	85	74	10	10	10	10	10	10	10.0
11	27.6	11.8	15.0	16.4	16.9	18.2	17.9	18.9	17.2	90	92	60	50	75	92	77	4	6	10	10	10	10	8.3
12	22.0	16.1	19.2	18.8	20.9	22.6	23.0	12.2	19.5	94	93	90	87	95	62	87	10	10	10	10	10	10	10.0
13	17.2	5.8	10.2	10.3	10.2	11.8	10.3	9.0	10.3	63	75	62	64	68	91	71	10	7	8	4	0	0	4.8
14	22.6	2.2	7.6	8.7	13.7	9.5	11.2	13.0	10.6	92	99	60	35	59	90	73	0	10	4	10	10	10	7.3
15	22.8	10.2	12.2	12.2	13.3	16.6	17.6	15.8	14.6	90	91	72	65	75	94	81	10	10	10	8	8	9	9.2
16	25.3	11.7	14.8	13.9	13.5	13.5	13.6	13.2	13.8	98	96	58	45	57	72	71	10	10	10	10	10	10	10.0
17	20.8	7.2	9.6	9.1	7.9	7.8	7.0	8.1	8.3	70	60	38	35	40	64	51	1	10	10	10	10	3	7.3
18	22.3	5.5	8.3	8.4	7.4	8.1	10.8	10.9	9.0	84	79	35	31	58	79	61	2	10	10	5	10	10	7.8
19	12.1	9.4	11.1	11.7	11.3	12.5	13.0	12.8	12.1	86	93	92	90	92	93	91	10	10	10	10	10	10	10.0
20	17.7	10.7	12.2	13.1	12.4	12.4	13.1	15.4	13.1	93	90	69	71	80	95	83	10	10	10	10	10	10	10.0
21	18.7	11.2	15.4	15.6	16.3	17.9	14.6	13.7	15.6	96	97	92	92	80	86	91	10	10	10	10	4	8	8.7
22	19.1	6.5	9.0	10.0	11.8	9.9	10.0	10.5	10.2	75	70	58	51	63	79	66	0	9	8	7	9	6	6.5
23	22.1	7.1	10.1	11.3	11.2	11.4	11.9	13.6	11.6	85	83	54	45	62	87	69	0	0	2	10	10	10	5.3
24	20.6	10.3	13.4	13.5	11.5	14.3	12.2	11.5	12.7	93	93	54	61	64	82	75	10	10	10	10	10	10	10.0
25	21.3	9.5	12.3	13.2	12.5	11.7	11.5	12.0	12.2	92	75	58	51	62	90	71	10	1	6	8	6	6	6.2
26	26.1	7.8	10.2	10.3	12.8	10.7	12.9	12.9	11.6	91	81	61	33	51	80	66	0	0	0	3	5	5	2.2
27	29.6	10.0	12.2	13.7	11.6	13.2	14.7	13.9	13.2	90	86	34	35	55	72	62	4	9	7	10	10	10	8.3
28	30.6	13.3	13.9	14.6	12.4	12.5	14.5	18.2	14.4	84	87	41	30	47	81	62	10	10	5	2	10	10	7.8
29	25.1	10.3	18.7	18.6	21.4	13.4	11.0	8.7	15.3	92	85	78	55	60	68	73	10	10	10	10	10	9	9.8
30	23.7	10.8	8.7	9.5	10.2	12.9	13.5	12.5	11.2	67	64	49	47	65	83	63	3	3	4	2	0	0	2.0
31	23.4	8.5	11.2	11.5	11.6	12.4	13.4	15.1	12.5	92	88	52	46	57	83	70	10	9	10	10	8	10	9.5
Mean	21.8	9.3	12.3	12.4	13.1	13.4	13.4	13.1	13.0	87	86	64	56	68	83	74	6.8	8.2	7.8	7.8	8.2	7.5	7.7

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)												REMARKS
	22-2 ^h 2-6 ^h 6-10 ^h			10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm					Daily Mean							
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm	20 cm	30 cm										
1	—	—	—	—	—	—	—	14.5	12.6	15.6	17.2	16.8	14.5	15.2	15.0	14.1	13.1	D ⁰ , S ⁰ , V ⁰		
2	—	0.0	—	—	—	—	0.0	13.4	12.8	14.4	17.5	18.5	16.5	15.5	14.9	13.8	13.1	S ⁰ , D ⁰ , V ⁰		
3	—	0.3	0.0	—	—	—	0.3	15.6	14.9	17.3	20.5	19.5	17.7	17.6	16.7	15.1	13.7	S ⁰ , V ⁰		
4	—	—	1.4	0.0	0.6	1.6	3.6	16.8	16.0	16.1	17.6	17.8	17.0	16.9	16.5	15.3	14.2	S ⁰ , V ⁰		
5	1.0	2.8	—	—	—	—	3.8	16.5	16.1	16.7	17.2	17.0	14.8	16.4	16.1	15.2	14.2	S ⁰ , V ⁰		
6	0.0	0.0	—	—	—	—	0.0	13.5	12.7	14.1	17.3	16.6	14.4	14.8	14.4	14.1	13.8	D ⁰ , V ⁰		
7	—	—	—	—	—	—	—	11.2	10.5	12.0	13.5	13.6	13.2	12.3	12.5	12.9	13.1	D ⁰ , V ⁰		
8	—	—	—	—	4.1	2.1	6.2	13.2	13.0	14.4	17.7	18.0	16.3	15.4	14.7	13.5	13.0	D ⁰ , V ⁰		
9	—	—	—	—	—	—	—	14.4	12.9	16.3	21.6	20.6	17.0	17.1	17.0	14.8	13.7	—		
10	—	—	—	—	—	—	—	14.8	13.6	16.7	22.1	21.8	19.2	18.0	17.2	15.6	14.5	D ⁰ , ∞ ⁰ , = ⁰ , V ⁰		
11	—	—	—	—	—	0.2	0.2	17.3	15.8	18.9	23.1	21.4	19.6	19.4	18.5	16.8	15.3	S ⁰ , = ⁰ , V ⁰		
12	—	0.2	0.0	0.4	0.2	—	0.8	18.7	18.2	18.8	20.0	20.3	19.2	19.2	18.7	17.3	15.9	S ⁰ , V ⁰		
13	—	—	—	—	—	—	—	17.0	15.5	16.5	20.2	19.3	16.1	17.4	17.2	16.6	15.7	—		
14	—	—	—	—	—	—	—	13.7	12.0	15.8	20.2	19.3	16.9	16.3	16.0	15.7	15.2	≡ ² , V ⁰ , γ ⁰		
15	—	—	—	—	—	—	—	15.6	14.8	16.4	20.0	20.7	18.4	17.7	17.1	16.2	15.3	—		
16	—	—	—	—	—	—	—	16.8	16.0	17.8	21.6	20.6	18.3	18.5	18.0	16.9	15.6	≡ ¹		
17	—	—	—	—	—	—	—	16.4	14.4	16.8	20.8	19.1	16.0	17.3	17.2	16.6	15.7	⊕ ⁰		
18	—	—	—	—	—	—	—	13.9	12.5	16.4	21.6	19.8	17.2	16.9	16.7	16.1	15.4	—		
19	—	1.1	6.1	2.3	0.4	—	9.9	15.8	15.0	14.7	15.3	15.3	14.6	15.1	15.5	15.8	15.3	S ⁰		
20	—	—	—	—	—	2.5	2.5	14.0	13.7	15.1	17.0	15.9	15.2	15.2	15.1	14.9	14.7	S ⁰		
21	3.3	1.6	0.4	0.9	0.0	—	6.2	14.8	14.7	15.0	16.7	17.2	16.0	15.7	15.5	15.0	14.6	S ⁰ , V ⁰		
22	—	—	—	—	—	—	—	14.2	12.7	15.0	19.6	18.2	15.7	15.9	15.5	15.0	14.9	—		
23	—	—	—	—	—	—	—	14.3	12.8	16.6	22.2	20.6	17.9	17.4	16.5	15.5	15.0	D ⁰		
24	—	0.4	—	0.0	—	—	0.4	16.4	15.7	17.4	19.8	18.8	16.6	17.5	17.1	16.3	15.5	D ⁰		
25	—	—	—	—	—	—	—	14.6	14.4	16.5	20.6	18.6	16.2	16.8	16.7	16.0	15.5	D ⁰		
26	—	—	—	—	—	—	—	14.3	12.8	16.8	23.2	22.7	19.2	18.2	17.6	16.2	15.6	—		
27	—	—	—	—	—	—	—	16.8	15.4	19.2	23.7	22.8	20.0	19.7	19.2	17.6	16.4	—		
28	—	—	—	—	—	0.0	0.0	18.2	16.8	19.8	25.6	24.8	21.8	21.2	20.4	18.6	17.1	S ⁰ , V ⁰		
29	0.1	0.0	0.0	0.0	0.0	0.0	0.1	20.3	19.4	20.3	21.3	19.6	17.6	19.8	19.9	19.1	17.7	S ⁰ , V ⁰		
30	—	—	—	—	—	—	—	15.7	14.7	18.3	23.2	23.2	19.4	19.1	18.9	17.9	17.1	V ⁰ , V ⁰		
31	—	—	—	0.0	—	0.0	0.0	16.9	15.4	18.4	20.7	21.0	18.9	18.6	18.6	18.0	17.2	D ¹ , S ⁰ , < ⁰ , ≡ ⁰ , S ⁰		
Mean	4.4	6.4	7.9	3.6	5.3	6.4	34.0	15.5	14.4	16.6	20.0	19.3	17.1	17.2	16.8	15.9	15.1			

JUNE, 1961.

Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	998.3	1.0	2.7	2.7	4.7	7.9	2.9	5.8	8.5	10.3	10.1	12.2	15.6	10.4	13.9	14.2	15.6	21.3	15.7	11.5	15.4
2	8.6	10.9	10.4	8.8	9.3	11.2	9.9	16.3	18.5	17.7	16.1	16.6	18.8	17.3	10.5	13.1	21.1	25.4	23.3	15.9	18.3
3	11.8	12.7	11.5	9.2	9.3	10.8	10.9	19.6	20.4	19.0	16.4	16.7	18.4	18.4	10.9	12.8	22.6	27.6	22.7	14.5	18.5
4	9.7	10.1	8.1	6.6	6.6	6.2	7.9	17.4	17.7	15.5	14.0	14.1	13.7	15.4	9.7	12.1	22.4	23.3	19.1	17.8	17.4
5	4.7	4.0	3.3	2.6	2.3	3.9	3.5	12.2	11.7	10.8	10.0	9.7	11.4	11.0	16.5	16.0	17.6	22.3	21.6	17.5	18.6
6	4.2	4.8	3.8	1.9	2.5	3.5	3.5	11.8	12.4	11.1	9.0	9.7	10.9	10.8	14.7	16.2	22.9	27.1	23.3	19.5	20.6
7	3.8	4.7	4.0	2.6	3.0	5.8	4.0	11.4	12.3	11.4	9.8	10.4	13.3	11.4	13.1	14.6	23.1	28.2	23.8	17.4	20.0
8	6.1	7.8	6.7	5.2	6.1	6.3	6.4	13.7	15.4	14.1	12.4	13.5	13.7	13.8	14.6	15.3	23.4	25.7	20.8	19.7	19.9
9	4.6	4.1	1.6	998.4	995.8	992.4	999.5	12.0	11.5	8.8	5.7	3.3	999.9	6.9	20.0	19.3	21.7	19.8	16.7	16.9	19.1
10	989.4	988.3	988.8	988.9	991.6	994.7	990.3	996.7	995.7	996.2	996.2	999.0	2.2	997.7	17.0	17.4	20.4	20.0	17.5	16.3	18.1
11	994.1	993.0	990.8	987.9	987.9	990.4	990.7	1.5	0.4	998.0	995.1	995.2	997.7	998.0	16.4	17.0	25.1	26.5	21.7	17.6	20.7
12	990.4	990.5	990.2	990.5	991.5	993.5	991.1	997.9	998.0	997.5	997.7	998.9	1.0	998.5	12.9	14.5	20.2	23.0	19.4	14.7	17.5
13	993.0	993.1	993.3	992.7	992.9	994.6	993.3	0.5	0.6	0.7	0.1	0.3	2.2	0.7	13.8	13.9	13.2	15.1	16.4	14.4	14.5
14	995.3	996.8	997.7	996.2	997.2	999.0	997.0	2.9	4.4	5.0	3.5	4.7	6.5	4.5	13.3	12.9	17.5	20.3	17.5	15.5	16.2
15	997.7	998.7	999.0	998.3	0.0	4.3	999.7	5.2	6.4	6.4	5.6	7.4	11.9	7.2	12.0	12.6	20.1	21.8	19.1	12.5	16.4
16	5.1	7.0	6.5	4.8	5.6	4.7	5.6	12.7	14.6	13.8	12.1	13.0	12.2	13.1	9.6	12.7	21.0	22.7	19.3	17.6	17.2
17	2.9	1.1	999.7	996.8	995.8	996.7	998.8	10.4	8.6	7.2	4.3	3.3	4.2	6.3	16.9	16.7	16.3	17.0	17.3	16.4	16.8
18	996.3	998.5	0.0	999.8	2.6	5.6	0.5	3.8	5.9	7.4	7.1	10.1	13.0	7.9	16.5	16.6	20.5	22.3	19.6	16.4	18.7
19	6.7	7.3	7.5	6.8	8.2	10.2	7.8	14.3	14.7	14.9	14.2	15.5	17.6	15.2	15.4	17.3	20.5	23.6	22.8	18.6	19.7
20	10.5	12.2	11.1	9.7	10.2	11.3	10.8	18.0	19.8	18.4	16.9	17.6	18.7	18.2	14.9	15.6	24.3	26.1	21.3	18.8	20.2
21	9.6	9.9	10.0	9.0	9.7	10.3	9.8	17.0	17.3	17.3	16.4	17.1	17.7	17.1	18.7	18.9	19.4	21.3	20.5	19.2	19.7
22	9.8	10.7	10.1	8.7	9.7	10.8	10.0	17.3	18.2	17.3	15.9	17.1	18.2	17.3	17.9	18.6	24.0	26.5	21.9	19.0	21.3
23	10.0	10.5	10.6	9.0	9.4	9.6	9.9	17.3	17.9	18.0	16.3	16.8	17.0	17.2	18.9	19.1	21.0	25.0	21.6	19.8	20.9
24	8.3	7.4	7.0	5.8	5.1	4.8	6.4	15.8	14.8	14.4	13.2	12.6	12.3	13.9	19.0	19.4	20.1	19.9	19.4	18.7	19.4
25	3.4	4.4	3.7	3.3	3.8	4.1	3.8	10.9	11.9	11.1	10.7	11.2	11.5	11.2	18.5	18.8	19.6	20.6	21.2	20.4	19.9
26	2.9	3.1	3.6	2.6	3.6	4.9	3.5	10.3	10.5	11.0	9.9	11.0	12.3	10.8	19.7	19.8	21.7	24.5	22.2	20.1	21.3
27	4.4	3.3	3.6	1.1	997.5	997.1	1.2	11.9	10.7	11.0	8.4	4.8	4.5	8.6	19.8	19.9	19.6	19.2	19.1	19.4	19.5
28	997.3	999.4	0.6	0.6	1.0	3.3	0.4	4.7	6.9	7.9	7.8	8.3	10.6	7.7	18.9	19.0	24.3	27.0	25.4	21.3	22.7
29	3.4	2.9	2.5	2.0	1.3	2.1	2.4	10.8	10.3	9.7	9.2	8.6	9.4	9.7	20.6	20.7	24.2	24.7	22.7	21.0	22.3
30	2.7	3.5	4.3	3.8	3.4	3.2	3.5	10.1	10.9	11.7	11.1	10.9	10.6	10.9	20.7	20.6	21.1	20.3	19.8	18.4	20.2
Mean	2.8	3.4	3.1	1.9	2.3	3.4	2.8	10.3	10.9	10.5	9.2	9.7	10.9	10.2	15.8	16.5	20.8	22.9	20.4	17.6	19.0

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
1	NE	1.1	—	0.0	SSE	1.1	W	1.3	ENE	3.0	E	1.5	1.3	1.2	2.9	376	(4.4)	(2.4)
2	N	2.2	—	0.2	N	4.6	NNW	1.1	WSW	4.6	N	0.7	2.2	2.4	12.7	752	6.9	4.6
3	—	0.0	—	0.0	SW	0.9	SSE	5.7	S	3.8	SSE	2.0	2.1	2.9	12.1	753	8.5	5.9
4	—	0.0	—	0.0	SSE	8.0	SSE	10.5	S	5.9	SSE	5.7	5.0	5.2	10.6	680	(6.3)	(5.0)
5	S	2.8	SSE	4.2	S	5.2	ESE	1.5	S	5.4	SW	2.6	3.6	3.4	2.9	307	3.5	1.7
6	WNW	1.1	—	0.0	NE	1.3	NNE	3.2	WNW	3.0	NNW	5.9	2.4	2.7	12.5	734	7.8	4.0
7	SSW	0.7	NW	1.5	WNW	1.5	W	1.7	S	5.7	S	2.6	2.3	2.4	11.0	585	6.9	4.5
8	SSE	0.9	N	0.4	S	4.0	S	7.4	S	8.4	S	2.8	4.0	3.8	12.1	701	6.4	4.6
9	SSE	4.0	S	6.7	SSE	10.0	SSE	9.8	SSE	5.2	S	2.0	6.3	5.7	—	167	(0.6)	(0.9)
10	—	0.2	NE	0.4	W	6.7	N	4.6	NNW	4.6	NNW	2.8	3.2	2.9	1.4	283	4.1	1.9
11	NNW	4.0	S	0.4	W	3.0	WSW	8.5	WSW	3.2	N	2.4	3.6	4.9	10.7	687	6.5	4.8
12	SSE	1.5	SSW	0.9	NNW	1.7	W	7.3	WNW	2.6	E	0.7	2.5	2.4	11.1	590	(4.9)	(3.5)
13	SW	1.3	NNW	4.2	S	1.7	NNW	2.8	NNW	2.2	NNW	3.8	2.7	2.0	0.8	262	2.5	1.6
14	—	0.0	SSE	1.7	NNW	2.4	SSW	3.0	WNW	2.4	—	0.0	1.6	1.6	3.3	485	(4.9)	(3.1)
15	—	0.2	NNE	1.7	NW	5.4	W	4.6	—	0.2	N	1.1	2.2	3.3	11.9	758	6.9	4.2
16	—	0.0	—	0.0	S	2.0	SSE	8.4	SSE	6.5	S	3.4	3.4	3.4	9.0	656	(3.6)	(2.2)
17	S	1.3	S	6.5	SSE	8.0	E	2.2	SSE	1.3	W	0.7	3.3	3.2	0.2	199	(0.0)	(0.0)
18	N	2.8	N	1.3	NW	2.8	WNW	6.1	NNW	6.5	NW	4.2	4.0	3.8	2.4	463	5.4	3.8
19	NNW	4.0	N	3.4	N	8.0	NNW	8.0	NNW	2.2	NE	1.3	4.5	4.4	9.8	664	6.5	4.1
20	—	0.2	WSW	1.3	S	5.4	SSE	8.5	SSE	7.1	S	4.4	4.5	4.2	10.8	681	(5.1)	(4.7)
21	S	1.3	S	2.2	S	2.8	S	2.0	SSW	2.8	S	2.2	2.2	2.1	—	194	(2.0)	(1.2)
22	SE	0.7	—	0.0	SE	0.9	S	5.5	S	6.7	SSE	4.0	3.0	3.2	6.2	557	5.1	(3.1)
23	SE	1.1	—	0.0	WSW	0.7	S	3.0	S	6.7	SE	2.8	2.4	2.6	0.9	357	(2.6)	(2.6)
24	SSE	1.3	SSE	4.4	SSE	3.0	S	5.0	SSE	3.6	WSW	1.1	3.1	2.7	—	138	(0.0)	(0.0)
25	—	0.0	—	0.0	—	0.2	SSE	5.0	S	4.2	S	3.0	2.1	2.3	—	132	(0.2)	(0.0)
26	S	2.8	S	1.3	SSE	3.6	SSE	4.4	SSE	2.8	S	4.0	3.2	3.2	—	252	(0.0)	(0.0)
27	SSE	2.8	—	0.0	SE	4.8	SE	1.3	W	1.1	WNW	1.1	1.9	2.3	—	73	(0.0)	(0.0)
28	—	0.0	W	0.4	NW	3.6	NW	6.7	N	2.8	S	6.5	3.3	2.6	9.6	655	6.4	4.5
29	SSE	3.0	—	0.0	SSW	1.3	SSW	2.4	SSE	3.4	SSE	3.0	2.2	2.2	1.4	339	(1.4)	(2.0)
30	S	0.7	S	0.4	SSE	3.2	S	3.6	SSW	1.1	S	3.0	2.0	2.5	—	147	(0.0)	(0.0)
Mean	1.4	1.5	3.6	4.8	4.0	2.7	3.0	3.1	165.7	13627	119.2	80.9						



JUNE, 1961.

Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)					RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)										
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	22.1	10.2	15.0	15.5	16.0	14.7	14.0	12.3	14.6	95	96	90	58	79	91	85	10	10	10	4	3	1	6.3
2	27.3	9.5	10.6	10.8	9.7	10.8	13.3	13.9	11.5	84	72	39	33	47	77	59	0	0	0	0	0	0	0.0
3	27.8	9.7	11.8	12.2	14.3	13.1	10.9	13.5	12.6	89	83	52	35	41	82	64	0	0	0	0	0	3	0.5
4	24.3	8.7	10.7	12.7	13.5	16.9	15.4	16.3	14.3	89	90	50	59	70	80	73	0	0	2	10	10	10	5.3
5	23.7	15.7	16.9	17.1	17.8	20.0	21.5	19.0	18.7	90	94	89	74	83	95	88	10	10	10	6	7	3	7.7
6	28.0	12.6	16.4	17.0	15.1	16.6	13.5	10.2	14.8	98	92	54	46	47	45	64	3	1	1	8	10	4	4.5
7	28.7	11.6	11.9	13.4	14.7	14.9	17.6	17.4	15.0	79	81	52	39	60	88	67	4	10	10	10	10	8	8.7
8	26.4	13.6	14.9	15.5	18.6	20.7	20.0	20.9	18.4	90	89	65	63	81	91	80	5	7	0	4	10	10	6.0
9	22.0	16.4	21.1	20.8	21.8	21.8	18.1	18.7	20.4	90	93	84	95	95	97	92	10	10	10	10	10	10	10.0
10	21.6	15.4	18.8	18.7	17.9	18.2	15.6	15.8	17.5	97	94	75	78	78	86	85	10	10	10	10	3	7	8.3
11	27.0	15.0	14.7	16.8	18.0	18.7	18.2	14.0	16.7	79	87	56	54	70	69	69	8	10	9	10	9	10	9.3
12	24.7	11.8	13.4	13.5	13.3	12.2	10.4	11.6	12.4	91	82	56	43	46	69	65	10	10	10	10	4	10	9.0
13	17.5	12.6	13.2	12.1	14.0	13.3	12.7	12.4	13.0	83	77	93	77	68	76	79	8	10	10	10	10	9	9.5
14	21.9	11.6	12.5	13.4	13.7	13.7	12.7	13.7	13.3	82	90	68	58	63	78	73	10	10	10	10	10	10	10.0
15	23.3	10.8	12.2	11.6	12.6	12.9	11.3	11.8	12.1	87	80	54	49	51	82	67	4	7	3	5	0	0	3.2
16	23.5	9.1	11.1	12.0	12.7	14.8	16.7	16.9	14.0	93	82	51	54	75	84	73	0	2	10	7	10	10	6.5
17	17.5	16.0	17.8	18.1	16.7	18.4	17.9	17.5	17.7	92	95	90	95	90	94	93	10	10	10	10	10	10	10.0
18	24.0	15.1	17.5	16.9	18.4	18.0	15.8	14.7	16.9	93	89	76	67	69	79	79	10	10	10	10	6	0	7.7
19	24.2	14.6	14.0	14.5	16.8	18.9	18.0	17.2	16.6	80	73	70	65	65	80	72	0	0	9	6	10	9	5.7
20	26.2	12.9	15.4	15.3	18.6	20.1	20.0	19.3	18.1	91	86	61	60	79	89	78	0	3	1	4	10	8	4.3
21	22.3	18.6	18.6	20.0	21.1	20.8	21.0	20.8	20.4	86	92	94	82	87	94	89	10	10	10	10	10	10	10.0
22	26.9	17.3	19.7	20.4	21.1	22.1	21.3	18.6	20.5	96	95	71	64	81	85	82	10	10	10	10	10	10	10.0
23	25.3	18.7	19.8	20.7	22.1	22.2	20.4	21.0	21.0	91	94	88	70	79	91	86	10	10	10	10	10	10	10.0
24	20.6	18.6	20.4	20.5	22.9	22.0	21.1	20.6	21.3	93	91	97	95	94	95	94	10	10	10	10	10	10	10.0
25	21.9	18.6	21.1	21.3	22.0	22.3	22.6	22.7	22.0	99	98	96	92	90	95	95	10	10	10	10	10	10	10.0
26	24.5	19.6	22.3	22.7	24.6	24.8	24.5	22.7	23.6	97	98	95	81	92	96	93	10	10	10	10	10	10	10.0
27	20.4	18.7	22.7	22.8	22.4	21.8	21.9	22.3	22.3	98	98	98	98	99	99	98	10	10	10	10	10	10	10.0
28	28.2	18.3	21.4	21.8	20.9	21.3	21.7	22.7	21.6	98	99	69	60	67	90	81	10	10	10	1	2	10	7.2
29	24.7	20.3	22.3	22.5	22.7	23.5	23.7	23.6	23.1	92	92	75	76	86	95	86	10	10	10	10	10	10	10.0
30	21.7	18.2	23.5	23.4	23.7	22.5	22.5	20.8	22.7	97	96	95	95	97	98	96	10	10	10	10	10	10	10.0
Mean	23.9	14.7	16.7	17.1	17.9	18.4	17.8	17.4	17.6	91	89	73	67	74	86	80	7.1	7.7	7.8	7.8	7.8	7.7	7.7

Day	PRECIPITATION (mm)				EARTH TEMPERATURE (°C)									REMARKS	
	22-2 ^h	2-6 ^h	6-10 ^h	Total	5 cm					Daily Mean					
					10-14 ^h	14-18 ^h	18-22 ^h	Mean	10 cm	20 cm	30 cm				
1	10.2	0.9	0.2	11.3	17.4	16.5	16.8	22.3	21.1	17.3	18.6	18.1	17.7	17.1	☉ ¹ , ☁ ¹ , ☽ ⁰ , ☼ ⁰ , ☾ ⁰
2	—	—	—	—	14.6	13.6	19.9	25.9	24.0	19.4	19.6	18.6	17.6	16.8	☽ ¹
3	—	—	—	—	16.4	14.8	21.1	25.9	23.5	19.4	20.2	19.6	18.5	17.3	☽ ¹
4	—	—	—	—	16.4	14.9	20.4	23.8	21.8	19.4	19.5	19.3	18.7	17.6	☽ ⁰ , ☼ ⁰ , ☽ ⁰
5	0.0	0.7	0.0	0.7	18.5	17.9	18.1	21.0	22.0	19.3	19.5	19.2	18.5	17.6	☽ ⁰ , ☼ ⁰ , ☽ ⁰
6	—	—	—	—	17.3	16.4	22.4	28.2	25.2	20.7	21.7	20.5	19.0	17.7	☽ ² , ☽ ²
7	—	—	—	—	18.2	16.9	21.6	26.6	25.2	21.5	21.7	20.9	19.8	18.3	☽ ¹
8	—	—	—	—	19.3	17.9	23.1	27.5	25.0	22.6	22.6	21.7	20.3	18.7	☽ ⁰ , ☽ ⁰
9	—	—	0.0	16.2	0.5	9.4	6.3	21.6	20.9	21.4	20.6	20.8	20.3	19.0	☉ ¹ , ☽ ⁰
10	1.4	0.2	0.0	1.6	0.0	0.0	—	18.7	18.6	20.4	19.7	19.5	19.1	18.4	☉ ⁰ , ☽ ⁰
11	—	—	—	—	17.2	16.7	22.3	26.6	24.3	20.9	21.3	20.3	19.1	18.2	☽ ⁰
12	—	—	—	—	18.4	16.9	21.0	25.1	23.1	19.7	20.7	20.3	19.5	18.6	☽ ⁰ , ☽ ⁰
13	—	—	6.1	6.1	18.4	17.3	16.9	18.5	19.6	17.7	18.1	18.5	18.7	18.3	☽ ⁰ , ☽ ⁰
14	—	0.0	—	0.2	16.6	15.8	19.8	22.5	21.7	19.4	19.3	18.6	18.1	17.7	☽ ⁰ , ☽ ⁰ , ☽ ⁰
15	—	—	—	—	17.5	16.1	20.7	26.2	23.9	19.3	20.6	19.7	18.8	18.0	☽ ⁰
16	—	—	—	—	16.8	15.4	20.8	23.7	22.4	20.3	19.9	19.6	19.1	18.3	☽ ¹
17	2.0	3.9	2.1	15.4	5.9	1.5	—	19.4	18.7	18.6	19.1	19.2	19.0	18.4	☉ ¹
18	—	0.1	—	0.1	0.0	—	—	18.1	17.9	20.2	20.3	19.6	18.8	18.2	☽ ⁰ , ☽ ⁰
19	—	—	—	—	17.6	16.7	20.7	24.3	23.5	20.9	20.6	19.9	19.1	18.3	☽ ¹
20	—	—	—	—	18.7	17.3	22.4	26.5	24.2	21.7	21.8	20.9	19.8	18.8	☽ ¹
21	—	—	1.8	1.8	20.8	20.4	20.4	21.9	22.2	20.9	21.1	20.8	20.2	19.2	☉ ⁰ , ☽ ⁰
22	—	—	—	—	20.0	19.5	23.3	26.8	24.9	22.3	22.8	21.7	20.4	19.2	☉ ¹ , ☽ ⁰
23	—	—	0.0	0.0	21.2	20.9	22.6	24.5	23.8	22.1	22.5	21.9	20.9	19.8	☽ ⁰ , ☽ ⁰
24	0.0	0.0	1.3	10.4	6.7	2.3	0.1	21.1	20.7	20.9	21.0	21.4	20.8	19.7	☉ ⁰ , ☽ ⁰
25	0.2	6.7	1.0	7.9	0.0	0.0	—	20.4	19.9	20.4	21.1	21.5	20.9	19.3	☽ ⁰ , ☽ ¹
26	1.4	3.3	0.2	6.5	0.2	0.2	1.2	20.5	20.2	21.1	21.6	21.0	20.1	19.3	☽ ¹ , ☽ ¹
27	4.6	1.6	12.0	70.4	21.1	26.4	4.7	20.9	20.7	20.4	20.5	19.9	19.9	19.8	☉ ² , ☽ ⁰ , ☽ ⁰
28	0.3	0.0	—	0.3	19.9	19.5	23.2	28.1	26.9	23.4	23.5	22.0	20.6	19.8	☉ ⁰ , ☽ ⁰
29	—	—	—	—	22.1	21.6	24.5	24.8	24.5	22.9	23.4	22.7	21.5	20.5	☽ ⁰
30	—	—	0.6	11.7	0.9	6.0	4.2	22.0	21.8	22.3	22.8	22.0	20.9	20.5	☉ ⁰
Mean	20.1	17.4	25.3	160.6	35.3	45.8	16.7	18.9	18.1	20.9	20.8	20.3	19.5	18.6	

JULY, 1961.



Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	1.3	0.7	1.3	0.7	2.6	5.2	2.0	8.7	8.2	8.7	7.9	10.0	12.6	9.4	18.0	18.6	20.6	25.5	23.3	18.8	20.8
2	6.3	7.1	7.4	7.0	7.4	7.6	7.1	13.8	14.6	14.7	14.3	14.8	15.1	14.6	17.5	18.5	24.3	24.5	20.8	18.6	20.7
3	5.4	3.4	1.1	998.0	997.1	997.0	0.3	12.9	10.9	8.5	5.3	4.4	4.3	7.7	17.5	17.6	19.1	21.2	22.2	21.6	19.9
4	995.8	995.1	994.6	992.7	992.2	992.9	993.9	3.1	2.5	1.9	999.9	999.4	0.2	1.2	21.6	20.7	20.9	24.7	26.3	23.1	22.9
5	993.1	994.1	994.2	992.0	993.1	995.5	993.7	0.3	1.3	1.3	999.1	0.2	2.8	0.8	22.4	23.0	27.8	30.2	26.9	21.6	25.3
6	995.4	996.5	997.1	995.6	996.9	998.5	996.7	2.8	3.9	4.3	2.7	4.1	5.8	3.9	19.8	20.2	25.3	27.5	24.3	22.6	23.3
7	997.3	996.5	996.3	996.0	996.4	997.7	996.7	4.6	3.9	3.5	3.3	3.7	4.8	4.0	22.2	21.7	23.8	26.6	24.9	24.6	24.0
8	997.1	998.0	998.2	997.8	998.6	0.3	998.3	4.3	5.2	5.3	4.8	5.7	7.6	5.5	24.3	23.7	30.5	29.8	28.5	24.7	26.9
9	999.7	1.2	2.0	1.3	1.7	3.4	1.6	7.0	8.5	9.1	8.4	8.8	10.7	8.8	23.4	23.3	27.5	29.0	27.6	22.0	25.5
10	2.4	2.6	2.1	0.7	1.0	2.4	1.9	9.8	10.0	9.4	8.0	8.2	9.7	9.2	21.7	21.8	22.1	23.6	24.9	22.4	22.8
11	1.5	2.6	2.0	0.7	0.3	1.1	1.4	8.8	10.0	9.2	7.9	7.6	8.4	8.7	20.6	20.9	25.6	26.5	23.6	22.2	23.2
12	999.8	0.2	0.2	998.7	999.4	0.3	999.8	7.1	7.5	7.4	6.0	6.7	7.6	7.1	21.5	22.4	26.6	25.4	22.7	21.2	23.3
13	999.5	999.5	999.8	997.8	998.1	999.4	999.0	6.9	6.9	7.0	4.8	5.3	6.7	6.3	20.1	20.5	24.9	28.3	25.1	22.6	23.6
14	998.4	997.3	996.7	995.3	994.1	994.4	996.0	5.7	4.6	3.9	2.5	1.2	1.6	3.3	21.0	21.6	25.6	25.9	25.6	24.6	24.1
15	996.7	999.5	0.3	0.5	1.0	2.6	0.1	4.0	6.8	7.5	7.8	8.3	10.0	7.4	21.5	23.2	25.7	26.9	23.5	20.4	23.5
16	2.6	3.3	3.1	2.1	1.3	2.6	2.5	10.1	10.7	10.4	9.3	8.5	10.0	9.8	18.9	19.3	26.1	27.1	25.2	21.7	23.1
17	1.9	1.9	2.1	2.6	3.1	4.9	2.8	9.3	9.3	9.4	10.0	10.5	12.4	10.2	19.0	19.4	20.9	20.6	20.8	18.0	19.8
18	5.0	5.7	6.4	6.0	5.5	6.7	5.9	12.5	13.2	13.7	13.3	12.8	14.2	13.3	17.1	17.5	22.7	21.6	20.9	17.5	19.6
19	6.0	7.0	6.4	5.1	5.2	6.7	6.1	13.5	14.5	13.7	12.4	12.6	14.2	13.5	15.7	17.0	23.3	23.9	20.8	18.3	19.8
20	5.3	6.1	6.0	3.9	4.3	5.2	5.1	12.8	13.6	13.3	11.1	11.7	12.6	12.5	17.4	18.0	22.7	25.9	22.0	18.8	20.8
21	4.4	5.1	4.4	2.7	3.1	4.6	4.1	11.9	12.5	11.8	10.0	10.5	11.9	11.4	19.4	19.3	22.4	26.7	24.5	21.8	22.4
22	4.3	4.7	4.2	2.1	2.3	4.5	3.7	11.7	12.0	11.5	9.3	9.6	11.9	11.0	21.6	21.6	25.3	28.7	25.7	22.1	24.2
23	4.4	4.9	5.0	3.5	4.7	5.2	4.6	11.8	12.3	12.3	10.7	12.0	12.6	12.0	22.1	21.9	25.2	28.3	23.2	22.1	23.8
24	5.0	5.2	4.6	2.7	2.6	2.5	3.8	12.3	12.6	11.9	10.0	9.8	9.7	11.1	22.0	22.3	25.7	27.1	24.8	23.3	24.2
25	1.2	0.9	0.3	998.7	998.6	999.3	999.8	8.4	8.2	7.6	5.8	5.7	6.5	7.0	23.0	23.1	26.9	30.6	29.4	26.2	26.5
26	997.9	997.9	997.0	997.1	997.6	998.9	997.7	5.1	5.1	4.0	4.2	4.7	6.2	4.9	22.6	24.0	29.6	30.6	27.6	24.4	26.5
27	998.9	0.2	0.8	1.1	2.2	3.5	1.1	6.1	7.5	8.0	8.3	9.4	10.8	8.4	23.8	24.1	29.6	27.3	26.8	24.1	26.0
28	4.1	5.4	5.0	4.1	5.0	7.0	5.1	11.5	12.7	12.1	11.2	12.2	14.2	12.3	22.0	22.8	30.3	33.1	30.0	25.5	27.3
29	6.8	9.1	9.4	7.4	7.7	9.3	8.3	14.1	16.4	16.6	14.5	15.0	16.6	15.5	24.4	24.2	27.5	32.1	26.7	23.5	26.4
30	8.5	9.2	8.5	6.6	5.7	6.2	7.5	15.9	16.6	15.8	13.7	12.8	13.4	14.7	22.4	21.6	26.5	32.2	30.8	27.1	26.8
31	5.1	5.2	4.2	2.4	1.8	2.2	3.5	12.3	12.4	11.3	9.5	9.0	9.5	10.7	25.6	25.1	30.4	29.6	26.5	24.9	27.0
Mean	1.6	2.1	2.0	0.7	1.0	2.2	1.6	9.0	9.5	9.2	7.9	8.2	9.5	8.9	21.0	21.3	25.3	27.1	25.0	22.3	23.7

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	S	1.1	—	0.0	SSE	1.3	S	0.7	NW	4.2	NNW	1.7	1.5	2.0	2.4	378	(5.0)	(1.5)
2	NNE	1.7	—	0.0	ENE	0.7	S	7.1	SSE	5.9	SSE	4.2	3.3	3.8	10.3	661	(4.3)	(4.3)
3	SSE	4.6	SSE	5.7	SSE	4.8	SSE	7.1	—	0.2	—	0.0	3.7	3.7	—	161	(0.0)	(0.0)
4	N	3.2	—	0.0	NNE	1.7	NW	2.4	—	0.0	—	0.0	1.2	1.1	1.3	301	(3.5)	(1.5)
5	SSE	3.8	SE	0.7	ESE	0.7	ESE	1.7	SSE	5.5	SSE	3.4	2.6	2.7	10.4	740	6.6	4.4
6	S	2.4	—	0.2	—	0.2	SSE	8.9	SSE	5.4	SSE	2.2	3.2	3.4	8.8	631	(5.9)	(4.7)
7	SSE	2.6	SSE	6.1	SSE	5.4	SSE	5.2	SSE	3.4	S	1.3	4.0	4.1	0.1	234	(3.1)	(1.8)
8	SW	3.0	SE	3.6	SSW	2.0	W	8.9	W	4.8	NNE	2.0	4.1	4.2	8.3	591	6.4	4.1
9	NE	1.3	—	0.0	N	4.6	NW	5.4	NNW	2.4	W	0.9	2.4	3.1	8.7	688	(6.2)	(5.6)
10	—	0.2	NE	0.7	—	0.0	ESE	2.0	—	0.0	—	0.0	0.5	0.8	0.5	185	(1.5)	(0.5)
11	WNW	1.3	WNW	1.3	W	1.1	SSE	2.6	SSE	4.0	S	1.7	2.0	1.8	1.1	311	(2.4)	(2.0)
12	—	0.0	WSW	1.1	ESE	0.7	SSW	2.4	S	5.0	S	1.3	1.8	2.4	6.0	504	(3.9)	(2.6)
13	SE	1.5	S	2.0	SSE	3.0	SSE	2.6	SSE	5.7	SSE	4.8	3.3	3.3	5.1	591	(6.2)	(4.1)
14	SSE	4.8	SSE	2.6	SSE	4.0	N	1.5	SE	0.7	S	2.2	2.6	3.1	1.1	288	(3.6)	(1.9)
15	ENE	1.7	WNW	3.0	NNW	5.9	NNW	6.3	NW	6.1	—	0.0	3.8	3.8	10.6	622	5.5	5.4
16	WSW	1.5	WSW	2.2	E	2.0	N	1.7	—	0.0	ENE	0.7	1.4	1.2	4.7	465	(0.8)	(1.0)
17	S	2.2	—	0.0	—	0.0	—	0.0	SSW	1.3	—	0.0	0.6	1.0	—	138	(1.2)	(0.4)
18	—	0.0	WNW	1.1	SSE	3.8	SSE	3.6	S	2.8	SSE	3.2	2.4	2.4	2.7	465	4.2	3.3
19	E	1.1	E	0.9	S	3.0	SSE	5.2	SE	5.7	SSW	2.4	3.1	2.9	7.9	652	(5.0)	(4.4)
20	SSE	1.1	S	1.1	SE	2.8	S	3.8	S	5.9	SSE	2.6	2.9	3.0	4.7	538	4.7	3.4
21	—	0.2	—	0.2	W	1.1	S	6.9	SSE	4.2	SE	3.4	2.7	2.7	5.9	516	5.1	3.8
22	SE	1.1	SSE	1.7	E	0.4	S	3.2	SE	3.8	SSE	3.4	2.3	3.0	4.9	478	5.0	4.1
23	—	0.0	N	0.4	SE	3.4	SSE	3.4	WSW	3.6	WSW	1.5	2.1	1.6	0.3	274	(3.8)	(2.3)
24	—	0.0	—	0.0	WNW	0.9	NNW	2.4	—	0.0	—	0.0	0.6	0.7	1.4	297	(1.8)	(1.2)
25	—	0.0	—	0.0	S	0.4	N	0.7	WNW	2.2	S	2.2	0.9	0.9	2.7	430	5.2	3.5
26	—	0.0	ESE	0.9	SSE	2.6	WNW	2.8	W	5.9	S	2.0	2.4	2.4	2.8	423	(2.3)	(2.6)
27	ENE	0.9	—	0.0	ESE	2.8	WNW	3.0	NNE	1.5	—	0.0	1.4	1.3	1.5	336	(3.1)	(2.2)
28	SW	0.7	—	0.0	SE	2.4	S	3.4	S	2.6	SSE	4.8	2.3	2.4	9.3	709	5.6	5.1
29	—	0.0	W	2.2	S	1.3	S	4.2	SSE	3.8	S	1.5	2.2	2.4	7.6	585	6.2	4.6
30	—	0.0	NNE	1.5	SSW	1.3	SSE	1.3	NW	1.3	S	3.0	1.4	1.1	5.3	554	5.3	3.2
31	—	0.0	—	0.0	SW	0.7	SSE	4.6	SSE	3.4	SW	0.9	1.6	2.1	4.1	482	(4.6)	(4.3)
Mean	1.4	1.3	1.3	2.1	3.7	3.3	1.8	2.3	2.4	140.5	14228	128.0	93.8					

