Mauritius. Royal Alfred Observatory.

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VOL. XXXV

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RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

JANUARY, 1949

N. R. McCURDY, B.Sc.
Director.

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PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, DECEMBER 1951. 6712/12/51—208

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Table I—Results of Magnetical Observations made during the month of January, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
JAN.	′			′		
1	15°24·7	·22316	·30320	13·0	23	20
2	24·8	317	329	8·8	80	15
3	25·4	330	324	7·8	34	16
4	25·5	339	321	10·0	25	20
5	25·3	356	320	6·6	51	9
6	—	350	321	—	63	7
7	24·8	325	322	7·4	45	5
8	24·9	337	321	7·8	54	10
9	25·8	328	321	8·1	58	11
10	25·8	327	321	8·6	53	19
11	25·6	318	320	9·0	30	17
12	26·2	314	320	9·6	29	18
13	25·9	297	321	11·0	30	21
14	25·4	313	319	12·0	41	24
15	25·1	319	316	11·0	36	23
16	25·1	321	318	12·0	67	21
17	26·5	326	316	10·8	42	24
18	26·4	326	315	11·2	78	26
19	26·4	299	319	11·8	35	23
20	26·0	320	319	11·0	35	18
21	25·7	323	318	8·8	27	14
22	25·2	321	319	5·2	76	17
23	25·6	324	317	7·2	49	15
24	27·3	310	323	6·0	60	12
25	—	298	337	—	55	38
26	—	—	358	—	—	22
27	—	—	349	—	—	25
28	—	—	339	—	—	37
29	—	294	335	—	30	29
30	27·3	296	333	11·0	29	37
31	26·6	301	326	15·4	39	35
Mean	15°25′·73	·22319	·30324	9′·56	45·2	20·3

T=·37652: Mean Dip=53°38′·78: X=·21525: Y=−·059378: Z=·30324

Magnetic Disturbances—January, 1949

1d. Moderately disturbed.
2d. Slightly disturbed.
7d. Slightly disturbed.
8d. Slightly disturbed.
11d. Slightly disturbed.
12d. Moderately disturbed.
16d. Slightly disturbed.
18d. Slightly disturbed
19d. Slightly disturbed.
24d. Very disturbed period starting at $22^h\ 20^m$ and ending at $04^h\ 10$ on 25^d. The range was 105γ.
No Register from $26^d\ 11^h$ to $29^d\ 9^h\ 35$.
31d. Slightly disturbed.

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of January, 1949

Declination (West)		Horizontal Force		Dip. (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
4 9·23	15·29·67	4 9·43	·22349	4 9·13	53·37·63	·30323
11 9·35	15·27·25	7 9·27	·22341	11 9·45	53·38·50	·30320
18 9·18	15·29·83	11 9·15	·22330	18 9·08	53·39·13	·30319
25 9·37	15·30·67	18 9·40	·22356	25 9·48	53·39·63	·30317
		21 9·24	·22337			
		25 9·16	·22302			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