JULY, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)					RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)										
	Man.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	27.5	17.6	20.2	21.0	22.6	21.9	19.5	19.3	20.8	98	98	93	67	68	89	86	10	10	10	8	7	1	7.7
2	25.9	15.6	17.9	18.7	19.7	22.3	21.0	19.5	19.9	90	88	65	73	85	91	82	0	1	10	10	10	10	6.8
3	22.2	17.4	19.4	19.7	21.3	23.4	25.9	25.4	22.5	97	98	96	93	97	98	97	10	10	10	10	10	10	10.0
4	26.5	20.0	25.6	24.0	24.1	26.5	27.8	26.2	25.7	99	98	97	85	82	93	92	10	10	10	10	10	9	9.8
5	31.1	20.6	25.9	26.0	27.6	24.8	28.4	23.6	26.1	96	93	74	58	80	91	82	10	10	3	2	4	4	5.5
6	28.5	19.4	22.3	22.6	26.1	28.8	24.9	25.1	25.0	96	96	81	78	82	92	88	7	10	7	1	9	10	7.3
7	27.4	21.6	25.4	25.5	27.1	29.4	28.0	26.3	27.0	95	98	92	84	89	85	91	10	10	10	10	10	10	10.0
8	32.0	23.2	24.7	26.9	29.1	26.7	25.2	26.5	26.5	81	92	67	64	65	85	76	10	10	9	7	6	6	8.0
9	29.6	21.5	25.3	26.0	27.5	26.0	25.5	22.9	25.5	88	91	75	65	69	87	79	3	9	6	3	6	10	6.2
10	24.9	21.5	22.7	23.2	24.6	27.0	27.1	25.9	25.1	87	89	92	93	86	96	91	10	10	10	10	10	5	9.2
11	26.4	20.4	24.0	24.5	26.1	27.9	26.5	25.6	25.8	99	99	80	81	91	96	91	0	10	10	10	10	10	8.3
12	28.6	20.6	25.0	25.0	26.4	28.4	23.7	23.2	25.3	97	92	76	88	86	92	89	10	2	10	9	10	10	8.5
13	28.8	19.6	22.7	22.8	23.6	26.0	26.7	24.7	24.4	96	95	75	68	84	90	85	9	10	10	4	10	10	8.8
14	26.3	20.9	24.0	25.4	28.5	29.6	29.8	26.6	27.3	97	98	87	89	91	86	91	10	10	10	10	10	10	10.0
15	27.1	20.0	23.7	21.5	23.3	24.1	22.1	21.4	22.7	92	76	71	68	76	89	79	3	0	10	10	7	9	6.5
16	28.2	17.9	20.4	21.4	22.8	22.4	24.1	24.0	22.5	94	95	67	62	75	92	81	8	10	10	10	10	10	9.7
17	21.3	16.8	21.6	22.1	23.4	23.4	22.8	20.2	22.3	98	98	95	96	93	98	96	10	10	10	10	10	10	10.0
18	23.5	16.2	19.3	19.4	22.0	21.1	19.9	18.3	20.0	99	97	80	82	81	91	88	10	10	9	10	9	6	9.0
19	24.6	15.5	17.3	18.4	20.1	20.6	19.4	18.9	19.1	97	95	70	69	79	90	83	10	9	10	6	0	10	7.5
20	26.0	17.2	19.1	19.9	20.5	21.6	21.8	20.3	20.5	96	96	74	65	83	94	85	10	10	10	10	10	7	9.5
21	26.9	19.2	20.9	21.2	22.4	25.6	25.7	24.5	23.4	93	94	83	73	84	94	87	10	10	10	10	10	10	10.0
22	28.8	21.4	24.2	24.0	24.5	28.5	27.7	24.6	25.6	94	93	76	72	84	92	85	10	10	10	10	10	10	10.0
23	28.7	21.4	25.2	24.3	26.4	28.7	26.8	25.2	26.1	95	92	82	75	94	95	89	10	10	10	10	10	10	10.0
24	28.5	22.0	25.5	25.8	28.7	28.0	28.6	27.7	27.4	97	96	87	78	91	97	91	10	10	10	10	10	10	10.0
25	31.4	22.8	27.2	27.8	24.6	29.0	29.0	30.4	28.0	97	98	69	66	71	89	82	10	10	10	10	9	10	9.8
26	32.7	22.6	25.6	28.4	32.3	29.8	27.9	28.1	28.7	93	95	78	68	76	92	84	5	10	10	10	10	10	9.2
27	30.3	23.2	28.0	28.8	33.9	31.7	29.7	27.8	30.0	95	96	82	87	84	93	90	10	10	10	10	10	4	9.0
28	33.3	21.6	25.5	26.8	29.2	32.7	32.8	29.8	29.5	97	97	68	65	78	91	83	0	7	1	9	7	8	5.3
29	32.1	22.5	28.8	28.2	30.5	31.2	24.7	27.0	28.4	94	94	83	65	70	93	83	10	10	4	0	1	0	4.2
30	33.5	21.6	25.9	24.9	27.4	33.0	32.0	31.6	29.1	96	97	79	69	72	88	84	10	10	9	9	10	10	9.7
31	32.0	24.4	30.8	29.6	33.4	33.4	30.2	28.8	31.0	94	93	77	80	87	91	87	10	10	10	8	4	10	8.7
Mean	28.2	20.2	23.7	24.0	25.8	26.9	26.0	24.8	25.2	95	94	80	75	82	92	86	8.2	9.0	9.0	8.3	8.4	8.4	8.5

Day	PRECIPITATION (mm)					EARTH TEMPERATURE (°C)								REMARKS				
	22-2 ^h	2-6 ^h	6-10 ^h	10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm				Daily Mean						
								2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h		Mean	10 cm	20 cm	30 cm
1	1.1	0.1	0.2	1.1	—	—	2.5	20.4	20.2	21.5	25.1	25.4	22.2	22.5	21.7	21.0	20.3	☉ ¹ , ☉ ¹
2	—	—	—	—	—	—	—	20.3	19.0	24.2	27.5	24.8	22.5	23.1	22.4	21.2	20.5	☾ ¹
3	0.0	0.4	1.1	0.4	2.6	3.7	8.2	21.4	20.7	21.0	21.9	22.0	21.8	21.5	21.4	21.2	20.6	☉ ⁰ , ☉ ² , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
4	18.3	10.9	10.9	2.8	—	0.0	42.9	21.6	21.5	22.2	25.0	26.3	24.4	23.5	22.5	21.5	20.8	☉ ⁰ , ☉ ¹ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
5	—	—	—	—	—	—	—	23.4	23.0	27.0	31.8	29.7	26.2	26.9	24.4	23.1	21.6	—
6	—	—	—	—	—	—	—	24.0	23.3	25.8	30.5	28.2	25.4	26.2	25.4	23.9	22.4	☉ ¹ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
7	0.2	0.5	0.0	0.0	0.2	0.0	0.9	24.6	23.9	24.6	26.2	25.8	24.8	25.0	24.6	23.6	22.5	☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
8	0.0	0.4	0.0	—	—	—	0.4	24.0	23.8	27.1	30.6	28.6	26.3	26.7	25.6	23.9	22.6	☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
9	—	—	0.0	—	—	—	0.0	25.0	24.1	28.0	32.0	29.7	26.4	27.5	26.4	24.7	23.1	☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
10	—	—	3.3	18.7	—	—	22.0	25.1	24.6	24.8	24.4	25.6	24.9	24.9	24.7	24.3	23.2	☉ ⁰ , ☉ ²
11	—	—	—	0.4	0.0	0.7	1.1	23.4	23.1	26.3	26.6	25.9	24.6	25.0	24.4	23.6	22.8	☉ ¹ , ☉ ⁰
12	—	—	—	5.3	0.2	0.1	5.6	23.8	23.3	26.6	28.7	27.1	25.0	25.8	25.0	23.9	22.9	☉ ¹ , ☉ ⁰
13	—	—	—	—	—	—	—	23.9	23.3	25.0	30.2	28.8	25.9	26.2	25.3	24.2	23.1	☉ ⁰ , ☉ ⁰
14	0.7	7.5	0.2	0.0	0.3	0.2	8.9	24.7	23.7	25.9	26.7	26.4	25.4	25.5	25.0	24.4	23.3	☉ ¹ , ☉ ⁰
15	0.1	—	—	—	—	—	0.1	24.5	23.1	26.8	28.5	27.0	24.5	25.7	25.0	24.2	23.3	☉ ⁰ , ☉ ⁰
16	—	—	—	—	0.0	2.9	2.9	23.1	22.2	25.4	28.3	27.2	25.4	25.3	24.7	23.9	23.1	☉ ⁰ , ☉ ¹ , ☉ ⁰ , ☉ ¹
17	24.0	31.6	4.2	21.1	2.8	—	83.7	21.9	20.2	21.7	22.1	22.9	21.8	21.8	21.8	22.2	22.6	☉ ¹ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
18	0.2	—	—	—	—	—	0.2	20.8	20.7	23.7	25.6	24.4	22.7	23.0	22.5	22.2	22.2	☉ ¹
19	—	—	—	—	—	—	—	21.4	20.9	24.0	26.5	25.8	23.1	23.6	23.0	22.5	22.2	☉ ¹
20	—	0.3	0.0	—	—	—	0.3	22.0	21.7	23.7	27.2	26.2	23.5	24.1	23.5	22.9	22.4	☉ ⁰ , ☉ ¹
21	—	0.0	0.0	—	—	—	0.0	22.7	22.4	23.9	28.0	27.1	24.9	24.8	24.1	23.3	22.6	☉ ⁰
22	0.0	—	—	—	—	—	0.0	24.1	23.7	25.0	29.3	28.1	25.6	26.0	25.0	24.1	23.0	☉ ⁰
23	—	—	—	—	9.7	0.4	10.1	24.7	24.4	25.1	27.8	26.1	25.1	25.5	25.1	24.3	23.3	☉ ¹ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
24	—	—	—	1.0	4.2	—	5.2	24.4	24.2	26.0	28.2	27.1	25.7	25.9	25.2	24.3	23.3	☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
25	—	0.0	—	—	—	—	0.0	25.1	24.7	26.3	30.0	29.9	28.0	27.3	26.2	24.8	23.6	☉ ⁰ , ☉ ¹ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰ , ☉ ⁰
26	—	—	—	—	—	0.1	0.1	26.3	25.4	28.2	29.7	29.3	27.3	27.7	26.9	25.5	24.1	☉ ⁰
27	1.3	1.4	1.1	0.2	0.3	—	4.3	26.2	25.7	27.5	29.0	28.8	27.1	27.4	26.7	25.6	24.4	☉ ⁰ , ☉ ⁰
28	—	—	—	—	—	—	—	25.6	24.9	28.3	32.6	31.4	28.9	28.6	27.4	25.8	24.5	—</

AUGUST, 1961.



Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	1.4	2.1	1.6	999.3	1.6	2.6	1.4	8.7	9.4	8.7	6.4	8.7	9.8	8.6	24.3	24.7	29.6	33.3	26.8	25.3	27.3
2	2.4	3.5	3.6	2.0	3.3	4.7	3.3	9.7	10.9	10.8	9.1	10.5	12.0	10.5	23.8	23.7	28.7	29.6	26.6	24.1	26.1
3	4.5	5.4	6.4	5.1	4.9	5.8	5.4	11.9	12.7	13.7	12.3	12.3	13.1	12.7	23.3	23.2	24.9	26.1	23.0	21.6	23.7
4	4.3	4.4	3.7	1.7	1.3	2.4	3.0	11.8	11.8	11.0	9.0	8.6	9.8	10.3	20.7	19.9	22.1	22.8	20.5	19.2	20.9
5	0.7	0.5	999.3	997.5	996.7	997.3	998.7	8.2	7.9	6.6	4.7	4.1	4.6	6.0	18.8	18.8	23.9	25.1	21.4	20.1	21.4
6	994.9	994.4	994.7	992.9	993.7	994.5	994.2	2.2	1.7	2.1	0.3	1.1	2.0	1.6	19.4	18.2	18.4	19.3	18.5	18.2	18.7
7	993.6	994.6	995.0	994.8	996.3	998.0	995.4	1.0	2.0	2.2	2.1	3.7	5.4	2.7	18.0	18.7	22.8	22.9	21.1	19.6	20.5
8	997.7	999.6	999.4	997.7	997.9	999.0	998.6	5.0	7.0	6.6	4.8	5.1	6.3	5.8	18.4	19.9	24.8	28.4	24.7	21.4	22.9
9	997.1	997.0	996.7	996.7	999.2	1.6	998.1	4.4	4.3	3.9	3.9	6.5	9.0	5.3	21.6	21.3	25.5	27.7	22.9	19.5	23.1
10	0.6	2.2	3.4	2.9	3.3	5.6	3.0	8.0	9.7	10.6	10.1	10.5	13.0	10.3	18.3	19.4	27.2	28.8	25.8	19.5	23.2
11	5.2	6.5	6.6	5.1	5.2	7.0	5.9	12.7	14.0	13.9	12.3	12.4	14.4	13.3	17.3	18.0	25.9	30.8	26.3	23.2	23.6
12	6.6	7.6	6.9	5.2	5.3	6.8	6.4	14.0	15.0	14.1	12.3	12.4	14.1	13.7	22.0	21.1	28.9	31.9	27.1	23.4	25.7
13	7.2	7.6	7.5	5.4	5.0	6.5	6.5	14.6	15.0	14.9	12.5	12.3	13.7	13.8	21.1	21.3	25.6	29.4	26.6	23.4	24.6
14	6.1	6.2	6.0	3.5	3.5	5.2	5.1	13.4	13.6	13.1	10.6	10.7	12.5	12.3	23.4	23.0	28.0	30.8	27.0	24.9	26.2
15	4.7	5.0	5.2	3.5	4.3	5.7	4.7	12.0	12.3	12.4	10.6	11.5	13.0	12.0	24.5	24.4	28.4	31.0	25.9	24.3	26.4
16	4.6	5.2	4.6	3.1	3.6	4.9	4.3	11.9	12.5	11.8	10.2	10.8	12.2	11.6	23.9	23.7	28.0	31.4	27.2	24.3	26.4
17	4.8	6.2	5.8	4.1	4.4	5.0	5.1	12.2	13.6	12.9	11.2	11.6	12.3	12.3	23.4	23.2	29.5	33.2	29.3	25.3	27.3
18	4.5	5.4	4.4	2.6	2.6	4.1	3.9	11.8	12.7	11.6	9.8	9.8	11.4	11.2	22.7	22.7	30.4	29.9	27.1	24.1	26.2
19	3.3	4.4	5.4	3.4	3.9	5.0	4.2	10.6	11.8	12.6	10.6	11.3	12.3	11.5	22.8	22.2	26.6	28.0	23.3	22.2	24.2
20	3.8	4.3	3.5	1.6	1.2	1.1	2.6	11.1	11.7	10.9	8.7	8.5	8.4	9.9	21.9	21.9	25.0	27.3	22.4	22.2	23.5
21	0.1	0.4	0.2	999.2	0.5	1.9	0.4	7.4	7.8	7.4	6.3	7.8	9.3	7.7	22.2	22.3	26.6	30.0	25.3	22.0	24.7
22	2.0	2.8	3.3	2.4	2.5	3.4	2.7	9.3	10.2	10.6	9.7	10.0	10.9	10.1	21.4	20.4	21.6	21.2	20.0	19.6	20.7
23	2.6	3.7	4.4	3.1	4.6	5.7	4.0	10.0	11.1	11.8	10.4	12.0	13.1	11.4	19.6	19.1	22.9	25.8	20.6	19.4	21.2
24	5.4	6.4	7.0	5.8	6.6	6.9	6.4	12.8	13.8	14.4	13.2	14.1	14.4	13.8	19.0	19.2	21.6	21.3	19.9	20.2	20.2
25	6.1	5.8	5.5	3.7	3.8	5.6	5.1	13.5	13.2	12.7	10.9	11.0	12.8	12.4	20.7	21.3	26.4	28.9	26.9	23.9	24.7
26	4.7	5.1	5.0	2.8	2.4	3.4	3.9	12.1	12.4	12.3	10.0	9.7	10.7	11.2	23.2	22.9	26.4	29.7	25.8	24.3	25.4
27	1.9	3.0	3.5	1.3	1.2	1.1	2.0	9.1	10.3	10.7	8.4	8.4	8.4	9.2	24.3	24.1	24.5	27.2	25.4	22.4	24.7
28	0.7	2.0	2.2	0.8	2.7	5.7	2.4	8.1	9.4	9.6	8.0	10.1	13.2	9.7	19.2	19.0	23.8	27.6	22.8	17.7	21.7
29	6.1	7.5	7.4	6.1	6.5	8.2	7.0	13.7	15.0	14.8	11.9	13.9	15.8	14.2	15.6	15.3	23.0	27.6	21.7	18.0	20.2
30	8.3	9.4	9.4	8.8	10.0	10.6	9.4	15.8	16.8	16.7	16.1	17.3	18.0	16.8	16.5	17.2	24.8	25.1	21.6	19.4	20.8
31	10.3	11.3	11.8	10.2	10.3	10.2	10.7	17.7	18.7	19.1	17.5	17.6	17.6	18.0	18.9	19.6	25.1	25.1	22.7	20.6	22.0
Mean	3.1	3.9	3.9	2.3	2.8	4.0	3.3	10.5	11.2	11.1	9.5	10.1	11.4	10.6	21.0	21.0	25.5	27.7	24.1	21.7	23.5

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)				
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized										
							6 obs.	24 ^h												
1	S	0.9	—	0.0	SW	1.1	SE	2.8	SSW	2.8	—	0.0	1.3	1.4	6.3	587	(6.2)	(4.5)		
2	SE	2.4	—	0.0	SSE	2.6	S	3.8	S	2.4	S	2.2	2.2	2.0	4.5	564	4.4	3.5		
3	—	0.0	SSE	3.0	SSE	4.4	S	4.8	SSE	3.2	S	2.4	3.0	3.4	0.9	256	(3.0)	(2.9)		
4	S	2.4	S	4.2	S	3.4	SSE	3.8	SSE	3.6	S	2.8	3.4	3.3	—	255	3.2	2.2		
5	—	0.2	—	0.2	SSE	2.0	S	5.2	S	4.4	S	2.2	2.4	2.5	5.9	570	(2.8)	(2.5)		
6	—	0.0	S	1.3	SSW	2.0	NNW	0.7	NW	1.5	—	0.0	0.9	1.0	—	126	(1.7)	(3.7)		
7	—	0.0	—	0.0	S	0.9	S	4.2	SE	2.8	SSE	4.2	2.0	1.9	0.5	365	3.7	1.9		
8	S	1.5	S	0.9	SSE	0.4	SSE	2.0	SSE	4.2	S	4.4	2.2	2.0	4.7	553	(3.9)	(4.5)		
9	SSE	0.7	SE	1.1	S	3.8	W	6.7	NW	2.0	WSW	1.1	2.6	2.7	4.2	445	5.1	4.1		
10	SE	1.7	WSW	1.3	W	0.7	NW	3.8	N	1.3	—	0.0	1.5	1.7	9.5	648	6.9	6.2		
11	N	0.9	N	1.1	NNW	1.5	SE	1.7	—	0.2	—	0.0	0.9	1.2	8.6	604	(5.7)	(4.0)		
12	S	1.3	NW	1.1	—	0.2	SSW	3.2	SSE	2.8	SSE	2.4	1.8	1.8	9.4	656	5.4	4.1		
13	—	0.0	—	0.2	SSE	0.4	S	4.0	S	3.8	SE	2.8	1.9	2.3	4.9	425	4.9	2.4		
14	SW	1.3	—	0.2	WSW	1.5	S	3.8	S	5.9	SSE	4.2	2.8	2.7	6.1	527	5.8	3.3		
15	SSE	2.4	—	0.0	SE	0.7	S	4.0	SSE	4.6	SE	3.8	2.6	2.7	3.6	404	5.0	3.1		
16	—	0.0	—	0.0	S	3.4	SSE	2.4	SSE	4.4	—	0.0	1.7	1.8	5.7	508	(4.8)	(1.6)		
17	SSE	0.4	—	0.0	—	0.0	NNW	1.7	SE	0.4	—	0.0	0.4	0.8	8.0	574	6.1	3.3		
18	—	0.0	—	0.0	NNW	2.6	NNW	4.8	NNW	3.6	—	0.2	1.9	2.0	7.9	504	5.4	5.1		
19	—	0.0	SSE	2.8	S	4.8	SSE	4.8	SSE	4.8	S	2.8	3.3	3.3	5.7	480	(4.8)	(3.8)		
20	—	0.2	—	0.0	SSE	4.0	SSE	3.0	SSE	4.4	—	0.0	1.9	2.3	0.6	267	(2.8)	(1.7)		
21	WSW	0.9	—	0.2	NNW	0.4	NNW	1.3	NNW	2.2	SE	1.5	1.1	1.5	2.9	397	(3.7)	(2.9)		
22	—	0.0	NNW	2.2	WNW	0.4	SE	1.1	S	2.0	SE	0.9	1.1	1.3	—	128	(0.5)	(0.4)		
23	—	0.0	NW	2.4	NW	0.4	SSE	3.2	SSE	4.0	S	2.2	2.0	2.4	5.2	469	(4.1)	(2.7)		
24	S	0.4	—	0.0	WSW	1.7	SE	2.8	SSE	4.6	SSE	2.6	2.0	2.4	—	164	(0.4)	(0.0)		
25	SSW	2.6	SSE	3.6	SSE	4.8	SSE	6.5	SSE	2.8	SSE	3.8	4.0	4.1	5.9	499	4.9	3.4		
26	SSE	2.2	—	0.0	—	0.2	SSW	3.6	—	0.0	—	0.2	1.0	1.5	2.9	372	(2.9)	(1.7)		
27	S	1.7	WSW	0.9	—	0.0	SSE	4.2	SSW	2.2	SSE	4.6	2.3	1.7	1.2	203	(2.7)	(0.0)		
28	NNW	4.4	—	0.0	WNW	0.9	NW	0.4	S	2.6	—	0.0	1.4	2.1	5.5	519	(4.2)	3.5		
29	NNW	1.3	NW	1.1	SSW	0.4	S	2.0	SSE	3.0	SSW	0.4	1.4	1.6	8.4	548	(5.7)	(3.3)		
30	—	0.0	—	0.0	SE	4.0	SE	6.5	SE	4.6	SSE	2.2	2.9	2.7	7.9	500	4.6	3.6		
31	S	2.0	SSE	2.0	S	4.6	SE	3.6	SSE	4.8	SE	1.7	3.1	3.3	2.6	368	4.1	2.6		
Mean	1.0	1.0	1.0	1.9	3.4	3.1	1.8	2.0	2.2	139.5	13485	129.4	92.5							

AUGUST, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)							AMOUNT OF CLOUD (0-10)						
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	33.3	23.8	29.2	29.4	32.3	29.0	30.5	30.0	30.1	96	94	78	57	86	93	84	10	10	7	5	10	10	8.7
2	31.4	22.7	28.5	28.3	29.2	31.8	28.6	26.0	28.7	97	97	74	77	82	86	86	4	10	8	9	1	10	7.0
3	27.0	21.1	26.0	25.9	27.5	27.2	24.6	24.0	25.9	91	91	87	81	88	93	89	10	10	8	10	10	10	9.7
4	22.9	19.1	23.8	22.2	22.6	21.9	20.8	20.2	21.9	97	96	85	79	86	91	89	10	10	10	10	10	10	10.0
5	25.6	17.2	20.3	19.9	21.4	21.7	21.0	20.6	20.8	94	92	72	68	82	88	83	10	10	9	10	10	10	9.8
6	19.7	18.0	21.1	20.1	20.4	20.4	20.5	20.3	20.5	94	96	96	91	96	97	95	10	10	10	10	10	10	10.0
7	23.9	18.0	20.2	21.0	22.0	22.3	21.8	20.6	21.3	98	97	79	80	87	90	89	10	10	10	10	10	2	8.7
8	28.7	18.4	20.4	22.2	23.7	24.5	26.7	24.4	23.7	96	96	76	63	86	96	86	10	10	10	10	10	10	10.0
9	29.9	18.6	24.3	24.7	28.4	22.2	22.5	20.8	23.8	94	97	87	60	81	92	85	10	10	8	8	8	1	7.5
10	28.8	17.2	19.7	21.1	20.1	21.9	22.3	20.4	20.9	94	94	56	55	67	90	76	0	3	4	3	1	2	2.2
11	31.1	16.1	18.6	18.9	22.3	22.0	29.5	26.1	22.9	94	92	67	49	86	92	80	6	8	3	8	10	0	5.8
12	31.9	20.3	25.1	24.8	29.6	28.1	27.5	26.7	27.0	95	99	74	59	77	93	83	2	10	10	10	1	1	5.7
13	29.5	20.8	23.7	24.4	27.4	30.3	29.6	26.9	27.1	95	97	84	74	85	93	88	0	10	10	0	7	6	5.5
14	31.5	22.5	26.4	26.0	27.9	30.7	30.6	29.0	28.4	92	93	74	69	86	92	84	10	10	6	3	10	10	8.2
15	31.1	23.1	28.8	28.6	29.9	32.2	28.3	27.7	29.3	94	94	77	72	85	91	86	8	10	4	3	10	10	7.5
16	32.1	23.1	27.0	27.6	28.2	29.8	30.2	28.2	28.5	91	94	74	65	84	93	84	10	10	8	1	7	0	6.0
17	33.3	22.6	27.6	27.7	29.7	26.0	33.6	29.5	29.0	96	98	72	51	82	91	82	10	10	10	10	10	8	9.7
18	31.5	21.2	26.0	26.2	27.3	26.9	27.8	26.0	26.7	94	95	63	64	77	87	80	5	9	4	3	10	10	6.8
19	28.3	21.9	25.9	25.4	24.8	26.2	23.1	23.2	24.8	93	95	71	69	81	87	83	10	9	10	10	10	10	9.8
20	27.5	21.5	24.5	24.9	26.3	27.2	26.2	26.1	25.9	93	95	83	75	97	97	90	10	10	10	10	10	9	9.8
21	30.4	21.7	26.1	26.2	26.7	25.4	26.6	24.4	25.9	97	97	77	60	82	92	84	10	10	10	7	10	9	9.3
22	21.7	19.4	24.0	22.5	23.0	24.1	22.7	22.2	23.1	94	94	89	96	97	97	95	10	10	10	10	10	10	10.0
23	26.5	19.1	22.2	21.5	21.7	22.8	20.7	20.5	21.6	97	97	78	69	85	91	86	10	10	10	10	10	10	10.0
24	21.8	18.9	20.6	21.2	22.3	23.8	22.6	23.5	22.3	94	95	86	94	97	99	94	10	10	10	10	10	10	10.0
25	29.2	20.2	24.2	25.1	28.7	31.2	30.4	28.0	27.9	99	99	83	78	86	94	90	10	10	9	7	9	10	9.2
26	31.1	22.5	27.0	26.8	30.2	33.9	30.1	28.7	29.5	95	96	88	81	90	94	91	10	10	9	8	8	10	9.2
27	27.7	22.4	29.6	29.3	29.3	30.7	30.7	26.9	29.4	98	98	95	85	95	99	95	10	10	10	10	10	10	10.0
28	28.5	16.3	21.2	21.4	21.9	18.8	21.5	19.1	20.7	96	97	74	51	78	94	82	10	10	10	2	7	1	6.7
29	27.8	15.1	17.5	17.2	18.9	11.8	21.0	18.9	17.6	99	99	67	32	81	92	78	10	10	6	4	9	2	6.8
30	26.3	16.4	17.7	18.5	21.0	20.0	21.1	20.5	19.8	94	94	67	62	82	91	82	10	10	9	10	10	6	9.2
31	26.3	18.4	20.8	21.4	23.0	22.8	22.2	22.3	22.1	95	94	72	72	80	92	84	6	10	2	10	10	1	6.5
Mean	28.3	19.9	23.8	23.9	25.4	25.4	25.7	24.2	24.7	95	96	78	69	85	92	86	84	96	82	75	86	70	8.2

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)										RAMARKS
	22-2 ^h 2-6 ^h 6-10 ^h			10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm					Daily Mean					
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm	20 cm	30 cm								
1	—	—	—	—	7.2	0.1	7.3	26.7	26.4	30.0	34.6	30.8	28.6	29.5	28.5	27.1	25.6	≡ ¹ , ⊙ ² , ⊠ ³
2	—	—	—	—	0.0	—	0.0	27.0	26.1	29.5	32.9	30.2	27.9	28.9	28.4	27.1	25.8	≡ ⁰ , T ⁰ , ⊙ ⁰
3	—	—	—	—	0.6	—	0.6	26.5	25.7	26.4	28.7	26.9	25.6	26.6	26.7	26.4	25.6	T ⁰ , ⊙ ⁰ , ⊠ ⁰
4	—	—	—	—	—	—	—	24.7	23.9	24.3	25.8	24.9	23.5	24.5	24.8	25.0	24.8	—
5	—	—	—	—	—	—	—	22.9	22.0	25.6	28.1	26.5	24.4	24.9	24.7	24.4	24.1	⊙ ⁰
6	0.0	8.5	10.1	4.8	0.8	1.7	25.9	23.5	22.2	22.1	22.9	22.8	21.9	22.6	23.1	23.7	23.7	⊙ ⁰ , ⊙ ¹
7	0.0	—	0.0	—	—	—	0.0	21.5	21.4	23.7	25.9	25.2	23.4	23.5	23.1	23.0	23.1	⊙ ⁰
8	—	—	—	—	—	—	—	22.0	22.0	24.9	30.1	28.3	25.4	25.5	24.6	23.7	23.3	⊠ ⁰
9	—	6.3	0.0	—	—	—	6.3	24.3	23.5	25.1	30.1	28.0	25.1	26.0	25.4	24.5	23.8	⊙ ¹ , ⊙ ⁰ , ⊠ ⁰
10	—	—	—	—	—	—	—	23.1	21.9	26.3	31.0	29.4	25.6	26.2	25.5	24.6	23.9	⊠ ⁰
11	—	—	—	—	0.3	0.7	1.0	23.4	22.1	26.3	31.3	29.4	26.9	26.6	25.8	24.9	24.1	⊙ ⁰ , ⊙ ⁰
12	—	—	—	—	—	—	—	25.4	24.3	28.2	32.9	30.5	27.5	28.1	27.2	25.7	24.6	≡ ¹ , ⊠ ⁰
13	—	—	—	—	—	—	—	25.7	24.9	26.5	30.1	29.3	26.8	27.2	26.8	25.9	24.9	⊠ ¹
14	—	—	—	—	—	—	—	26.1	25.5	28.2	32.4	30.8	28.1	28.5	27.6	26.3	25.0	—
15	—	—	—	—	—	—	—	26.9	26.1	28.2	31.1	29.7	27.5	28.3	27.8	26.7	25.4	∞ ⁰
16	—	—	—	—	0.0	—	0.0	26.6	26.1	28.3	32.3	30.8	28.2	28.7	28.0	26.7	25.5	⊙ ⁰
17	—	—	—	—	0.0	—	0.0	26.7	26.2	29.4	33.9	31.9	29.2	29.6	28.7	27.1	25.8	⊠ ² , ≡ ² , ⊙ ⁰
18	—	—	—	—	—	—	—	27.2	25.8	29.7	31.8	29.9	27.1	28.6	28.3	27.2	26.0	—
19	—	—	—	—	—	—	—	26.3	25.6	27.5	30.5	28.7	26.6	27.5	27.3	26.7	25.7	—
20	—	0.3	0.0	—	5.4	2.1	7.8	25.7	25.2	26.1	28.8	26.4	25.4	26.3	26.3	26.1	25.4	⊙ ⁰ , ⊙ ⁰ , ⊙ ²
21	—	—	—	—	—	—	—	24.9	24.7	27.3	29.8	28.9	26.5	27.0	26.5	25.7	25.1	—
22	0.1	—	0.0	9.4	5.2	0.9	15.6	25.2	24.7	24.9	24.5	24.2	23.4	24.5	24.9	25.1	24.9	⊙ ⁰ , ⊙ ⁰
23	—	0.0	0.0	—	—	—	0.0	23.0	22.8	24.5	28.1	26.4	24.4	24.9	24.4	24.3	24.1	⊙ ⁰ , ⊙ ⁰
24	0.0	—	0.0	1.7	1.1	0.9	3.7	23.4	22.9	24.0	24.3	23.7	22.9	23.5	23.7	24.0	23.9	⊙ ⁰ , ⊙ ⁰
25	0.3	0.3	0.0	—	—	—	0.6	22.7	22.7	24.7	28.9	28.2	26.2	25.6	24.8	24.1	23.7	⊙ ⁰
26	—	0.0	0.0	—	0.6	—	0.6	25.3	24.9	25.9	30.5	28.7	26.7	27.0	26.3	25.3	24.3	⊙ ⁰ , ⊙ ⁰ , T ⁰
27	—	0.4	6.3	4.3	5.1	24.2	40.3	26.2	25.7	25.9	27.1	27.6	25.2	26.3	26.0	25.6	24.8	≡ ⁰ , ⊙ ¹ , T ⁰ , ⊙ ²
28	20.4	2.7	0.0	—	—	—	23.1	23.7	22.8	25.0	29.6	28.2	24.9	25.7	25.3	25.0	24.8	⊙ ² , ⊠ ¹
29	0.1	0.1	0.0	—	—	—	0.2	22.7	22.1	24.9	28.8	27.0	24.4	25.0	24.8	24.8	24.4	≡ ² , ⊠ ²
30	—	—	—	—	—	—	—	22.9	22.2	25.4	27.9	26.0	24.2	24.8	24.6	24.6	24.2	—
31	0.2	—	—	—	—	—	0.2	23.2	22.6	24.1	26.5	25.4	24.1	24.3	24.3	24.3	24.0	⊠ ¹
Mean	21.1	18.6	16.4	20.2	26.3	30.6	133.2	24.7	24.0	26.2	29.4	27.9	25.7	26				

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Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	8.6	7.8	6.5	4.3	4.0	3.7	5.8	16.1	15.2	13.7	11.5	11.4	11.1	13.2	19.5	20.2	26.4	28.3	24.5	22.0	23.5
2	3.0	1.5	2.0	1.7	2.2	4.1	2.4	10.4	8.7	9.3	8.8	9.5	11.6	9.7	22.0	22.4	24.4	27.3	23.3	19.6	23.2
3	5.8	6.6	7.8	6.7	7.6	8.2	7.1	13.3	14.2	15.2	14.1	15.0	15.6	14.6	18.4	18.5	21.4	23.8	21.6	21.0	20.8
4	6.9	6.7	6.5	4.3	3.0	3.5	5.2	14.4	14.1	13.8	11.5	10.3	10.8	12.5	20.9	21.9	25.4	27.9	26.5	26.3	24.8
5	3.2	4.1	6.2	5.0	5.8	7.4	5.3	10.5	11.4	13.4	12.1	13.0	14.7	12.5	25.6	25.1	28.7	29.9	27.5	23.7	26.8
6	6.4	5.7	4.6	3.0	3.6	4.8	4.7	13.7	13.0	11.8	10.4	10.9	14.9	12.5	22.3	22.4	28.2	23.9	23.4	21.6	23.6
7	4.4	5.2	6.5	5.5	6.2	7.9	6.0	11.9	12.6	13.8	12.7	13.6	15.4	13.3	20.9	19.9	24.8	27.2	23.1	21.2	22.9
8	7.9	8.0	8.0	6.5	5.7	5.6	7.0	15.4	15.6	15.4	13.8	13.0	12.9	14.4	20.1	18.0	24.0	25.3	22.9	21.9	22.0
9	4.5	4.6	4.3	2.3	2.7	4.0	3.7	11.9	11.9	11.5	9.5	10.1	11.4	11.1	21.8	22.6	25.8	27.4	22.9	22.7	23.9
10	3.4	3.9	4.3	3.8	4.7	6.0	4.4	10.7	11.2	11.7	11.1	12.0	13.3	11.7	22.2	22.4	25.9	22.9	23.0	21.0	22.9
11	5.9	8.0	10.2	9.4	12.3	14.5	10.1	13.3	15.5	17.6	16.7	19.8	22.0	17.5	19.4	18.3	21.6	26.6	20.0	16.6	20.4
12	15.0	16.2	15.7	13.4	13.6	13.9	14.6	22.6	23.9	23.2	20.7	21.0	21.3	22.1	14.7	14.0	20.5	26.1	20.7	19.3	19.2
13	12.7	11.8	10.6	7.9	7.0	6.5	9.4	20.2	19.3	17.9	15.2	14.5	13.8	16.8	19.2	19.4	24.9	25.5	22.0	20.5	21.9
14	4.8	4.2	3.0	999.9	999.8	999.8	1.9	12.3	11.7	10.3	7.1	7.0	7.0	9.2	19.8	20.0	24.8	28.5	24.2	22.6	23.3
15	999.1	999.3	999.3	999.8	999.3	0.3	999.5	6.4	6.6	6.6	7.1	6.6	7.7	6.8	22.7	20.7	22.3	23.0	22.2	20.0	21.8
16	999.0	996.2	992.7	986.2	979.9	971.4	987.6	6.5	3.6	999.9	993.3	987.0	978.4	994.8	19.4	19.2	23.7	28.0	28.0	26.7	24.2
17	987.9	995.9	999.0	0.4	2.3	3.9	998.2	995.3	3.3	6.4	7.8	9.7	11.6	5.7	19.8	19.2	21.6	22.3	17.5	14.1	19.1
18	4.3	6.6	7.4	7.6	9.6	10.9	7.7	11.9	14.2	14.8	15.0	17.1	18.6	15.3	14.1	15.4	21.0	22.1	15.3	12.0	16.7
19	11.8	13.5	13.4	11.8	13.2	15.4	13.2	19.6	21.2	20.8	19.2	20.8	23.2	20.8	10.5	9.6	20.0	21.3	15.5	11.5	14.7
20	16.3	17.7	18.0	15.9	16.6	17.6	17.0	24.1	25.6	25.6	23.3	24.2	25.3	24.7	9.4	8.7	17.9	24.1	16.8	12.7	14.9
21	17.1	17.6	18.4	16.7	16.3	17.1	17.2	24.8	25.3	26.0	24.3	23.9	24.7	24.8	12.8	12.9	16.2	17.3	17.0	16.8	15.5
22	16.2	16.0	16.2	13.9	14.1	13.7	15.0	23.8	23.7	23.7	21.2	21.5	21.1	22.5	16.7	16.6	21.6	24.1	20.2	19.2	19.7
23	11.5	10.0	8.6	5.1	4.9	4.3	7.4	19.0	17.3	15.9	12.3	12.3	11.7	14.8	19.6	20.7	25.1	27.5	24.1	22.1	23.2
24	2.1	2.2	3.9	2.7	4.3	6.2	3.6	9.4	9.5	11.2	10.0	11.7	13.7	10.9	21.8	21.9	23.9	25.7	22.3	17.0	22.1
25	7.1	7.7	8.0	5.5	6.8	7.4	7.1	14.7	15.3	15.4	12.7	14.2	14.9	14.5	17.1	16.8	22.4	24.7	20.4	18.5	20.0
26	6.0	5.5	5.1	5.6	7.3	9.0	6.4	13.5	13.0	12.6	13.0	14.8	16.5	13.9	18.4	17.4	17.2	19.5	18.6	17.6	18.1
27	9.7	11.5	12.8	12.7	13.9	15.2	12.6	17.2	19.0	20.4	20.2	21.3	22.8	20.2	17.1	16.9	17.2	19.0	18.4	16.9	17.6
28	15.8	16.9	17.0	15.0	15.3	15.4	15.9	23.4	24.6	24.6	22.3	22.9	23.1	23.5	15.7	14.3	18.0	24.3	17.3	13.3	17.2
29	14.8	13.9	12.5	9.0	8.7	9.3	11.4	22.5	21.6	20.0	16.3	16.2	16.8	18.9	12.1	11.3	21.0	24.5	19.8	15.7	17.4
30	8.1	7.7	6.2	2.6	2.1	1.5	4.7	15.8	15.3	13.7	9.8	9.5	8.9	12.2	13.5	14.3	18.9	26.9	21.2	18.4	18.9
Mean	7.3	7.8	7.8	6.1	6.4	7.0	7.1	14.8	15.2	15.2	13.4	13.8	14.5	14.5	18.3	18.0	22.5	24.8	21.3	19.1	20.7

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND														Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)	
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	SSE	2.6	—	0.0	SSE	6.3	S	3.8	SSE	5.7	—	0.0	3.1	3.7	3.7	394	(3.3)	(2.7)
2	SE	1.5	S	4.8	NNW	2.4	NNW	0.4	N	1.3	NNW	1.1	1.9	2.1	1.4	270	(2.9)	(2.9)
3	—	0.0	NW	0.9	NNW	0.7	SE	3.8	SSE	3.8	E	1.1	1.7	1.6	—	225	(1.7)	(0.6)
4	—	0.0	—	0.0	SSW	2.8	S	7.4	SSE	6.5	SSE	6.9	3.9	4.4	1.3	288	(3.8)	(2.5)
5	SSE	5.0	SSW	4.8	N	1.5	NNW	5.5	—	0.0	—	0.0	2.8	2.8	5.0	428	4.4	3.7
6	—	0.0	WNW	0.7	S	2.0	NW	2.6	—	0.0	—	0.0	0.9	1.3	2.7	281	(2.7)	(2.4)
7	—	0.0	—	0.0	NNE	0.9	NNW	1.7	S	4.0	SSW	3.0	1.6	1.9	3.6	446	4.4	4.5
8	SE	1.1	—	0.0	SE	1.3	SSE	2.8	ESE	2.0	S	0.7	1.3	1.4	3.8	292	(2.2)	(1.3)
9	—	0.0	—	0.0	S	4.4	S	5.0	SSE	3.0	—	0.2	2.1	2.2	0.3	258	(2.1)	(1.1)
10	—	0.0	—	0.0	WSW	0.7	E	0.7	W	1.1	NW	2.2	0.8	1.0	—	162	(0.0)	(0.0)
11	NNW	4.0	NNE	0.7	NW	0.7	ESE	0.9	SSE	3.0	—	0.0	1.6	1.8	5.0	445	3.7	2.6
12	—	0.0	NW	2.6	NE	0.4	SE	4.4	S	4.2	SSW	1.5	2.2	2.4	8.2	534	5.3	5.0
13	SW	1.5	SSE	1.7	SSE	5.9	S	7.3	SSE	3.2	ESE	1.5	3.5	3.8	5.9	462	(3.6)	(2.6)
14	—	0.0	—	0.0	S	3.4	S	5.2	S	6.5	—	0.2	2.6	3.0	3.8	366	(2.7)	(0.6)
15	SSW	0.4	NW	1.7	W	3.6	SE	1.1	—	0.0	—	0.2	1.2	0.9	—	102	(1.0)	(1.5)
16	N	1.5	—	0.0	NNW	2.0	SSE	18.7	SSE	24.4	SE	19.4	11.0	12.1	2.9	295	(6.1)	(4.8)
17	SW	5.0	W	3.4	SSW	2.8	WNW	2.6	W	1.7	—	0.0	2.6	3.2	3.0	329	(3.3)	(2.8)
18	NW	0.7	N	1.7	NNW	5.9	WNW	6.1	WNW	2.4	—	0.0	2.8	3.2	9.2	533	(4.5)	(3.2)
19	NNW	1.5	NW	1.3	NNW	2.0	NW	3.2	W	1.7	NNE	0.9	1.8	1.9	8.3	505	4.1	2.9
20	NW	2.0	NNW	1.7	NNW	1.7	SSE	1.3	SSE	2.8	—	0.0	1.6	1.4	9.3	543	(3.6)	(2.9)
21	—	0.0	—	0.0	—	0.0	NW	1.1	—	0.0	NW	0.4	0.3	0.4	—	113	(0.0)	(0.0)
22	—	0.0	—	0.2	—	0.0	S	5.0	SE	2.2	S	2.2	1.6	2.0	3.2	359	3.1	1.9
23	SE	1.3	SSE	3.4	SSE	5.2	SSE	6.5	SSE	5.0	SSE	5.7	4.5	4.4	3.5	375	(3.2)	(2.0)
24	SSE	2.0	S	3.6	NE	0.7	SW	3.0	WNW	2.4	SE	1.3	2.2	2.9	1.5	284	3.0	3.0
25	E	1.3	ESE	1.3	E	1.7	ESE	2.2	—	0.0	SSE	2.0	1.4	1.4	4.9	375	(1.0)	(0.9)
26	S	1.1	NNW	4.2	NNW	4.2	E	1.5	NW	2.0	—	0.2	2.2	1.7	—	107	(0.0)	(0.0)
27	—	0.0	—	0.0	NNW	3.8	—	0.0	ESE	1.1	—	0.0	0.8	1.2	—	86	(0.5)	(0.3)
28	—	0.0	NW	1.3	—	0.2	SSE	5.9	SSE	3.4	—	0.0	1.8	2.0	7.1	424	4.1	3.0
29	NNE	0.4	—	0.0	SSE	0.9	SSE	2.8	SSE	2.6	NNW	1.1	1.3	1.4	7.6	466	2.6	1.8
30	NW	1.5	—	0.0	W	0.9	S	4.0	SE	2.4	N	0.7	1.6	1.4	6.0	421	3.9	2.2
Mean		1.1		1.3		2.3		3.9		3.3		1.8	2.3	2.5	111.2	10168	86.8	65.7

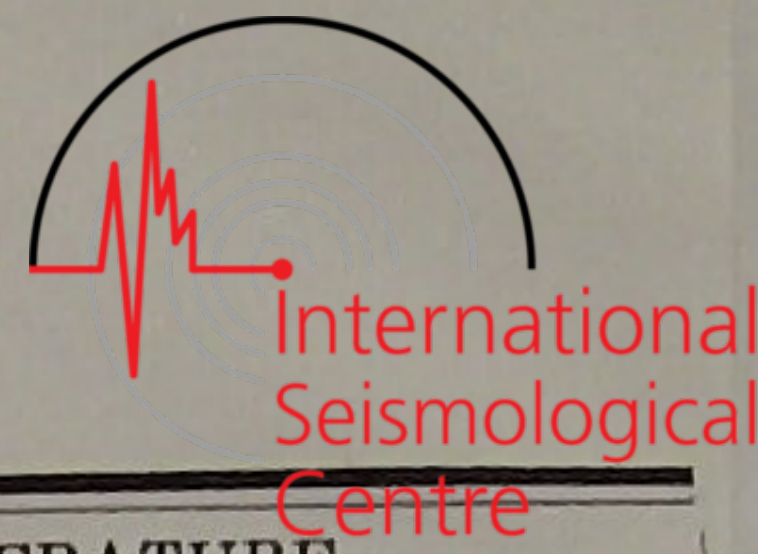
SEPTEMBER, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)				RELATIVE HUMIDITY (%)				AMOUNT OF CLOUD (0-10)												
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	28.8	19.4	21.4	23.0	26.1	28.0	25.9	24.6	24.8	95	97	76	73	84	93	86	0	10	7	10	0	0	4.5
2	27.3	18.4	25.5	26.4	28.6	27.2	22.9	21.0	25.3	97	97	94	75	80	92	89	10	10	10	10	10	7	9.5
3	24.7	18.0	20.2	19.9	21.8	23.7	22.7	23.6	22.0	95	93	86	80	88	95	90	10	10	10	10	10	10	10.0
4	29.6	20.8	23.6	25.4	30.1	30.8	30.7	31.3	28.7	96	97	93	82	89	91	91	10	10	10	10	10	10	10.0
5	30.6	22.9	30.3	28.9	30.5	28.7	29.8	27.2	29.2	92	91	77	68	81	93	84	10	10	10	8	1	0	6.5
6	32.3	21.1	26.0	26.4	31.4	27.7	27.8	25.6	27.5	97	97	82	94	97	99	94	10	10	9	10	10	10	9.8
7	28.4	19.8	24.3	23.0	23.2	22.3	23.5	22.6	23.2	98	99	74	62	83	90	84	10	8	10	9	10	10	9.5
8	25.3	17.3	22.3	20.2	22.6	24.5	25.2	24.7	23.3	95	98	76	76	90	94	88	8	10	10	10	9	10	9.5
9	27.5	21.7	25.0	26.3	27.2	27.1	25.8	26.0	26.2	96	96	82	74	93	94	89	10	10	10	10	10	10	10.0
10	26.5	20.2	25.6	26.2	28.1	26.3	26.7	23.6	26.1	96	97	84	94	95	95	94	10	10	10	10	10	10	10.0
11	27.0	15.5	21.7	19.7	20.2	20.2	19.7	17.6	19.9	96	93	78	58	84	93	84	10	10	7	3	4	6	6.7
12	26.3	13.5	15.9	15.6	19.7	19.3	20.4	20.4	18.6	95	98	82	57	84	91	85	5	10	10	1	1	10	6.2
13	25.9	19.2	20.2	20.7	23.1	22.3	22.3	23.0	21.9	91	92	74	68	84	96	84	10	10	10	10	10	10	10.0
14	28.8	19.6	22.3	22.7	25.3	26.9	25.2	25.8	24.7	96	97	81	69	83	94	87	10	10	10	10	10	10	10.0
15	23.1	19.8	25.5	24.2	26.2	26.5	25.9	22.5	25.1	93	99	97	94	97	96	96	10	10	10	10	10	10	10.0
16	29.2	19.1	22.1	21.8	27.2	27.5	28.2	26.9	25.6	98	98	93	73	75	77	86	10	10	10	10	10	10	10.0
17	23.9	13.8	17.2	14.6	16.3	15.7	16.1	14.6	15.8	74	66	63	58	81	91	72	10	9	8	2	0	0	4.8
18	23.1	11.9	15.1	14.4	12.2	12.8	12.8	12.8	13.4	94	82	49	48	73	91	73	10	10	3	2	2	6	5.5
19	22.9	9.2	12.2	11.7	12.6	13.5	14.0	12.5	12.8	96	98	54	53	79	92	79	8	0	1	3	2	7	3.5
20	24.2	7.2	10.9	10.8	11.5	12.5	12.8	12.9	11.9	93	96	56	42	67	88	74	4	1	3	7	6	3	4.0
21	18.1	12.4	13.5	14.1	16.6	18.6	18.2	18.4	16.6	91	94	90	94	94	96	93	10	10	10	10	10	10	10.0
22	25.0	14.5	18.4	18.3	20.4	23.4	20.8	20.6	20.3	97	97	79	78	88	93	89	10	10	10	10	10	10	10.0
23	27.9	19.3	21.2	22.9	23.5	25.3	25.5	25.5	24.0	93	94	74	69	85	96	85	10	10	6	7	7	6	7.7
24	28.4	16.1	25.2	25.6	22.1	17.1	17.0	16.8	20.6	97	97	74	52	63	87	78	10	10	8	10	8	0	7.7
25	25.6	16.2	17.1	17.1	18.1	17.6	20.4	19.1	18.2	88	89	67	56	85	90	79	8	10	10	10	5	10	8.8
26	19.6	16.6	19.0	19.1	18.9	19.6	19.8	19.2	19.3	90	96	96	87	93	95	93	10	10	10	10	10	10	10.0
27	19.4	15.9	19.1	18.5	18.7	20.0	20.4	18.5	19.2	98	96	95	91	96	96	95	10	10	10	10	10	10	10.0
28	24.5	11.7	17.6	16.1	18.9	13.3	15.9	14.1	16.0	99	99	92	44	80	92	84	10	10	5	1	0	0	4.3
29	24.9	10.8	13.6	13.1	19.0	19.1	19.8	16.4	16.8	97	98	76	62	86	92	85	2	10	10	0	0	0	3.7
30	27.2	13.1	15.1	16.0	19.6	19.9	21.1	20.0	18.6	98	98	90	56	84	94	87	10	10	10	3	8	10	8.5
Mean	25.9	16.5	20.2	20.1	22.0	21.9	21.9	20.9	21.2	94	95	79	69	85	93	86	8.8	9.3	8.6	7.5	6.8	7.2	8.0

Day	PRECIPITATION (mm)				EARTH TEMPERATURE (°C)								REMARKS		
	22-2 ^h	2-6 ^h	6-10 ^h	Total	5 cm				Daily Mean						
					2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm		20 cm	30 cm
1	—	—	—	—	23.2	22.9	25.0	26.4	26.5	24.8	24.8	24.5	24.2	23.9	—
2	—	—	1.0	6.1	24.0	23.8	25.1	26.7	26.5	24.6	25.1	24.9	24.5	23.9	≡ ¹ , T°, ● ¹ , D°
3	—	—	—	0.1	23.3	22.7	23.7	25.2	24.3	23.7	23.8	23.9	24.0	23.8	● ⁰ , T°
4	—	—	0.3	0.3	23.3	23.2	24.7	27.1	26.4	25.7	25.1	24.6	24.0	23.6	9°
5	—	—	—	—	25.4	24.9	26.1	29.9	29.0	26.7	27.0	26.2	25.0	24.1	D°
6	—	—	—	20.0	25.4	24.7	27.1	27.5	26.4	25.2	26.1	25.6	25.4	24.6	≡ ² , ⊙ ² , ≡ ² , D', ∇
7	—	—	—	—	24.6	24.0	25.9	28.7	27.7	25.4	26.1	25.6	25.0	24.4	≡ ⁰
8	—	—	—	0.0	24.3	23.0	24.9	26.3	25.8	24.8	24.9	24.8	24.7	24.3	≡ ¹ , 9°, ● ⁰
9	0.3	—	—	0.8	24.3	23.9	24.7	26.6	26.0	25.1	25.1	24.8	24.5	24.1	● ⁰ , ⊙ ⁰
10	0.0	—	—	10.9	24.6	24.2	26.1	25.9	25.5	24.6	25.2	25.0	24.6	24.1	≡ ¹ , ⊙ ⁰ , ● ¹
11	4.8	0.4	0.0	5.2	23.3	22.6	23.6	28.0	26.5	23.9	24.7	24.5	24.3	23.9	● ⁰ , D°
12	—	—	—	—	22.1	20.8	22.9	27.0	25.5	23.6	23.7	23.6	23.8	23.6	≡ ² , D ¹
13	—	—	—	1.7	22.9	22.4	24.3	26.1	25.0	23.9	24.1	23.8	23.7	23.4	∇ ⁰
14	—	—	0.0	0.0	23.1	22.7	24.1	27.1	26.2	24.7	24.7	24.3	23.9	23.5	9°
15	—	4.4	5.6	16.7	24.2	23.4	23.8	24.4	24.4	23.4	23.9	24.0	23.9	23.6	● ¹
16	8.3	4.2	0.0	12.5	22.6	22.2	23.2	25.4	24.7	24.4	23.8	23.6	23.4	23.3	● ¹ , ⊙ ⁰ , ∇
17	0.0	—	—	0.0	22.7	21.9	22.5	23.7	23.5	21.3	22.6	23.0	23.2	23.1	D°, ∇, ∇
18	—	0.0	—	0.0	20.3	19.7	21.8	24.8	23.0	20.4	21.7	22.0	22.4	22.5	● ⁰ , D°, ∇
19	—	0.0	—	0.0	18.8	17.6	20.5	23.8	22.2	19.6	20.4	20.9	21.6	21.9	∇ ⁰ , ≡ ⁰ , D°
20	—	—	—	—	17.8	16.3	19.2	23.8	22.1	19.8	19.8	20.1	20.9	21.3	D ¹
21	—	—	0.3	2.0	18.6	18.1	18.6	19.5	19.6	19.2	18.9	19.6	20.4	20.9	● ⁰ , D ¹
22	1.1	0.1	—	1.2	19.0	18.9	20.9	23.6	22.7	21.4	21.1	20.7	20.6	20.8	● ⁰ , D ¹
23	—	—	—	—	21.0	20.9	22.4	24.9	24.2	23.0	22.7	22.2	21.7	21.3	—
24	—	1.7	1.8	3.5	22.6	22.2	23.3	25.6	23.9	21.9	23.3	22.9	22.5	21.8	● ¹ , ≡ ⁰ , D°
25	—	—	—	—	20.8	20.4	21.8	24.6	23.9	22.0	22.3	22.1	22.0	21.8	D°
26	—	7.4	21.6	30.6	21.5	20.6	19.2	20.7	20.9	20.4	20.6	20.9	21.3	21.5	● ²
27	1.8	7.5	2.3	12.0	20.0	19.4	19.6	20.4	20.5	19.8	20.0	20.2	20.6	21.0	● ¹ , ≡ ²
28	—	—	—	—	19.2	18.9	19.5	23.5	21.8	19.0	20.3	20.3	20.6	20.7	≡ ²
29	—	—	—	—	17.4	16.9	20.7	24.7	23.1	20.1	20.5	20.1	20.4	20.5	≡ ⁰ , D ¹
30	—	—	—	—	18.3	18.0	20.4	26.2	24.0	21.4	21.4	20.9	20.7	20.6	≡ ¹ , D ²
Mean	16.3	25.7	32.9	123.6	22.0	21.4	22.9	25.3	24.4	22.8	23.1	23.0	22.9	22.7	

OCTOBER, 1961.

International
Seismological
Centre

Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	0.4	2.1	4.0	3.3	6.6	9.8	4.4	7.9	9.6	11.5	10.6	14.2	17.3	11.9	17.8	17.5	20.0	23.9	18.0	16.1	18.9
2	10.7	12.3	13.9	12.5	13.9	14.2	12.9	18.3	19.9	21.4	20.1	21.4	21.7	20.5	15.1	14.8	16.9	16.9	15.9	15.6	15.9
3	14.4	15.2	16.2	14.8	15.8	16.7	15.5	21.9	22.9	23.8	22.3	23.4	24.4	23.1	15.1	15.2	16.7	17.8	16.2	15.7	16.1
4	16.8	17.5	17.9	16.4	16.7	16.0	16.9	24.5	25.1	25.6	24.1	24.4	23.7	24.6	15.3	14.9	15.2	14.8	14.7	13.7	14.8
5	14.1	14.1	10.4	7.4	6.6	5.3	9.7	21.6	21.8	18.0	14.9	14.2	12.8	17.2	12.7	12.7	14.5	15.6	15.3	14.9	14.3
6	3.2	1.8	1.0	995.7	994.0	993.1	998.1	10.7	9.4	8.4	3.0	1.3	0.4	5.5	14.7	15.1	18.0	22.7	19.2	19.2	18.2
7	994.1	995.7	995.8	997.6	0.0	2.5	997.6	1.4	3.1	3.3	4.9	7.6	10.1	5.1	18.5	17.0	17.5	17.6	14.1	13.5	16.4
8	3.7	7.0	9.1	7.8	9.3	10.9	8.0	11.4	14.7	16.6	15.2	16.8	18.5	15.5	11.5	11.7	18.7	20.6	15.5	12.1	15.0
9	10.7	10.7	11.0	7.5	7.9	7.4	9.2	18.4	18.5	18.5	15.0	15.5	15.0	16.8	11.0	9.7	14.7	18.3	16.2	14.7	14.1
10	4.0	0.2	993.9	991.9	997.7	2.0	998.3	11.6	7.7	1.4	999.4	5.3	9.6	5.8	14.9	13.7	13.3	12.7	13.7	13.1	13.6
11	4.4	6.4	8.0	6.5	8.3	10.5	7.4	12.0	14.1	15.6	14.0	15.9	18.1	15.0	12.1	11.6	15.5	20.9	16.3	13.2	14.9
12	11.6	12.6	13.3	11.4	13.1	14.1	12.7	19.3	20.4	20.8	18.8	20.7	21.9	20.3	11.8	9.6	18.2	20.4	14.9	9.7	14.1
13	13.3	13.8	13.8	11.0	12.7	13.1	13.0	21.1	21.6	21.2	18.4	20.3	20.8	20.6	7.2	8.4	18.2	20.3	12.7	10.6	12.9
14	11.5	11.5	11.5	8.6	11.9	13.4	11.4	19.3	19.4	19.1	16.1	19.7	21.2	19.1	11.0	6.9	15.3	17.3	11.6	9.3	11.9
15	13.8	14.5	15.3	12.0	12.7	14.0	13.7	21.6	22.4	23.1	19.6	20.4	21.7	21.5	6.6	5.4	10.7	17.3	12.1	7.3	9.9
16	13.3	13.8	12.9	8.9	9.5	9.7	11.4	21.1	21.7	20.7	16.4	17.1	17.2	19.0	5.8	4.7	10.4	19.1	15.7	14.3	11.7
17	10.2	11.5	14.2	13.7	17.1	19.7	14.4	17.7	17.8	21.6	21.0	24.7	27.4	21.7	13.5	11.5	20.3	22.2	18.1	16.5	17.0
18	20.1	20.4	20.4	17.0	15.1	12.8	17.6	27.8	28.1	28.1	24.6	22.8	20.5	25.3	15.5	14.3	15.1	16.2	16.1	16.0	15.5
19	10.0	7.4	5.5	2.1	4.0	6.8	6.0	17.5	15.0	13.0	9.6	11.6	14.5	13.5	15.9	15.8	17.4	16.7	16.4	14.1	16.1
20	8.2	10.3	13.6	13.4	15.3	17.1	13.0	15.9	18.0	21.2	21.1	23.0	25.0	20.7	13.5	10.3	12.1	12.0	10.1	9.1	11.2
21	18.4	20.3	21.7	20.6	22.8	24.4	21.4	26.3	28.3	29.6	28.3	30.6	32.3	29.2	6.8	4.5	10.7	14.3	9.8	7.1	8.9
22	24.9	25.0	24.1	20.4	19.7	17.4	21.9	33.0	33.1	32.0	28.0	27.3	25.1	29.8	5.3	2.4	10.7	16.5	14.7	13.4	10.5
23	12.5	9.7	8.8	7.7	11.0	14.7	10.7	20.2	17.3	16.5	15.3	18.6	22.4	18.4	13.1	13.1	13.8	16.3	13.9	10.8	13.5
24	16.9	19.1	21.9	20.7	22.9	24.7	21.0	24.8	27.0	29.7	28.6	30.8	32.7	28.9	8.2	7.3	11.5	11.8	7.7	4.2	8.5
25	24.2	25.2	24.8	21.7	23.3	24.4	23.9	32.3	32.0	32.8	29.5	31.1	32.6	31.7	1.9	-0.3	8.5	13.1	7.8	2.9	5.7
26	23.3	22.9	22.3	18.1	18.1	16.8	20.3	31.5	31.1	30.2	25.9	25.9	24.5	28.2	0.2	-0.8	6.5	12.9	11.2	11.8	7.0
27	13.0	9.8	7.4	5.2	4.3	2.8	7.1	20.7	17.3	15.0	12.7	11.8	10.3	14.6	11.5	14.7	16.4	18.3	18.4	17.7	16.2
28	999.8	997.8	996.3	993.4	992.5	991.0	995.1	7.3	5.3	3.7	0.8	999.9	998.5	2.6	17.8	17.7	18.5	18.1	16.7	16.2	17.5
29	990.1	990.6	994.0	997.2	3.7	9.4	997.5	997.5	998.1	1.4	4.7	11.4	17.1	5.0	15.9	16.1	18.2	15.8	11.7	9.8	14.6
30	12.6	15.7	18.6	17.2	19.8	20.7	17.4	20.4	23.6	26.3	24.8	27.7	28.6	25.2	8.5	8.1	12.6	15.0	9.1	7.7	10.2
31	20.8	21.2	20.7	17.3	18.4	19.0	19.6	28.8	29.3	28.6	25.0	26.2	26.8	27.5	4.0	2.0	9.2	15.1	11.1	7.9	8.2
Mean	11.1	11.5	11.7	9.6	11.1	12.1	11.2	18.8	19.1	19.3	17.2	18.8	19.8	18.8	11.4	10.5	14.7	17.1	14.0	12.2	13.3
Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar ahd Sky Radiation (Cal/cm ²)	Amount of Evaporation (mm)					
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized											
1	NW	2.2	NNW	4.8	N	6.5	NNW	2.2	SSW	1.1	W	2.2	3.2	3.1	3.9	345	(3.6)	(2.7)			
2	NNW	1.1	—	0.2	S	0.7	SSE	3.0	S	2.0	SW	1.5	1.4	1.8	—	124	(0.6)	(0.3)			
3	—	0.2	—	0.0	SSW	1.7	S	1.1	S	1.7	WNW	1.1	1.0	0.8	—	125	(0.0)	(0.0)			
4	W	2.0	—	0.0	—	0.0	WNW	1.7	—	0.0	WNW	0.4	0.7	1.1	—	67	(0.0)	(0.0)			
5	—	0.2	—	0.0	—	0.2	WNW	0.4	N	0.9	—	0.0	0.3	0.6	—	65	(0.2)	(0.3)			
6	—	0.0	NNE	0.7	—	0.2	SSE	5.9	S	6.1	S	7.3	3.4	3.1	1.0	231	(1.2)	(0.1)			
7	NE	1.1	ENE	1.7	—	0.0	—	0.2	S	0.4	NE	1.1	0.8	1.7	1.1	118	(0.9)	(1.2)			
8	SE	1.1	ENE	1.7	ESE	1.3	N	3.0	—	0.2	—	0.0	1.2	1.2	8.8	458	3.3	1.9			
9	NNW	1.1	N	1.7	N	1.5	NNW	2.2	N	2.6	NNW	3.8	2.2	2.7	0.3	253	(2.0)	(0.3)			
10	NNW	4.2	NNW	8.4	NNW	10.5	NNW	12.5	NNW	10.0	NNW	3.6	8.2	7.8	—	62	(2.3)	(2.1)			
11	NNW	1.1	—	0.0	—	0.2	SSW	3.0	S	4.0	—	0.0	1.4	1.6	1.6	293	2.5	1.2			
12	—	0.2	—	0.0	NNW	3.8	NNW	2.4	WNW	2.8	—	0.2	1.6	1.7	8.8	420	3.4	2.4			
13	—	0.2	W	1.5	E	0.4	—	0.0	WNW	1.7	NW	1.1	0.8	1.3	8.3	439	3.6	2.2			
14	N	1.3	WSW	1.1	WNW	9.8	WNW	11.3	NW	3.2	NNW	2.2	4.8	3.3	9.6	432	(3.3)	(2.6)			
15	NW	2.0	WNW	1.7	NNE	1.5	SSE	2.6	SSE	2.2	NW	0.4	1.7	1.2	6.5	394	2.4	1.5			
16	NW	1.5	NNE	0.7	—	0.2	S	4.8	SE	0.4	W	1.1	1.5	1.2	3.7	318	2.4	0.5			
17	E	1.1	W	1.7	W	1.3	NW	3.6	SSE	4.6	SSW	2.4	2.5	2.3	5.9	367	(3.1)	(2.4)			
18	—	0.0	S	1.3	—	0.0	SSW	0.7	—	0.0	—	0.2	0.4	0.8	—	56	(0.4)	(0.2)			
19	NNW	1.3	NW	0.7	NNW	2.8	NW	3.2	N	2.4	NNW	2.2	2.1	2.1	—	125	(0.8)	(0.8)			
20	N	3.8	N	5.4	N	4.6	NNW	3.2	W	1.7	NNW	1.5	3.4	3.1	—	124	1.3	1.0			
21	—	0.0	—	0.0	E	0.4	SSE	0.4	E	0.9	—	0.0	0.3	0.6	1.9	287	1.5	0.7			
22	—	0.0	—	0.0	S	0.7	SE	4.8	SSE	2.8	SSE	2.4	1.8	1.9	0.8	245	(0.0)	(0.0)			
23	NE	0.4	NNW	0.7	—	0.2	NNW	3.4	WNW	5.4	WNW	6.5	2.8	2.8	—	52	(1.8)	(1.5)			
24	NW	2.8	NW	3.4	NW	5.4	NW	7.3	NNW	2.4	W	1.1	3.7	3.3	8.8	391	2.8	1.9			
25	NNW	2.0	NNW	1.1	N	1.7	WNW	0.9	SSE	3.0	W	0.7	1.6	1.5	9.3	431	2.3	1.2			
26	—	0.0	WNW	0.4	ESE	0.7	SSW	3.2	SSW	0.7	SE	2.4	1.2	1.2	3.5	271	2.2	0.9			
27	WNW	1.7	ESE	5.7	ESE	6.7	E	3.0	E	2.6	ESE	2.4	3.7	3.8	0.1	100	(1.4)	(0.9)			
28	SE	3.6	NE	3.2	W	0.9	—	0.2	NNW	1.7	NNW	6.1	2.6	2.7	—	86	(0.7)	(0.3)			
29	N	4.4	NNW	4.2	N	2.0	WNW	7.6	WNW	6.5	NNW	2.0	4.5	4.4	1.2	208	(2.8)	(2.2)			
30	NNW	3.4	NNW	3.4	NNW	2.6	NE	2.6	S	2.2	—	0.0	2.4	2.3	9.4	403	2.6	1.6			
31	WNW	1.1	NNW	0.9	NNW	0.7	SSE	4.6	SSE	3.0	WNW	0.7	1.8	1.6	7.7	351	2.0	1.1			
Mean		1.5		1.8		2.2		3.4		2.6		1.8	2.3	2.2	102.2	7641	57.3	36.0			



OCTOBER, 1961.

Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)					RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)										
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	24.3	15.3	19.2	17.9	17.8	17.5	19.1	17.2	18.1	94	90	76	59	92	94	84	10	10	9	3	10	10	8.7
2	17.7	14.6	16.3	15.8	17.8	16.7	16.4	16.3	16.6	95	94	92	87	91	92	92	10	10	10	10	10	10	10.0
3	18.7	15.0	16.6	16.6	17.5	17.2	17.3	17.1	17.1	97	96	92	84	94	96	93	10	10	10	10	10	10	10.0
4	15.4	13.2	16.8	16.4	16.4	15.8	15.9	14.8	16.0	97	97	95	94	95	95	96	10	10	10	10	10	10	10.0
5	15.7	12.3	14.2	14.4	16.0	17.4	17.0	16.4	15.9	97	98	97	98	98	97	98	10	10	10	10	10	10	10.0
6	23.1	14.4	16.4	16.8	18.7	22.9	21.4	22.0	19.7	98	98	91	83	96	99	94	10	10	10	10	10	10	10.0
7	18.9	12.1	20.5	18.6	18.8	17.1	12.5	13.8	16.9	96	96	94	85	78	89	90	10	10	10	10	0	7	7.8
8	21.1	10.6	11.7	12.4	12.5	10.7	13.6	12.4	12.2	87	90	58	44	78	88	74	3	10	4	2	8	10	6.2
9	18.6	9.5	12.2	11.2	11.9	14.8	12.2	12.2	12.4	93	93	71	70	66	73	78	10	10	10	10	10	10	10.0
10	15.2	11.7	11.1	13.1	13.2	13.1	11.6	12.0	12.4	66	83	86	89	74	80	80	10	10	10	10	10	10	10.0
11	21.1	11.4	12.5	12.7	13.6	15.6	15.8	14.2	14.1	89	93	77	63	85	93	83	8	10	10	8	9	1	7.7
12	21.3	8.7	13.7	11.7	12.3	12.4	11.9	10.7	12.1	99	98	59	52	70	89	78	10	0	5	3	0	0	3.0
13	20.9	6.6	9.5	10.6	13.0	11.1	11.1	10.7	11.0	93	96	62	47	75	84	76	0	6	2	2	0	10	3.3
14	18.1	6.3	9.4	9.4	10.6	10.2	8.2	7.9	9.3	72	94	61	51	60	68	68	10	3	7	2	0	8	5.0
15	17.5	5.1	8.3	7.7	8.6	9.5	10.9	9.5	9.1	85	86	67	48	77	93	76	10	10	9	0	0	0	4.8
16	19.5	3.6	8.7	8.3	10.5	15.6	15.4	15.4	12.3	94	97	84	70	86	95	88	0	10	10	8	10	10	8.0
17	24.6	11.4	14.8	13.1	16.8	15.1	15.3	15.3	15.1	96	97	70	57	74	82	79	10	3	6	3	10	10	7.0
18	16.8	14.1	16.2	14.9	16.5	17.3	17.7	17.6	16.7	92	92	96	94	97	97	95	10	10	10	10	10	10	10.0
19	17.7	13.8	17.7	17.6	17.4	17.7	17.2	14.7	17.1	98	98	90	93	92	92	94	10	10	10	10	10	10	10.0
20	13.3	7.2	12.5	8.8	8.7	9.3	9.3	8.3	9.5	81	70	61	66	75	72	71	9	3	10	10	10	10	8.7
21	14.7	4.2	9.1	7.9	8.2	8.6	10.1	9.0	8.8	92	93	64	53	83	89	79	9	9	10	10	9	10	9.5
22	17.5	2.2	8.3	6.8	10.2	13.1	12.7	14.4	10.9	93	93	79	70	76	93	84	6	1	10	10	10	10	7.8
23	16.6	9.6	14.6	14.6	15.3	13.3	11.6	8.3	13.0	97	97	97	72	73	64	83	10	10	10	10	10	7	9.5
24	13.3	3.0	7.5	7.6	6.7	7.3	6.8	6.8	7.1	69	74	49	53	64	82	65	5	8	4	6	8	9	6.7
25	13.5	-0.4	6.4	6.0	6.4	4.6	7.9	6.7	6.3	92	100	57	30	74	89	74	7	1	0	0	1	1	1.7
26	13.3	-0.9	5.8	5.5	8.2	10.8	11.6	10.0	8.7	93	95	85	72	87	73	84	0	3	10	10	10	10	7.2
27	18.7	11.1	11.0	12.1	14.0	15.0	16.6	16.7	14.2	81	72	75	71	78	82	77	10	10	10	10	10	10	10.0
28	19.5	15.8	16.6	17.1	19.1	17.9	17.0	16.4	17.4	82	84	90	86	89	89	87	10	10	10	10	10	10	10.0
29	20.1	9.4	15.8	14.8	16.7	12.8	9.0	7.6	12.8	87	81	80	71	65	63	75	10	9	8	8	2	1	6.3
30	15.3	6.3	7.3	6.9	7.2	6.4	8.2	9.3	7.6	66	64	49	38	71	88	63	0	0	0	0	0	10	1.7
31	16.2	1.9	7.5	6.8	8.5	10.4	10.9	10.2	9.1	92	97	73	60	83	96	84	0	0	0	10	7	10	4.5
Mean	18.0	9.0	12.5	12.1	13.2	13.5	13.3	12.7	12.9	89	91	77	68	81	86	82	7.6	7.3	7.9	7.3	7.2	8.2	7.6

Day	PRECIPITATION (mm)					EARTH TEMPERATURE (°C)								REMARKS				
				Total	5 cm					Daily Mean								
	22-2 ^h	2-6 ^h	6-10 ^h		10-14 ^h	14-18 ^h	18-22 ^h	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h		Mean	10 cm	20 cm	30 cm
1	—	—	—	—	11.4	3.5	14.9	20.2	19.7	20.0	25.2	22.3	20.6	21.3	21.1	21.2	20.8	☉ ²
2	1.2	—	0.2	0.0	0.0	0.0	1.4	19.5	18.6	19.4	19.8	19.1	18.5	19.2	19.7	20.4	20.6	☉ ⁰ , ☉ ⁹
3	1.2	0.8	0.7	0.0	0.5	0.6	3.8	18.1	17.9	18.6	19.9	19.2	18.5	18.7	19.1	19.7	20.1	☉ ⁰ , ☉ ⁹
4	0.0	0.3	3.3	5.1	0.0	0.6	9.3	18.0	17.6	17.9	18.2	17.8	17.2	17.8	18.4	19.2	19.7	☉ ¹
5	3.2	2.5	6.1	16.0	6.7	0.7	35.2	16.5	16.1	16.4	17.2	17.1	16.8	16.7	17.2	18.2	18.9	☉ ¹
6	—	—	—	—	0.3	0.3	0.6	16.2	16.4	18.4	21.2	20.5	19.7	18.7	18.3	18.3	18.7	☉ ⁹ , ☉ ⁰
7	1.0	1.1	3.8	1.4	—	—	7.3	19.3	18.7	18.7	19.1	18.2	16.6	18.4	18.8	19.0	19.2	☉ ⁰ , ☉ ⁰
8	—	—	—	—	—	—	—	15.1	14.6	18.3	23.1	20.1	17.2	18.1	18.0	18.4	18.8	☉ ⁰
9	—	—	—	—	—	—	—	15.8	14.6	16.6	19.0	17.8	16.4	16.7	17.2	18.0	18.6	☉ ⁰
10	—	1.4	12.2	5.8	0.0	—	19.4	15.7	15.2	14.9	14.4	14.2	13.9	14.7	15.5	16.9	18.0	☉ ² , ☉ ¹
11	—	—	—	—	—	—	—	13.8	13.6	15.9	19.6	18.0	16.1	16.2	16.0	16.5	17.3	☉ ⁰
12	—	—	—	—	—	—	—	14.8	13.9	17.2	21.6	18.6	15.4	16.9	16.9	17.2	17.5	☉ ¹ , ☉ ¹
13	—	—	—	—	—	—	—	13.3	12.9	17.1	21.4	18.8	15.1	16.4	16.5	17.0	17.4	☉ ⁰ , ☉ ¹
14	—	—	0.0	0.3	—	—	0.3	14.1	12.4	15.7	19.7	16.0	13.5	15.2	15.7	16.7	17.2	☉ ⁰ , ☉ ¹
15	—	—	—	—	—	—	—	12.4	11.4	13.2	19.4	16.4	13.3	14.4	14.8	15.9	16.7	☉ ⁰ , ☉ ¹
16	—	—	—	—	—	—	—	11.5	10.2	12.8	18.0	16.9	15.6	14.2	14.4	15.4	16.2	☉ ¹ , ☉ ⁰
17	—	—	—	—	—	—	—	14.9	13.9	17.5	21.9	19.2	17.6	17.5	16.7	16.4	16.5	☉ ¹ , ☉ ⁰
18	0.0	0.2	1.6	0.4	0.2	—	2.4	16.8	16.3	16.4	17.4	17.0	16.7	16.8	16.9	17.1	17.0	☉ ⁰ , ☉ ⁹
19	—	—	0.4	0.3	2.6	—	3.3	16.6	16.5	17.4	18.5	17.7	16.6	17.2	17.2	12.2	17.1	☉ ¹ , ☉ ¹ , ☉ ⁹
20	—	—	—	—	—	—	—	15.5	14.2	13.9	14.6	13.8	12.9	14.2	15.3	16.4	16.9	☉ ⁰
21	—	—	—	—	—	—	—	11.9	10.4	12.6	16.1	14.6	12.4	13.0	13.8	15.1	16.0	☉ ⁰
22	—	—	—	—	—	0.2	0.2	11.0	9.3	12.0	15.5	14.7	14.3	12.8	13.3	14.5	15.5	☉ ⁹ , ☉ ⁰ , ☉ ⁰
23	9.6	13.6	6.5	0.5	0.0	—	30.2	13.9	13.8	13.9	14.9	14.4	12.9	14.0	14.1	14.6	15.3	☉ ² , ☉ ⁰ , ☉ ⁰
24	—	—	—	—	—	—	—	11.2	10.1	12.9	11.2	13.2	10.5	12.4	13.0	14.2	15.1	☉ ¹ , ☉ ¹
25	—	—	—	—	—	—	—	8.8	7.4	10.8	16.3	13.0	9.9	11.0	11.7	13.2	14.4	☉ ¹ , ☉ ⁰
26	—	—	—	—	0.0	—	0.0	8.0	6.6	9.4	13.6	12.6	11.8	10.3	11.0	12.3	13.7	☉ ¹ , ☉ ⁰
27	—	—	—	—	0.0	0.0	0.0	11.5	11.8	13.1	14.2	14.5	14.6	13.3	13.0	13.3	13.9	☉ ⁰ , ☉ ⁰ , ☉ ¹ , ☉ ⁰
28	0.0	—	0.4	0.2	0.4	2.1	3.1	14.7	14.9	15.9	16.9	16.2	15.7	15.7	15.1	14.8	14.7	☉ ⁰ , ☉ ⁰ , ☉ ¹
29	0.2	—	0.6	0.3	—	—	1.1	15.2	14.7	15.9	18.2	15.4	12.8	15.4	15.5	15.5	15.3	☉ ⁰ , ☉ ⁰
30	—	—	—	—	—	—	—	11.1	9.9	12.9	17.6	14.2	11.8	12.9	13.4	14.4	15.0	☉ ⁰ , ☉ ⁰
31	—	—	—	—	—	—	—	10.3	8.8	11.3	16.1	13.8	11.6	12.0	12.4	13.5	14.3	☉ ⁰ , ☉ ⁰
Mean	16.4	19.9	35.8	30.3	22.1	8.0	132.5	14.4	13.6	15.4	18.2	16						

NOVEMBER, 1961.

Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	18.4	19.2	19.7	18.3	21.2	22.1	19.8	26.3	27.2	27.4	25.9	29.1	30.1	27.7	5.7	4.0	13.6	16.2	8.9	4.9	8.9
2	22.0	23.2	23.4	20.6	22.1	21.1	22.1	30.0	31.3	31.3	28.3	30.0	29.1	30.0	7.8	1.1	12.0	15.1	9.5	7.2	8.8
3	18.7	16.6	13.1	6.5	6.4	6.7	11.3	26.6	24.4	20.9	14.2	14.1	14.5	19.1	6.8	6.7	7.6	10.3	11.2	11.4	9.0
4	6.5	7.9	8.9	7.1	8.6	8.7	8.0	14.1	15.7	16.6	14.7	16.3	16.5	15.7	12.3	10.9	13.7	16.1	10.7	9.5	12.2
5	7.9	10.5	13.5	14.1	17.2	19.5	13.8	15.7	18.3	21.2	21.6	25.2	27.6	21.6	7.7	7.5	11.1	13.0	5.6	2.1	7.8
6	20.6	20.9	20.5	17.0	17.5	16.8	18.9	28.7	29.1	28.4	24.7	25.3	24.8	26.8	-0.1	-1.2	7.6	14.1	7.7	2.6	5.1
7	16.3	15.7	15.4	12.4	14.4	14.7	14.8	24.4	23.8	23.3	20.0	22.1	22.5	22.7	0.7	-0.3	7.9	15.6	10.1	6.5	6.8
8	13.9	14.4	13.6	9.6	9.9	7.8	11.5	21.7	22.3	21.3	17.1	17.6	15.6	19.3	6.7	2.7	10.6	15.5	10.7	8.1	9.1
9	4.6	3.4	5.3	5.5	7.1	9.7	5.9	12.3	11.1	13.0	13.2	14.9	17.4	13.7	8.9	9.2	11.2	11.1	8.9	6.4	9.3
10	11.8	13.6	13.8	10.7	11.8	12.3	12.3	19.7	21.5	21.6	18.4	19.7	20.2	20.2	4.8	2.6	9.1	11.2	7.5	6.9	7.0
11	13.1	12.7	12.3	10.5	10.9	11.4	11.8	21.0	20.6	20.2	18.1	18.8	19.3	19.7	6.3	4.5	7.2	8.0	4.5	6.0	6.1
12	10.2	9.4	9.2	7.0	7.6	8.3	8.6	18.0	17.2	17.0	14.7	15.4	16.3	16.4	4.3	2.3	7.5	9.9	6.3	4.3	5.8
13	8.9	9.6	12.7	13.4	16.8	18.6	13.3	16.9	17.6	20.6	21.2	24.8	26.6	21.3	2.4	0.8	4.6	5.3	2.2	2.9	3.0
14	19.6	21.1	22.4	21.3	22.9	23.9	21.9	27.7	29.2	30.3	29.2	30.9	32.1	29.9	0.2	-0.8	9.4	11.1	4.4	-0.6	4.0
15	23.8	24.4	24.4	21.5	23.0	23.9	23.5	32.0	32.7	32.4	29.2	31.0	31.9	31.5	-2.4	-3.8	4.7	13.2	6.2	2.2	3.4
16	24.0	25.0	26.1	25.2	26.7	27.1	25.7	32.2	33.1	34.0	33.0	34.6	35.2	33.7	1.6	0.1	10.7	13.2	7.5	2.9	6.0
17	26.9	26.8	26.5	23.0	22.6	20.5	24.4	34.9	34.9	34.5	30.9	30.4	28.4	32.3	0.8	1.5	6.5	10.9	8.9	8.1	6.1
18	17.5	13.9	10.6	7.8	9.5	11.1	11.7	25.4	21.6	18.3	15.6	17.2	18.9	19.5	7.7	7.9	8.3	9.7	9.9	9.1	8.8
19	13.5	17.9	20.7	20.2	23.1	23.9	19.9	21.2	25.8	28.5	28.1	31.0	31.9	27.8	8.6	7.3	8.5	8.9	6.3	3.9	7.3
20	23.9	24.3	25.2	23.2	23.9	23.8	24.1	32.0	32.6	33.2	31.1	31.9	31.8	32.1	0.4	-1.5	5.5	9.1	6.1	4.3	4.0
21	22.6	21.5	20.4	15.8	13.9	10.6	17.5	30.7	29.6	28.4	23.5	21.6	18.3	25.4	2.6	1.9	5.6	10.5	8.9	8.7	6.4
22	6.6	2.0	998.5	992.0	990.6	992.4	997.0	14.5	9.7	6.1	999.5	998.2	0.0	4.7	7.9	10.3	13.5	14.5	13.1	9.0	11.4
23	992.9	994.6	995.7	996.0	999.0	999.7	996.3	0.6	2.4	3.4	3.8	6.9	7.6	4.1	8.1	6.7	8.9	8.5	4.9	3.3	6.7
24	997.4	999.2	999.4	999.7	3.8	6.7	1.0	5.3	7.1	7.3	7.6	11.7	14.7	9.0	3.1	1.9	5.1	1.2	1.9	2.9	2.7
25	5.0	2.7	3.3	2.1	2.3	2.6	3.0	12.9	10.6	11.1	9.9	10.2	10.6	10.9	4.5	4.1	6.1	6.5	5.0	3.1	4.9
26	4.3	6.5	8.5	7.8	9.4	10.2	7.8	12.3	14.5	16.4	15.7	17.2	18.0	15.7	1.0	1.1	3.9	6.1	6.3	7.2	4.3
27	10.0	9.6	10.1	8.0	9.7	8.9	9.4	17.7	17.2	17.6	15.6	17.3	16.7	17.0	7.7	9.0	15.7	16.3	10.7	10.3	11.6
28	7.6	6.6	6.1	1.3	999.8	1.0	3.7	15.3	14.2	13.7	8.7	7.3	8.6	11.3	10.8	12.4	14.1	17.9	13.5	12.5	13.5
29	1.9	4.1	8.2	9.3	11.4	11.8	7.8	9.5	11.8	15.9	17.0	19.2	19.7	15.5	12.4	10.5	10.7	10.0	8.5	6.4	9.8
30	12.3	12.6	13.4	11.8	13.2	14.4	13.0	20.2	20.6	21.2	19.6	21.1	22.4	20.9	5.2	2.2	8.2	9.3	3.9	1.0	5.0
Mean	12.8	13.0	13.4	11.3	12.5	13.0	12.7	20.7	20.9	21.2	19.0	20.4	20.9	20.5	5.2	4.1	9.0	11.3	7.7	5.8	7.2

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amounts of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	NW	0.9	N	0.7	NNW	2.6	W	5.5	W	4.2	E	1.7	2.6	2.5	8.9	385		
2	NW	3.8	—	0.2	N	3.2	NW	3.4	—	0.0	—	0.0	1.8	1.8	7.2	345		
3	—	0.0	—	0.0	—	0.0	SSE	2.6	S	3.0	—	0.2	1.0	1.7	—	42		
4	ESE	0.9	NNW	4.4	NNW	4.4	NW	3.2	WNW	1.5	NNW	2.0	2.7	2.1	5.3	279		
5	—	0.0	NW	2.2	N	3.6	NNW	3.4	W	1.7	WNW	1.1	2.0	2.5	5.7	310		
6	NW	0.7	NW	0.4	NNW	1.3	SSW	1.5	SW	1.3	—	0.0	0.9	0.9	7.6	354		
7	NW	1.3	NW	0.4	N	1.5	NNW	3.0	NNW	2.2	—	0.2	1.4	1.3	2.8	232		
8	—	0.0	E	1.1	W	0.7	S	2.6	SE	2.8	ESE	1.7	1.5	1.7	5.6	303		
9	SSE	3.8	SE	2.2	E	1.1	NNW	2.8	NNW	4.0	NNW	8.7	3.8	3.1	0.3	106		
10	NW	3.2	WNW	2.2	E	2.4	SSE	4.6	S	1.7	N	1.5	2.6	2.4	3.8	296		
11	—	0.0	NNE	0.7	WNW	1.3	—	0.0	WNW	0.4	NNW	5.4	1.3	1.4	—	103		
12	NW	2.2	NW	1.1	E	1.7	W	1.1	NW	3.2	W	2.8	2.0	2.5	3.0	234		
13	W	6.1	WNW	3.4	WNW	7.4	WNW	6.9	NW	4.0	NNW	4.4	5.4	4.9	7.8	320		
14	W	1.3	N	3.8	WNW	2.0	WNW	5.4	SSE	0.4	—	0.0	2.2	2.8	8.0	346		
15	—	0.0	—	0.0	WSW	0.4	—	0.2	E	1.5	—	0.0	0.4	0.7	7.3	331		
16	NW	0.9	NW	2.0	—	0.0	—	0.0	SE	1.1	—	0.2	0.7	0.7	4.0	223		
17	—	0.0	—	0.0	—	0.2	S	0.4	SE	2.0	—	0.0	0.4	0.6	1.1	165		
18	—	0.0	—	0.0	NNW	1.7	N	1.1	NNW	5.0	NW	5.0	2.1	2.5	—	25		
19	NNW	3.2	N	4.2	NE	3.6	ENE	4.0	NW	0.9	NW	2.6	3.1	3.1	1.0	187		
20	NNW	1.3	NW	1.3	NNW	1.7	SSE	2.2	SSE	1.5	—	0.0	1.3	0.9	4.3	270		
21	W	0.9	WNW	0.9	—	0.2	S	4.2	SSW	1.7	SSW	2.0	1.7	1.7	—	145		
22	ESE	1.7	S	3.6	S	9.4	SSE	6.1	—	0.2	WNW	1.7	3.8	3.2	—	42		
23	NW	4.2	NNW	5.4	NW	3.6	NW	4.8	NW	2.2	NE	2.4	3.8	3.9	5.8	282		
24	—	0.0	NNW	3.4	WSW	8.7	N	2.6	WNW	5.5	N	2.6	3.8	3.6	2.9	205		
25	E	2.2	SSE	4.0	S	2.0	N	3.0	W	6.7	WSW	3.0	3.5	3.0	1.6	117		
26	WSW	2.8	WSW	6.5	NNW	4.6	N	3.8	NE	2.2	N	1.1	3.5	4.0	1.9	166		
27	NE	1.3	ENE	3.2	SW	3.6	S	2.6	SW	2.8	SSE	3.2	2.8	2.8	6.1	254		
28	S	2.2	SSE	4.0	SSE	4.0	SSE	4.2	SSE	3.2	NW	4.4	3.7	3.5	3.4	218		
29	W	5.9	NNW	7.1	NNW	6.5	NNE	2.6	NNE	0.9	—	0.2	3.9	3.5	0.7	128		
30	—	0.2	—	0.0	—	0.2	NNW	3.8	NW	1.7	WNW	0.4	1.1	1.4	2.7	208		
Mean		1.7		2.3		2.8		3.1		2.3		2.0	2.4	2.4	108.8	6621		

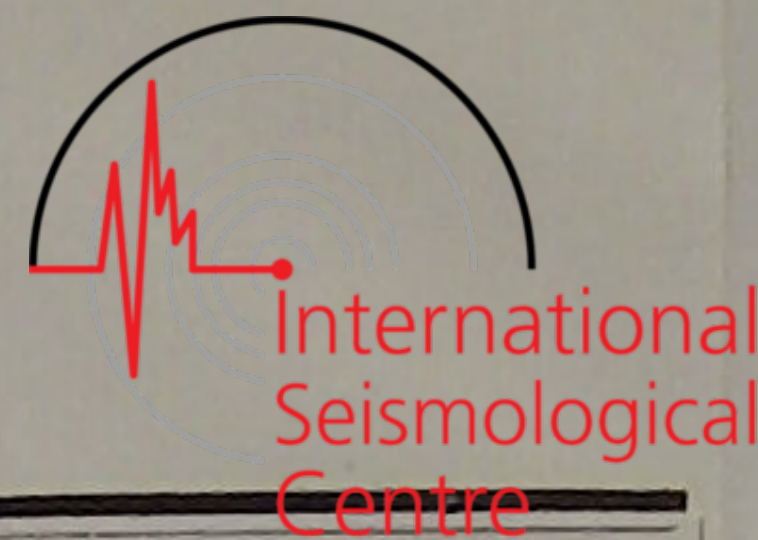
NOVEMBER, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)					RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)										
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	17.3	3.1	8.6	8.0	9.3	7.1	6.3	6.8	7.7	94	98	59	38	56	78	71	3	10	0	0	0	0	2.2
2	15.7	0.8	6.3	6.3	7.2	6.2	8.3	8.8	7.2	60	95	51	36	70	87	67	1	0	7	10	7	10	5.8
3	12.9	6.3	9.1	8.9	9.6	11.5	12.2	12.6	10.7	92	90	92	92	92	93	92	10	10	10	10	10	10	10.0
4	17.1	9.0	10.9	9.5	9.8	8.5	9.3	9.7	9.6	76	73	63	46	73	82	69	9	0	9	0	10	10	6.3
5	13.4	0.8	9.1	9.1	9.4	8.7	7.1	6.5	8.3	87	88	71	58	78	92	79	10	10	3	4	0	0	4.5
6	15.0	-1.3	6.1	5.5	7.1	6.9	8.5	6.9	6.8	100	99	68	43	81	94	81	0	0	1	3	3	0	1.2
7	15.8	-0.7	6.3	6.0	8.2	11.1	10.2	8.5	8.4	97	100	77	63	82	88	85	0	7	9	10	0	0	4.3
8	15.8	2.5	9.1	7.2	9.0	8.6	9.5	9.6	8.8	94	97	70	49	74	88	79	0	10	3	10	10	10	7.2
9	12.7	5.1	9.7	10.1	11.5	8.5	8.6	6.9	9.2	85	87	86	64	75	72	78	5	10	10	10	10	9	9.0
10	13.1	1.7	6.6	5.7	7.0	7.5	9.1	9.3	7.5	77	78	61	56	88	93	76	1	9	2	10	3	10	5.8
11	8.2	3.8	8.8	7.2	8.4	8.3	7.8	6.7	7.9	92	85	83	77	93	71	84	10	9	10	10	3	3	7.5
12	10.8	0.3	5.6	6.6	6.7	7.4	7.2	6.5	6.7	68	92	64	61	76	78	73	0	10	7	10	9	10	7.7
13	5.8	0.6	4.8	6.1	5.0	4.7	5.5	5.6	5.3	67	95	58	53	77	75	71	0	10	1	1	1	0	2.2
14	11.5	-1.7	5.2	5.2	6.9	6.4	6.1	5.2	5.8	84	90	59	49	73	88	74	0	0	1	2	0	0	0.5
15	14.4	-4.1	4.7	4.5	6.4	6.9	7.4	6.7	6.1	92	97	75	46	78	93	80	0	10	1	3	0	1	2.5
16	13.6	-0.7	6.6	6.0	8.8	10.6	9.3	7.0	8.1	97	98	68	70	89	94	86	9	1	2	10	0	1	3.8
17	11.2	0.6	6.4	6.7	8.6	10.3	10.3	10.1	8.7	98	98	89	79	90	94	91	10	10	10	10	10	10	10.0
18	10.1	7.7	10.2	10.5	10.7	11.9	11.6	10.8	11.0	98	99	98	99	95	94	97	10	10	10	10	10	10	10.0
19	9.9	1.9	10.2	7.2	6.6	6.3	6.0	5.9	7.0	91	70	60	56	62	73	69	10	10	7	10	10	4	8.5
20	9.7	-1.9	5.6	5.0	6.5	7.4	7.2	7.3	6.5	89	91	72	64	77	88	80	0	1	5	10	10	10	6.0
21	10.7	0.5	6.8	6.7	7.3	7.8	8.6	9.2	7.7	92	95	80	61	75	81	81	7	10	10	10	10	10	9.5
22	14.6	7.9	10.2	12.2	14.6	16.0	14.4	9.8	12.9	96	98	95	97	96	85	95	10	10	10	10	10	1	8.5
23	10.8	2.3	9.0	7.6	8.1	7.6	6.7	6.9	7.7	84	78	71	68	77	89	78	3	3	7	3	9	9	5.7
24	5.2	1.6	7.0	6.1	5.4	6.1	5.5	5.5	5.9	92	87	61	92	79	74	81	9	10	3	10	10	10	8.7
25	7.4	1.9	5.8	5.7	8.5	6.8	5.9	6.3	6.5	68	69	90	71	68	83	75	3	2	10	10	10	10	7.5
26	8.8	0.3	6.1	5.6	6.0	6.5	6.0	6.9	6.2	93	85	75	69	63	67	75	10	10	10	8	8	10	9.3
27	16.6	7.1	7.6	7.7	9.7	9.6	9.2	9.2	8.8	72	67	54	52	72	73	65	10	9	6	10	10	10	9.2
28	18.7	10.5	9.4	9.5	10.0	10.4	11.9	10.3	10.3	73	66	62	51	77	71	67	10	8	9	10	9	9	9.2
29	11.9	6.0	8.7	8.2	8.0	9.1	9.8	9.1	8.8	60	65	62	74	89	94	74	10	8	10	10	10	10	9.7
30	9.9	-0.5	8.5	6.9	8.4	6.4	6.5	5.7	7.1	96	97	77	54	80	86	82	7	6	9	10	6	4	7.0
Mean	12.3	2.4	7.6	7.3	8.3	8.4	8.4	7.9	8.0	85	88	72	63	79	84	79	5.6	7.1	6.4	7.8	6.6	6.4	6.6

Day	PRECIPITATION (mm)					EARTH TEMPERATURE (°C)									REMARKS			
	22-2 ^h	2-6 ^h	6-10 ^h	10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm					Daily Mean					
								2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		10 cm	20 cm	30 cm
1	—	—	—	—	—	—	—	10.2	8.8	12.1	17.0	13.4	10.4	12.0	12.3	13.2	13.9	☐ ¹ , ≡ ¹
2	—	—	—	—	—	—	—	8.8	7.4	10.4	14.9	12.8	10.8	10.9	11.4	12.5	13.5	☐ ⁰
3	—	—	1.0	4.7	0.6	0.4	6.7	10.2	9.8	10.2	10.7	11.0	11.2	10.5	11.2	12.2	13.2	● ⁰
4	0.1	—	—	—	—	0.0	0.1	10.9	10.1	11.6	15.6	13.2	11.8	12.2	12.1	12.5	13.1	● ⁰
5	0.1	0.3	—	—	—	—	0.4	10.9	10.4	11.8	15.6	12.2	9.1	11.7	12.0	12.7	13.2	☐ ¹ , ☐ ⁰ , ● ⁰
6	—	—	—	—	—	—	—	7.3	6.1	9.0	14.7	11.6	8.7	9.6	10.3	11.6	12.7	☐ ² , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
7	—	—	—	—	—	—	—	6.9	5.7	8.0	12.8	10.8	9.3	8.9	9.6	10.9	12.0	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
8	—	—	—	—	—	—	—	8.6	7.3	10.0	14.1	12.0	10.3	10.4	10.5	11.2	11.9	☐ ⁰ , ≡ ² , ● ⁰
9	—	0.1	0.4	0.0	0.0	0.0	0.5	9.5	9.2	10.1	11.4	10.5	9.5	10.0	10.6	11.4	12.1	☐ ⁰ , ☐ ⁰ , ● ⁰
10	—	—	—	—	1.0	0.0	1.0	8.0	6.8	9.0	12.9	10.9	9.6	9.5	10.1	11.0	11.8	● ⁰
11	0.0	0.0	—	0.4	0.0	—	0.4	9.1	8.3	8.8	10.3	9.2	7.8	8.9	9.8	10.9	11.7	● ⁰
12	—	—	0.0	0.0	0.0	0.0	0.0	6.9	6.0	8.0	11.6	9.3	7.5	8.2	9.0	10.2	11.3	☐ ⁰
13	0.1	0.8	0.4	—	—	—	1.3	6.4	5.3	7.5	11.0	8.0	6.0	7.4	8.3	9.7	10.9	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
14	—	—	—	—	—	—	—	5.0	4.0	6.8	11.5	8.8	6.0	7.0	7.6	9.0	10.3	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
15	—	—	—	—	—	—	—	4.3	3.4	5.2	11.3	9.3	6.8	6.7	7.2	8.5	9.9	☐ ¹ , ☐ ² , ≡ ²
16	—	—	—	—	—	—	—	5.7	4.8	7.3	10.8	9.1	6.9	7.4	7.8	8.8	9.8	☐ ⁰ , ☐ ⁰ , ≡ ⁰ , ≡ ²
17	—	—	—	—	—	—	—	5.7	5.6	7.3	9.8	9.3	8.8	7.8	8.0	9.0	9.8	☐ ¹ , ≡ ¹ , ● ⁰ , ≡ ²
18	0.4	8.7	12.9	8.8	15.0	1.3	47.1	8.6	8.5	8.8	9.4	9.6	9.3	9.0	9.2	9.4	10.0	● ¹
19	2.4	0.2	0.0	—	0.1	—	2.7	9.1	8.5	9.3	11.0	9.3	7.9	9.2	9.2	9.8	10.1	● ⁰ , ☐ ⁰
20	—	—	—	—	—	—	—	5.9	4.5	6.5	10.4	8.9	7.6	7.3	7.9	9.0	9.9	☐ ⁰ , ☐ ⁰
21	—	—	—	—	—	—	—	6.4	5.2	6.5	9.0	8.5	8.3	7.3	7.8	8.7	9.7	—
22	0.7	2.7	12.1	19.9	1.4	0.0	36.8	8.4	8.6	10.5	13.1	12.2	10.3	10.5	10.7	10.2	10.1	● ¹
23	—	0.1	—	—	—	0.8	0.9	8.8	7.8	9.8	12.6	9.3	7.9	9.4	9.8	10.4	10.5	☐ ⁰ , ● ⁰
24	—	—	0.1	1.5	1.2	0.1	2.9	6.9	6.3	7.3	8.5	6.4	6.4	7.0	7.8	9.2	10.0	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
25	—	—	3.6	0.6	0.0	0.7	4.9	5.2	4.4	5.3	7.3	6.5	5.6	5.7	6.6	7.9	9.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
26	1.7	0.2	0.0	0.0	—	—	1.9	4.8	4.2	5.0	7.3	6.2	5.8	5.6	6.3	7.5	8.8	● ⁰ , ☐ ⁰ , ☐ ⁰
27	—	—	—	—	—	—	—	6.1	6.4	9.2	11.5	9.9	8.8	8.7	8.2	8.3	8.9	—
28	—	—	—	—	—	0.0	0.0	8.8	9.0	9.7	13.6	11.8	10.9	10.6	10.0	9.7	9.7	☐ ⁰
29	—	—	0.0	0.0	0.5	1.8	2.3	9.5	9.1	9.0	10.3	9.8	8.7	9.4	9.8	10.1	10.2	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
30	0.2	—	—	—	—	—	0.2	8.0	6.5	8.0	10.3	8.3	5.8	7.8	8.6	9.4	10.0	☐ ⁰ , ☐ ⁰ , ≡ ⁰ , ☐ ⁰
Mean	5.7	13.1	30.5	35.9	19.8	5.1	110.1	7.7	6.9	8.6	11.7	9.9	8.5	8.9	9.3	10.2	10.9	

DECEMBER, 1961.



Day	STATION PRESSURE (1000mb+)							M.S.L. PRESSURE (1000mb+)							AIR TEMPERATURE °C						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	14.4	13.9	13.1	9.4	9.5	8.4	11.5	22.5	21.9	21.1	17.2	17.3	16.3	19.4	-1.0	-0.6	3.3	7.9	7.0	5.6	3.7
2	7.0	7.5	8.2	6.7	10.2	12.9	8.8	14.9	15.5	16.0	14.4	18.0	20.8	16.6	4.3	0.4	5.7	12.2	7.4	5.0	5.8
3	12.9	14.1	15.4	14.5	16.2	16.7	15.0	20.9	22.0	23.4	22.3	24.2	24.7	22.9	2.1	3.0	5.8	6.3	3.0	2.0	3.7
4	16.0	15.7	15.5	13.4	15.0	15.9	15.3	24.1	23.8	23.5	21.2	23.0	24.0	23.3	0.3	-0.4	2.1	4.1	2.1	-2.6	0.9
5	16.4	16.9	16.6	13.0	12.7	10.6	14.4	24.7	25.1	24.7	20.9	20.7	18.6	22.5	-4.2	-3.8	0.3	6.3	2.1	2.3	0.5
6	7.8	6.5	6.7	4.3	5.6	3.9	5.8	15.8	14.5	14.6	12.1	13.4	11.8	13.7	0.7	0.1	6.1	8.5	5.6	4.1	4.2
7	1.1	999.4	0.3	2.4	6.5	9.3	3.2	8.9	7.3	8.1	10.3	14.5	17.2	11.1	3.6	1.9	2.8	3.7	2.9	1.6	2.8
8	10.4	10.5	10.6	5.8	4.1	2.7	7.4	18.3	18.5	18.4	13.7	12.0	10.6	15.3	1.2	-0.3	4.6	6.2	3.5	2.7	3.0
9	1.6	4.9	11.6	12.6	14.6	15.6	10.2	9.5	12.9	19.5	20.4	22.6	23.7	18.1	1.5	0.8	5.4	6.6	1.8	1.4	2.9
10	15.1	14.4	14.1	10.8	11.9	12.1	13.1	23.1	22.4	22.0	18.6	19.9	20.2	21.0	0.8	-0.3	3.8	9.3	5.8	1.3	3.5
11	12.3	12.7	13.0	10.1	12.0	13.1	12.2	20.4	20.8	21.0	17.7	19.8	21.0	20.1	0.0	-1.2	2.6	12.0	9.3	7.5	5.0
12	14.4	15.5	15.5	13.2	13.9	12.6	14.2	22.2	23.5	23.4	20.9	21.7	20.6	22.1	5.3	3.7	6.5	12.4	5.7	1.8	5.9
13	11.0	8.5	6.2	0.5	0.5	0.7	4.6	19.0	16.5	14.1	8.1	8.3	8.4	12.4	1.2	0.6	4.3	11.1	8.2	7.6	5.5
14	2.3	4.0	6.4	5.7	6.6	7.7	5.5	10.3	12.0	14.4	13.7	14.7	15.8	13.5	1.6	-0.7	-0.3	0.3	-2.2	-2.8	-0.7
15	8.3	10.3	12.1	11.1	13.9	13.8	11.6	16.4	18.4	20.2	19.1	21.9	22.0	19.7	-3.3	-3.6	-1.8	0.6	-1.1	-4.5	-2.3
16	12.7	12.4	14.6	13.7	17.1	17.6	14.7	20.9	20.7	22.6	21.6	25.1	25.8	22.8	-5.1	-4.4	1.1	5.1	3.6	-0.3	0.0
17	18.7	18.4	18.5	13.4	12.0	7.7	14.8	27.0	26.6	26.6	21.3	20.2	15.8	22.9	-4.4	-3.0	-0.8	0.0	-1.6	-1.2	-1.8
18	3.3	0.3	1.8	1.8	5.6	6.0	3.1	11.3	8.3	9.7	9.7	13.6	14.1	11.1	-1.4	-1.0	1.7	2.9	1.2	-1.0	0.4
19	5.3	4.6	3.2	998.4	997.8	998.2	1.3	13.3	12.6	11.2	6.2	5.7	6.0	9.2	-1.0	-0.8	0.2	4.5	1.5	3.3	1.3
20	998.8	998.7	0.3	999.2	0.4	0.3	999.6	6.7	6.6	8.2	7.1	8.4	8.3	7.6	2.6	0.9	1.8	2.6	0.0	-0.6	1.2
21	998.3	995.4	995.8	995.4	998.1	998.6	996.9	6.3	3.4	3.7	3.3	6.1	6.6	4.9	-1.2	0.4	3.2	1.9	-0.6	-1.8	0.3
22	998.7	999.3	0.5	998.9	999.9	0.8	999.7	6.7	7.3	8.5	6.9	7.9	8.9	7.7	-2.2	-2.4	-1.4	0.2	-1.3	-2.0	-1.5
23	1.7	3.6	6.2	6.2	8.3	8.7	5.8	9.8	11.7	14.2	14.2	16.3	16.8	13.8	-2.2	-2.5	0.2	0.0	-0.3	0.6	-0.7
24	8.8	8.7	8.4	3.8	2.4	1.8	5.7	16.8	17.0	16.6	11.8	10.5	9.8	13.8	1.0	-8.8	-3.9	0.3	-0.9	0.5	-2.0
25	1.7	998.7	996.6	994.1	999.8	999.9	998.5	9.7	6.7	4.6	2.1	7.9	8.0	6.5	-0.4	-2.1	-0.3	0.3	-5.3	-7.6	-2.6
26	0.7	1.9	2.6	0.7	0.4	999.3	0.9	9.0	10.3	10.7	8.6	8.4	7.3	9.1	-9.2	-13.0	-4.3	2.3	-0.1	-2.2	-4.4
27	999.9	999.5	999.5	997.4	998.3	998.7	998.9	8.1	7.8	7.7	5.3	6.3	6.9	7.0	-6.8	-8.2	-5.3	3.4	-1.6	-6.0	-4.1
28	998.1	997.8	998.6	997.3	999.3	999.9	998.5	6.4	6.0	6.5	5.1	7.1	7.9	6.5	-9.0	-6.4	1.6	3.7	1.8	-1.6	-1.7
29	999.7	0.4	2.5	1.8	5.0	6.6	2.7	7.8	8.6	10.5	9.8	13.1	14.7	10.8	-3.9	-4.0	0.7	0.6	-1.2	-5.6	-2.2
30	7.7	8.5	9.3	6.6	8.0	9.2	8.2	15.9	16.8	17.5	14.7	16.1	17.3	16.4	-8.5	-9.9	-6.2	-1.2	-2.2	-2.8	-5.1
31	10.1	11.8	13.8	12.0	14.6	15.3	12.9	18.3	20.1	21.8	20.0	22.7	23.6	21.1	-7.7	-8.7	-1.1	3.6	-2.8	-8.0	-4.1
Mean	6.9	6.9	7.7	5.6	7.1	7.2	6.9	15.0	15.0	15.6	13.5	15.1	15.3	14.9	-1.5	-2.4	1.2	4.4	1.7	-0.1	0.6

Day	DIRECTION AND VELOCITY (m.p.s.) OF THE WIND													Duration of Sunshine in hours	Total Solar and Sky Radiation (Cal/cm ²)	Amounts of Evaporation (mm)		
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean		Ordinary	Large-sized								
							6 obs.	24 ^h										
1	NW	0.7	N	1.1	W	0.9	NE	0.4	—	0.0	—	0.2	0.6	0.4	1.7	155		
2	NNW	0.9	NNW	0.7	—	0.0	—	0.2	NW	2.8	NW	4.4	1.5	1.8	7.6	264		
3	—	0.0	WNW	3.4	WNW	5.9	WNW	5.5	NNW	3.6	NNE	3.0	3.6	3.7	6.5	273		
4	NNW	2.6	—	0.2	NNW	3.4	NNW	1.3	N	1.5	—	0.0	1.5	2.0	—	109		
5	—	0.0	NW	1.1	N	1.1	SE	1.7	SE	1.1	S	2.6	1.3	1.6	7.3	289		
6	S	1.3	NW	0.7	NNW	2.8	NNW	2.8	NE	2.2	WNW	1.5	1.9	2.3	3.3	227		
7	NNW	1.5	NNW	6.5	N	6.1	NNW	5.9	NW	5.9	NW	5.4	5.2	4.2	0.6	67		
8	NNW	5.5	NNE	1.3	SSE	1.1	SSE	4.2	S	4.8	SSW	0.9	3.0	3.0	5.4	269		
9	SSE	5.7	NNW	4.8	N	4.0	NW	5.2	NW	1.7	SE	0.4	3.6	3.4	7.2	302		
10	—	0.2	—	0.2	WNW	0.7	SE	5.2	S	2.6	WNW	1.1	1.7	1.5	6.3	254		
11	W	1.3	—	0.2	NW	0.4	S	3.2	SSE	0.9	ENE	1.1	1.2	1.1	5.1	237		
12	WNW	1.3	SSW	0.4	NNW	0.4	NNW	0.4	—	0.0	—	0.0	0.4	0.6	4.1	207		
13	—	0.0	—	0.0	W	0.9	SSE	4.2	S	1.7	SW	2.2	1.5	2.0	0.6	134		
14	WNW	5.9	NW	7.6	NW	3.6	W	5.7	WNW	2.0	SW	1.1	4.3	4.2	5.2	236		
15	SSE	1.1	NE	1.3	NE	0.9	WNW	10.5	ESE	2.2	SSE	1.3	2.9	3.0	4.5	224		
16	—	0.0	—	0.0	W	0.4	NNW	5.9	NE	2.6	NW	1.5	1.7	1.9	4.1	213		
17	WNW	1.3	NW	1.5	NW	1.1	—	0.0	WNW	0.7	—	0.0	0.8	0.9	—	92		
18	—	0.0	—	0.0	NNW	1.3	NNW	0.9	W	0.9	—	0.0	0.5	0.8	—	123		
19	SE	0.4	—	0.0	WNW	0.7	S	5.0	—	0.0	NNW	6.3	2.1	2.0	0.7	153		
20	WNW	4.6	W	12.4	N	2.2	NNW	3.2	NNW	0.4	E	1.7	4.1	4.5	0.4	129		
21	SSE	2.4	SE	1.1	ENE	2.2	NW	8.0	NE	0.7	ENE	0.9	2.6	2.3	3.4	182		
22	WSW	2.2	W	3.4	—	0.0	NNE	2.2	NE	1.5	N	2.2	1.9	2.1	1.9	168		
23	WSW	2.8	—	0.0	W	2.2	WNW	2.0	WNW	3.0	W	1.3	1.9	2.0	0.9	209		
24	N	3.0	W	1.5	WNW	1.5	—	0.2	SW	0.9	NNE	0.4	1.3	1.1	6.3	292		
25	W	2.4	SE	2.8	SSE	5.5	N	0.4	NNE	1.3	NW	1.1	2.3	2.4	0.9	100		
26	NNW	1.7	—	0.0	—	0.2	W	5.7	NNW	2.6	SW	0.9	1.9	0.7	5.8	290		
27	ESE	0.4	—	0.0	—	0.2	WNW	1.7	ENE	1.3	—	0.2	0.6	1.1	5.5	272		
28	NNE	1.3	ESE	1.1	N	1.5	NNW	4.2	N	1.5	WNW	0.7	1.7	1.5	4.5	263		
29	WSW	0.4	SSW	0.4	N	1.1	NW	4.2	NNW	2.6	W	0.7	1.6	1.2	0.4	188		
30	WNW	0.9	N	0.7	NNW	0.7	NW	1.1	ESE	0.9	—	0.0	0.7	1.0	3.6	229		
31	NW	2.0	NW	1.7	NNW	1.1	NNW	3.6	WNW	2.2	—	0.0	1.8	1.8	8.4	313		
Mean		1.7		1.8		1.7		3.4		1.8		1.4	2.0	2.0	112.2	6463		

DECEMBER, 1961.