JANUARY 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	25·8	26·0	24·4	25·8	25·6	—	25·2	26·2	26·0	26·6	26·2	26·0	28·0	26·0	26·0	26·0	Midnight
1h	25·7	26·0	25·0	25·8	25·7	—	25·4	26·0	26·2	26·4	27·4	25·2	26·0	26·0	26·2	26·0	1h
2	25·8	26·2	25·2	25·6	25·9	—	24·6	25·8	27·2	25·4	25·6	26·0	27·2	26·2	26·2	25·6	2
3	26·0	26·2	26·0	25·8	26·2	—	25·2	25·0	27·4	26·0	27·6	26·4	28·2	26·6	26·0	25·8	3
4	26·2	26·4	26·4	26·2	26·4	—	26·0	26·0	27·6	27·0	27·8	25·0	29·6	26·8	26·4	26·4	4
5	27·0	27·2	27·2	27·0	27·0	—	27·6	27·2	27·6	28·0	28·0	27·6	28·4	27·4	26·8	27·2	5
6	28·2	28·8	28·0	28·0	26·8	—	28·0	28·0	28·4	29·6	29·4	29·8	29·8	29·6	28·0	28·6	6
7	30·0	28·0	29·4	30·4	27·2	—	29·0	29·2	30·0	30·2	30·0	31·6	30·6	30·4	29·6	29·8	7
8	30·0	26·0	28·0	31·0	28·0	—	29·2	28·6	30·0	29·4	30·2	32·0	30·6	30·2	29·4	30·0	8
9	28·0	26·4	27·2	30·0	27·8	—	26·0	26·6	28·4	29·0	28·2	30·4	29·2	29·0	27·8	29·2	9
10	25·2	27·2	26·8	28·2	27·6	—	21·8	25·4	27·4	26·4	26·0	28·4	25·0	27·6	26·2	28·2	10
11	21·6	23·8	26·2	26·6	26·4	25·4	20·6	24·0	25·6	26·0	23·4	26·0	21·2	24·0	23·8	24·0	11
Noon	19·6	22·2	25·6	24·2	25·8	24·0	23·4	23·0	24·0	22·2	21·6	24·4	20·0	19·6	20·0	20·0	Noon
13h	17·6	20·6	23·4	22·0	24·0	22·0	22·6	22·8	21·9	21·6	21·2	22·6	19·6	18·4	18·6	18·0	13h
14	17·0	20·0	22·0	21·0	22·0	22·4	21·8	22·2	22·0	21·7	21·4	22·4	21·2	19·2	19·2	19·0	14
15	18·8	20·0	21·6	21·2	21·6	23·6	21·8	21·4	22·2	22·4	23·4	23·6	23·6	20·4	20·8	21·4	15
16	21·8	23·2	22·4	21·3	21·4	23·0	22·2	22·0	23·4	23·2	24·0	23·8	25·4	22·8	23·0	22·6	16
17	24·0	23·0	23·6	22·2	22·4	22·8	22·6	22·0	23·2	23·0	23·8	24·0	25·6	25·0	23·8	23·6	17
18	25·0	24·0	24·6	24·0	23·6	24·2	24·0	22·8	23·6	24·8	24·0	23·6	25·8	26·2	25·6	24·2	18
19	26·4	25·4	25·2	24·6	24·6	24·4	24·4	23·6	24·8	25·6	24·6	23·8	25·2	26·0	25·8	24·8	19
20	26·0	25·8	25·0	24·4	24·8	24·6	25·2	24·8	25·0	25·8	25·0	24·8	25·2	25·6	25·6	25·0	20
21	25·6	24·6	25·2	25·0	25·0	24·8	26·0	25·0	25·2	26·2	25·4	26·0	25·4	25·8	25·8	25·4	21
22	25·4	24·4	25·4	25·4	25·0	25·0	25·8	25·4	25·4	26·2	25·4	27·0	25·6	26·0	25·8	26·0	22
23	25·6	24·6	25·6	25·4	25·2	25·0	26·2	25·6	26·6	26·2	25·6	27·2	25·8	26·0	25·9	25·6	23