Day	AIR TEMPERATURE		VAPOUR PRESSURE (mb)							RELATIVE HUMIDITY (%)					AMOUNT OF CLOUD (0-10)								
	Max.	Min.	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	25 ^h	Mean	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean
1	8.0	-1.3	5.4	5.5	6.1	7.8	9.1	8.3	7.0	95	94	78	73	91	92	87	10	10	8	10	10	10	9.7
2	12.7	0.0	7.7	6.1	7.2	7.9	7.1	5.6	6.9	93	97	79	56	69	65	77	8	8	2	0	9	10	6.2
3	7.0	0.8	4.5	5.3	4.7	4.9	4.4	4.2	4.7	63	70	51	52	58	60	59	9	10	7	3	8	10	7.8
4	4.3	-3.5	4.6	4.7	4.4	4.5	4.3	4.3	4.5	74	80	61	55	60	86	69	10	10	10	10	10	10	10.0
5	7.1	-4.9	4.0	4.2	4.4	4.8	5.3	5.8	4.8	89	90	70	50	74	81	76	2	0	1	10	10	10	5.5
6	9.8	-1.9	5.3	5.5	6.4	6.6	6.7	6.7	6.2	83	89	68	60	74	82	76	0	7	0	6	10	10	5.5
7	4.5	1.1	6.6	6.8	6.1	5.7	4.9	4.5	5.8	83	97	81	71	64	65	77	10	10	10	10	8	10	9.7
8	7.5	-1.2	4.4	4.9	4.6	5.9	7.1	7.1	5.7	66	82	54	63	91	95	75	7	3	0	10	10	10	6.7
9	7.7	0.2	6.5	6.0	5.7	5.6	5.5	5.8	5.9	95	93	64	58	79	86	79	10	1	2	2	0	10	4.2
10	10.1	-0.5	6.0	5.7	6.1	6.7	6.4	6.3	6.2	93	96	76	58	70	93	81	10	10	9	7	10	1	7.8
11	12.3	-2.1	5.9	5.4	6.5	8.5	8.7	8.9	7.3	96	97	89	60	76	86	84	0	0	0	7	10	9	4.3
12	12.8	0.8	8.3	7.6	8.8	9.5	8.3	6.7	8.2	93	95	90	66	90	97	89	10	10	4	2	0	4	5.0
13	11.6	0.1	6.4	6.4	7.9	9.0	9.2	7.4	7.7	97	100	96	68	85	71	86	0	10	10	10	9	0	6.5
14	1.6	-3.1	4.8	4.2	4.6	4.2	3.9	4.4	4.4	70	73	77	67	75	88	75	0	5	10	3	10	10	6.3
15	1.8	-6.0	4.6	4.4	4.8	5.6	3.8	3.6	4.5	97	94	89	88	68	83	87	10	10	10	3	3	8	7.3
16	5.4	-7.3	3.7	4.0	5.2	5.2	5.2	4.6	4.7	89	91	78	59	65	77	77	4	10	3	2	0	0	3.2
17	0.3	-4.9	3.9	3.8	4.1	4.2	5.1	5.3	4.4	89	77	70	69	95	95	83	0	8	10	10	10	10	8.0
18	3.0	-1.4	5.2	5.5	6.4	6.7	6.3	5.6	6.0	95	97	93	89	95	99	95	10	10	10	10	10	10	10.0
19	4.5	-1.4	5.6	5.7	6.0	6.7	6.7	6.0	6.1	99	99	96	80	98	77	92	10	10	10	10	10	10	10.0
20	3.1	-1.5	4.8	4.2	4.0	4.2	4.3	4.3	4.3	65	65	58	57	71	73	65	0	3	8	8	8	9	6.0
21	4.4	-2.1	4.8	5.4	6.0	4.4	5.4	5.2	5.2	86	86	78	63	92	96	84	10	10	3	2	10	10	7.5
22	0.6	-3.5	5.0	4.9	5.0	5.4	4.8	5.0	5.0	96	96	91	88	86	94	92	10	10	10	8	10	10	9.7
23	2.1	-3.2	5.0	4.9	5.1	5.3	4.8	4.6	5.0	96	96	82	86	80	72	85	10	10	8	10	8	9	9.2
24	2.0	-10.4	3.8	2.9	3.6	3.9	5.2	5.8	4.2	58	92	78	63	90	91	79	5	0	0	6	10	10	5.2
25	1.8	-8.0	4.4	5.0	5.6	5.8	3.3	2.9	4.5	74	96	94	93	80	83	87	7	9	10	10	0	2	6.3
26	5.4	-13.5	2.6	2.0	4.0	5.4	5.8	4.9	4.1	86	88	89	74	96	94	88	2	1	0	10	6	6	4.2
27	4.1	-9.8	3.4	3.0	3.8	4.8	4.4	3.7	3.9	94	92	93	61	82	94	86	10	10	7	4	0	3	5.7
28	4.5	-9.3	2.8	3.6	4.8	5.5	5.8	4.9	4.6	92	94	70	69	84	91	83	2	5	8	9	10	10	7.3
29	1.8	-8.5	4.4	4.4	5.3	5.3	4.8	3.6	4.6	96	96	83	83	86	90	89	4	10	10	10	0	0	5.7
30	-0.8	-11.5	3.0	2.6	3.1	3.9	4.8	4.6	3.7	92	91	80	70	92	93	86	0	6	3	10	10	10	6.5
31	3.9	-9.7	2.9	2.9	4.4	4.8	3.7	3.0	3.6	85	92	79	61	74	90	80	0	0	0	0	0	0	0.0
Mean	5.3	-4.1	4.8	4.8	5.3	5.8	5.6	5.3	5.3	86	90	79	68	80	85	82	5.8	7.0	5.9	6.8	7.1	7.5	6.7

Day	PRECIPITATION (mm)							EARTH TEMPERATURE (°C)							REMARKS			
	22-2 ^h 2-6 ^h 6-10 ^h			10-14 ^h	14-18 ^h	18-22 ^h	Total	5 cm				Daily Mean						
	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	2 ^h	6 ^h	10 ^h	14 ^h	18 ^h	22 ^h	Mean	10 cm		20 cm	30 cm	
1	—	—	—	—	—	—	—	4.1	3.8	5.3	8.0	7.7	7.2	6.0	6.8	8.1	9.3	☐ ¹ , ☐ ¹ , ☐ ⁰
2	—	—	—	—	—	—	—	6.3	4.8	6.1	11.2	9.2	7.2	7.5	7.5	8.2	9.0	☐ ¹ , ☐ ¹ , ☐ ⁰
3	—	—	—	—	—	—	—	5.6	4.9	6.3	9.6	6.9	5.3	6.4	6.9	8.0	8.9	—
4	—	—	—	—	—	—	—	4.1	3.7	4.6	5.5	5.1	3.3	4.4	5.5	7.1	8.3	☐ ⁰ , ☐ ⁰
5	—	—	—	—	—	—	—	2.3	1.8	1.6	6.6	4.8	3.8	3.5	4.3	6.1	7.6	☐ ² , ☐ ² , ☐ ⁰
6	—	—	—	—	—	—	—	2.8	2.5	4.4	8.4	6.1	5.4	4.9	5.1	6.2	7.4	☐ ⁰ , ☐ ⁰
7	0.0	4.1	1.3	—	—	0.0	5.4	5.0	4.7	4.5	5.1	4.3	3.5	4.5	5.2	6.5	7.5	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
8	0.0	—	—	—	1.8	6.0	7.8	2.9	2.4	3.5	7.8	6.0	4.3	4.5	4.8	6.0	7.2	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
9	4.2	1.1	—	—	—	—	5.3	3.5	2.6	3.8	8.8	5.6	3.8	4.7	4.6	5.5	6.9	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
10	—	—	—	—	—	—	—	3.5	3.3	4.6	8.6	6.7	4.8	5.3	5.2	6.0	6.9	☐ ⁰ , ☐ ⁰
11	0.0	—	—	—	—	—	0.0	3.7	2.6	2.9	8.6	7.6	6.7	5.4	5.4	6.2	7.0	☐ ² , ☐ ¹ , ☐ ⁰
12	—	0.0	0.2	—	—	—	0.2	5.8	4.8	5.5	9.8	7.8	5.1	6.5	6.6	7.0	7.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
13	—	—	—	—	0.2	—	0.2	4.2	3.6	4.7	7.7	7.2	6.0	5.6	5.9	6.7	7.3	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
14	—	—	0.0	0.0	—	0.4	0.4	4.3	3.0	3.1	6.7	4.3	3.2	4.1	5.0	6.3	7.2	☐ ¹ , ☐ ¹ , ☐ ⁰ , ☐ ⁰
15	5.5	2.4	0.9	0.1	—	—	8.9	3.0	3.0	3.0	3.7	2.6	1.9	2.9	3.8	5.3	6.6	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
16	—	0.0	0.8	—	—	—	0.8	1.6	1.4	1.4	4.1	3.0	2.0	2.3	3.0	4.6	6.1	☐ ⁰ , ☐ ¹ , ☐ ⁰
17	—	—	—	—	2.1	6.4	8.5	1.5	1.3	1.0	1.0	1.2	1.2	1.2	2.2	3.9	5.6	☐ ⁰ , ☐ ¹ , ☐ ¹ , ☐ ⁰
18	8.8	4.1	1.2	0.4	0.2	0.0	14.7	1.3	1.5	1.7	1.9	1.9	1.9	1.7	2.4	3.7	5.4	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
19	—	0.0	0.2	—	1.3	0.0	1.5	1.9	1.9	2.1	2.7	2.4	2.0	2.2	2.5	3.6	5.2	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
20	—	—	—	—	—	—	—	1.7	1.3	1.3	2.6	2.1	1.5	1.8	2.3	3.3	4.9	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
21	—	—	0.3	—	0.2	1.0	1.5	1.3	1.2	1.3	3.8	2.3	1.9	2.0	2.3	3.4	4.9	☐ ⁰ , ☐ ¹ , ☐ ⁰ , ☐ ⁰
22	1.3	2.4	1.6	2.0	0.0	0.6	7.9	1.8	1.8	1.8	1.9	1.8	1.7	1.8	2.3	3.4	4.8	☐ ⁰ , ☐ ¹ , ☐ ⁰ , ☐ ⁰
23	3.4	3.4	0.7	0.2	0.0	0.0	7.7	1.7	1.7	1.8	2.8	2.0	1.6	1.9	2.4	3.4	4.8	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
24	—	—	—	—	0.0	1.6	1.6	1.3	1.1	0.9	2.8	1.9	1.6	1.6	2.0	3.2	4.7	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
25	0.1	1.1	2.3	6.4	0.1	—	10.0	1.4	1.1	1.1	1.3	1.4	1.3	1.3	1.9	3.1	4.5	☐ ¹ , ☐ ¹ , ☐ ¹ , ☐ ⁰
26	—	—	—	—	1.7	0.1	1.8	1.2	1.0	0.9	0.9	0.9	1.0	1.0	1.8	2.9	4.4	☐ ⁰ , ☐ ¹ , ☐ ⁰ , ☐ ⁰
27	—	—	—	—	—	—	—	1.0	0.9	0.8	0.9	1.0	0.8	0.9	1.6	2.8	4.3	☐ ⁰ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
28	—	—	—	—	—	—	—	0.8	0.5	0.6	0.6	0.6	0.6	0.6	1.3	2.6	4.1	☐ ² , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
29	—	—	—	—	0.3	—	0.3	0.6	0.7	0.6	0.9	0.8	0.8	0.7	1.3	2.5	4.0	☐ ¹ , ☐ ⁰ , ☐ ⁰ , ☐ ⁰
30	—	—	—	0.0	0.0	0.7	0.7	0.6	0.5	0.4	0.4	0.6	0.4	0.5	1.1	2.3	3.9	☐ ⁰ , ☐ ¹ , ☐ ⁰ , ☐ ⁰
31	0.1	—	—	—	—	—	0.1	0.4	0.4	0.5	0.5	0.5	0.5	0.5	1.0	2.2	3.7	☐ ⁰ , ☐ ² , ☐ ⁰ , ☐ ⁰
Mean	23.4	18.6	9.5	9.1	7.9	16.8	85.3	2.6	2.3	2.6	4.7	3.8	3.0	3.2	3.7	4.8</		

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Month	AIR PRESSURE (STATION) 1000 mb+							AIR PRESSURE (Mean Sea Level) 1000 mb+						
	2	6	10	14	18	22	Mean	2	6	10	14	18	22	Mean
January	8.6	8.5	9.1	6.9	8.0	8.4	8.3	16.8	16.7	17.2	14.9	16.1	16.6	16.4
February	4.1	4.3	4.5	2.8	4.4	5.1	4.2	12.3	12.5	12.6	10.8	12.4	13.2	12.3
March	11.0	11.3	11.4	9.5	10.4	11.2	10.8	19.0	19.3	19.4	17.3	18.3	19.2	18.8
April	7.4	8.0	7.5	5.7	6.3	7.7	7.1	15.2	15.9	15.1	13.2	14.0	15.5	14.8
May	4.8	5.5	5.1	3.4	3.6	4.9	4.6	12.5	13.1	12.6	10.7	11.1	12.5	12.1
June	2.8	3.4	3.1	1.9	2.3	3.4	2.8	10.3	10.9	10.5	9.2	9.7	10.9	10.2
July	1.6	2.1	2.0	0.7	1.0	2.2	1.6	9.0	9.5	9.2	7.9	8.2	9.5	8.9
August	3.1	3.9	3.9	2.3	2.8	4.0	3.3	10.5	11.2	11.1	9.5	10.1	11.4	10.6
September	7.3	7.8	7.8	6.1	6.4	7.0	7.1	14.8	15.2	15.2	13.4	13.8	14.5	14.5
October	11.1	11.5	11.7	9.6	11.1	12.1	11.2	18.8	19.1	19.3	17.2	18.8	19.8	18.8
November	12.8	13.0	13.4	11.3	12.5	13.0	12.7	20.7	20.9	21.2	19.0	20.4	20.9	20.5
December	6.9	6.9	7.7	5.6	7.1	7.2	6.9	15.0	15.0	15.6	13.5	15.1	15.3	14.9
Annual	6.8	7.2	7.3	5.5	6.3	7.2	6.7	14.6	14.9	14.9	13.1	14.0	14.9	14.4

Month	AIR TEMPERATURE °C										VAPOUR PRESSURE mb										
	2	6	10	14	18	22	Mean	Mean			Absolute			2	6	10	14	18	22	Mean	
								Max.	Min.	Range	Max.	Date	Min.								Date
January	-5.2	-6.1	-3.0	-0.6	-2.8	-4.0	-3.6	0.7	-8.6	9.3	4.2	25,26	-15.8	19	3.8	3.5	4.1	4.4	4.2	4.0	4.0
February	-4.1	-5.2	-0.9	1.2	-1.4	-3.1	-2.3	2.7	-7.2	9.9	10.2	21	-14.7	17	3.8	3.6	4.2	4.5	4.4	4.0	4.1
March	-0.4	-0.9	4.3	6.6	3.4	0.9	2.3	7.6	-2.4	10.0	15.6	31	-7.0	7	4.8	4.8	5.2	5.1	5.3	5.1	5.0
April	6.0	6.0	12.6	15.2	11.1	7.8	9.8	16.5	3.2	13.3	25.0	21	-3.9	3	8.0	8.0	9.0	8.7	8.6	8.4	8.4
May	11.8	12.3	18.0	20.7	17.3	13.5	15.6	21.8	9.3	12.5	30.6	28	2.2	14	12.3	12.4	13.1	13.4	13.4	13.1	13.0
June	15.8	16.5	20.8	22.9	20.4	17.6	19.0	23.9	14.7	9.2	28.2	28	9.5	2	16.7	17.1	17.9	18.4	17.8	17.4	17.6
July	21.0	21.3	25.3	27.1	25.0	22.3	23.7	28.2	20.2	8.0	33.5	30	15.5	19	23.7	24.0	25.8	26.9	26.0	24.8	25.2
August	21.0	21.0	25.5	27.7	24.1	21.7	23.5	28.3	19.9	8.4	33.3	17	15.1	29	23.8	23.9	25.4	25.4	25.7	24.2	24.7
September	18.3	18.0	22.5	24.8	21.3	19.1	20.7	25.9	16.5	9.4	32.3	6	7.2	20	20.2	20.1	22.0	21.9	21.9	20.9	21.2
October	11.4	10.5	14.7	17.1	14.0	12.2	13.3	18.0	9.0	9.0	24.6	17	-0.9	26	12.5	12.1	13.2	13.5	13.3	12.7	12.9
November	5.2	4.1	9.0	11.3	7.7	5.8	7.2	12.3	2.4	9.9	18.7	28	-4.1	15	7.6	7.3	8.3	8.4	8.4	7.9	8.0
December	-1.5	-2.4	1.2	4.4	1.7	-0.1	0.6	5.3	-4.1	9.4	12.8	12	-13.5	26	4.8	4.8	5.3	5.8	5.6	5.3	5.3
Annual	8.3	7.9	12.5	14.9	11.8	9.5	10.8	15.9	6.1	9.8	33.5	VII, 30	-15.8	I, 19	11.8	11.8	12.8	13.0	12.9	12.3	12.4

Month	PRECIPITATION mm							RELATIVE HUMIDITY %										
	2	6	10	14	18	22	Sum	Maximum				2	6	10	14	18	22	Mean
								24 h	Date	4 h	Date							
January	8.0	15.4	15.8	21.2	18.5	11.0	89.9	16.2	26	7.1	26	88	88	81	75	82	86	83
February	14.1	22.8	23.4	24.4	13.2	7.6	105.5	26.0	14	9.2	14	82	84	73	68	80	80	78
March	1.6	2.6	12.0	4.2	3.3	2.4	26.1	6.6	9	4.2	9	81	82	64	54	68	77	71
April	5.9	25.1	22.4	23.7	8.8	3.3	89.2	45.4	27	18.2	27	83	83	61	51	63	76	70
May	4.4	6.4	7.9	3.6	5.3	6.4	34.0	9.9	19	6.1	19	87	86	64	56	68	83	74
June	20.1	17.4	25.3	35.3	45.8	16.7	160.6	70.4	27	26.4	27	91	89	73	67	74	86	80
July	45.9	53.1	21.0	52.3	20.3	8.1	200.7	83.7	17	31.6	17	95	94	80	75	82	92	86
August	21.1	18.6	16.4	20.2	26.3	30.6	133.2	40.3	27	24.2	27	95	96	78	69	85	92	86
September	16.3	25.7	32.9	38.5	5.1	5.1	123.6	30.6	26	21.6	26	94	95	79	69	85	93	86
October	16.4	19.9	35.8	30.3	22.1	8.0	132.5	35.2	5	16.0	5	89	91	77	68	81	86	82
November	5.7	13.1	30.5	35.9	19.8	5.1	110.1	47.1	18	19.9	22	85	88	72	63	79	84	79
December	23.4	18.6	9.5	9.1	7.9	16.8	85.3	14.7	18	8.8	18	86	90	79	68	80	85	82
Annual	182.9	238.7	252.9	298.7	196.4	121.1	1290.7	83.7	VII, 17	31.6	VII, 17	88	89	73	65	77	85	80

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NUMBER OF OBSERVATIONS OF THE WIND FROM

Dir.	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Calm
Month																	
January	17	8	4	6	7	4	4	4	3	2	—	2	19	26	12	27	41
February	12	7	4	4	3	2	5	7	11	—	2	6	28	25	14	20	18
March	21	10	6	3	11	2	3	16	9	1	4	6	13	13	20	26	22
April	8	1	5	4	3	2	10	25	20	6	6	7	21	17	17	12	16
May	8	3	3	4	4	1	13	31	23	7	4	14	16	9	16	12	18
June	12	2	4	1	3	1	6	34	41	7	3	6	9	7	6	15	23
July	6	5	2	4	4	6	11	43	27	5	4	5	7	8	5	5	39
August	3	—	—	—	—	—	19	43	37	8	2	6	2	2	8	12	44
September	5	4	2	—	5	6	11	29	18	6	3	1	6	5	15	17	47
October	14	3	5	2	6	5	5	11	12	7	1	1	10	18	13	35	38
November	13	3	4	2	7	3	4	13	10	3	3	5	11	14	26	24	35
December	13	6	7	4	1	4	7	9	7	3	4	3	14	21	21	28	34
Annual	132	52	46	34	54	36	98	265	218	55	36	62	156	165	173	233	375

MONTHLY MEAN VELOCITY (m.p.s.) OF THE WIND FROM

Dir.	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
Month																
January	3.8	1.9	2.1	2.0	1.2	1.7	1.7	3.7	1.3	1.0	—	3.5	6.3	4.2	2.1	4.5
February	3.8	1.9	1.7	4.5	0.8	1.7	1.8	3.4	3.4	—	0.6	1.7	4.8	4.8	4.3	5.2
March	2.9	2.0	1.8	1.5	2.0	1.1	1.6	3.8	3.7	3.2	2.9	4.6	3.7	3.0	3.6	4.6
April	2.9	2.0	1.3	1.6	2.2	2.1	2.9	5.2	4.7	3.5	6.6	3.6	7.2	5.8	4.2	3.5
May	2.7	4.5	2.9	3.0	1.4	0.4	2.1	4.9	3.8	2.0	1.7	5.7	3.9	5.1	4.2	2.3
June	2.9	2.5	1.0	3.0	1.5	1.5	1.9	4.6	3.8	1.7	1.6	3.2	2.9	2.5	4.0	3.7
July	2.0	1.7	1.0	1.0	1.1	1.5	2.6	4.0	6.2	1.9	1.3	2.0	3.6	2.0	3.9	3.5
August	1.1	—	—	—	—	—	2.5	3.3	3.0	2.2	1.2	1.2	3.7	0.7	1.6	2.2
September	1.3	0.7	0.6	—	1.3	1.5	3.6	5.1	4.1	2.6	3.2	0.7	2.1	2.8	1.6	2.6
October	3.0	1.0	1.7	1.7	1.4	3.4	2.5	3.1	2.7	1.8	1.5	1.1	1.4	3.4	2.8	3.4
November	2.5	1.4	2.4	3.6	1.7	1.4	2.0	3.4	3.2	1.7	2.6	4.3	3.4	2.9	2.4	3.8
December	2.0	1.6	1.4	1.4	1.7	1.2	1.8	2.9	3.0	0.6	1.3	1.8	2.8	2.7	2.9	2.8
Annual	2.8	1.9	1.7	2.1	1.5	1.7	2.4	4.2	3.5	2.1	2.6	3.5	4.4	3.8	3.1	3.6

DIRECTION AND INTENSITY (m.p.s.) OF THE RESULTANT WIND COMPUTED WITH THE VELOCITY

Dir.	2		6		10		14		18		22		General	
Month														
January	N 39° W	1.4	N 42° W	1.7	N 43° W	1.5	N 56° W	2.6	N 53° W	2.6	N 31° W	1.3	N 47° W	1.8
February	N 51° W	1.7	N 38° W	1.3	N 47° W	1.4	N 61° W	2.9	N 79° W	2.6	N 56° W	2.8	N 58° W	2.1
March	N 34° W	1.7	N 5° E	0.8	N 49° W	0.9	N 59° W	2.7	S 84° W	1.0	N 1° E	0.7	N 45° W	1.1
April	S 74° W	1.2	S 62° W	1.0	S 31° W	1.6	S 83° W	3.3	S 65° W	2.9	S 34° W	0.8	S 64° W	1.7
May	S 82° W	0.8	N 77° W	0.5	S 16° W	1.0	S 39° W	1.9	S 32° W	2.0	S 36° W	1.3	S 41° W	1.2
June	S 10° E	0.4	S 1° E	0.5	S 6° W	1.2	S 13° W	2.0	S 8° W	2.0	S 3° W	1.1	S 7° W	1.2
July	S 23° E	0.7	S 6° E	0.6	S 31° E	1.0	S 4° W	1.8	S 2° W	1.7	S 13° E	1.5	S 8° E	1.2
August	S 1° E	0.5	S 5° W	0.4	S 3° E	1.3	S 8° E	2.2	S 15° E	2.3	S 17° E	1.7	S 10° E	0.1
September	S 14° W	0.3	S 67° W	0.4	S 34° W	0.3	S 7° E	2.3	S 15° E	2.5	S 32° E	1.2	S 9° E	1.1
October	N 21° W	0.9	N 12° W	1.1	N 20° W	1.3	N 60° W	1.0	S 71° W	0.5	N 63° W	0.7	N 38° W	0.8
November	N 68° W	0.9	N 36° W	0.9	N 54° W	1.0	N 63° W	0.7	N 77° W	0.9	N 34° W	1.2	N 54° W	0.9
December	N 66° W	0.8	N 54° W	1.2	N 28° W	1.0	N 57° W	1.7	N 30° W	0.6	N 45° W	0.6	N 49° W	1.0
Annual	N 67° W	0.6	N 56° W	0.5	S 83° W	0.4	S 74° W	1.2	S 49° W	1.1	S 67° W	0.4	S 79° W	0.6

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NUMBER OF DAYS WITH PRECIPITATION (Separated by Amount)

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
<0.1mm	4	2	4	4	4	1	5	5	8	2	2	—	41
0.1—1	8	10	7	1	5	4	6	5	3	3	6	7	65
1—3	9	2	5	4	1	2	4	1	3	3	6	4	44
3—5	3	3	1	1	2	—	1	1	1	3	1	—	17
5—10	2	2	2	—	3	3	4	3	2	2	1	7	31
10—15	2	1	—	1	—	3	1	—	3	1	—	2	14
15—20	1	2	—	1	—	2	—	1	1	1	—	—	9
20—25	—	—	—	—	—	—	1	1	1	—	—	—	3
25—30	—	1	—	—	—	—	—	1	—	—	—	—	2
30—35	—	—	—	—	—	—	—	—	1	1	—	—	2
35—40	—	—	—	—	—	—	—	—	—	1	1	—	2
40—45	—	—	—	—	—	—	1	1	—	—	—	—	2
45—50	—	—	—	1	—	—	—	—	—	—	1	—	2
50—60	—	—	—	—	—	—	—	—	—	—	—	—	—
60—70	—	—	—	—	—	—	—	—	—	—	—	—	—
70—80	—	—	—	—	—	1	—	—	—	—	—	—	1
80—90	—	—	—	—	—	—	1	—	—	—	—	—	1
90—100	—	—	—	—	—	—	—	—	—	—	—	—	—
100—≤	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	29	23	19	13	15	16	24	19	23	17	18	20	236

EARTH TEMPERATURE °C

Month	5cm						Mean	Depth (m)								
	2	6	10	14	18	22		0.1	0.2	0.3	0.5	1.0	2.0	3.0	5.0	6.0
January	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.4	1.5	2.8	4.1	6.8	11.8	13.3	13.5	13.3
February	0.0	0.0	-0.1	0.0	0.1	0.1	0.0	0.1	1.0	2.0	3.0	5.3	10.1	12.2	13.2	13.2
March	3.0	2.4	3.4	7.3	6.5	4.3	4.5	3.8	4.0	4.3	4.2	5.0	8.9	11.2	12.6	12.9
April	9.1	8.1	10.1	13.9	13.5	10.9	11.0	10.6	9.9	9.5	8.5	7.9	8.5	10.5	12.1	12.5
May	15.5	14.4	16.6	20.0	19.3	17.1	17.2	16.8	15.9	15.1	13.6	11.8	9.9	10.4	11.7	12.2
June	18.9	18.1	20.9	23.8	22.8	20.4	20.8	20.3	19.5	18.6	17.0	15.1	11.6	11.0	11.5	11.9
July	23.9	23.3	25.5	28.3	27.3	25.3	25.6	24.8	23.9	22.9	21.6	18.8	13.5	11.9	11.6	11.8
August	24.7	24.0	26.2	29.4	27.9	25.7	26.3	25.9	25.3	24.7	23.7	21.1	15.4	13.1	12.0	11.9
September	22.0	21.4	22.9	25.3	24.4	22.8	23.1	23.0	22.9	22.7	22.6	21.3	16.8	14.4	12.6	12.3
October	14.4	13.6	15.4	18.2	16.6	15.0	15.6	15.8	16.5	17.0	17.7	18.4	17.0	15.1	13.2	12.7
November	7.7	6.9	8.6	11.7	9.9	8.5	8.9	9.3	10.2	10.9	12.1	14.0	15.8	15.1	13.6	13.1
December	2.6	2.3	2.6	4.7	3.8	3.0	3.2	3.7	4.8	6.1	7.3	10.1	13.9	14.4	13.8	13.4
Annual	11.8	11.2	12.7	15.2	14.4	12.8	13.0	12.9	13.0	13.0	13.0	13.0	12.8	12.7	12.6	12.6

TOTAL SOLAR AND SKY RADIATION ON THE HORIZONTAL SURFACE (gr. cal./cm². hour)

	4~5	5~6	6~7	7~8	8~9	9~10	10~11	11~12	12~13	13~14	14~15	15~16	16~17	17~18	18~19	19~20	Sum
January	—	—	0	71	380	814	1064	1155	1054	889	651	317	81	2	—	—	6478
February	—	—	14	220	646	1043	1282	1423	1429	1239	903	560	188	19	0	—	8966
March	—	3	165	590	1035	1402	1627	1848	1704	1673	1265	865	436	96	1	—	12710
April	—	65	382	768	1033	1372	1507	1609	1606	1480	1325	997	678	274	33	1	13130
May	24	247	630	977	1280	1519	1852	1880	1751	1656	1350	1020	682	331	60	0	15259
June	27	221	491	821	1076	1302	1464	1533	1607	1498	1325	1034	723	396	105	4	13627
July	8	133	397	746	1122	1377	1656	1841	1675	1588	1402	1034	738	408	98	5	14228
August	0	72	285	619	1043	1324	1714	1788	1868	1742	1349	832	546	254	48	1	13485
September	—	16	202	525	798	1109	1369	1452	1409	1208	941	695	349	90	5	—	10168
October	—	0	84	382	713	920	1132	1193	1103	930	721	365	95	3	—	—	7641
November	—	—	20	271	660	917	1111	1095	1065	740	518	190	34	0	—	—	6621
December	—	—	0	99	468	883	1104	1136	1160	882	517	187	27	0	—	—	6463
Annual	59	757	2670	6089	10254	13982	16882	17953	17431	15525	12267	8096	4577	1873	350	11	128776

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Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual						
MONTHLY TOTAL DURATION OF SUNSHINE (in hours)																		
78.7	114.9	181.1	185.1	183.5	165.7	140.5	139.5	111.2	102.2	108.8	112.2	1623.4						
RATE OF SUNSHINE (%)																		
26	38	49	47	42	37	31	33	30	30	36	38	37						
NUMBER OF DAYS WITH																		
Month	☉* ☼ 0.1≤	* 0.1≤	△ ☼	▲	☐	≡ 0-2	Clear	Cloudy	Sunless	☔	☐	Min. Temp. <0°	Mean Temp. <0°	Max. Temp. <0°	Min. Temp. ≥25°	Mean Temp. ≥25°	Max. Temp. ≥25°	Max. Temp. ≥30°
January	25	24	4	—	—	2	—	24	6	8	1	31	28	11	—	—	—	—
February	21	18	3	—	—	—	1	17	3	14	1	27	21	5	—	—	—	—
March	15	11	3	—	—	—	1	14	4	4	12	27	6	1	—	—	—	—
April	9	2	1	—	—	4	4	17	6	16	5	10	—	—	—	—	1	—
May	11	—	—	—	1	2	3	21	3	9	—	—	—	—	—	—	7	1
June	15	—	—	—	1	1	2	19	7	4	—	—	—	—	—	—	10	—
July	18	—	—	—	1	7	—	24	2	—	—	—	—	—	—	10	26	9
August	12	—	—	—	1	6	1	21	3	—	—	—	—	—	—	9	26	11
September	15	—	—	—	3	8	—	20	6	4	—	—	—	—	—	1	19	2
October	15	—	—	—	—	5	2	19	10	2	3	2	—	—	—	—	—	—
November	16	2	—	—	—	5	4	15	5	3	9	7	—	—	—	—	—	—
December	20	15	—	—	—	7	1	11	3	4	13	25	12	1	—	—	—	—
Annual	192	72	11	—	7	47	19	222	58	68	44	129	67	18	—	20	89	23



1961.

GENERAL REMARKS

	First Day (last year) 1960	Last Day (this year) 1961	First Day (this year) 1961
Min. Air Temp. below 0° :	Nov. 21	Apr. 26	Oct. 25
Mean Air Temp. below 0° :	Nov. 28	Mar. 27	Dec. 14
Max. Air Temp. below 0° :	Dec. 28	Mar. 8	Dec. 30
Max. Air Temp. above 25° :		Sep. 30	Apr. 21
Mean Air Temp. above 25° :		Sep. 5	Jul. 5
Max. Air Temp. above 30° :		Sep. 6	May. 28
Hoar Frost :	Oct. 19	Apr. 19	Oct. 25
Snow :	Nov. 27	Apr. 9	Nov. 13
Snow on Ground :	Nov. 27	Mar. 28	Nov. 13

Max. Continuance of Days with Min. Temp. below 0° is 45 Days : from Dec. 24 to Feb. 6
 Max. Continuance of Days with Mean Temp. below 0° is 15 Days : from Jan. 10 to Jan. 24
 Max. Continuance of Days with Max. Temp. above 30° is 9 Days : from Jul. 25 to Aug. 2
 Max. Continuance of Days with Precipitation is 12 Days : from Jan. 30 to Feb. 10
 Max. Continuance of Days without Precipitation is 10 Days : from Apr. 17 to Apr. 26

Continuance of more than 5 Days with Precipitation are :

10 Days : from Jan. 19	to Jan. 28	6 Days : from Aug. 24 to Aug. 29
12 Days : from Jan. 30	to Feb. 10	7 Days : from Oct. 1 to Oct. 7
8 Days : from Feb. 12	to Feb. 19	5 Days : from Nov. 22 to Nov. 26
5 Days : from Mar. 7	to Mar. 11	8 Days : from Dec. 12 to Dec. 19
5 Days : from Jun. 24	to Jun. 28	6 Days : from Dec. 21 to Dec. 26
5 Days : from Jul. 14	to Jul. 18	11 Days : from Dec. 29 to Jan. 8 (1962)

1961.

FIVE-DAYS MEANS

Month	Five-days Period	Air Pressure M.S.L. 1000 mb+	Air Temperature °C	Vapour Pressure mb	Relative Humidity %	Amount of Clouds (0-10)	Velocity of Wind m.p.s.	Precipitation (Total) mm
January	1-5	15.1	-3.3	4.2	85	8.6	3.6	13.1
	6-10	20.0	-2.9	4.3	84	8.1	2.2	8.0
	11-15	18.7	-5.4	3.3	80	6.8	2.8	1.8
	16-20	21.2	-6.1	3.3	83	6.9	1.5	4.9
	21-25	12.5	-2.4	4.5	85	8.7	3.1	31.7
	26-30	13.3	-2.1	4.4	82	9.5	4.6	20.7
February	31-4	9.7	-2.7	4.1	81	7.1	2.4	19.7
	5-9	8.7	0.1	5.0	80	9.0	2.7	21.1
	10-14	8.0	-4.2	3.7	81	8.9	4.0	46.5
	15-19	11.3	-4.9	3.5	82	7.5	4.0	27.1
	20-24	15.7	-0.3	4.1	69	6.2	4.0	0.2
	25-1	22.5	-0.3	4.4	72	4.2	2.7	0.6
March	2-6	19.3	2.7	5.4	74	8.1	2.7	5.1
	7-11	17.8	-1.4	4.4	80	8.7	3.0	12.3
	12-16	25.3	1.7	4.9	72	6.0	2.0	0.7
	17-21	15.9	3.4	5.2	69	4.9	2.6	0.3
	22-26	15.2	3.4	4.5	60	5.4	3.8	0.4
	27-31	16.7	4.1	5.8	73	7.2	3.8	7.3
April	1-5	9.9	10.4	7.4	62	5.0	4.6	4.4
	6-10	15.5	5.1	6.4	71	6.3	5.6	5.2
	11-15	17.8	10.8	10.9	83	9.1	3.1	19.6
	16-20	16.1	9.0	7.7	68	6.4	3.8	14.6
	21-25	15.9	10.6	8.1	64	7.3	4.9	0.0
	26-30	13.8	12.9	10.1	72	7.0	3.2	45.4
May	1-5	11.3	15.8	14.3	79	9.5	3.3	7.7
	6-10	16.6	14.0	12.3	76	6.4	3.6	6.2
	11-15	12.8	16.2	14.4	78	7.9	3.8	1.0
	16-20	15.1	14.2	11.2	71	9.0	3.6	12.4
	21-25	9.8	15.0	12.5	74	7.3	3.3	6.6
	26-30	8.4	18.2	13.1	65	6.0	4.2	0.1
June	31-4	13.5	17.2	13.1	70	4.3	2.7	11.3
	5-9	10.8	19.6	17.5	78	7.4	3.6	16.9
	10-14	999.9	17.4	14.6	74	9.2	2.8	7.9
	15-19	9.9	17.8	15.5	77	6.6	3.6	15.5
	20-24	16.7	20.3	20.3	86	8.9	3.0	12.2
	25-29	9.6	21.1	22.5	91	9.4	2.5	85.1
July	30-4	8.8	20.9	22.3	91	8.9	2.6	65.3
	5-9	4.6	25.0	26.0	83	7.4	3.5	1.3
	10-14	6.9	23.4	25.6	89	9.0	2.3	37.6
	15-19	10.8	21.2	21.3	86	8.5	2.3	86.9
	20-24	11.6	23.1	24.6	87	9.9	2.2	15.6
	25-29	9.6	26.5	28.9	84	7.5	1.9	4.4
August	30-3	11.4	26.2	29.0	86	8.8	2.0	8.2
	4-8	5.3	20.9	21.6	88	9.7	2.1	25.9
	9-13	11.3	24.0	24.3	82	5.3	1.9	7.3
	14-18	11.9	26.5	28.4	83	7.6	2.0	0.0
	19-23	10.1	22.9	24.3	88	9.8	2.2	23.4
	24-28	11.3	23.3	26.0	90	9.0	2.4	68.3
September	29-2	14.4	21.9	21.9	84	7.3	2.7	6.5
	3-7	13.1	23.8	26.1	89	9.2	2.4	20.4
	8-12	15.4	21.7	22.8	88	8.5	1.8	16.9
	13-17	6.6	22.1	22.6	85	9.0	4.6	30.9
	18-22	21.6	16.3	15.0	82	6.6	1.8	3.2
	23-27	14.9	20.2	20.3	86	8.8	2.3	46.1
October	28-2	17.4	17.7	17.2	86	7.0	2.0	16.3
	3-7	15.1	15.9	17.1	94	9.6	1.5	56.2
	8-12	14.7	14.3	12.6	79	7.4	3.0	19.4
	13-17	20.4	12.7	11.4	77	5.6	1.9	0.3
	18-22	23.7	12.4	12.6	85	9.2	1.7	5.9
	23-27	24.4	10.1	9.9	77	7.0	2.5	30.2
November	28-1	17.6	11.9	10.9	76	4.9	2.7	4.2
	2-6	22.6	8.6	8.5	78	5.6	1.8	7.2
	7-11	19.1	7.7	8.4	80	6.8	2.0	1.9
	12-16	26.6	4.4	6.4	77	3.3	2.3	1.3
	17-21	27.4	6.5	8.2	84	8.8	1.8	49.8
	22-26	8.9	6.0	7.8	81	7.9	3.5	47.4
December	27-1	16.8	8.7	8.4	75	9.0	2.3	2.5
	2-6	19.8	3.0	5.4	71	7.0	2.3	—
	7-11	17.1	3.4	6.2	79	6.5	2.6	18.5
	12-16	18.1	1.7	5.9	83	5.7	2.3	10.5
	17-21	11.1	0.3	5.2	84	8.3	2.1	26.2
	22-26	10.2	-2.2	4.6	86	6.9	1.7	29.0
	27-31	12.4	-3.4	4.1	85	5.0	1.3	1.1
Mean		14.4	10.9	12.5	80	7.5	2.8	17.6

SEISMOLOGICAL OBSERVATIONS



The seismological observations have been continued since 1902. The seismological instrument in use are two Omori's horizontal seismographs with the magnetic damper (EW component only) and Nasu's seismograph with the magnetic damper. Only the vertical component of Nasu's seismograph is used regularly.

Constants of three seismographs are shown as follows:

	EW	NS	Z
Proper period	10.5 sec	34.3 sec	5.5 sec
Dynamical magnification	100	20	25
Value of friction	3.3	2.1	2.8
Damping ratio	3	—	4
Mass of weight	45.0 kg	17.6 kg	4.4 kg

The pulsatory oscillations or microseisms are measured only with EW component of Omori's horizontal seismograph.

Remarks:

- The seismic intensity is divided into the following eight classes according to the scale of Japan Meteorological Agency (1949).

Unfelt	0.
Felt	I Slight
	II Weak
	III Rather strong
	IV Strong
	V Very strong
	VI Disastrous
	VII Very disastrous

- The time adopted in the seismological observations is Japanese Central Standard Time (9^h east from Greenwich).

- Symbols and Notations.

- i*: Sudden beginning of motion.
- e*: Gradual beginning of motion.
- +: Out of order of the instrument.
- ⊕: Out of the range of the instrument.
- []: Depth of focus in the unit of km.
- [S]: Shallow-focused earthquakes.
- A.S.: After-shock.

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks				
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z								
56	Jan. 17	e 7	35	10	—	—	—	—	—	35	42	—	—	—	—	—	2	—	—	32	1	59	0	36.3N, 141.7E[20]
57	17	e 9	30	21	e 30	26	e 30	24	31	01	e 31	01	31	02	30	30	30	30	40	5	53	0	36.3N, 141.8E[S]	
58	17	e 9	42	00	e 42	05	—	—	42	38	e 42	43	e 42	36	8	8	4	38	3	18	0	36.2N, 142.1E[20]		
59	17	e 10	37	04	—	—	—	—	e 37	43	—	—	—	—	3	—	—	39	2	58	0			
60	17	e 10	55	17	—	—	—	—	e 56	02	—	—	—	—	3	—	—	45	2	54	0			
61	17	e 11	41	40	—	—	—	—	e 42	29	e 42	27	—	—	4	3	—	49	2	24	0			
62	17	e 15	42	21	e 42	20	42	20	42	51	42	50	42	51	36	43	24	30	5	38	0	36.1N, 141.8E[20]		
63	17	e 17	58	27	—	—	—	—	59	03	e 59	02	—	—	6	5	—	36	3	38	0	36.2N, 142.1E[20]		
64	17	e 18	36	00	—	—	—	—	e 36	29	—	—	—	—	3	—	—	29	1	56	0			
65	17	e 22	22	19	—	—	—	—	22	46	—	—	—	—	5	—	—	27	3	10	0	36.4N, 141.7E[S]		
66	18	16	13	36	e 13	40	e 13	37	14	09	e 14	13	14	08	20	13	10	33	4	28	0	36.2N, 142.3E[20]		
67	18	16	28	44	e 28	47	28	44	29	21	29	23	e 29	24	26	25	14	37	5	24	0	36.3N, 142.3E[20]		
68	18	22	02	43	02	46	02	42	03	05	03	07	03	08	15	23	10	22	4	26	0	37.2N, 141.7E[20]		
69	19	e 1	49	18	49	17	e 49	17	49	49	49	49	e 49	45	35	45	22	32	5	52	0	36.2N, 141.9E[S]		
70	20	2	28	28	—	—	—	—	28	50	e 28	45	—	—	3	—	—	22	2	34	0			
71	20	6	06	19	—	—	06	20	06	45	e 06	43	e 06	42	12	10	8	26	4	49	0	36.2N, 142.0E[S]		
72	20	9	45	54	—	—	—	—	46	31	—	—	46	29	10	—	8	37	4	21	0	36.2N, 141.5E[20]		
73	21	e 1	33	53	—	—	—	—	34	22	e 34	22	—	—	6	8	—	29	3	53	0	35.9N, 142.5E[40]		
74	21	e 6	47	20	e 47	25	—	—	47	54	e 47	58	e 47	55	12	18	8	34	3	53	0	36.2N, 141.9E[S]		
75	21	i 7	35	22	i 35	20	35	21	35	48	35	48	e 35	43	118	100	70	26	7	51	0	37.1N, 141.6E[40]		
76	21	14	31	19	—	—	—	—	31	58	e 31	56	—	—	5	3	—	40	3	33	0	42.3N, 143.2E[60]		
77	22	2	43	52	e 43	53	e 43	53	e 44	33	e 44	35	e 44	33	17	25	18	41	5	53	0	36.3N, 141.5E[S]		
78	22	5	33	07	—	—	—	—	33	20	33	18	e 33	17	9	10	4	13	1	56	0	39.9N, 141.6E[80]		
79	22	e 12	34	07	—	—	—	—	e 41	31	e 41	39	—	—	11	38	—	444	67	54	0			
80	23	13	49	46	49	46	49	45	50	41	50	40	50	41	182	108	80	55	7	02	0	43.3N, 146.4E[120]		
81	24	e 9	04	13	e 04	11	—	—	04	52	e 04	51	—	—	6	10	—	39	4	10	0			
82	26	1	11	36	e 11	36	e 11	37	11	50	11	50	e 11	50	33	33	10	14	2	39	0	39.8N, 141.7E[S]		
83	28	5	09	06	—	—	—	—	10	33	e 10	36	10	35	7	10	6	87	4	03	0	44.0N, 150.1[80]		
84	28	15	12	57	—	—	—	—	13	32	—	—	—	—	2	—	—	35	2	25	0			
85	29	13	16	10	—	—	—	—	16	27	16	27	—	—	10	13	—	17	2	26	0	38.4N, 140.6E[100]		
86	29	e 22	40	43	—	—	—	—	41	17	e 41	20	e 41	19	9	8	6	34	4	10	0	36.2N, 141.3E[S]		
87	31	22	37	35	37	35	37	35	37	57	37	54	37	56	27	18	14	20	3	09	0	39.5N, 143.1E[60]		
88	Feb. 2	3	+	—	e 39	50	e 39	49	+	40	30	e 40	28	—	+	98	42	41	7	27	0	37.5N, 138.8E[20]		
89	3	11	26	12	—	—	26	11	26	25	26	24	e 26	23	27	28	20	13	2	46	0	39.0N, 140.3E[60]		
90	3	22	32	27	e 32	27	32	27	32	56	32	58	32	58	54	53	40	32	6	34	0	36.4N, 141.3E[20]		
91	5	4	14	18	—	—	—	—	e 18	08	e 18	08	—	—	—	20	—	230	15	58	0			
92	5	5	15	21	15	20	e 15	21	15	46	15	47	e 15	41	12	15	14	25	2	12	0			
93	5	9	01	08	—	—	—	—	02	30	02	31	02	32	12	18	10	83	4	05	0	44.5N, 149.1E[120]		
94	5	12	29	32	—	—	—	—	29	58	e 29	58	—	—	5	3	—	26	2	34	0			
95	7	3	17	29	17	31	e 17	25	18	55	18	54	18	53	36	30	22	86	7	18	0	43.4N, 149.2E[20]		
96	7	5	49	31	49	32	49	30	49	58	50	00	49	59	46	50	22	27	4	35	0	39.7N, 143.7[20]		
97	7	6	53	54	e 53	54	e 53	51	e 59	02	e 59	06	—	—	—	35	—	308	50	15	0			
98	7	13	19	31	19	31	19	30	19	51	19	51	e 19	55	54	93	54	20	3	46	0	40.8N, 141.4E[100]		
99	8	6	03	26	e 03	28	e 03	24	04	27	04	26	e 04	30	70	43	38	61	4	45	0	43.5N, 147.2E[100]		
100	11	15	14	57	14	56	e 14	55	16	47	16	49	16	48	30	30	20	110	4	46	0	29.0N, 139.8E[450]		
101	13	e 1	24	06	—	—	—	—	e 24	43	e 24	38	—	—	4	8	—	37	2	30	0	36.2N, 141.6E[S]		
102	13	1	—	—	—	—	—	—	e 27	41	e 27	40	—	—	7	13	—	—	—	—	0			
103	13	6	55	24	55	23	e 55	24	i 56	35	56	33	56	36	259	758	434	71	84	52	0	43.2N, 147.9E[80]		
104	13	7	—	—	—	—	—	—	e 30	28	—	—	—	—	2	—	—	—	—	—	0			
105	13	7	—	—	—	—	—	—	e 54	42	—	—	—	—	3	—	—	—	—	—	0			
106	13	7	—	—	—	—	—	—	e 57	09	—	—	—	—	3	—	—	—	—	—	0			
107	13	8	15	21	—	—	—	—	16	11	—	—	—	—	4	—	—	50	2	44	0			
108	13	8	28	18	28	17	e 28	19	29	30	29	29	29	31	246	200	160	73	24	06	0	42.9N, 147.2[20]		
109	13	11	33	01	+	—	e 33	03	34	13	+	—	—	—	16	—	14	72	4	48	0	43.5N, 147.3E[120]		
110	13	e 18	09	25	—	—	—	—	09	54	e 09	57	e 09	53	10	5	6	30	3	00	0			

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks								
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z												
111	Feb. 14	h	m	s	e	m	s	e	m	s	m	s	m	s	m	s	μ	μ	μ	s	m	s	0	43.0N, 147.8E[60]				
112	14	e	2	52	17	—	—	—	—	—	53	04	—	—	—	—	5	—	—	47	2	47	0					
113	14	e	7	38	58	—	—	—	—	—	40	06	40	07	40	08	30	18	20	69	4	50	0	42.9N, 147.5E[40]				
114	14	e	9	17	15	—	—	—	—	—	18	26	18	26	e	18	20	10	10	12	71	4	13	0	42.9N, 147.8E[60]			
115	14	e	11	53	09	+	+	+	+	+	53	59	+	+	+	+	11	+	+	50	2	29	0					
116	14	e	12	17	13	—	—	—	—	—	18	18	e	18	22	18	19	10	8	4	65	3	07	0				
117	14	e	12	23	57	23	58	e	23	55	24	58	24	58	e	24	58	32	33	20	60	6	29	0				
118	15	8	21	45	—	—	—	—	—	—	22	17	e	22	19	e	22	17	11	13	10	32	3	53	0	36.3N, 141.1E[S]		
119	15	19	46	55	46	56	e	46	53	e	48	08	e	48	06	e	48	05	168	163	88	73	22	51	0	43.3N, 147.9E[60]		
120	15	21	—	—	—	—	—	—	—	—	e	00	51	—	—	—	—	4	—	—	—	—	—	0				
121	16	17	—	—	—	—	—	—	—	—	57	49	—	—	e	57	50	4	—	6	—	—	—	0				
122	16	e	20	52	34	—	—	52	33	e	52	59	52	58	e	52	59	4	—	2	26	1	35	0	37.0N, 140.4E[60]			
123	16	22	56	32	e	56	34	e	56	29	57	42	57	40	e	57	43	38	38	30	70	7	42	0	43.2N, 147.7E[40]			
124	16	23	—	—	—	—	—	—	—	—	57	20	e	57	21	e	57	21	5	—	6	—	—	0				
125	17	22	32	40	32	40	32	39	e	33	22	33	33	e	33	32	e	33	32	9	20	12	53	3	22	0	35.5N, 139.0E[20]	
126	18	e	10	05	47	—	—	+	—	—	06	51	e	06	48	+	—	6	13	+	65	4	40	0				
127	18	e	10	51	16	—	—	—	—	—	e	52	39	e	52	36	e	52	35	7	8	4	80	3	29	0	35.1N, 141.4E[20]	
128	18	e	17	24	19	—	—	—	—	—	25	22	25	21	25	25	5	5	4	63	4	03	0					
129	23	i	13	16	50	i	16	50	i	16	51	⊕	—	17	25	17	24	⊕	1250	552	35	35	28	I	38.3N, 143.5E[S]			
130	23	16	—	—	—	—	—	—	—	—	e	51	47	—	—	—	—	2	—	—	—	—	—	0				
131	24	12	08	42	e	08	47	—	—	—	e	12	04	e	12	03	e	12	07	28	23	6	202	7	45	0		
132	26	0	24	01	e	23	57	24	00	—	24	37	e	24	38	24	41	15	16	6	37	3	54	0	36.1N, 139.9[60]			
133	26	11	37	02	—	—	+	—	—	—	e	37	23	e	37	24	+	—	4	3	+	20	2	47	0			
134	27	2	50	08	50	08	e	50	08	—	50	32	50	33	50	33	—	25	50	22	24	3	52	0	41.1N, 142.5E[60]			
135	27	3	13	32	13	28	e	13	29	—	15	58	15	57	e	15	53	⊕	⊕	106	146	48	05	0	31.6N, 131.9E[40]			
136	27	10	12	41	12	42	12	40	—	—	13	01	13	01	12	57	—	68	100	46	20	5	34	0	38.3N, 142.7E[40]			
137	27	12	21	42	—	—	e	21	40	—	22	03	e	22	01	22	01	13	8	8	21	2	30	0	37.9N, 142.8E[40]			
138	28	e	21	36	32	—	—	—	—	—	38	15	e	38	14	e	38	16	8	5	10	103	3	55	0			
139	Mar. 2	e	20	52	18	e	52	18	52	13	52	40	52	41	52	38	—	55	80	44	25	5	25	0	41.1N, 142.4E[20]			
140	3	14	16	46	e	16	46	i	16	46	17	25	e	17	25	17	26	13	13	8	40	4	27	0	41.8N, 144.3E[100]			
141	5	7	26	30	26	30	26	28	—	—	26	52	26	52	e	26	52	115	143	84	22	7	10	I	37.8N, 142.4E[40]			
142	5	e	23	28	43	—	—	—	—	—	e	29	11	e	29	15	e	29	4	5	4	28	3	16	0	36.4N, 142.7E[60]		
143	7	11	50	34	50	34	—	—	—	—	52	23	e	52	24	e	52	3	—	—	109	4	14	0	29.1N, 139.6E[360]			
144	7	e	19	22	53	e	22	53	22	42	e	32	35	e	32	35	—	28	93	—	593	13	26	0				
145	9	i	18	12	59	i	12	58	i	12	58	13	10	13	10	e	13	10	50	48	28	13	4	25	I	38.3N, 141.2E[60]		
146	11	3	23	31	—	—	—	—	—	—	23	45	—	—	—	—	—	6	—	—	15	1	46	0	38.3N, 141.0E[80]			
147	11	e	10	35	01	e	34	59	e	35	01	e	37	23	37	24	e	37	23	19	38	20	145	13	00	0		
148	14	e	10	06	16	e	06	18	e	06	18	e	07	07	e	07	15	e	07	07	8	10	4	51	5	27	0	43.8N, 140.6E[S]
149	15	19	23	00	e	22	58	e	23	02	e	29	20	e	29	19	—	—	—	—	—	380	20	02	0			
150	16	e	20	28	10	e	28	12	e	28	11	e	34	48	e	34	48	—	—	—	—	—	398	10	38	0		
151	16	22	54	36	54	34	54	33	e	61	46	61	48	—	—	—	—	—	—	—	434	18	09	0				
152	17	1	58	57	—	—	—	—	—	—	e	59	40	e	59	35	e	59	6	13	6	43	5	07	0	35.9N, 140.7E[40]		
153	18	4	01	50	—	—	—	—	—	—	02	02	02	02	02	01	—	2	3	—	12	1	26	0				
154	18	7	41	31	e	41	32	e	41	31	42	22	42	22	e	42	24	14	15	6	51	8	10	0	34.2N, 141.4E[60]			
155	19	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23	—	—	—	—	0			
156	19	i	13	52	26	i	52	26	i	52	26	i	52	48	i	52	47	216	300	210	22	11	03	I	40.2N, 143.4E[60]			
157	19	18	19	27	e	19	28	19	26	—	19	55	e	19	58	e	19	58	74	68	56	28	7	12	0	36.6N, 141.5E[60]		
158	20	20	40	27	40	27	40	27	—	—	41	44	41	44	e	41	43	46	63	32	77	6	24	0	46.1N, 143.5E[360]			
159	21	1	04	14	e	04	16	04	13	—	e	12	57	e	12	56	—	—	—	—	—	523	25	29	0			
160	25	i	7	58	04	i	58	03	58	02	i	58	39	58	43	e	58	43	360	500	134	35	21	23	0	35.7N, 141.3E[S]		
161	27	6	07	55	—	—	+	—	—	—	08	03	e	08	04	+	—	—	—	—	—	8	1	16	0			
162	28	4	—	—	—	—	—	—	—	—	47	42	—	—	—	—	—	4	—	—	—	—	—	—	0			
163	28	18	43	45	43	45	43	45	—	—	49	51	49	54	e	49	44	58	235	—	366	64	22	0				
164	28	e	21	35	41	e	35	54	35	41	e	41	51	—	—	—	—	—	—	—	370	12	29	0				
165	29	e	15	44	58	e	44	59	e	44	57	e	45	47	e	45	51	8	13	6	49	5	10	0	33.6N, 141.1E[100]			

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks								
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z												
166	Mar. 30	h	m	s	m	s	m	s	m	s	m	s	m	s	m	s	m	s	0	36.8N, 141.8E[20]								
167	30	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0									
168	31	e	2	17	29	e	17	29	e	17	28	e	17	47	e	17	47	13	20		4	18	2	46	0			
169	31	3	15	20	15	20	15	19	15	37	15	37	15	36	20	25	14	17	3		48	0						
170	Apr. 1	22	28	04	—	—	+	—	—	—	—	—	—	—	2	—	+	16	2		24	0						
171	2	0	27	08	e	27	15	e	27	07	34	10	—	—	—	—	—	—	3	20	—	422	33	32	0	37.9N, 140.7E[120]		
172	4	18	09	07	e	09	05	e	09	06	e	09	49	09	47	09	49	4	5	2	40	3	48	0				
173	4	e	19	43	31	—	—	+	—	—	e	44	00	—	—	+	—	—	4	—	+	29	2	14	0			
174	6	e	12	21	26	—	—	—	—	—	21	42	21	41	e	21	43	4	—	2	16	1	52	0				
175	9	i	4	19	22	i	19	20	i	19	21	i	19	40	i	19	40	239	250	138	18	6	10	II				
176	10	0	40	17	e	40	20	e	40	13	44	04	43	56	e	44	08	13	238	—	228	29	44	0	23.5N, 122.5E[S]			
177	10	e	11	31	23	—	—	—	—	—	31	43	—	—	—	—	—	3	—	—	20	1	42	0	36.4N, 141.8E[20]			
178	11	2	16	34	e	16	33	e	16	33	i	17	09	17	11	17	11	21	20	12	35	5	53	0				
179	11	9	30	30	+	+	+	+	+	+	+	+	+	+	+	+	+	—	—	—	—	9	14	0				
180	13	e	0	04	07	—	—	—	—	—	05	36	05	36	05	35	05	35	5	5	2	89	5	02		0		
181	13	e	2	30	49	—	—	e	30	55	33	18	e	33	15	33	17	4	3	4	89	5	42	0				
182	14	1	43	20	e	43	21	—	—	—	—	—	—	—	—	—	—	—	15	—	—	40	05	0	34.7N, 141.8E[S]			
183	15	e	9	16	25	e	16	19	+	—	e	17	07	e	17	03	+	—	—	—	9	+	+	42		5	24	0
184	16	15	—	—	—	—	—	—	—	—	e	21	23	e	21	19	e	21	23	3	—	4	—	—		0		
185	17	e	16	51	50	—	—	+	—	—	52	14	e	52	14	+	—	—	—	3	5	+	24	2		12	0	
186	18	e	17	29	17	—	—	—	—	—	30	33	e	30	34	e	30	32	5	—	4	76	4	11		0		
187	20	1	14	16	14	19	14	18	i	15	31	15	32	15	33	109	153	94	75	11	08	75	11	08	0	43.4N, 148.2E[80]		
188	20	3	18	52	—	—	e	18	51	19	26	—	—	e	19	24	4	—	2	34	2	38	0	0	44.0N, 150.4E[60]			
189	20	e	5	22	01	e	21	59	e	22	05	23	31	e	23	29	e	23	32	15	5	16	90	11		39	0	
190	20	7	10	01	—	—	e	09	59	i	11	29	e	11	28	11	30	9	8	12	88	7	53	0				
191	22	e	5	14	12	—	—	14	09	16	08	16	07	16	07	15	15	10	119	12	09	12	09	0				
192	23	14	18	18	e	18	21	e	18	14	19	25	—	—	—	—	—	8	5	—	68	9	33	0				
193	23	18	03	51	03	52	03	52	i	05	24	i	05	20	i	05	24	178	350	90	89	20	38	0	43.6N, 149.6E[S]			
194	23	e	21	20	04	—	—	—	—	—	21	34	21	33	e	21	32	11	8	6	90	5	34	0				
195	23	23	—	—	—	—	—	—	—	—	59	03	e	59	07	e	59	03	4	3	4	—	—	—	0			
196	24	e	1	53	22	53	23	53	21	54	41	54	39	54	42	14	18	12	78	16	51	16	51	0				
197	24	e	21	30	21	+	—	e	30	24	31	19	+	—	e	31	19	8	+	10	59	3	34	0				
198	25	9	30	48	—	—	—	—	—	—	32	16	32	16	e	32	16	6	5	6	78	5	34	0				
199	25	10	19	48	+	—	e	19	45	21	17	+	—	e	21	16	15	+	14	89	9	39	0					
200	26	16	41	03	e	41	05	e	41	06	i	42	27	42	27	42	23	43	43	26	84	39	40	0				
201	26	21	19	45	—	—	—	—	—	—	20	12	—	—	e	20	15	4	—	4	26	2	17	0				
202	27	e	4	35	00	—	—	—	—	—	36	12	36	14	e	36	13	9	8	12	73	6	42	0	44.4N, 151.8E[120]			
203	28	5	25	36	—	—	e	25	41	26	28	e	26	30	e	26	28	7	—	6	52	4	01	0	36.3N, 141.1E[20]			
204	28	e	11	21	21	—	—	—	—	—	e	21	49	—	—	e	21	49	2	—	2	29	1	42	0			
205	29	3	—	—	—	—	—	—	—	—	07	25	—	—	—	—	—	2	—	—	—	—	—	0				
206	30	20	02	54	—	—	—	—	—	—	04	14	e	04	16	e	04	19	5	5	6	80	4	48	0			
207	30	20	17	31	e	17	36	17	35	18	57	18	58	18	57	23	15	20	86	16	41	16	41	0	44.3N, 150.0E[100]			
208	May 1	6	46	14	—	—	—	—	—	—	47	29	47	28	47	30	10	10	8	75	5	18	0	0				
209	1	9	43	06	e	43	08	e	43	02	43	48	e	43	48	43	47	21	28	20	42	6	41	0	35.9N, 141.7E[S]			
210	2	13	30	04	—	—	+	—	—	—	30	39	—	—	+	—	—	3	—	+	28	2	40	0				
211	3	7	—	—	+	—	—	—	—	—	37	38	+	—	37	41	3	+	2	—	—	—	—	0				
212	3	7	56	42	+	—	—	56	42	e	56	58	+	—	56	58	5	+	4	16	3	56	0	0				
213	5	2	11	37	e	11	39	11	36	12	02	e	12	03	e	12	06	32	25	26	25	4	31	0	39.9N, 143.3E[20]			
214	6	4	—	—	—	—	—	—	—	—	17	17	17	19	17	19	3	5	2	—	—	—	—	0				
215	7	e	10	01	17	—	—	e	01	14	02	18	e	02	21	e	02	14	8	10	8	61	6	11	0	43.5N, 148.9E[60]		
216	7	19	30	11	—	—	+	—	—	—	31	01	31	03	+	—	—	4	8	+	50	3	42	0				
217	7	i	21	16	08	e	16	09	+	—	18	19	e	18	09	+	—	—	13	10	+	131	10	24	0	35.1N, 134.4E[40]		
218	8	e	6	52	37	—	—	—	—	—	e	53	11	—	—	—	—	1	—	—	34	2	23	0	36.6N, 140.8E[60]			
219	8	e	19	27	34	—	—	e	27	33	e	28	12	—	—	e	28	11	3	—	2	38	2	59	0			
220	11	22	27	41	—	—	—	—	—	—	i	29	01	29	01	e	29	02	10	8	8	80	4	18	0			

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks		
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z						
221	May 11	e 22	38	34	—	—	i 39	51	39	51	39	52	9	8	12	76	4	43	0	43.5N, 148.5E[40]		
222	12	21	15	12	15	14	e 15	36	—	—	+	6	—	—	24	1	38	0				
223	14	0	51	12	e 51	11	51	11	i 52	21	52	20	30	20	32	69	6	23	0	43.0N, 147.4E[40]		
224	15	e 7	46	23	—	—	46	49	e 46	47	e 46	49	2	3	4	27	2	34	0			
225	15	17	39	43	—	—	40	07	e 40	08	e 40	06	6	3	4	24	3	32	0	37.3N, 142.2E[40]		
226	17	i 6	48	14	i 48	13	i 48	13	—	—	—	—	—	—	—	—	22	30	0	30.5N, 132.0E[60]		
227	18	i 4	34	59	35	01	e 34	58	e 39	31	e 39	33	—	—	—	272	23	52	0			
228	20	1	42	17	—	—	46	09	46	09	—	—	11	10	4	233	7	25	0			
229	20	20	52	53	—	—	54	12	e 54	11	54	15	8	5	10	79	4	50	0	42.9N, 148.6E[S]		
230	21	0	04	17	e 04	19	e 04	16	04	33	04	33	14	5	4	16	2	04	0	37.9N, 141.5E[60]		
231	21	e 14	25	38	—	—	e 25	40	26	13	26	14	10	5	12	35	3	50	0	42.4N, 144.9E[60]		
232	22	11	31	52	—	—	32	15	e 32	15	e 32	17	4	3	4	23	2	57	0	37.3N, 141.9E[80]		
233	22	e 17	22	44	—	—	e 23	11	—	—	—	—	2	—	—	27	1	52	0			
234	23	e 3	24	44	—	—	e 25	04	—	—	e 25	00	2	—	4	14	1	42	0	39.4N, 141.4E[120]		
235	23	5	—	—	—	—	37	23	e 37	23	e 37	22	2	3	4	—	—	—	0			
236	23	11	57	36	e 57	50	e 57	38	67	46	67	51	—	—	—	610	52	24	0			
237	26	4	—	—	—	—	55	48	—	—	—	—	1	—	—	—	—	—	0			
238	27	i 7	50	18	50	18	i 50	18	50	38	50	38	108	138	76	20	8	44	0	38.7N, 143.0E[S]		
239	27	i 16	18	43	i 18	43	i 18	42	i 19	08	i 19	09	19	12	181	150	122	25	10	57	0	41.2N, 142.3E[40]
240	27	i 19	23	24	i 23	23	23	23	23	35	23	32	104	95	80	9	4	53	II	38.7N, 141.9E[60]		
241	28	20	47	13	—	—	47	47	e 47	47	—	—	4	3	—	34	2	57	0			
242	Jun. 1	5	43	40	—	—	e 44	06	e 44	06	44	06	4	3	2	26	2	47	0			
243	1	13	00	34	—	—	i 00	59	01	01	00	58	5	5	6	24	3	06	0	40.8N, 141.9E[40]		
244	1	14	58	48	—	—	i 59	15	i 59	16	e 59	18	10	10	10	27	4	20	0	41.5N, 142.5E[60]		
245	1	e 17	00	11	—	—	01	30	e 01	35	01	35	2	—	4	24	4	18	0			
246	3	e 3	13	44	e 13	48	—	—	e 17	07	e 17	08	4	5	—	205	9	26	0			
247	3	e 10	18	41	e 18	43	e 18	43	e 22	47	e 22	47	4	5	—	246	9	58	0			
248	4	16	41	38	e 41	41	41	37	e 48	32	e 48	36	—	—	—	414	32	48	0			
249	4	19	25	48	—	—	26	00	25	59	e 26	00	14	5	4	12	2	23	0	38.0N, 141.6E[20]		
250	5	1	—	—	—	—	19	15	—	—	—	—	1	—	—	—	—	—	0			
251	5	1	—	—	—	—	e 48	22	—	—	—	—	1	—	—	—	—	—	0			
252	6	e 4	44	55	—	—	45	26	45	26	—	—	2	—	—	31	2	08	0			
253	7	11	07	12	—	—	07	46	e 07	47	e 07	46	3	3	4	35	2	01	0			
254	7	14	—	—	—	—	06	21	e 06	23	e 06	22	3	3	2	—	—	—	0			
255	8	13	10	56	—	—	11	45	e 11	42	e 11	44	4	3	4	49	3	27	0	36.2N, 141.9E[S]		
256	8	e 13	20	22	—	—	e 21	15	e 21	18	—	—	3	—	—	54	4	09	0			
257	9	23	—	—	—	—	27	52	—	—	—	—	4	—	—	—	—	—	0			
258	10	0	45	07	—	—	e 45	11	46	38	e 46	36	8	5	4	91	5	02	0	30.6N, 140.6[320]		
259	11	14	21	46	e 21	48	+	30	56	e 31	00	+	—	35	—	550	52	59	0			
260	12	19	—	—	—	—	e 54	07	—	—	—	—	1	—	—	—	—	—	0			
261	13	9	47	24	—	—	47	51	47	53	e 47	49	5	8	6	27	3	50	0			
262	13	11	17	03	17	05	17	04	17	14	17	14	10	3	6	11	2	42	0			
263	14	0	—	—	—	—	19	19	—	—	19	18	5	—	4	—	—	—	0			
264	14	e 6	49	06	e 49	09	49	10	e 49	28	e 49	29	2	3	4	18	2	12	0			
265	15	6	—	—	—	—	59	48	e 59	44	59	48	3	3	4	—	—	—	0			
266	16	7	—	—	—	—	41	54	41	54	—	—	4	3	—	—	—	—	0			
267	16	8	27	09	e 27	12	e 27	08	i 28	51	28	49	25	20	20	103	7	45	0			
268	16	21	—	—	—	—	50	43	—	—	—	—	3	—	—	—	—	—	0			
269	19	2	31	32	—	—	32	06	32	07	+	+	4	5	+	35	3	18	0	36.2N, 139.9E[40]		
270	19	e 3	28	22	—	—	e 28	48	—	—	—	—	3	—	—	26	2	20	0			
271	19	i 11	46	26	46	27	i 46	26	46	49	46	47	246	233	120	22	13	25	0	39.1N, 143.7E[40]		
272	19	e 12	08	11	e 08	11	—	—	e 08	37	—	—	2	—	—	27	1	44	0			
273	19	e 16	10	26	—	—	e 10	56	—	—	—	—	1	—	—	31	1	43	0			
274	19	16	29	56	—	—	30	18	e 30	18	—	—	3	5	—	22	2	47	0			
275	19	i 16	38	53	38	53	38	52	39	13	39	13	384	455	116	20	15	55	0	39.2N, 143.7E[40]		

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks		
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z						
276	Jun. 19	i 17	00	07	00	07	00	06	00	26	00	26	00	27	126	153	102	19	12	18	0	39.2N, 143.5E [40] 39.3N, 143.8E [80] 39.5N, 143.9E [60]
277	19	17	24	27	—	—	24	27	24	48	24	50	24	21	13	20	21	4	10	0		
278	19	17	57	03	—	—	57	01	57	24	57	25	e 57	5	5	4	21	2	52	0		
279	19	e 19	55	14	—	—	—	—	e 55	42	—	—	—	3	—	—	28	2	14	0		
280	20	14	06	29	e 06	30	06	29	06	54	06	53	e 06	21	10	12	25	2	31	0		
281	21	9	09	01	+	—	—	—	09	19	+	—	e 09	5	+	2	18	2	20	0	35.7E, 140.2E [80] 39.6N, 141.1E [20]	
282	23	e 12	32	16	—	—	—	—	e 32	28	—	—	—	1	—	—	12	1	32	0		
283	23	e 19	10	17	—	—	—	—	13	41	—	—	—	—	—	—	204	6	33	0		
284	23	20	05	52	e 05	54	05	50	06	32	06	31	06	35	30	20	39	7	52	0		
285	24	5	21	59	—	—	+	—	22	11	e 22	06	+	5	8	+	13	2	48	0		
286	24	21	—	—	—	—	—	—	36	39	—	—	—	2	—	—	—	—	—	0	41.0N, 143.0E [60]	
287	24	22	52	50	—	—	—	—	53	16	e 53	20	53	10	10	8	27	3	20	0		
288	25	e 1	27	16	—	—	—	—	33	29	—	—	—	—	—	—	373	9	00	0		
289	25	i 11	30	16	i 30	15	i 30	15	30	48	30	48	30	30	5	24	32	6	02	0		
290	25	21	19	45	—	—	e 19	48	20	21	20	23	e 20	9	5	6	36	3	41	0		
291	26	1	50	44	50	43	50	42	53	50	e 53	57	—	25	15	—	188	26	46	0	36.4N, 141.8E [S]	
292	26	4	14	54	e 14	57	e 14	52	15	28	e 15	28	e 15	13	13	10	34	5	43	0		
293	26	e 23	53	06	e 53	05	+	—	—	—	—	—	+	—	—	—	—	13	30	0		
294	27	e 16	11	00	e 11	08	—	—	e 18	46	e 18	50	—	15	85	—	466	41	43	0		
295	27	16	57	05	e 57	01	57	02	60	21	60	23	60	8	8	4	196	7	29	0		
296	27	21	56	32	—	—	—	—	56	55	—	—	—	1	—	—	23	1	39	0	35.7N, 140.2E [80]	
297	28	1	19	06	—	—	—	—	19	47	—	—	—	1	—	—	42	2	21	0		
298	29	20	—	—	—	—	—	—	e 38	55	—	—	38	5	—	6	—	—	—	0		
299	Jul. 1	e 17	03	56	—	—	—	—	e 04	06	e 04	03	—	4	0	—	10	1	52	0		
300	2	11	08	03	e 08	07	e 08	00	08	41	e 08	43	08	35	45	26	39	7	18	0		
301	2	11	20	53	—	—	—	—	20	15	20	15	e 20	3	5	4	22	2	23	0	35.7N, 140.2E [80]	
302	4	1	23	32	—	—	—	—	24	05	e 24	05	—	5	5	—	33	2	39	0		
303	4	8	15	03	15	03	15	03	15	33	15	32	15	20	8	4	30	—	—	0		
304	4	8	—	—	—	—	—	—	15	45	e 15	42	e 15	20	8	4	—	—	—	0		
305	4	15	15	33	e 15	29	e 15	32	19	26	e 19	31	e 19	7	—	—	233	8	12	0		
306	4	19	02	23	—	—	—	—	02	33	—	—	—	5	—	—	10	1	28	0	35.7N, 140.2E [80]	
307	4	23	14	40	—	—	—	—	15	15	e 15	20	15	6	8	4	35	4	22	0		
308	4	23	32	07	—	—	—	—	32	46	32	47	32	7	4	6	40	4	48	0		
309	6	e 14	42	26	—	—	—	—	e 42	44	—	—	—	1	—	—	18	1	52	0		
310	7	7	20	11	20	12	20	09	28	52	28	52	—	—	33	—	521	51	53	0		
311	7	e 20	19	40	—	—	—	—	20	05	e 20	05	—	4	3	—	25	2	10	0	35.7N, 140.2E [80]	
312	7	22	19	08	19	08	19	09	e 25	41	e 25	44	—	—	30	—	394	29	06	0		
313	8	e 15	02	22	—	—	e 02	21	e 02	51	02	52	02	9	8	8	30	3	45	0		
314	9	1	16	43	—	—	e 16	42	17	08	17	08	e 17	5	3	6	25	2	45	0		
315	10	e 0	18	15	—	—	—	—	e 18	30	—	—	18	5	—	2	15	1	50	0		
316	11	e 19	34	34	e 34	39	34	34	34	56	34	58	e 34	9	3	6	22	3	17	0	35.7N, 140.2E [80]	
317	12	e 15	56	53	—	—	—	—	e 57	39	57	39	e 57	8	5	10	46	4	19	0		
318	13	11	14	35	14	34	—	—	16	38	16	40	e 16	4	3	4	124	4	02	0		
319	14	6	49	29	—	—	—	—	e 53	35	e 53	38	—	—	—	—	186	9	02	0		
320	14	8	42	27	—	—	e 42	24	43	07	e 43	05	e 43	9	5	8	40	3	50	0		
321	18	1	21	12	21	10	21	10	21	48	21	44	21	225	270	102	34	22	23	0	35.7N, 140.2E [80]	
322	18	15	02	17	+	—	—	—	02	35	+	—	02	5	—	—	19	1	41	0		
323	18	i 23	06	34	i 06	36	06	38	08	58	08	55	e 08	268	1770	—	142	92	23	0		
324	18	23	37	04	e 37	03	—	—	—	—	—	—	—	—	—	—	—	—	—	0		
325	19	0	19	12	—	—	—	—	—	—	—	—	—	—	—	—	—	13	14	0		
326	19	4	32	12	e 32	14	—	—	—	—	—	—	—	—	—	—	—	7	00	0	35.7N, 140.2E [80]	
327	19	6	26	14	—	—	—	—	26	33	e 26	36	26	3	3	6	19	2	08	0		
328	19	9	—	—	—	—	—	—	11	35	—	—	—	5	—	—	—	—	—	0		
329	19	e 15	36	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0		
330	19	15	41	57	—	—	41	56	e 42	30	e 42	30	42	5	5	4	33	3	18	0		

EARTHQUAKES, 1961.



No.	Date 1961	P						S						Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks	
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z							
		h	m	s	m	s	m	s	m	s	m	s	m	s	m	s	μ	μ	μ	s	m	s	
331	Jul. 19	e 16	25	26	—	—	—	—	e 25	54	—	—	—	—	—	—	2	—	—	28	2	15	0
332	19	e 18	16	57	—	—	—	—	e 17	15	—	—	—	—	—	—	1	—	—	18	1	28	0
333	19	18	20	01	20	02	20	00	20	32	20	31	20	31	—	—	24	23	20	30	7	14	0
334	19	e 21	01	42	—	—	—	—	e 08	42	—	—	—	—	—	—	—	—	—	420	9	15	0
335	20	7	06	24	—	—	06	23	06	42	06	44	06	42	—	—	8	8	6	18	3	03	0
336	22	6	—	—	—	—	—	—	35	57	—	—	—	—	—	—	1	—	—	—	—	—	0
337	22	e 7	42	51	e 43	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	45	0
338	22	e 11	15	30	—	—	—	—	15	56	15	57	e 15	59	—	—	3	—	2	27	2	30	0
339	22	e 16	25	57	—	—	—	—	e 26	47	e 26	45	—	—	—	—	4	5	—	50	7	27	0
340	23	13	04	03	—	—	e 04	02	04	18	e 04	18	04	19	—	—	5	3	4	15	2	07	0
341	24	7	01	34	01	33	01	34	10	00	e 09	59	—	—	—	—	17	320	—	507	90	27	0
342	26	3	42	41	42	41	42	40	e 43	06	e 43	07	—	—	—	—	6	5	—	26	4	00	0
343	26	e 16	03	54	—	—	—	—	04	35	e 04	38	e 04	32	—	—	9	5	4	41	4	06	0
344	28	e 9	38	39	—	—	—	—	41	36	41	37	—	—	—	—	11	5	—	217	6	58	0
345	29	0	21	10	e 21	10	21	11	22	12	22	12	22	13	—	—	30	25	24	62	10	24	0
346	30	e 1	34	14	—	—	—	—	34	40	e 34	37	e 34	41	—	—	4	3	4	27	2	48	0
347	30	e 7	28	30	—	—	—	—	28	51	28	52	e 28	58	—	—	8	8	6	21	3	08	0
348	30	e 7	40	21	—	—	—	—	e 41	00	e 41	02	—	—	—	—	3	5	—	39	3	19	0
349	30	20	—	—	—	—	—	—	21	55	e 21	54	21	56	—	—	4	3	4	—	—	—	0
350	Aug. 1	e 14	49	06	e 49	04	—	—	e 56	29	e 56	30	—	—	—	—	6	50	—	443	47	13	0
351	2	e 21	14	03	—	—	e 13	59	15	19	15	21	15	20	—	—	20	18	18	77	5	54	0
352	4	16	18	58	e 19	01	18	56	19	45	19	46	19	46	—	—	30	15	20	47	4	51	0
353	5	7	55	16	e 55	14	e 55	11	56	57	56	55	e 56	58	—	—	24	18	12	102	17	08	0
354	5	22	—	—	—	—	—	—	e 00	25	e 00	25	—	—	—	—	2	—	—	—	—	—	0
355	7	13	03	07	03	08	03	06	03	40	03	42	e 03	42	—	—	32	20	14	33	4	54	0
356	8	21	25	24	e 25	31	e 25	19	e 30	41	e 30	46	—	—	—	—	—	—	—	317	50	00	0
357	9	i 13	03	04	03	04	03	03	i 03	29	03	29	03	29	—	—	155	125	70	25	7	58	0
358	9	16	49	17	e 49	18	+	+	49	54	49	52	+	+	—	—	20	8	+	35	3	55	0
359	10	14	45	51	45	50	45	50	46	09	46	09	e 46	09	—	—	14	8	6	18	3	34	0
360	10	21	04	20	e 04	28	e 04	25	07	25	07	25	07	26	—	—	33	25	30	185	12	00	0
361	11	12	32	23	—	—	—	—	32	52	—	—	e 32	51	—	—	3	—	2	30	2	44	0
362	11	23	10	11	—	—	e 10	16	e 10	43	e 10	45	e 10	41	—	—	8	5	2	32	4	56	0
363	12	i 0	52	48	i 52	48	i 52	48	53	43	53	44	53	46	—	—	⊕	⊕	706	55	97	27	II
364	12	7	—	—	—	—	—	—	49	49	—	—	—	—	—	—	1	—	—	—	—	—	0
365	12	8	12	30	e 12	34	12	31	13	02	13	04	e 13	03	—	—	28	25	20	32	7	24	0
366	12	i 8	35	06	35	06	i 35	06	i 35	58	35	57	35	59	—	—	74	75	62	52	10	04	0
367	12	9	47	40	i 47	42	i 47	42	47	51	i 47	56	i 47	56	—	—	49	50	22	11	5	06	0
368	15	7	07	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	01	0
369	15	8	39	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	24	0
370	16	4	05	28	05	28	05	27	06	34	06	35	06	36	—	—	51	30	30	66	38	05	0
371	17	0	55	17	e 55	20	55	16	i 56	27	56	27	56	28	—	—	10	13	10	70	5	28	0
372	17	e 15	35	46	—	—	—	—	36	08	36	07	—	—	—	—	3	3	—	22	2	14	0
373	17	i 20	37	25	i 37	24	i 37	23	i 37	32	i 37	33	i 37	33	—	—	142	105	82	7	5	59	II
374	18	6	18	46	18	43	18	43	20	23	20	20	20	21	—	—	79	65	96	97	27	24	0
375	18	23	51	50	—	—	—	—	52	21	52	22	e 52	24	—	—	6	8	8	31	3	41	0
376	19	11	44	14	44	13	44	13	i 45	05	i 45	06	45	05	—	—	48	35	30	52	8	53	0
377	19	e 14	28	04	e 28	06	e 28	04	—	—	e 31	13	—	—	—	—	5	18	—	186	—	—	0
378	19	i 14	34	49	i 34	48	i 34	47	35	58	36	01	35	57	—	—	⊕	⊕	300	69	48	56	0
379	19	17	08	41	—	—	—	—	e 09	45	e 09	48	e 09	44	—	—	5	5	2	64	6	21	0
380	19	21	46	17	—	—	—	—	47	08	47	06	—	—	—	—	10	8	—	51	4	34	0
381	19	e 22	25	15	—	—	e 25	21	e 26	15	e 26	12	e 26	15	—	—	10	5	2	60	7	12	0
382	22	e 1	05	08	—	—	—	—	05	34	05	32	05	34	—	—	5	5	4	26	3	00	0
383	22	i 2	01	15	e 01	15	01	13	01	47	01	48	01	46	—	—	209	125	150	33	11	19	0
384	22	15	—	—	—	—	—	—	14	24	14	15	14	14	—	—	6	5	2	—	—	—	0
385	23	14	03	23	—	—	03	20	04	07	e 03	59	04	07	—	—	5	5	4	44	3	26	0

EARTHQUAKES, 1961.