JANUARY 1949—*continued*

15° +

Day / Hour	17d	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	26·0	25·2	27·6	26·4	26·0	20·8	27·2	27·4	—	—	—	—	—	27·8	27·8	26·3	Midnight
1h	26·0	25·4	27·0	26·0	25·6	26·6	26·8	28·0	—	—	—	—	—	28·0	27·9	26·3	1h
2	26·0	25·8	25·4	26·2	25·8	27·4	26·8	28·8	—	—	—	—	—	28·4	27·9	26·3	2
3	26·4	26·0	25·6	25·8	25·8	27·8	27·0	28·0	—	—	—	—	—	28·6	28·4	26·5	3
4	27·4	26·2	26·8	26·4	25·8	27·6	27·0	28·0	—	—	—	—	—	29·2	29·2	26·9	4
5	28·0	27·2	25·0	27·2	26·0	28·0	27·4	29·0	—	—	—	—	—	29·8	30·2	27·6	5
6	29·0	30·0	29·6	28·4	26·6	27·4	29·2	30·0	—	—	—	—	—	30·0	30·4	28·8	6
7	31·0	31·0	30·6	30·0	28·0	26·0	29·0	29·0	—	—	—	—	—	30·8	31·2	29·7	7
8	32·0	32·0	31·6	30·4	29·8	24·8	27·4	26·4	—	—	—	—	—	32·0	32·4	29·7	8
9	31·2	30·4	32·4	31·6	28·9	23·8	25·6	25·6	—	—	—	—	—	30·4	31·2	28·6	9
10	30·0	30·2	30·6	30·6	28·0	23·0	25·2	25·2	—	—	—	—	29·2	29·2	28·4	27·1	10
11	28·0	28·0	28·0	28·6	28·0	23·6	24·0	25·0	—	—	—	—	25·6	26·4	25·0	25·1	11
Noon	25·8	24·8	24·0	25·6	27·6	23·6	22·6	24·2	—	—	—	—	22·0	24·0	21·6	23·2	Noon
13h	23·2	22·0	20·6	23·4	24·0	23·0	22·0	24·0	—	—	—	—	20·2	21·0	19·8	21·5	13h
14	21·2	20·8	20·8	20·8	22·0	22·8	23·0	24·0	—	—	—	—	20·4	21·2	19·0	21·1	14
15	22·0	22·0	21·0	20·6	21·0	23·0	22·8	25·0	—	—	—	—	22·8	23·0	19·6	21·8	15
16	23·6	23·0	22·4	21·6	22·0	22·8	22·2	26·4	—	—	—	—	24·6	24·8	21·8	22·9	16
17	26·2	24·2	24·6	22·4	22·8	23·2	22·0	27·6	—	—	—	—	26·2	26·0	23·6	23·8	17
18	27·0	24·6	27·4	24·6	24·0	24·0	24·8	28·0	—	—	—	—	26·8	27·8	25·8	24·9	18
19	25·6	25·8	26·8	25·0	24·8	24·8	26·0	28·0	—	—	—	—	27·0	27·6	26·4	25·4	19
20	25·4	26·8	26·2	25·2	25·2	25·6	26·6	28·2	—	—	—	—	27·0	27·0	26·8	25·6	20
21	25·2	26·6	26·6	25·4	26·0	26·0	26·0	28·0	—	—	—	—	26·8	27·0	27·8	25·8	21
22	25·0	27·2	27·0	26·0	26·2	26·4	27·0	29·6	—	—	—	—	27·8	27·6	28·2	26·2	22
23	25·0	28·0	27·0	26·0	26·4	26·8	27·2	29·8	—	—	—	—	27·6	27·8	28·0	26·4	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JANUARY 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	311	310	329	329	340	349	332	311	338	306	320	317	310	308	311	320	Midnight
1h	314	315	328	329	341	351	335	319	337	307	319	325	310	309	310	321	1h
2	318	313	327	330	341	353	350	320	320	320	330	310	299	307	308	323	2
3	320	328	315	331	340	350	330	329	321	318	310	312	280	303	312	321	3
4	324	332	318	333	340	349	326	328	328	314	312	319	284	302	311	318	4
5	318	330	321	335	341	349	315	327	327	318	313	308	285	303	314	313	5
6	322	340	324	338	344	360	325	332	328	329	315	308	290	307	315	318	6
7	325	348	330	348	360	370	340	349	335	343	319	315	293	313	313	333	7
8	317	355	338	351	373	384	348	351	337	352	328	316	297	322	318	330	8
9	321	350	340	353	383	388	340	352	351	355	332	317	296	325	315	339	9
10	322	336	342	354	390	390	350	358	352	359	333	310	304	330	320	361	10
11	323	337	348	342	391	389	330	365	360	356	331	322	305	339	344	363	11
Noon	322	322	349	335	380	365	322	362	342	347	330	318	303	333	339	357	Noon
13h	320	318	342	329	370	349	320	350	337	333	323	308	308	330	335	350	13h
14	322	315	335	337	360	338	314	343	332	324	319	307	300	329	330	338	14
15	310	300	327	348	356	328	309	341	325	310	310	309	290	320	320	320	15
16	304	289	320	340	351	330	305	339	302	309	303	315	288	309	317	310	16
17	302	275	318	337	351	332	309	339	307	315	308	321	289	302	312	297	17
18	310	280	319	338	350	330	316	330	310	312	312	327	297	298	312	296	18
19	309	290	324	339	348	327	321	325	307	320	314	321	298	302	318	297	19
20	303	300	328	338	348	329	321	329	313	323	312	319	299	303	319	300	20
21	311	304	330	339	347	332	317	335	322	308	312	309	299	302	315	301	21
22	319	300	330	338	349	328	318	324	330	327	318	312	300	307	318	300	22
23	313	315	329	339	348	334	308	320	320	323	317	298	310	310	319	298	23

JANUARY 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	299	332	292	303	316	322	315	297	335	297	—	—	290	291	298	315	Midnight
1h	300	329	298	307	319	324	317	280	280	300	—	—	288	289	297	314	1h
2	308	329	308	310	320	327	320	282	300	302	—	—	290	290	297	316	2
3	312	332	302	312	324	310	324	300	330	303	—	—	287	292	298	316	3
4	313	336	296	315	325	311	320	309	285	300	—	—	288	293	302	315	4
5	320	340	310	311	327	318	321	307	287	300	—	—	289	294	300	316	5
6	327	338	310	319	333	328	330	310	296	298	—	—	292	295	300	320	6
7	330	343	313	324	337	345	340	320	297	300	—	—	296	296	301	328	7
8	330	341	307	332	340	356	347	329	298	302	—	—	299	294	300	332	8
9	334	350	302	335	335	355	340	334	299	299	—	—	307	297	307	334	9
10	340	363	304	338	330	348	342	340	300	297	—	—	313	290	318	337	10
11	341	368	298	333	329	347	350	336	303	304	—	—	317	286	324	338	11
Noon	330	350	290	327	314	338	348	328	300	—	—	—	308	288	320	331	Noon
13h	325	335	280	321	313	329	340	313	300	—	—	—	300	304	316	325	13h
14	319	319	278	317	318	325	324	310	308	—	—	—	288	308	310	320	14
15	322	303	282	313	315	300	327	308	304	—	—	—	287	304	292	314	15
16	333	305	285	314	313	280	329	300	300	—	—	—	289	302	287	310	16
17	330	301	294	320	322	287	325	290	290	—	—	—	290	298	285	309	17
18	338	308	300	317	325	299	312	292	292	—	—	—	291	299	290	311	18
19	332	312	300	320	321	308	300	294	291	—	—	—	293	297	291	311	19
20	330	303	302	327	325	313	304	290	296	—	—	—	288	297	295	313	23
21	329	301	310	326	322	310	309	288	292	—	—	—	287	296	290	312	22
22	332	308	310	322	314	310	298	288	295	—	—	—	289	297	297	314	21
23	335	290	304	320	319	312	299	380	297	—	—	—	290	299	307	316	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JANUARY 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	322	328	329	324	322	317	321	324	321	325	322	320	321	320	320	319	Midnight
1h	321	328	329	324	322	319	321	323	321	325	320	322	322	320	320	319	1h
2	321	327	330	324	322	320	320	323	322	324	320	320	324	320	320	319	2
3	321	328	330	324	322	320	322	324	323	326	323	324	324	321	320	320	3
4	322	327	330	325	322	320	323	325	323	327	320	325	324	322	320	320	4
5	325	327	330	326	322	320	325	327	323	328	324	325	325	327	320	323	5
6	326	330	330	328	322	320	325	324	324	329	329	328	327	327	323	324	6
7	320	326	332	331	323	320	323	325	324	325	330	327	329	321	322	325	7
8	317	328	330	330	322	320	320	320	324	324	330	320	328	327	320	320	8
9	313	330	330	327	324	322	322	317	322	313	329	316	324	320	313	320	9
10	314	329	328	324	323	321	320	320	320	318	319	326	320	310	307	318	10
11	311	328	324	321	324	320	321	320	317	312	314	325	313	304	300	311	11
Noon	308	325	320	317	322	320	320	320	314	310	313	320	308	303	300	304	Noon
13h	310	325	317	312	321	321	320	319	313	317	314	313	310	308	306	307	13h
14	310	326	316	311	320	322	320	320	316	318	317	310	313	310	310	312	14
15	315	330	318	312	320	324	320	320	318	319	320	312	318	317	316	317	15
16	320	340	320	312	316	323	320	317	320	320	319	314	320	320	317	318	16
17	324	333	321	315	315	321	320	318	321	320	315	314	320	324	318	318	17
18	326	332	323	317	317	320	321	318	321	320	317	314	320	320	317	318	18
19	327	330	321	319	318	320	322	320	322	320	318	316	320	320	318	319	19
20	326	330	321	320	317	320	323	320	321	320	318	317	322	320	319	320	20
21	326	330	322	320	317	321	323	319	321	320	320	321	321	321	320	320	21
22	328	331	324	321	317	322	323	320	322	321	320	320	321	321	320	321	22
23	327	331	324	322	317	322	323	321	323	321	320	321	321	322	320	323	23