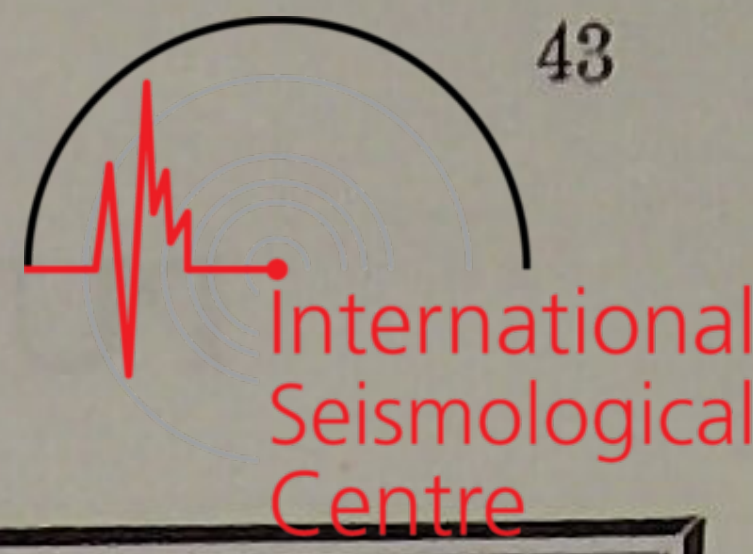
No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks		
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z						
386	Aug. 24	h 13	m 53	s 37	e 53	s 37	m 53	s 37	m 54	s 30	m 54	s 29	m 54	s 31	μ 22	μ 18	μ 20	s 53	m 5	s 49	0	
387	24	18	52	22	—	—	—	—	e 52	59	52	58	e 52	57	10	13	10	36	5	18	0	
388	25	7	42	10	42	11	42	08	43	02	43	03	e 43	04	28	25	28	52	6	02	0	
389	26	6	—	—	—	—	—	—	42	52	42	53	—	—	2	3	—	—	—	—	0	
390	26	16	07	15	07	14	07	15	07	28	07	29	07	29	72	65	24	14	4	30	0	
391	26	17	—	—	—	—	—	—	47	14	—	—	—	—	2	—	—	—	—	—	0	
392	27	3	54	45	54	45	e 54	41	e 58	52	e 58	49	—	—	—	—	—	246	8	37	0	
393	28	1	25	08	25	11	e 25	11	27	18	27	19	e 27	19	25	40	16	130	25	32	0	
394	28	1	52	40	52	39	52	38	56	39	56	38	—	—	13	25	—	241	17	34	0	
395	29	6	00	45	—	—	—	—	01	07	01	09	01	10	3	—	2	22	1	59	0	
396	29	14	56	54	—	—	—	—	57	45	57	47	e 57	47	11	10	10	52	6	11	0	
397	30	i 14	00	57	00	57	+	+	i 01	14	i 01	13	+	+	40	28	+	16	4	38	0	
398	31	11	06	59	e 07	01	e 06	57	15	34	e 15	36	15	33	—	45	—	515	80	12	0	
399	Sep. 1	9	29	28	e 29	27	e 29	22	—	—	e 37	50	—	—	—	—	—	502	83	07	0	
400	1	e 14	15	47	—	—	—	—	16	04	—	—	16	04	3	—	2	17	1	37	0	
401	2	4	00	36	e 00	38	00	36	01	22	e 01	25	e 01	22	13	13	8	46	7	03	0	
402	2	16	34	22	—	—	34	22	35	00	34	59	34	59	18	8	10	37	3	39	0	
403	2	18	04	37	—	—	04	37	04	56	e 04	58	04	57	10	8	8	19	3	25	0	
404	2	e 21	31	50	—	—	—	—	32	03	e 32	08	e 32	08	3	5	4	13	2	17	0	
405	3	e 0	39	43	—	—	—	—	e 40	20	e 40	21	e 40	17	5	3	2	37	2	44	0	
406	4	12	19	36	19	35	19	34	e 21	26	e 21	24	—	—	3	5	—	111	4	16	0	
407	4	13	—	—	—	—	—	—	58	24	—	—	—	—	3	—	—	—	—	—	0	
408	5	0	—	—	—	—	—	—	12	33	—	—	—	—	2	—	—	—	—	—	0	
409	5	e 11	23	29	—	—	—	—	23	58	—	—	e 24	00	4	—	2	29	2	43	0	
410	5	18	13	28	—	—	—	—	14	39	—	—	e 14	42	9	—	6	72	4	12	0	
411	6	13	—	—	—	—	—	—	29	43	—	—	—	—	1	—	—	—	—	—	0	
412	8	e 13	53	30	e 53	32	e 53	29	54	00	e 54	02	e 53	58	9	13	6	31	5	53	0	
413	8	20	46	23	e 46	28	46	22	e 50	42	50	44	e 50	46	6	20	—	261	102	54	0	
414	9	18	17	29	—	—	—	—	18	22	18	23	18	23	16	8	10	53	6	27	0	
415	10	18	46	47	—	—	—	—	47	34	e 47	33	e 47	35	4	5	4	47	2	38	0	
416	12	8	48	40	+	+	e 48	35	49	28	+	+	49	30	21	+	24	49	6	17	0	
417	12	21	28	56	—	—	—	—	30	03	e 30	07	30	04	8	5	6	66	6	48	0	
418	13	0	—	—	—	—	—	—	e 46	18	—	—	—	—	1	—	—	—	—	—	0	
419	14	8	18	14	—	—	—	—	18	48	18	49	e 18	47	10	10	6	34	3	18	0	
420	14	e 19	38	59	—	—	—	—	39	31	e 39	30	—	—	5	4	—	32	3	25	0	
421	15	6	51	12	51	12	51	10	51	26	51	26	51	25	60	63	34	14	6	15	0	
422	15	e 19	08	09	—	—	—	—	08	29	08	29	e 08	29	5	5	4	20	1	15	0	
423	16	4	41	30	e 41	33	41	29	i 41	48	i 41	46	i 41	45	35	23	18	16	2	37	0	
424	16	18	—	—	—	—	+	+	03	59	03	59	+	+	2	3	+	—	—	—	0	
425	17	22	00	56	—	—	+	+	e 01	33	01	32	+	+	3	3	+	37	3	16	0	
426	19	11	44	45	—	—	+	+	e 47	02	—	—	+	+	3	—	+	77	5	07	0	
427	22	14	28	57	—	—	—	—	29	17	29	18	e 29	19	5	5	4	20	2	58	0	
428	23	12	50	21	—	—	—	—	e 51	49	—	—	—	—	1	—	—	88	3	47	0	
429	25	6	42	19	e 42	19	e 42	17	e 43	19	e 43	17	e 43	19	37	33	20	60	16	11	0	
430	25	16	59	49	—	—	—	—	60	19	e 60	21	e 60	19	3	3	4	31	2	52	0	
431	26	e 8	29	24	—	—	—	—	29	41	—	—	e 29	36	3	—	2	17	3	48	0	
432	26	11	48	26	—	—	—	—	48	58	48	57	e 48	56	3	3	2	32	2	32	0	
433	26	13	00	36	—	—	—	—	00	57	e 00	52	00	59	4	3	6	22	3	20	0	
434	27	18	46	49	—	—	+	+	47	14	e 47	15	+	+	4	3	—	26	3	35	0	
435	28	e 4	34	17	—	—	e 34	11	e 39	58	—	—	—	—	—	—	—	341	8	19	0	
436	28	12	26	41	e 26	43	26	39	28	03	e 28	08	28	04	21	30	10	85	30	21	0	
437	28	e 13	21	14	—	—	—	—	22	33	e 22	40	e 22	32	5	5	2	79	5	08	0	
438	29	10	—	—	—	—	—	—	51	03	e 51	05	e 51	04	2	3	2	—	—	—	0	
439	30	1	51	50	51	50	51	50	i 52	43	52	42	+	+	48	40	42	52	8	21	0	
440	30	4	14	05	e 14	05	e 13	58	e 19	47	e 19	39	—	—	—	—	—	342	12	05	0	

EARTHQUAKES, 1961.

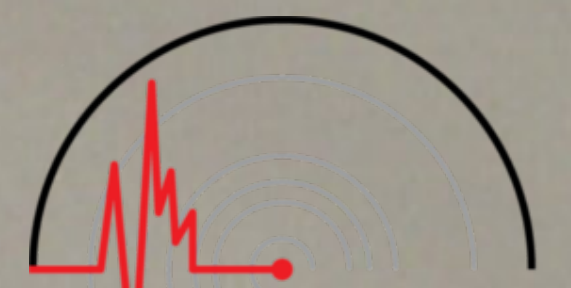


No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks	
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z					
441	Sep. 30	e 9 ^h 23 ^m 17 ^s									e 24 ^m 41 ^s	e 24 ^m 41 ^s	e 24 ^m 41 ^s	5	3	4	84	5	20	0	
442	30	e 20									e 12 21			1						0	
443	30	i 22 13 36	i 13 37	i 13 36							13 53	13 53	13 54	83	68	46	18	5	31	0	
444	30	e 22									e 20 21			1						0	
445	Oct. 1	e 3 43 43									e 44 03			1			20	1	20	0	
446	1	e 5 39 24	e 39 27	e 39 33							39 45	39 45	39 44	26	20	20	21	3	55	0	
447	1	e 7 13 26									13 49		13 49	2		2	23	1	52	0	
448	3	e 0 03 20									e 03 43	e 03 43	e 03 43	5	5	6	23	2	14	0	
449	6	e 20 05 14	e 05 17	e 05 15							05 55	05 52	e 05 57	17	18	20	41	3	55	0	
450	8	e 10									e 14 36			1						0	
451	8	e 12 28 36									29 18	e 29 21	e 29 21	2	3	4	42	2	40	0	
452	9	e 8 49 00									e 54 49	e 54 43					349	11	33	0	
453	13	e 16 56 26	56 24								e 56 43			2			17	1	44	0	
454	14	e 21									e 33 16	e 33 20		1	3					0	
455	15	e 16 33 28	e 33 31	33 28							33 44	33 44	33 44	25	23	12	16	3	22	0	
456	16	e 18 59 58									60 19	60 23	e 60 20	4	5	6	21	2	24	0	
457	19	e 3									e 05 42			3						0	
458	19	e 19 16 04									16 26	16 26	16 24	11	5	8	22	2	35	0	
459	23	e 4 02 30	e 02 32								02 58	03 00	02 58	16	10	12	28	5	24	0	
460	23	e 23 47 02	e 46 55	46 54							e 53 03	e 52 46					352	21	14	0	
461	24	e 16 27 05	e 27 05	27 04							28 14	28 15	e 28 20	30	18	26	70	5	29	0	
462	25	e 23									01 29	e 01 33	e 01 30	2		2				0	
463	26	e 22 04 10	04 12	04 09							04 25	04 25	e 04 24	61	50	40	16	3	28	I	
464	31	e 6 18 05	e 18 12	e 18 03							19 45	e 19 50	e 19 52	12	15	8	100	17	08	0	
465	Nov. 1	i 5 10 06	10 05	10 04							i 10 15	i 10 13	10 13	72	58	24	9	2	45	0	
466	1	e 9 00 31									e 01 22	01 20	01 20	6	5	4	50	4	29	0	
467	1	e 23 26 29	e 26 28	26 29							i 26 40	26 41	26 39	38	28	38	11	3	35	0	
468	2	e 15									26 01	26 01	26 01	6	3	6				0	
469	3	e 19 21 24									21 55	21 54		4	3		31	2	37	0	
470	4	e 9									e 19 23		e 19 23	2						0	
471	5	e 12 16 37									e 17 12	e 17 09	e 17 12	9	8	10	35	3	20	0	
472	5	e 12									44 49	44 49	e 44 45	5	3	2				0	
473	5	e 19 38 45									e 38 41	40 03	40 04	20	13	20	78	5	12	0	
474	6	e 15									14 10		e 14 11	2						0	
475	7	e 8									e 12 24			1						0	
476	12	e 5 27 08									e 27 35	22 35	e 27 34	1		2	27	2	02	0	
477	12	e 5 30 49	30 51	e 30 51							e 31 07	e 31 09	e 31 08	4	5	4	18	1	45	0	
478	14	e 12 19 55									20 27	e 20 27	e 20 28	5	3	2	32	2	55	0	
479	14	e 19 03 29	03 29	03 28							04 12	04 15	04 10	22	25	20	42	5	41	0	
480	15	e 7 28 49									29 44	29 43	e 29 42	4		4	55	5	26	0	
481	15	i 16 18 23	i 18 25	i 18 25							i 19 15	19 15	19 17	⊕	1063	1020	51	63	26	I	
482	15	e 19 20 51									21 12	e 21 14		3		+	21	2	58	0	
483	16	e 13 07 05	e 07 07	07 05							07 21	e 07 22	07 20	24	13	10	16	2	46	0	
484	16	e 21 50 40	e 50 38								50 58	e 50 59	e 50 58	4		2	19	1	11	0	
485	16	e 22 46 35	46 35	46 34							46 50	46 50	46 51	109	30	52	15	3	36	I	
486	20	e 8 29 28	e 29 30								35 30	35 25					362	16	43	0	
487	20	e 13 33 08	33 07	33 07							i 33 31	33 31	33 32	60	50	42	22	5	01	0	
488	20	e 19 04 12	04 11	04 10							04 34	04 34		4	5	2	22	1	35	0	
489	21	e 8 10 19	10 18	10 18							12 19	12 19	12 19	19	13	14	120	5	12	0	
490	21	e 10 18 38									19 13	19 12	19 12	10	8	10	35	2	54	0	
491	26	e 5 20 39	20 38	20 37							21 15	21 15	21 14	160	173	102	36	8	44	0	
492	27	e 15 00 03	e 00 04	e 00 04							e 01 46	e 01 54	e 01 40	8	75	6	43	13	17	0	
493	28	e 2 18 28	18 29	18 27							e 24 39	e 24 42			30		11	36	28	0	
494	29	e 1 38 51	e 38 52	38 48							39 29	e 39 29	e 39 27	22	25	20	38	5	39	0	
495	30	e 8 37 39	37 44	e 37 43							38 03	38 04	38 03	15	15	12	24	3	25	0	

EARTHQUAKES, 1961.



No.	Date 1961	P					S					Maximum Amplitude					P ~ S	P ~ F	Intensity	Epicenter and Remarks		
		E	W	N	S	Z	E	W	N	S	Z	E	W	N	S	Z						
496	Nov. 30	h 10	m 11	s 56	m 11	s 56	m 11	s 56	m 12	s 20	m 12	s 19	m 12	s 19	μ 46	μ 50	μ 24	μ 23	m 3	s 48	0	
497	30	18	35	55	—	—	35	53	36	08	36	08	36	09	25	13	12	13	2	23	0	
498	Dec. 2	5	20	24	e 20	26	—	—	20	44	e 20	45	e 20	41	4	3	2	20	—	—	0	
499	2	5	—	—	—	—	—	—	22	25	e 22	30	e 22	24	3	3	2	—	—	—	0	
500	2	6	17	13	e 17	25	17	14	20	31	20	29	e 20	29	16	18	12	137	40	21	0	
501	4	4	56	42	e 56	42	56	42	e 57	56	e 57	55	e 57	55	10	10	16	74	5	15	0	
502	5	e 12	47	30	—	—	e 47	35	47	48	e 47	49	e 47	47	3	3	—	18	2	36	0	
503	5	22	—	—	—	—	—	—	12	29	e 12	29	12	28	4	3	6	—	—	—	0	
504	6	11	16	30	16	29	16	29	17	05	17	03	17	03	90	100	48	34	—	—	0	
505	6	e 11	21	23	e 21	27	e 21	24	21	51	e 21	53	e 21	54	20	15	14	28	3	47	0	
506	6	e 14	57	37	57	29	57	27	—	—	—	—	—	—	—	13	—	—	32	55	0	
507	7	1	42	57	e 42	58	42	55	e 45	10	e 45	06	e 45	01	10	63	6	133	31	24	0	
508	9	15	22	57	22	56	22	54	e 23	19	23	17	e 23	15	16	15	8	20	2	25	0	
509	9	23	22	32	—	—	22	32	22	34	22	36	22	34	27	25	10	3	1	37	0	
510	10	2	16	28	—	—	16	28	16	51	e 16	51	e 16	52	10	5	4	23	2	42	0	
511	13	8	07	45	07	45	07	45	08	46	08	45	08	47	94	55	80	61	9	11	0	
512	14	e 16	18	21	e 18	21	18	20	—	—	24	35	—	—	—	—	—	375	23	05	0	
513	14	18	38	05	—	—	—	—	38	16	38	17	38	15	6	5	9	12	1	37	0	
514	15	e 2	25	37	—	—	e 25	35	e 26	19	e 26	20	e 26	16	3	5	6	42	2	29	0	
515	15	e 2	54	24	—	—	e 54	23	55	18	e 55	18	e 55	16	5	10	6	54	5	15	0	
516	15	6	—	—	—	—	—	—	07	46	—	—	e 07	46	5	—	4	—	—	—	0	
517	15	8	—	—	—	—	—	—	e 49	20	—	—	—	—	1	—	—	—	—	—	0	
518	19	2	24	13	e 24	13	24	12	24	34	e 24	40	24	33	13	10	6	21	2	26	0	
519	19	23	31	49	e 31	49	31	48	32	10	32	10	e 32	10	17	18	20	21	3	28	0	
520	24	4	13	10	e 13	10	13	10	14	10	14	07	14	06	10	10	12	60	5	18	0	
521	24	15	52	06	52	05	52	05	52	54	52	55	52	56	133	115	120	48	6	49	0	
522	24	17	55	50	55	50	e 55	53	56	03	56	05	e 56	04	10	5	6	12	2	18	0	
523	26	e 6	49	45	—	—	—	—	e 50	13	e 50	11	50	11	8	5	6	28	1	59	0	
524	27	13	09	59	—	—	—	—	10	20	10	20	10	21	6	5	8	22	3	02	0	
525	29	14	41	18	41	17	41	18	41	36	41	36	41	40	13	8	12	18	3	18	0	
526	29	17	01	12	—	—	01	09	01	46	e 01	50	e 01	46	14	20	14	34	4	24	0	
527	30	e 5	26	19	—	—	26	19	26	31	26	31	26	33	3	—	6	11	1	26	0	
528	30	9	45	23	e 45	24	e 45	23	e 49	56	e 49	52	—	—	10	200	—	274	101	58	0	
529	30	21	07	22	e 07	27	—	—	08	02	08	01	e 07	59	9	10	12	40	4	00	0	



PULSATORY OSCILLATIONS, 1961. (EW Component.)

International
Seismological
Centre

No.	Beginning			Ending			Maximum				Double Amplitude μ
	Date			Date			Date				
	Month	Day	Hour	Month	Day	Hour	Day	Hour	—	Day	Hour
1	Jan.	3	14	Jan.	8	9	4	15	5	20	20
2		8	9		10	5	8	15	8	23	6
3		10	6		15	1	11	3	12	22	8
4		15	9		20	9	16	9	17	22	6
5		20	9		24	21	21	11	23	1	10
6		25	8		29	1	25	15	27	22	25
7		30	18	Feb.	5	19	31	9	2	3	30
8	Feb.	7	4		11	19	7	13	8	16	60
9		12	8		14	8	12	17	13	6	7
10		14	8		19	21	14	11	16	20	11
11		21	9		24	18	23	9	23	23	8
12		26	9	Mar.	1	23	27	1	28	1	7
13	Mar.	2	4		7	1	3	9	4	6	10
14		7	9		10	1	7	17	8	2	9
15		10	5		13	2	10	9	11	3	5
16		18	17		21	11	18	22	19	9	9
17		23	15		25	9	24	15	25	3	8
18		25	9		26	17	25	16	26	7	8
19		26	17	Apr.	1	17	27	3	29	2	11
20	Apr.	2	17		6	9	4	18	6	4	17
21		6	9		8	3	6	16	7	13	12
22		8	4		10	20	8	20	9	19	25
23		11	17		13	14	12	3	12	17	4
24		15	10		17	9	15	15	16	22	16
25		17	9		19	5	17	21	18	8	10
26		20	17		26	11	21	18	22	20	10
27		27	7		29	11	27	13	28	14	30
28	May	4	8	May	7	5	5	5	6	12	10
29		11	23		14	9	12	7	13	21	18
30		19	9		22	12	20	20	22	6	5
31		23	16		25	18	24	9	25	4	3
32		29	7		30	23	29	13	30	6	25
33	Jun.	9	18	Jun.	12	11	10	1	10	20	8
34		16	22		19	5	17	7	17	23	7
35		27	19	Jul.	5	14	27	21	28	15	8
36	Jul.	7	13		9	9	8	9	8	23	2
37		14	14		16	1	14	17	15	16	3
38		17	22		20	23	18	6	18	12	3
39		23	9		27	18	23	17	24	4	5
40		31	9	Aug.	3	2	31	14	1	2	2
41	Aug.	4	7		8	11	6	9	6	23	9
42		9	7		10	12	9	13	9	23	4
43		18	1		19	3	18	9	18	23	2
44		21	10		23	23	21	17	22	00	2
45		24	9		26	12	25	1	25	18	3
46		26	22		29	13	28	4	28	12	6
47	Sep.	1	9	Sep.	4	1	2	15	3	6	4
48		4	8		6	3	5	1	5	13	4
49		7	13		9	18	8	9	8	22	4
50		10	14		12	23	11	3	11	15	5
51		14	1		16	9	15	9	16	1	3
52		16	9		19	18	16	18	17	22	26
53		23	10		25	19	24	10	25	8	5
54		26	9		27	11	26	11	26	18	4
55		28	7		29	12	28	9	28	19	2
56		29	14	Oct.	5	4	1	16	2	14	11
57	Oct.	5	4		8	17	5	17	7	18	11
58		9	8		12	15	10	3	11	20	100
59		14	5		15	11	14	14	15	3	3
60		18	4		19	8	18	9	18	22	7
61		19	8		21	9	19	20	20	14	12
62		23	2		25	17	23	14	24	2	10
63		26	15		31	18	27	1	30	2	22
64	Nov.	3	10	Nov.	4	21	4	2	4	15	10
65		5	7		8	22	7	9	8	9	14
96		8	22		12	6	9	8	10	7	13
67		12	9		14	18	12	21	13	18	8
68		18	7		21	3	18	12	19	15	40
69		21	5		28	12	22	7	23	23	16
70		28	12	Dec.	1	6	29	2	29	22	10
71	Dec.	2	17		11	9	7	3	9	20	10
72		13	9		17	2	13	21	14	17	13
73		18	2		21	1	18	8	18	22	13
74		21	7		24	9	22	8	23	15	5
75		24	9	Jan. (1962)	1	9	25	6	26	20	15

The Average for the 60 years, (1902-1961)

APPENDIX

The Average for the 60 years,
1902—1961

Month	AIR TEMPERATURE (°C)											
	Maximum			Mean			Minimum			Range		
Year	Max	Min	Range	Max	Min	Range	Max	Min	Range	Max	Min	Range
January	12.1	3.1	9.0	10.1	4.1	6.0	13.1	1.1	12.0	14.1	0.1	14.0
February	12.2	3.2	9.0	10.2	4.2	6.0	13.2	1.2	12.0	14.2	0.2	14.0
March	12.3	3.3	9.0	10.3	4.3	6.0	13.3	1.3	12.0	14.3	0.3	14.0
April	12.4	3.4	9.0	10.4	4.4	6.0	13.4	1.4	12.0	14.4	0.4	14.0
May	12.5	3.5	9.0	10.5	4.5	6.0	13.5	1.5	12.0	14.5	0.5	14.0
June	12.6	3.6	9.0	10.6	4.6	6.0	13.6	1.6	12.0	14.6	0.6	14.0
July	12.7	3.7	9.0	10.7	4.7	6.0	13.7	1.7	12.0	14.7	0.7	14.0
August	12.8	3.8	9.0	10.8	4.8	6.0	13.8	1.8	12.0	14.8	0.8	14.0
September	12.9	3.9	9.0	10.9	4.9	6.0	13.9	1.9	12.0	14.9	0.9	14.0
October	13.0	4.0	9.0	11.0	5.0	6.0	14.0	2.0	12.0	15.0	1.0	14.0
November	13.1	4.1	9.0	11.1	5.1	6.0	14.1	2.1	12.0	15.1	1.1	14.0
December	13.2	4.2	9.0	11.2	5.2	6.0	14.2	2.2	12.0	15.2	1.2	14.0
Annual	13.0	4.0	9.0	11.0	5.0	6.0	14.0	2.0	12.0	15.0	1.0	14.0

The Average for the 60 years, (1902-1961)



GENERAL RESULTS

Month	AIR PRESSURE (1000mb+)								AIR TEMPERATURE (°C)									CLOUD Amount Mean	
	Mean		Absolute (Station pressure)						Mean	Max.	Min.	Range	Absolute						
	Station	M.S.L.	Max.	Day	Year	Min.	Day	Year					Max.	Day	Year	Min.	Day	Year	
January	8.3	16.4	28.4	9	1928	972.8	20	1921	-2.7	1.3	-7.3	8.6	16.6	5	60	-22.6	24	36	7.4
February	8.3	16.3	29.7	24	1911	972.8	20	1955	-2.0	2.3	-6.6	8.9	14.9	23	58	-20.5	2, 23	19, 40	7.5
March	8.6	16.6	31.3	7	1930	974.7	21	1934	1.6	6.4	-2.6	9.0	22.2	23	31	-16.8	3	36	7.2
April	7.6	15.5	28.7	13	1903	966.7	21	1947	8.2	14.2	2.5	11.7	27.3	24, 28	11, 22	-10.3	6	16	6.8
May	5.1	12.7	24.4	5	1905	975.2	9	1954	13.4	19.6	7.5	12.1	30.6	28	61	-2.6	4	10	7.2
June	2.5	10.0	18.0	5	1926	977.7	19	1911	17.8	22.9	13.3	9.6	32.5	10	16	0.4	4	21	7.9
July	2.7	10.1	16.2	31	1934	980.8	27	1904	22.0	26.6	18.3	8.3	37.0	12	24	9.4	20, 8 1, 9	07, 08 15, 26	8.3
August	3.4	10.7	18.5	30	1953	954.4	27	1913	23.4	28.2	19.6	8.6	35.4	7, 9	43	8.9	16	19	7.8
September	6.4	13.8	23.5	30	1956	970.7	23	1912	18.7	23.8	14.6	9.2	33.5	3	03	2.9	30	40	7.9
October	10.3	17.9	28.3	28	1916	958.7	1	1917	12.2	17.8	7.3	10.5	29.4	5	02	-3.6	26	18	6.9
November	11.1	19.0	32.8	30	1913	980.4	27	1908	6.0	11.1	1.5	9.6	22.2	2	20	-9.5	28, 29	51	6.8
December	9.0	17.0	31.9	1	1913	971.0	22	1925	0.3	4.2	-3.5	7.7	18.0	1	53	-17.2	31	54	7.2
Annual	6.9	14.7	32.8	30 XI	1913	954.4	27 VIII	1913	9.9	14.9	5.4	9.5	37.0	12 VII	24	-22.6	24 I	36	7.4

Month	VAPOUR PRESSURE (mb)							HUMIDITY (%)					PRECIPITATION (mm)						DURATION OF SUNSHINE (hour)		
	Mean	Absolute						Mean	Absolute				Mean	Maximum						Mean	%
		Max.	Day	Year	Min.	Day	Year		Min.	Day	Year	in 24h		Day	Year	in 4h	Day	Year			
January	4.1	11.7	31	50	1.1	24, 22 28, 23	36, 40 45, 60	81	39	27, 22	42, 47	65.3	38.5	31	50	23.1	2	16	103.3	34	
February	4.2	12.7	28	12	1.2	8, 23	38, 40	79	35	22	43	57.4	78.3	16	23	25.3	28	15	115.1	38	
March	5.2	14.4	12	60	1.7	21, 3	08, 36	76	24	17	48	68.3	52.7	9	27	26.4	9	57	162.5	44	
April	7.8	18.5	24, 25	22	2.7	6, 2	16, 30	72	21	17, 4	47, 61	89.9	97.2	4	11	30.5	26	37	188.1	47	
May	11.3	23.6	14	36	4.0	2, 3	10	75	19	7, 23	31, 40	100.0	82.6	13	34	111.5	13	34	192.5	43	
June	16.2	29.1	29	35	6.8	3	21	80	26	14	11	121.9	92.5	6	10	48.5	11	49	157.1	35	
July	22.2	34.1	23	50	8.8	9	21	85	26	9	26	168.0	177.6	23	47	70.9	23	47	134.6	30	
August	24.0	35.9	3	52	10.8	3	13	85	33	5	05	137.0	147.1	16	38	145.5	16	38	153.4	36	
September	18.4	31.9	5	49	7.6	30	40	85	30	17	33	163.4	246.9	16	48	124.8	16	38	121.5	33	
October	11.8	26.3	2	41	4.6	25	61	83	25	29	61	109.0	101.9	3	43	43.0	8	15	134.8	39	
November	7.6	19.9	2	34	2.8	28, 25	14, 21	81	33	2	20	79.7	58.4	24	11	53.5	24	11	116.1	38	
December	5.2	15.6	17	29	1.8	25	52	81	30	4	08	74.3	39.5	21	25	21.5	3	59	98.0	33	
Annual	11.5	35.9	3 VIII	52	1.1	24, 22 28, 23	36, 40 45, 60	80	19	7, 23 V	31, 40	1234.2	246.9	16 IX	48	145.5 VIII	16	38	139.8	38	

Month	WIND										NO. OF DAYS WITH										
	Velocity (m.p.s.)					Resultants					Clear	Cloudy	Precipitation 0.1 in	Snow	Snow pellets, Ice pellets, Hail	Fog	Hoar-frost	Thunder storm	Gale	Sunless 1906-1961	Felt earthquake
	Mean	Max.	Dir.	Day	Year	Dir.	Vel.	Dir.	%												
January	2.8	23.7	WNW	30	42	N 34° W	1.6	N 26° W	38	0.6	16.1	21.7	22.3	1.0	1.3	8.5	—	5.9	4.2	1.3	
February	2.8	21.6	WNW	23	55	N 32° W	1.5	N 28° W	38	0.7	14.6	19.1	19.4	0.6	0.9	7.4	—	4.7	3.4	1.2	
March	3.1	27.1	W	7	45	N 45° W	1.4	N 41° W	33	1.3	14.7	17.9	14.4	0.8	0.7	9.2	0.0	6.4	4.1	2.1	
April	3.5	29.2	SSE	3	21	N 83° W	0.9	N 81° W	19	2.3	13.1	14.0	2.6	0.5	1.0	7.1	0.3	7.8	3.8	1.2	
May	3.1	24.4	W	18	08	S 44° W	0.7	S 43° W	15	2.0	16.0	13.3	0.0	0.1	1.6	1.4	1.1	5.1	4.3	1.1	
June	2.5	19.5	ESE	25	46	S 11° W	0.8	S 11° W	22	1.0	19.0	14.7	—	0.1	1.7	0.0	1.1	1.2	5.9	1.6	
July	2.2	16.3	SSE	23	58	S 90° W	1.0	S	29	0.5	21.5	17.2	—	—	2.7	—	1.5	0.5	6.3	1.0	
August	2.1	20.3	S	16	11	S 5° E	1.0	S 2° E	32	0.6	18.5	15.4	—	—	3.9	—	2.1	0.6	3.8	1.2	
September	2.0	29.7	S	23	12	S 20° W	0.4	S 45° W	10	0.9	18.8	16.5	—	—	4.3	0.1	1.2	1.6	6.0	1.2	
October	1.9	19.3	SSE	8	44	N 50° W	0.5	N 39° W	18	2.3	14.3	15.6	0.1	0.1	6.0	3.3	0.5	1.4	5.6	1.5	
November	2.5	21.0	WNW	7	43	N 40° W	1.1	N 30° W	28	2.1	11.8	17.0	4.1	0.9	3.4	10.5	0.3	3.9	3.9	1.7	
December	2.7	30.0	WNW	9	40	N 34° W	1.5	N 25° W	36	1.0	14.0	20.7	16.7	1.4	1.7	12.0	0.2	5.2	4.9	1.4	
Annual	2.6	30.0	WNW	9 XII	40	N 70° W	0.6	N 65° W	12	15.3	192.4	203.1	79.6	5.5	29.2	59.5	8.3	44.3	56.2	16.5	

The Average for the 60 years, (1902-1961)



Month Hour	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
STATION PRESSURE (1000 mb+)													
2	8.2	8.2	8.5	7.7	5.2	2.6	2.7	3.4	6.3	10.2	11.1	8.9	6.9
6	8.3	8.4	8.9	8.2	5.8	3.1	3.1	3.9	6.8	10.6	11.3	9.1	7.3
10	9.1	9.0	9.2	8.2	5.5	2.9	3.1	3.9	7.0	10.9	11.8	9.9	7.5
14	7.2	7.2	7.5	6.5	3.9	1.6	2.0	2.5	5.4	9.1	10.0	7.9	5.9
18	8.3	8.2	8.3	6.9	4.3	1.9	2.1	2.8	5.9	10.0	11.1	8.9	6.6
22	8.5	8.6	9.1	8.1	5.6	3.0	3.2	4.0	6.8	10.7	11.4	9.1	7.4
Mean	8.3	8.3	8.6	7.6	5.1	2.5	2.7	3.4	6.4	10.3	11.1	9.0	6.9
SEA LEVEL PRESSURE (1000 mb+)													
2	16.4	16.4	16.6	15.6	12.9	10.1	10.3	10.8	13.8	18.0	19.0	17.0	14.7
6	16.4	16.5	16.9	16.1	13.5	10.6	10.6	11.3	14.3	18.4	19.2	17.1	15.1
10	17.2	17.0	17.2	15.9	13.0	10.3	10.4	11.2	14.3	18.5	19.7	17.8	15.2
14	15.2	15.2	15.4	14.6	11.4	9.0	9.2	9.7	12.7	16.6	17.7	15.8	13.5
18	16.4	16.2	16.3	14.6	11.8	9.3	9.4	10.1	13.4	17.6	18.9	16.9	14.2
22	16.7	16.7	17.1	15.9	13.3	10.5	10.6	11.3	14.4	18.4	19.3	17.2	15.1
Mean	16.4	16.3	16.6	15.5	12.7	10.0	10.1	10.7	13.8	17.9	19.0	17.0	14.7
AIR TEMPERATURE (°C)													
2	-4.2	-3.8	-0.6	4.7	9.4	14.6	19.4	20.7	16.3	9.6	3.9	-1.2	7.4
6	-4.8	-4.5	-1.2	4.3	9.8	15.5	19.6	20.7	15.9	8.8	3.3	-1.4	7.1
10	-2.0	-1.1	3.1	10.5	15.9	19.5	23.4	25.0	20.6	13.8	7.2	1.1	11.4
14	0.0	1.0	5.2	13.1	18.4	21.9	25.6	27.2	22.8	16.9	9.9	2.9	13.7
18	-2.1	-1.1	2.6	9.9	15.3	19.6	23.4	24.8	19.5	13.2	6.7	0.7	11.1
22	-3.4	-2.7	0.7	6.7	11.5	16.3	20.6	21.7	17.2	10.7	4.8	-0.5	8.7
Mean	-2.7	-2.0	1.6	8.2	13.4	17.8	22.0	23.4	18.7	12.2	6.0	0.3	9.9
VAPOUR PRESSURE (mb)													
2	4.0	4.6	5.1	7.5	10.6	15.5	21.4	23.2	17.5	11.3	7.4	5.0	11.1
6	3.8	3.9	4.9	7.3	10.8	15.7	21.5	23.2	17.2	10.9	7.4	4.9	11.0
10	4.2	4.3	5.3	8.0	11.6	16.4	22.4	24.3	18.8	12.1	7.8	5.1	11.7
14	4.3	4.4	5.5	8.2	11.8	16.8	23.0	24.6	18.9	12.3	8.0	5.4	11.9
18	4.2	4.4	5.4	8.2	11.7	16.7	23.0	24.8	19.2	12.5	8.0	5.3	12.0
22	4.1	4.3	5.3	7.9	11.3	16.2	22.1	23.8	18.3	11.8	7.6	5.1	11.5
Mean	4.1	4.2	5.2	7.8	11.3	16.2	22.2	24.0	18.4	11.8	7.6	5.2	11.5
RELATIVE HUMIDITY (%)													
2	86	86	85	85	89	92	95	95	95	92	88	87	90
6	87	87	86	86	87	91	94	95	95	93	89	87	90
10	78	74	69	63	65	73	78	77	77	76	76	78	74
14	70	67	62	55	57	65	71	69	69	64	65	71	65
18	79	77	72	65	67	74	80	81	84	81	79	81	77
22	84	83	80	78	82	87	91	92	92	90	86	85	86
Mean	81	79	76	72	75	80	85	85	85	83	81	81	80
AMOUNT OF CLOUD (0-10)													
2	7.2	7.2	6.8	6.2	6.8	7.7	8.3	7.9	7.8	6.6	6.4	7.0	7.2
6	7.7	7.8	7.6	7.2	7.6	8.5	9.1	9.0	8.7	7.8	7.3	7.6	8.0
10	7.8	7.8	7.5	7.0	7.4	8.0	8.5	8.0	7.9	7.1	7.1	7.6	7.6
14	7.9	7.9	7.5	7.1	7.4	8.0	8.3	7.5	8.0	7.1	7.2	7.7	7.6
18	7.0	7.3	7.1	7.1	7.4	7.9	8.2	7.7	7.9	6.3	6.0	6.7	7.2
22	6.8	6.8	6.4	6.0	6.4	7.1	7.7	7.0	7.3	6.3	6.2	6.7	6.7
Mean	7.4	7.5	7.2	6.8	7.2	7.9	8.3	7.8	7.9	6.9	6.8	7.2	7.4

The Average for the 60 years, (1902-1961)



Hour	Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual			
AMOUNT OF PRECIPITATION (mm)																	
2		11.8	10.0	11.7	16.7	15.9	19.1	27.1	19.0	25.8	18.1	14.9	13.1	16.9			
6		11.9	11.3	12.1	15.8	14.6	20.2	33.4	25.3	28.4	17.6	13.9	12.4	18.1			
10		11.6	10.1	11.0	14.1	14.3	20.4	24.3	22.9	25.3	16.9	12.6	12.1	16.3			
14		8.8	8.8	10.5	13.5	15.4	20.0	25.1	20.8	25.7	16.7	12.0	10.5	15.7			
18		9.9	8.3	12.0	14.7	19.5	21.3	33.1	26.5	31.9	18.7	13.3	12.5	18.5			
22		11.3	8.9	10.9	15.2	20.4	20.8	24.9	22.4	26.2	21.0	13.0	13.7	17.4			
Mean		65.3	57.4	68.3	89.9	100.0	121.9	168.0	137.0	163.4	109.0	79.7	74.3	102.8			
NUMBER OF MEAN DAYS WITH PRECIPITATION (Separated by Amount)																	
0.0 mm		3.5	3.1	3.3	1.9	1.9	1.7	2.0	2.3	2.0	1.8	2.6	3.3	29.4			
0.1 mm		9.0	8.6	7.6	4.6	3.9	4.1	5.0	5.2	4.5	5.4	6.5	7.5	72.1			
1.0 mm		11.1	9.3	8.2	6.3	6.2	6.7	7.2	6.5	6.9	6.9	8.3	11.3	95.0			
10.0 mm		1.4	1.0	1.8	2.7	2.4	3.1	3.4	2.8	3.8	2.8	1.9	1.9	28.8			
30.0 mm		0.1	0.1	0.2	0.3	0.6	0.5	1.0	0.6	0.9	0.6	0.3	0.1	5.2			
50.0 mm		—	0.1	0.1	0.1	0.1	0.4	0.6	0.4	0.4	0.1	0.0	—	2.3			
Sum		25.1	22.2	21.2	15.9	15.1	16.5	19.2	17.8	18.5	17.6	19.6	24.1	232.8			
AMOUNT OF EVAPORATION (mm) (1906-1961)																	
Mean		1.7	1.9	2.5	3.8	4.4	4.4	4.3	4.4	3.1	2.2	1.7	1.5	3.0			
VELOCITY OF WIND (m.p.s.)																	
2		2.4	2.5	2.4	2.3	1.8	1.5	1.3	1.3	1.3	1.4	2.0	2.3	1.9			
6		2.4	2.3	2.4	2.1	1.7	1.4	1.3	1.2	1.3	1.3	1.9	2.4	1.8			
10		2.7	2.7	3.3	3.9	3.4	2.5	2.2	2.1	2.2	2.1	2.6	2.7	2.7			
14		3.6	3.7	4.5	5.4	4.9	3.8	3.2	3.2	3.1	3.2	3.7	3.5	3.8			
18		3.0	3.0	3.5	4.3	4.3	3.8	3.2	2.9	2.4	2.2	2.5	2.7	3.2			
22		2.6	2.5	2.7	2.8	2.4	2.3	2.1	1.9	1.6	1.5	2.1	2.4	2.3			
Mean		2.8	2.8	3.1	3.5	3.1	2.5	2.2	2.1	2.0	1.9	2.5	2.7	2.6			
NO. OF OBSERVATIONS OF WIND FROM																	
Dir.	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Calm
Month																	
January	25.4	7.5	7.9	3.4	6.6	3.1	5.4	5.4	8.2	3.3	3.2	2.8	11.8	13.5	24.3	27.7	26.5
February	23.5	7.1	6.6	3.3	4.8	2.9	5.0	5.2	7.8	3.5	3.0	3.1	10.3	12.1	23.3	25.6	22.6
March	23.7	6.7	5.1	2.9	4.9	2.6	5.2	8.5	14.0	6.0	4.4	4.6	10.7	14.5	26.4	26.2	19.9
April	17.4	5.1	4.6	2.2	3.8	2.4	6.1	14.1	24.4	8.2	6.2	5.5	13.3	11.0	18.8	19.8	17.4
May	15.7	4.9	5.3	2.3	4.0	2.4	8.3	19.4	32.8	10.3	6.1	4.6	9.6	8.5	14.8	15.6	21.5
June	14.2	5.2	4.3	1.8	3.0	2.3	8.3	22.8	39.6	12.9	5.2	3.1	6.0	4.4	10.1	14.3	22.6
July	13.6	5.1	4.4	2.0	3.8	2.1	9.2	25.4	43.9	14.6	6.0	2.8	4.2	3.3	7.3	10.7	27.8
August	11.7	3.9	2.9	1.8	3.4	2.9	12.1	27.7	40.4	12.8	5.7	2.8	4.5	3.3	7.9	9.5	33.1
September	16.1	5.3	3.6	1.9	3.6	2.9	8.8	17.0	27.1	8.8	5.3	2.9	6.2	6.3	13.9	15.7	34.9
October	21.2	6.8	5.6	2.3	4.2	3.4	6.3	11.2	17.5	6.4	4.7	3.4	6.8	8.2	19.3	22.0	36.8
November	23.7	7.3	5.9	2.8	5.1	3.6	5.8	8.1	12.9	4.6	4.4	3.3	8.6	9.8	22.6	22.6	29.1
December	25.9	9.2	7.3	3.5	5.6	3.4	6.0	5.9	8.9	4.0	3.8	2.4	10.0	12.5	24.7	25.8	27.3
Mean	19.3	6.2	5.3	2.5	4.4	2.8	7.2	14.2	23.1	8.0	4.8	3.4	8.5	9.0	17.8	19.6	26.6
MONTHLY MEAN VELOCITY (m.p.s.) OF WIND FROM																	
Dir.	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
Month																	
January	3.4	2.6	2.1	1.9	1.7	1.6	1.8	2.7	3.0	2.1	2.1	2.7	3.6	4.4	4.1	4.0	
February	3.3	2.8	2.2	2.0	1.7	1.6	1.9	2.8	3.0	2.5	2.0	2.7	3.2	4.3	4.1	3.9	
March	3.4	2.6	1.8	1.6	1.6	1.8	2.8	3.5	3.4	2.8	2.3	3.3	3.7	4.8	4.4	4.2	
April	3.4	2.5	2.1	1.8	1.7	2.0	3.4	4.6	4.2	3.1	2.9	4.4	4.6	4.9	4.6	4.4	
May	3.0	2.3	1.9	1.8	1.6	2.2	3.2	4.4	4.0	3.0	2.4	3.4	3.9	4.1	4.0	3.8	
June	2.7	2.1	1.6	1.6	1.2	1.9	3.0	3.6	3.4	2.7	2.0	2.4	2.6	3.0	2.9	3.3	
July	2.3	1.8	1.5	1.3	1.2	1.9	2.6	3.2	3.1	2.6	2.0	2.4	2.3	2.0	2.2	2.6	
August	2.1	1.8	1.4	1.4	1.2	2.4	2.9	3.2	3.0	2.6	2.0	2.4	2.3	2.0	2.1	2.5	
September	2.3	1.8	1.4	1.4	1.3	1.9	2.9	3.5	2.9	2.2	1.8	1.9	1.7	1.6	2.1	2.5	
October	2.3	1.8	1.5	1.3	1.3	1.6	2.0	2.9	2.8	2.0	1.2	2.4	2.3	3.0	2.9	2.8	
November	2.9	2.2	1.7	1.6	1.4	1.4	1.9	3.0	3.0	2.6	2.0	2.4	3.0	4.2	4.0	3.6	
December	3.2	2.7	2.0	1.8	1.6	1.5	1.6	2.7	2.9	2.1	1.8	2.4	3.4	4.6	4.4	3.8	
Mean	2.9	2.3	1.8	1.6	1.5	1.8	2.5	3.3	3.2	2.5	2.0	2.7	3.0	3.6	3.5	3.5	