JANUARY 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	+ ·30000 (C.G.S. UNIT).																
Midnight	323	318	322	320	320	320	322	325	320	350	358	348	340	340	335	326	Midnight
1h	323	319	321	320	320	320	322	328	332	360	350	348	340	339	335	327	1h
2	322	318	320	321	320	320	322	329	333	364	350	346	340	338	334	327	2
3	321	318	320	320	320	321	322	328	330	366	350	345	340	339	333	327	3
4	321	318	322	320	320	320	322	326	330	366	350	345	341	339	333	327	4
5	322	318	320	321	320	320	322	326	335	366	350	345	341	340	334	328	5
6	323	322	327	323	320	320	324	326	340	365	352	347	343	342	337	330	6
7	325	324	328	322	322	315	319	322	348	364	355	352	344	350	342	330	7
8	326	324	330	326	324	310	313	320	333	362	358	354	342	348	340	329	8
9	327	323	330	328	322	307	314	318	324	353	362	350	338	334	330	326	9
10	324	322	324	325	320	310	313	320	325	350	360	342	333	328	324	324	10
11	319	321	315	318	320	313	314	320	335	344	350	329	322	319	314	320	11
Noon	308	310	309	311	314	318	312	324	341	347	340	317	315	314	308	317	Noon
13h	304	300	307	310	310	320	310	324	336	350	387	317	316	313	307	316	13h
14	303	298	309	310	310	320	311	323	335	350	340	323	324	317	308	317	14
15	306	300	310	314	312	323	307	320	331	353	340	330	331	322	309	319	15
16	308	309	310	316	312	324	306	319	330	355	341	337	333	328	311	321	16
17	311	310	311	316	313	323	308	320	335	364	347	338	331	331	320	322	17
18	313	310	316	316	314	323	316	320	340	363	350	338	337	333	327	324	18
19	310	311	316	318	317	322	320	320	344	364	350	339	336	332	330	324	19
20	310	314	318	316	317	320	321	322	347	360	347	340	333	332	330	325	20
21	313	316	320	317	319	321	321	323	350	357	348	340	340	333	330	326	21
22	314	318	320	319	319	322	324	327	358	358	349	340	340	335	332	327	22
23	317	320	320	320	320	322	325	330	343	360	348	340	340	336	333	327	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of January, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind: Direction	Wind: Velocity	Amount of Cloud (Scale 0—10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration		
JAN.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	961·8	25·4	2·5	21·6	79	25·8	150	5·4	6	21·8	24·7	26·1	21·7	26·8	21·3	5·5	0·5	5	10·5	79
2	961·9	23·2	1·6	20·8	87	24·6	150	7·2	8	21·7	23·0	25·0	21·8	26·2	21·4	4·8	1·7	35	8·4	63
3	962·6	21·7	1·1	20·0	90	23·4	160	6·7	7	20·6	21·5	22·6	21·9	23·0	20·0	3·0	3·8	210	8·9	67
4	961·2	22·5	0·6	21·6	95	25·8	130	7·6	8	20·7	22·0	23·7	22·0	24·3	20·0	4·3	18·4	480	0·2	2
5	959·5	24·2	1·5	22·0	88	26·4	120	6·7	7	21·8	23·7	24·9	22·8	25·7	21·2	4·5	33·8	435	3·9	30
6	960·3	23·1	0·4	22·5	97	27·3	110	4·5	8	22·4	22·8	23·9	22·7	24·0	22·2	1·8	40·6	375	0·0	0
7	959·6	22·9	1·0	21·4	92	25·5	130	6·7	8	22·5	22·7	23·4	21·3	24·0	21·8	2·2	39·3	350	0·0	0
8	956·5	21·7	0·1	21·5	99	25·6	150	10·3	8	21·0	21·5	22·4	22·0	23·0	20·3	2·7	91·0	1090	0·0	0
9	959·6	22·4	0·5	21·6	95	25·8	250	6·3	8	21·8	22·2	24·6	23·2	25·4	21·6	3·8	20·5	185	0·3	3
10	961·9	24·7	1·3	22·8	90	27·8	290	2.2	7	22·8	24·2	25·6	23·2	26·8	22·0	4·8	11·0	80	3·9	30
11	962·8	25·5	1·6	23·2	87	28·4	340	1·8	7	22·8	25·0	27·1	24·9	27·5	22·6	4·9	1·6	15	9·5	72
12	966·0	24·4	0·8	23·2	93	28·4	310	1·3	8	24·0	24·3	26·9	23·7	27·5	23·8	3·7	0·5	5	6·1	47
13	967·5	26·4	3·7	20·8	72	24·6	calm	calm	6	21·7	26·0	25·9	23·2	28·3	20·0	8·3	0·0	0	7·5	57
14	967·2	27·4	4·4	20·8	68	24·6	calm	calm	6	21·8	26·8	24·0	23·7	28·3	19·9	8·4	3·0	30	4·9	37
15	966·3	26·4	3·0	21·9	77	26·3	310	1·8	6	20·5	26·1	27·7	23·5	28·1	20·0	8·1	0·0	0	6·2	47
16	965·8	25·9	2·5	22·2	80	26·8	calm	calm	7	20·6	25.2	26·7	21·8	27·3	20·0	7·3	50·5	155	2·6	20
17	967·1	27·2	4·3	20·7	68	24·4	calm	calm	4	21·5	26·7	24·0	22·5	27·8	21·2	6·6	19·2	80	7·0	54
18	967·7	26·4	3·8	20·6	70	24·2	calm	calm	6	20·5	26·0	27·1	22·8	27·5	20·2	7·3	15·0	85	7·3	56
19	968·1	26·9	4·3	20·4	68	24·0	95	0·5	3	22·3	26·2	27·3	22·5	28·2	21·0	7·2	0·2	5	11·7	90
20	968·3	26·3	4·4	19·6	67	22·8	90	0·9	4	22·5	26·0	27·0	23·0	28·0	21·3	6·7	0·0	0	11·8	91
21	968·4	26·0	4·3	19·4	67	22·5	90	1·3	5	21·6	25·2	26·7	22·5	27·0	20·7	6·3	0·0	0	11·5	88
22	968·6	25·4	3·9	19·4	69	22·5	90	4·5	6	22·4	25·0	26·8	22·7	27·5	21·5	6·0	1·6	5	8·2	63
23	968·4	25·9	3·5	20·6	73	24·2	100	4·5	6	22·0	25·3	26·8	22·4	27·0	21·6	5·7	3·2	25	10·1	77
24	968·5	24·3	2·3	20·8	81	24·6	90	5·4	6	22·2	24·0	25·9	22·6	26·0	20·9	5·1	1·6	20	10·0	77
25	967·5	23·7	1·8	21·0	85	24·9	85	2·7	6	21·6	23·4	26·4	22·5	27·2	21·1	6·1	0·6	5	6·3	49
26	967·0	25·7	3·4	20·6	74	24·2	90	6·3	5	21·5	25·4	25·8	22·9	28·0	20·6	7·4	0·0	0	7·8	60
27	966·9	26·2	3·7	20·6	71	24·2	20	1·8	6	20·8	25·7	27·6	23·6	28·1	19·5	8·6	0·5	5	10·8	83
28	971·5	24·8	2·4	21·2	81	25·2	70	6·7	7	22·1	24·2	26·4	22·8	27·1	21·5	5·6	3·3	15	5·9	46
29	966·5	25·1	2·0	22·1	84	26·6	30	6·7	8	21·7	24·7	24·9	22·3	25·7	21·4	4·3	14·2	85	1·0	8
30	963·8	25·8	3·4	20·7	69	24·4	90	5·4	6	21·9	25·0	26·2	22·6	26·5	21·0	5·5	0·7	5	10·4	80
31	961·3	24·5	2·1	21·4	83	25·5	70	6·3	8	22·3	24·1	25·8	22·4	26·5	22·0	4·5	1·0	10	5·2	40
Mean	964·8	24·9	2·4	21·2	80·6	25·2	—	4·0	6·5	21·8	24·7	25·7	22·6	26·6	21·1	5·5	377·3	3795	6·38	48·9
Average	964·4	25·0	2·6	21·0	79·0	24·9	—	3·5	—	—	—	—	—	27·1	20·6	6·5	310·5	2973	6·69	50·9
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	40·5 mbs	Amount of rain	—	341·8 mms
Temperature of the Air	+	3·8°C	Duration of Bright Sunshine	+	52·9 hrs.
Vapour Pressure	+	2·6mbs	Mean of Maximum temperatures	+	4·0°C
Relative Humidity	—	10·0%	,, Minimum temperature	+	3·1°C
Velocity of Wind	+	1·0 mps.	Absolute Maximum temperature	+	4·6°C
			,, Minimum temperature	+	1·6°C