The Average for the 60 years, (1902-1961)

MEAN DIRECTION AND VELOCITY (m.p.s.) OF WIND

Year	Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1902		N30° w2.3	N55° w1.2	N43° w1.5	N78° w2.2	S66° w1.2	S27° w1.2	S15° w1.1	S17° w0.8	S 4° w1.2	N47° w0.7	N31° w1.2	N27° w2.3	N71° w0.9
03		N31° w1.8	N29° w2.1	N44° w1.4	S67° w0.7	S67° w0.9	S34° w0.9	S45° w0.6	S42° w0.4	S40° w0.6	N38° w0.5	N53° w0.8	N63° w1.4	N69° w0.7
04		N59° w1.1	N59° w1.6	N62° w2.3	S84° w0.9	S29° w1.0	S43° w0.8	S15° w1.5	S30° w0.5	S71° w0.4	N32° w1.2	N38° w1.1	N42° w1.6	N79° w0.8
05		N31° w1.6	N43° w2.0	N59° w1.2	N60° w1.5	S34° w1.2	S22° w0.9	S12° w1.5	S16° w0.9	S42° w0.4	N61° w0.3	N33° w1.4	N41° w1.6	N75° w0.7
06		N37° w2.2	N35° w2.3	N44° w1.8	N51° w1.5	S82° w1.0	S16° w0.9	S 7° w0.2	S21° w1.0	S73° w0.3	N88° w0.6	N36° w1.8	N47° w1.3	N67° w0.9
07		N26° w1.8	N35° w1.5	N51° w1.0	N75° w1.1	S54° w1.0	S69° w0.5	S15° w1.2	S12° E 2.3	W 0.4	N54° w0.9	N35° w1.5	N53° w2.0	N73° w0.7
08		N34° w1.8	N39° w1.6	N59° w1.7	N58° w1.2	S69° w0.8	S16° w0.7	S 5° w1.3	S 3° w1.7	S24° w0.4	N58° w0.6	N52° w1.7	N48° w3.0	N73° w0.9
09		N29° w2.5	N44° w1.8	N47° w1.5	S15° w1.0	N81° w0.7	S18° w1.3	S18° w0.9	S 2° w1.4	S88° w0.4	N43° w1.2	N60° w1.2	N27° w2.1	N67° w0.8
10		N31° w1.9	N37° w1.7	N54° w1.8	N72° w1.2	W 0.8	S21° w1.0	S 6° w1.2	S21° E 0.6	N48° w0.5	N33° w0.9	N39° w1.5	N33° w2.2	N56° w0.9
11		N34° w2.2	N35° w2.2	N27° w2.5	N48° w1.6	S42° w1.0	S28° w0.8	S35° w0.9	S10° w1.5	S29° w0.5	N56° w0.7	N45° w0.9	N23° w2.1	N58° w0.9
12		N14° w2.1	N15° w1.6	N19° w2.4	N50° w1.4	S28° w0.8	S13° w0.5	S36° w0.8	S32° w0.8	S75° w0.1	N27° w0.5	N 4° w1.5	N17° w1.6	N34° w0.8
13		N47° w1.8	N47° w2.0	N66° w1.6	S87° w0.8	N85° w0.7	S11° w0.8	S 3° E 1.0	S23° E 0.6	S31° w0.4	N53° w0.8	N59° w1.5	N66° w1.1	N74° w0.7
14		N69° w0.9	N48° w1.4	N73° w1.3	N50° w1.5	S29° w0.9	S43° w0.7	S 6° w0.6	S 1° E 0.9	S 2° w0.8	N59° w0.4	N85° w0.4	N40° w1.0	W 0.5
15		N54° w1.9	N52° w1.5	N59° w1.5	S77° w1.4	S80° w0.7	S 4° E 0.7	S 5° w1.2	S18° E 1.5	S18° E 0.8	N63° w0.6	N52° w1.0	N49° w1.4	W 0.6
16		N29° w1.8	N40° w1.8	N59° w1.2	S70° w0.8	S36° w0.9	S 3° E 1.7	S 4° E 1.4	S16° E 0.9	S24° w0.2	N59° w0.5	N20° w1.1	N36° w1.7	N80° w0.5
17		N47° w1.0	N29° w1.4	N33° w0.9	S75° w0.8	S48° w0.5	S21° w0.8	S 2° w1.0	S12° E 1.2	S 5° w0.7	N69° w0.3	N43° w0.8	N36° w0.7	S85° w0.4
18		N55° w0.8	N39° w1.3	N50° w1.3	S35° w0.7	S36° w1.0	S 3° w1.1	S 3° E 1.2	S 2° E 0.9	S12° E 0.6	N22° w0.3	N30° w1.0	N38° w1.6	S83° w0.4
19		N56° w1.4	N31° w1.3	N60° w1.5	S80° w1.0	S 8° w0.6	S 1.2	S15° E 1.4	S 4° w0.6	S43° E 0.4	N60° w0.3	N40° w0.5	N38° w1.6	N89° w0.4
20		N51° w1.3	N35° w1.6	N71° w0.7	N82° w0.8	N59° E 0.4	S 4° w1.0	S 3° w1.0	S19° E 2.0	S14° w0.5	N84° w0.5	N46° w1.1	N42° w1.5	N89° w0.4
21		N32° w1.4	N45° w1.4	N49° w1.5	S16° w0.9	S12° w0.8	S 9° E 1.0	S17° E 1.2	S23° E 0.8	S17° w0.3	N26° w0.8	N46° w1.0	N36° w1.5	N77° w0.4
22		N24° w1.6	N20° w1.0	N19° w1.2	N83° w0.7	S26° w0.7	S 8° w0.8	S 1° E 1.3	S16° w0.4	S11° w0.7	S60° w0.2	N38° w1.3	N25° w1.7	N64° w0.4
23		N41° w1.1	N24° w0.8	N43° w1.2	N83° w1.0	S24° w1.1	S66° w0.2	S 4° E 0.7	S 4° w1.1	S54° E 0.1	N53° w0.7	N48° w1.6	N33° w1.8	N67° w0.6
24		N33° w1.9	N28° w2.1	N17° w1.9	S37° w0.8	S80° w0.9	S 6° w1.2	S 7° w0.8	S19° w0.7	N88° w0.3	N42° w0.4	N44° w1.1	N20° w1.9	N53° w0.7
25		N25° w2.0	N26° w1.6	N54° w1.7	N44° w1.0	S15° w0.6	S 4° w1.4	S 9° w1.5	S 4° E 2.2	N88° w0.3	N23° w0.8	N44° w1.8	N45° w1.1	N73° w0.6
26		N40° w1.6	N39° w2.2	N46° w1.7	N53° w1.9	S24° w0.9	S10° w1.1	S45° w0.5	S 3° w0.9	S63° w0.7	N45° w0.9	N19° w1.6	N39° w1.7	N60° w0.9
27		N21° w1.8	N28° w2.0	N28° w2.2	N25° w0.9	S84° w0.7	S39° w0.7	S 0.8	S 6° E 0.7	N35° w0.3	N30° w0.4	N19° w1.4	N17° w1.7	N36° w0.8
28		N16° w1.2	N22° w2.0	N35° w1.8	N42° w1.2	S23° w1.4	S 3° E 1.1	S 3° E 1.1	S 8° E 1.1	S 6° w1.0	N16° w0.6	N28° w1.3	N14° w2.4	N50° w0.5
29		N14° w2.6	N10° w1.5	N33° w1.4	N56° w0.8	S12° w0.4	S 8° w0.8	S11° w0.8	S14° w0.8	S58° w0.1	N40° w0.2	N 8° w0.8	N 1° E 1.8	N30° w0.5
30		N 5° w2.4	N22° w2.2	N15° w1.5	N33° w0.8	S63° w0.6	N25° w0.4	S 1° w1.0	S 1° w1.5	N37° w0.4	N25° w0.8	N58° w0.6	N18° w1.8	N31° w0.7
31		N13° w2.2	N15° w1.7	N36° w2.0	N58° w1.0	N69° w0.6	S16° w1.3	S51° w0.5	S 8° w0.8	S22° E 0.3	N47° w0.6	N46° w0.8	N22° w2.0	N43° w0.7
32		N20° w1.4	N10° w1.7	N29° w1.8	N76° w1.2	S54° w0.9	S 7° E 1.6	S 3° w0.3	S 1.7	N33° w0.1	N42° w0.2	N36° w1.0	N32° w1.9	N57° w0.5
33		N34° w1.3	N31° w1.3	N30° w1.8	S80° w0.6	S 1° w1.0	S 3° E 0.8	S 6° E 1.0	S18° E 1.1	S 6° w0.3	N31° w1.0	N31° w1.2	N23° w1.8	N54° w0.4
34		N25° w1.0	N19° w1.7	N61° w1.1	N80° w1.4	S36° w0.3	S18° w0.5	S 5° E 1.2	S16° E 0.3	S16° E 0.6	N72° w0.3	N87° w0.6	N39° w1.5	N72° w0.5
35		N32° w1.6	N34° w1.1	N59° w1.8	S59° w0.8	S34° w0.9	S24° w0.9	S 8° E 0.6	S 3° E 1.0	S25° E 0.2	S36° w0.2	N31° w1.6	N27° w1.3	N74° w0.5
36		N39° w1.8	N32° w1.8	N41° w1.3	N73° w1.0	S 8° w0.7	S15° w0.7	S 8° E 0.3	S 3° E 0.6	S18° w0.6	N57° w0.8	N39° w0.9	N13° w1.1	N58° w0.6
37		N20° w1.8	N11° w1.4	N36° w1.6	N61° w0.9	S83° w0.6	S20° w0.6	S 2° w1.4	S 2° E 0.3	S81° w0.2	N25° w0.3	N 6° w1.0	N18° w1.1	N42° w0.5
38		N31° w1.1	N22° w0.7	N42° w1.4	S79° w0.8	S 1° E 0.3	S21° w0.6	S23° E 0.7	S34° E 1.9	S18° E 0.7	N20° E 0.6	N11° E 1.1	N 2° E 1.6	N19° w0.2
39		N10° E 1.8	N 4° E 1.9	N26° w1.6	N83° w1.0	S60° w0.5	S 2° w1.2	S 9° w0.7	S13° E 1.4	S 0.7	N39° w0.4	N38° w0.6	N32° w1.1	N47° w0.3
40		N16° w1.6	N32° w1.7	N35° w2.1	S85° w1.6	S55° w1.0	S13° w0.6	S20° w0.6	S 2° w1.5	N40° w0.4	N79° w0.4	N45° w0.7	N28° w1.5	N63° w0.7
41		N23° w1.3	N22° w1.9	N43° w1.5	N81° w0.9	S74° w0.8	S53° w0.9	S21° w0.9	S 9° w1.4	S49° w0.3	S66° w0.1	N13° w0.8	N36° w1.4	N71° w0.7
42		N38° w1.6	N28° w1.0	N53° w1.2	S88° w2.0	N77° w1.1	S30° w0.6	S 2° w0.5	S 2° E 0.6	S17° w0.1	N35° w0.8	N58° w1.4	N40° w1.2	N66° w0.7
43		N59° w2.0	N41° w1.6	N49° w2.1	N89° w0.7	S68° w0.6	S 3° E 1.4	S12° E 2.4	S10° E 1.0	S 6° E 0.7	N41° w0.8	N59° w0.8	N35° w2.0	N85° w0.6
44		N30° w2.1	N43° w1.6	N45° w1.8	N63° w1.0	S29° w0.9	S15° w0.5	S 1° E 1.2	S18° E 0.9	S22° w0.5	S74° w0.3	N46° w1.3	N42° w1.2	N69° w0.6
45		N32° w1.2	N39° w2.2	N65° w1.3	N70° w0.7	N88° w0.4	S 9° E 1.1	S 5° E 1.1	S 9° E 1.3	S21° w0.4	N54° w0.3	N59° w1.4	N47° w1.4	N78° w0.5
46		N48° w1.2	N33° w1.6	N63° w1.8	N84° w0.9	S11° w0.9	S 8° E 1.0	S24° E 1.1	S15° E 1.4	S44° w0.4	N75° w0.5	N59° w0.8	N49° w1.3	S88° w0.5
47		N44° w1.5	N43° w1.6	N69° w1.2	S79° w1.9	S57° w0.7	S 2° E 0.5	S17° E 1.0	S13° E 0.6	S48° w0.3	N81° w0.6	N65° w1.7	N49° w1.5	N81° w0.7
48		N65° w1.1	N49° w2.0	N71° w1.3	S73° w0.8	S22° w0.9	S17° E 0.7	S15° E 1.0	S28° E 0.9	S58° w0.3	S84° w0.5	N57° w1.5	N51° w1.5	N88° w0.6
49		N55° w1.0	N61° w1.5	N62° w2.2	N64° w1.3	S18° w0.8	S21° E 1.3	S30° E 0.7	S31° E 1.7	S25° E 0.7	S88° w0.5	N44° w1.4	N38° w1.8	N86° w0.5
50		N50° w2.1	N54° w1.8	N66° w1.2	N71° w1.0	S 8° w1.0	S36° w0.2	S10° E 0.9	S30° E 1.8	S22° E 1.4	N52° w0.7	N65° w0.8	N65° w1.1	S84° w0.5
51		N42° w1.9	N52° w1.3	N59° w1.6	N86° w1.7	S33° w0.7	S 4° w0.5	S14° E 0.8	S22° E 0.8	S69° w0.5	N48° w0.8	N58° w1.2	N48° w1.4	N74° w0.7
52		N52° w1.7	N49° w1.7	N46° w1.9	S87° w1.3	S65° w0.9	S 1° E 0.6	S19° E 1.3	S 9° E 0.9	S12° E 0.3	N52° w0.4	N48° w1.4	N46° w1.4	N75° w0.7
53		N62° w1.5	N48° w1.3	N64° w1.5	S80° w1.8	S 2° w1.0	S 3° w0.7	S23° E 1.6	S 5° w0.6	S15° w0.5	N69° w0.2	N53° w1.6	N51° w1.7	S88° w0.6
54		N39° w1.9	N34° w1.5	N58° w1.7	N74° w1.1	S22° w1.3	S 3° E 0.6	S10° E 1.4	S23° E 1.5	S17° E 1.2	N45° w0.8	N32° w1.0	N40° w1.7	N83° w0.5
55		N32° w1.3	N27° w1.8	N26° w1.3	N66° w1.0	S24° w0.6	S 2° w0.6	S 8° w1.4	S 6° w1.5	N71° w0.7	N37° w0.7	N30° w0.7	N11° w2.0	N56° w0.5
56		N18° w1.2	N11° w1.2	N30° w1.4	N86° w1.0	S35° w1.4	S30° w0.4	S 1° w1.7	S17° w0.7	S29° w0.4	N64° w0.1	N13° w1.5	N 5° E 1.2	N63° w0.4
57		N11° w2.2	N19° w2.0	N25° w2.0	S79° w1.4	S34° w0.8	S 7° w1.1	S15° E 1.1	S 2° E 1.4	S38° w0.5	S80° w0.3	N39° w1.3	N36° w1.3	N63° w0.5
58		N58° w1.9	N49° w1.4	N73° w1.1	W 1.1	S84° w0.5	S 6° w0.8	S13° E 1.7	S 1° E 1.3	N72° w0.4	S55° w0.4	N24° w0.1	N34° w1.6	N85° w0.6
59		N52° w1.5	N29° w1.3	N72° w1.2	S31° w1.8	S50° w0.6	S19° E 1.1	W 0.8	S17° E 1.2	S10° w1.0	N54° w0.4	N41° w1.1	N29° w1.6	S79° w0.5
60		N46° w2.0	N41° w1.1	N44° w1.7	S64° w1.3	S13° w1.3	S 3° w1.2	S43° w0.5	S15° E 1.0	S16° w0.6	N29° w1.2	N46° w1.3	N43° w1.2	N79° w0.6
61		N47° w1.8	N58° w2.1	N45° w1.1	S64° w1.7	S41° w1.2	S 7° w1.2	S 8° E 1.2	S10° E 0.1	S 9° E 1.1	N38° w0.8	N54° w0.9	N49° w1.0	S79° w0.6
Mean		N34° w1.6	N32° w1.5	N45° w1.4	N83° w0.9	S44° w0.7	S11° w0.8	S90° w1.0	S 5° E 1.0	S20° w0.4	N50° w0.5	N40° w1.1	N34° w1.5	N70° w0.6

The Average for the 60 years, (1902-1961)

MEAN DIRECTION AND FREQUENCY OF WIND

Year	Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1902		N26°W41	N53°W26	N51°W31	S89°W36	S44°W27	S31°W33	S17°W33	S22°W32	S10°W29	N43°W22	N34°W28	N17°W39	N87°W17
03		N34°W41	N30°W50	N43°W31	S65°W18	S48°W23	S25°W29	S36°W17	S37°W14	S48°W25	N39°W16	N45°W16	N62°W28	N78°W17
04		N67°W22	N57°W35	N66°W49	S79°W22	S29°W28	S41°W17	S22°W32	S34°W20	S88°W13	N33°W33	N41°W27	N39°W35	N82°W20
05		N41°W40	N50°W42	N61°W29	N66°W23	S53°W24	S27°W32	S17°W41	S19°W39	S74°W10	N56°W15	N33°W37	N47°W31	N85°W19
6		N34°W46	N36°W54	N46°W31	N67°W26	S65°W26	S24°W28	S15°W52	S26°W37	N61°W13	N74°W18	N39°W33	N36°W27	N78°W20
7		N33°W47	N41°W38	N41°W29	S86°W24	S54°W23	S54°W15	S17°W37	S10°W61	N71°W24	N42°W23	N31°W42	N31°W27	N75°W17
8		N28°W43	N44°W33	N80°W33	N64°W26	S65°W18	S10°W23	S6°W49	S5°W44	N72°W15	N57°W17	N47°W37	N42°W43	N83°W18
9		N29°W62	N40°W36	N50°W38	S54°W19	N89°W21	S11°W41	S22°W26	S10°W46	S83°W12	N42°W32	N68°W19	N20°W55	N72°W19
10		N25°W52	N38°W36	N54°W48	N78°W25	S87°W17	S28°W29	S12°W39	S16°E21	S41°W21	N32°W48	N34°W42	N29°W51	N61°W22
11		N22°W59	N27°W59	N25°W61	N44°W32	S32°W30	S31°W20	S48°W27	S21°W43	S33°W21	N49°W30	N32°W24	N12°W44	N55°W22
12		N33	N11°W40	N2°W43	N38°W23	S27°W17	S18°W10	S29°W26	S44°W33	N38°W4	N11°W15	N4°E41	N11°W38	N27°W15
13		N46°W49	N40°W56	N52°W38	N75°W17	S89°W10	S26°W17	S1°W29	S29°E22	S51°W11	N66°W29	N54°W28	N53°W32	N69°W18
14		N46°W21	N48°W45	N72°W26	N33°W33	S26°W21	S22°W20	S2°E15	S12°W25	S12°W18	N50°W17	N75°W9	N27°W30	N81°W13
15		N45°W34	N36°W35	N36°W25	S71°W24	S67°W10	S4°W23	S2°W44	S10°E40	S7°E19	N70°W14	N51°W24	N41°W28	S79°W11
16		N16°W38	N32°W43	N41°W31	S52°W14	S42°W19	S2°E41	S6°E45	S13°E29	S39°W8	N83°W8	N20°W45	N32°W45	N75°W10
17		N31°W29	N27°W47	N29°W26	S60°W16	S72°W13	S22°W23	S2°W26	S12°E44	S14°W22	S41°W5	N38°W24	N23°W28	N89°W9
18		N28°W20	N33°W38	N45°W36	S53°W20	S34°W26	S5°E34	S6°E35	S8°W32	S47°W8	N4°W18	N27°W38	N41°W42	N83°W11
19		N54°W53	N30°W40	N50°W38	S70°W24	S28°W14	S6°W43	S18°E51	S8°W25	N10°W1	N30°W18	N25°W24	N30°W53	N77°W14
20		N37°W40	N27°W62	N70°W31	N79°W28	N54°E9	S13°W36	S5°W44	S19°E62	S35°W22	S86°W17	N39°W33	N41°W53	N85°W15
21		N23°W51	N34°W51	N47°W51	S27°W27	S16°W25	S1°W35	S17°E45	S23°E39	S55°W12	N22°W48	N37°W31	N19°W46	N64°W13
22		N16°W50	N12°W37	N11°W38	N76°W18	S60°W15	S21°W20	S4°W45	S16°W16	S14°W29	N85°W8	N14°W17	N17°W31	N60°W10
23		N35°W33	N32°W22	N34°W28	N85°W17	S18°W33	S47°W8	S9°E25	S3°E34	S58°E5	N38°W19	N34°W28	N28°W29	N73°W10
24		N16°W40	N20°W33	N17°W45	S37°W18	S84°W12	S11°W44	S10°W18	S23°W25	N88°W9	N2°E14	N21°W23	N10°W49	N46°W12
25		N15°W49	N20°W42	N48°W27	N43°W27	S18°W21	S4°W40	S11°W39	S4°E58	N89°W9	N17°W27	N38°W38	N51°W36	N73°W13
26		N34°W40	N33°W40	N44°W31	N54°W28	S51°W21	S15°W31	S40°W12	S28	S50°W20	N45°W21	N12°W40	N33°W38	N62°W17
27		N11°W48	N20°W40	N27°W48	S89°W12	S84°W11	S39°W24	S40°E42	S6°E26	N40°W22	N29°W16	N14°W39	N5°W37	N34°W16
28		N9°W31	N8°W45	N24°W34	N54°W21	S29°W33	S8°E23	S3°W34	S1°E31	S14°W24	N9°W28	N15°W29	N2°W48	N43°W9
29		N9°W52	N7°W37	N35°W37	N45°W18	S23°W13	S14°W25	S19°W15	S19°W21	N54°W4	N21°W10	N5°W25	N51°E51	N27°W14
30		N1°W57	N21°W41	N13°W40	N42°W18	S63°W13	N17°W15	S3°W36	S5°W44	N36°W26	N27°W45	N65°W26	N14°W59	N33°W20
31		N1°W58	N13°W52	N45°W35	N61°W27	N38°W15	S25°W42	S62°W22	S10°W31	S40°W3	N39°W16	N22°W20	N15°W41	N44°W17
32		N16°W36	N6°W46	N24°W36	N82°W22	S42°W19	S3°E41	S16°E8	S1°W46	N15°W13	N13°E12	N23°W19	N19°W43	N43°W10
33		N27°W41	N27°W45	N22°W45	N66°W18	S17	S1°E23	S9°E35	S15°E34	S9°W1	N21°W41	N17°W31	N13°W43	N36°W13
34		N15°W28	N7°W47	N46°W19	N75°W27	S33°W2	S28°W11	S10°E37	S24°E14	S9°W10	N52°W13	N76°W12	N30°W34	N55°W9
35		N22°W34	N18°W34	N50°W30	S86°W14	S30°W20	S18°W21	S14°E24	S1°W23	S49°W4	N63°W6	N25°W39	N17°W33	N58°W10
36		N28°W30	N26°W40	N27°W28	N69°W19	S8°W21	S9°W26	S39°E14	S3°E26	S22°W21	N40°W16	N33°W21	N5°W37	N57°W9
37		N15°W44	N8°W34	N23°W34	N83°W18	N70°W8	S12°W17	S5°W46	S17°E13	N65°W13	N1°E12	N9°E35	N5°W38	N28°W12
38		N16°W28	N21°W23	N39°W38	N78°W16	S7°W7	S10°W22	S20°E31	S28°E65	S7°E5	N35°E29	N21°E34	N17°E38	N23°E5
39		N29°E40	N20°E38	N14°W39	N52°W17	S65°W12	S1°W32	S15°W22	S6°E44	S3°E14	N31°W17	N24°W14	N28°W30	N29°W5
40		N14°W42	N24°W39	N29°W37	S78°W29	S46°W20	S30°W10	S4°W18	S3°W48	N41°W21	N67°W12	N34°W19	N16°W32	N60°W13
41		N8°W27	N16°W39	N33°W34	N75°W13	S89°W15	S50°W19	S23°W25	S13°W49	S33°W11	S65°W17	N22	N28°W26	N73°W11
42		N32°W38	N25°W26	N39°W27	S87°W26	N80°W21	S23°W17	S2°W8	S21°W13	N80°E1	N22°W20	N48°W24	N31°W30	N55°W15
43		N47°W33	N27°W35	N46°W49	N72°W13	S68°W13	S3°W33	S12°E71	S3°E31	S11°W17	N38°W23	N40°W15	N28°W40	W11
44		N17°W49	N39°W31	N50°W33	N64°W19	S27°W20	S30°W9	S2°W34	S22°E29	S24°W15	N72°W11	N55°W27	N37°W27	N71°W12
45		N29°W34	N27°W50	N56°W27	N56°W14	N72°W6	S10°E26	S5°E31	S8°E44	S42°W13	N44°W8	N46°W27	N34°W35	N71°W10
46		N43°W30	N28°W38	N52°W43	N83°W19	S1°W26	S7°E24	S68°E36	S11°E45	S84°W7	N79°W16	N62°W17	N48°W36	S84°W11
47		N41°W40	N44°W35	N59°W25	N83°W26	S66°W15	S1°W11	S23°E29	S7°E2	S39°W9	N63°W21	N52°W31	N44°W32	N72°W15
48		N58°W22	N41°W43	N66°W27	S77°W23	S27°W18	S20°E19	S16°E36	S21°E30	S22°W8	S76°W11	N51°W35	N44°W30	S85°W11
49		N37°W24	N53°W35	N52°W46	N59°W22	S4°W14	S21°E36	S36°E23	S23°E37	S73°W6	N66°W14	N34°W40	N29°W35	N68°W10
50		N52°W42	N36°W41	N58°W25	N87°W27	S23°W18	S79°W5	S18°E19	S24°E43	S17°E27	N82°W21	N51°W25	N43°W26	N81°W12
51		N33°W42	N50°W32	N56°W35	N71°W21	S36°W13	S2°W11	S9°E14	S13°E13	N88°W16	N42°W25	N43°W29	N42°W32	N61°W17
52		N49°W35	N42°W39	N49°W35	N73°W29	S70°W10	S16°W7	S16°E36	S17°E32	S7°W10	N37°W14	N48°W33	N37°W40	N68°W14
53		N53°W40	N38°W33	N58°W29	N89°W28	S33°W16	S12°W16	S21°E38	S11°W17	S19°W15	N27°W17	N28°W27	N33°W37	N75°W13
54		N35°W49	N23°W29	N47°W31	N46°W13	S18°W19	S13°W16	S12°E29	S22°E37	S10°E17	N29°W21	N22°W31	N29°W41	N57°W10
55		N20°W28	N10°W37	N6°W22	N40°W14	S17°W11	S16°E9	S3°W32	S15°W28	N81°W20	N22°W17	N1°W20	N1°E31	N37°W9
56		N9°W32	N5°W30	N16°W31	N70°W11	S30°W19	S6°W11	S4°W43	S23°W13	S74°W6	N18°W5	N6°W38	N21°E34	N28°W8
57		N3°W49	N12°W5	N17°W40	S85°W17	S27°W14	E28	S7°E29	S3°E38	S28°W16	N68°W10	N30°W36	N22°W35	N49°W10
58		N48°W30	N41°W35	N59°W19	N71°W11	N53°W12	S10°W15	S15°E43	S2°E38	W14	S62°W6	N24°W33	N27°W31	N78°W10
59		N36°W31	N24°W32	N72°W21	S52°W23	S67°W12	S20°E33	S10°W22	S7°E28	S15°W22	N51°W15	N33°W27	N21°W41	N83°W10
60		N41°W38	N38°W27	N38°W31	S58°W23	S21°W20	S3°E22	S54°W11	S2°E23	S25°W17	N32°W39	N40°W36	N29°W28	N68°W14
61		N33°W38	N57°W39	N29°W28	S62°W23	S36°W24	S11°W28	S11°E34	S4°E44	S2°W14	N40°W24	N48°W27	N43°W33	S86°W13
Mean		N26°W38	N28°W38	N41°W33	N81°W19	S43°W15	S11°W22	S29	S2°E32	S45°W10	N39°W18	N30°W28	N25°W36	N65°W12



The Average for the 60 years, (1902-1961)

MAXIMUM CONTINUANCE OF DAYS WITH PRECIPITATION						MAXIMUM CONTINUANCE OF DAYS WITHOUT PRECIPITATION							
Years	From		To		No. of Days	Remarks	Years	From		To		No. of Days	Remarks
	Day	Month	Day	Month				Day	Month	Day	Month		
1902	2	Jan.	21	Jan.	20		1902	3	June	10	June	8	
03	22	July	4	Aug.	14		03	26	Sept.	7	Oct.	12	1,3,7, <0.1
04	26	Oct.	11	Nov.	17	27, <0.1	04	14	Aug.	29	Aug.	16	19,21,22, <0.1
05	28	Nov.	16	Dec.	19	5, <0.1	05	9	Apr.	15	Apr.	7	
6	25	Jan.	18	Feb.	25	4,8, <0.1	06	19	May	26	May	8	
7	31	Aug.	10	Sept.	11		07	20	July	1	Aug.	13	24, <0.1
8	11	Jan.	29	Jan.	19	12,14,26, <0.1	08	12	Oct.	24	Oct.	13	
9	17	Feb.	28	Feb.	12		09	15	July	24	July	10	21, <0.1
10	3	Aug.	16	Aug.	14		10	15	Apr.	24	Apr.	10	24, <0.1
11	8	Oct.	19	Oct.	12	11,14(≡), <0.1	11	18	Feb.	28	Feb.	11	18,21,23, <0.1
12	11	July	22	July	12		12	17	Oct.	23	Oct.	7	22,23, <0.1
13	8	Jan.	20	Jan.	13		13	1	Aug.	9	Aug.	9	
14	9	Dec.	22	Dec.	14		14	31	Aug.	10	Sept.	11	2,7,8, <0.1
15	18	Aug.	29	Aug.	12		15	15	July	22	July	8	
16	29	Feb.	17	Mar.	18	3,15,16,17, <0.1	16	11	Aug.	22	Aug.	12	
17	18	Feb.	11	Mar.	22	26,8,11, <0.1, exc.3	17	16	July	2	Aug.	18	22(≡)(0.1)
18	5	Nov.	29	Nov.	25	17,20,21,29, <0.1, exc.24	18	23	July	29	July	7	
19	2	Jan.	30	Jan.	29	exc.10,18,24	19	9	July	18	July	10	18, <0.1
20	4	May	14	May	11	12, <0.1	20	27	May	3	June	8	
21	12	Mar.	26	Mar.	15		21	2	June	10	June	9	
22	11	Dec.	25	Dec.	15		22	13	Aug.	22	Aug.	10	
23	19	Feb.	14	Mar.	24	exc.24	23	20	Apr.	28	Apr.	9	20,22,28, <0.1
24	13	Feb.	28	Feb.	16		24	6	July	15	July	10	
25	20	Feb.	19	Mar.	28	27, <0.1	25	13	Apr.	22	Apr.	10	
26	14	Dec.(1925)	7	Jan.(1926)	25		26	9	May	17	May	9	
27	23	Dec.(1927)	1	Jan.(1928)	10		27	22	Apr.	1	May	10	
28	12	Feb.	27	Feb.	16	21, <0.1	28	8	Apr.	18	Apr.	11	
29	29	Dec.(1928)	12	Jan.(1929)	15	4,5, <0.1	29	30	July	13	Aug.	15	
30	9	Nov.	18	Nov.	10		30	12	Oct.	19	Oct.	8	
31	9	Jan.	15	Jan.	7			2	May	8	May	7	
	4	Feb.	10	Feb.	7		31	27	July	2	Aug.	7	
	25	Oct.	31	Oct.	7								
32	6	Mar.	18	Mar.	13	exc.11	32	24	July	30	July	7	
33	11	Jan.	21	Jan.	11		33	23	May	31	May	9	
	16	Dec.	26	Dec.	11								
34	8	Feb.	24	Feb.	17	13, <0.1	34	5	Dec.	13	Dec.	9	
35	15	Jan.	7	Feb.	24	exc.29	35	18	Nov.	24	Nov.	7	
36	31	Dec.(1935)	5	Feb.	37	exc.11	36	5	Oct.	12	Oct.	8	8,12, <0.1
37	22	Nov.	13	Dec.	22		37	19	Oct.	31	Oct.	13	
38	24	Jan.	12	Feb.	20	exc.5	38	3	June	11	June	9	7, <0.1
39	27	Dec.(1938)	10	Jan.	15	1, <0.1	39	25	Aug.	7	Sept.	14	25, <0.1
40	12	Feb.	29	Feb.	18	exc.19	40	10	June	16	June	7	10, <0.1
41	6	Feb.	16	Feb.	11	11, <0.1	41	7	Nov.	14	Nov.	8	
42	5	Feb.	22	Feb.	18	11, <0.1	42	21	May	3	June	14	27, (3.2)
43	31	Dec.(1942)	18	Jan.	19	9,10, <0.1	43	23	June	9	July	17	23,3,4.9, <0.1
44	31	Jan.	29	Feb.	30	10, <0.1	44	31	July	7	Aug.	8	
45	1	Dec.	29	Dec.	29		45	12	Apr.	18	Apr.	7	
								3	Aug.	9	Aug.	7	
46	3	Jan.	19	Jan.	17	exc.8,14, <0.1	46	26	July	6	Aug.	12	31, <0.1
47	26	July	9	Aug.	15	4, <0.1	47	12	July	19	July	8	
48	8	July	16	July	9		48	5	Apr.	12	Apr.	8	
49	25	Oct.	7	Nov.	14		49	27	May	4	June	9	
50	22	Jan.	10	Feb.	20	exc.27		9	Aug.	17	Aug.	9	
							50	9	Apr.	19	Apr.	11	
51	17	Dec.(1950)	2	Jan.	17		51	22	Sept.	29	Sept.	8	
52	5	Jan.	23	Jan.	19		52	25	Mar.	7	Apr.	14	1,2,3, <0.1
53	19	Dec.(1952)	17	Jan.	30	4,11, <0.1	53	11	June	18	June	8	
54	4	Mar.	17	Mar.	14	9, <0.1	54	21	Nov.	30	Nov.	10	25, <0.1
55	9	Jan.	8	Feb.	31	25,4, <0.1	55	25	July	2	Aug.	9	28, <0.1
56	11	Jan.	12	Feb.	33	18,7 <0.1, exc.23,28,4	56	2	Sept.	9	Sept.	8	2,9, <0.1
57	30	Jun.	15	July	16	exc.10	57	18	Nov.	27	Nov.	10	
58	30	Jan.	16	Feb.	18		58	26	May	3	June	9	
								19	June	27	June	9	
59	2	July	10	July	9		59	25	July	31	July	7	
60	10	Dec.	16	Jan.(1961)	38	12,22,30,11,15, <0.1	60	16	July	24	July	9	19, <0.1
61	30	Jan.	10	Feb.	12		61	17	Apr.	26	Apr.	10	21,24,25, <0.1
Absolute	10	Dec.(1960)	16	Jan.(1961)	38	12,22,30,11,15, <0.1	Absolute	16	July(1917)	2	Aug.(1917)	18	22(≡),(0.1)

The Average for the 60 years, (1902-1961)



	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
NO. OF DAYS WITH GALES													
10-15 (m.p.s)	4.8	3.9	5.4	6.5	4.8	1.2	0.4	0.5	1.3	1.2	3.2	4.3	37.5
15-29 (m.p.s)	1.1	0.8	1.0	1.3	0.4	0.1	0.1	0.1	0.3	0.2	0.7	0.9	7.0
>29 (m.p.s)	—	—	—	0.0	—	—	—	—	—	—	—	0.0	0.0
NO. OF DAYS WITH MINIMUM AIR TEMP. <0°C													
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Sum	First Date	Last Date	Interval Days	
Mean	1.0	10.8	26.3	30.1	27.1	24.0	8.1	0.8	128.2	30 Oct.	1 May	184	
NO. OF DAYS WITH MEAN AIR TEMP. <0°C													
Mean	—	0.9	14.1	25.0	21.4	9.6	0.4	—	71.2	2 Dec.	21 Mar.	109	
NO. OF DAYS WITH MAXIMUM AIR TEMP. <0°C													
Mean	—	0.1	3.9	10.2	7.1	1.4	—	—	22.6	17 Dec.	28 Feb.	74	
NO. OF DAYS WITH MAXIMUM AIR TEMP. >25°C													
	Apr.	May	Jan.	July	Aug.	Sept.	Oct.	Nov.	Sum	First Date	Last Date	Interval Days	
Mean	0.2	3.2	9.3	20.7	26.1	11.1	0.3	—	70.9	15 May	24 Sept.	132	
NO. OF DAYS WITH MAXIMUM AIR TEMP. >30°C													
Mean	—	0.1	0.6	6.7	10.0	0.8	—	—	18.2	6 July	29 Aug.	57	
NO. OF DAYS WITH MEAN AIR TEMP. >25°C													
Mean	—	—	0.0	5.6	8.4	0.5	—	—	14.4	18 July	27 Aug.	41	
HOAR FROST													
	First Days		Last Day		Interval Days	First Day		Last Day		Interval Days			
	Day	Month	Day	Month		Day	Month	Day	Month				
Mean	18	Oct.	6	May	198	Absolute	27	Sept. (1908)	4	Jun. (1921)	251		
SNOW													
Mean	15	Nov.	11	Apr.	147	Absolute	25	Oct. (1918)	10	May (1917)	198		
SNOW ON GROUND													
Mean	29	Nov.	28	Mar.	120	Absolute	25	Oct. (1918)	30	Apr. (1934)	188		