Table VII.—Daily Results of Meteorological Observations made during the month of January, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
JAN.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1001·6	− 4·9	31·1	24·0	7·1	27·1	+ 1·4	4·3	20·6	− 0·6	68	− 8	24·2	21·1
2	1002·3	− 4·1	30·1	24·4	5·7	26·7	+ 1·0	4·1	20·5	− 0·7	69	− 7	24·1	22·0
3	1002·1	− 4·2	29·0	24·3	4·7	25·9	+ 0·2	4·1	19·6	− 1·6	68	− 8	22·8	22·2
4	1000·6	− 5·7	29·0	24·4	4·6	26·0	+ 0·2	2·9	21·7	+ 0·4	78	+ 1	26·0	22·7
5	999·3	− 6·9	30·0	24·9	5·1	26·8	+ 1·0	2·6	23·0	+ 1·5	80	+ 3	28·1	22·5
6	999·8	− 6·4	29·1	25·4	3·7	26·8	+ 1·0	2·7	22·9	+ 1·4	79	+ 2	27·9	23·7
7	998·5	− 7·6	29·1	25·5	3·6	26·2	+ 0·4	3·4	21·1	− 0·4	74	− 4	25·0	23·9
8	995·6	− 10·4	29·0	24·3	4·7	25·9	+ 0·1	2·7	21·9	+ 0·3	79	+ 1	26·3	21·2
9	999·6	− 6·3	29·3	25·0	4·3	26·7	+ 0·9	2·3	23·3	+ 1·7	82	+ 4	28·6	23·5
10	1001·4	− 4·5	31·7	25·2	6·5	28·0	+ 2·1	2·8	23·9	+ 2·2	79	+ 1	29·7	23·5
11	1003·1	− 2·7	32·9	25·2	7·7	28·4	+ 2·5	3·3	23·6	+ 1·7	75	− 4	29·1	22·2
12	1006·8	+ 1·1	32·2	25·7	6·5	28·0	+ 2·1	3·4	23·1	+ 1·2	75	− 4	28·3	23·0
13	1008·1	+ 2·5	32·5	22·1	10·4	27·7	+ 1·8	3·9	22·0	+ 0·1	71	− 8	26·4	20·3
14	1007·0	+ 1·5	32·0	23·4	8·6	27·2	+ 1·3	3·5	22·0	+ 0·1	73	− 6	26·4	20·0
15	1006·3	+ 0·8	31·6	22·2	9·4	26·3	+ 0·4	2·9	22·0	+ 0·1	77	− 2	26·4	19·6
16	1006·6	+ 1·2	30·9	22·2	8·7	25·5	− 0·4	2·0	22·5	+ 0·5	84	+ 5	27·3	20·1
17	1007·4	+ 2·1	31·8	23·4	8·4	26·3	+ 0·4	2·9	22·0	− 0·1	77	− 2	26·4	21·9
18	1008·2	+ 3·0	31·8	21·8	10·0	26·4	+ 0·5	2·9	22·1	0·0	77	− 2	26·6	19·2
19	1008·9	+ 3·8	31·8	22·1	9·7	26·8	+ 0·8	3·2	22·1	0·0	76	− 4	26·6	20·6
20	1008·8	+ 3·8	31·3	22·4	8·9	26·7	+ 0·7	3·7	21·2	− 1·0	72	8	25·2	20·4
21	1008·8	+ 3·9	30·4	22·1	8·3	26·4	+ 0·4	3·8	20·6	− 1·6	70	− 10	24·2	20·0
22	1008·8	+ 3·9	31·2	23·8	7·4	26·9	+ 0·9	3·4	21·9	− 0·3	74	− 6	26·3	21·2
23	1009·0	+ 4·2	30·1	23·8	6·3	26·8	+ 0·8	3·4	21·9	− 0·3	75	− 5	26·3	22·0
24	1008·7	+ 3·9	30·5	22·9	7·6	26·4	+ 0·4	3·6	21·0	− 1·3	73	− 7	24·9	20·6
25	1007·6	+ 2·8	30·6	23·3	7·3	26·1	+ 0·1	3·2	21·3	− 1·0	75	− 5	25·3	21·0
26	1007·1	+ 2·4	31·6	22·2	9·4	25·8	− 0·2	3·2	21·0	− 1·3	75	− 5	24·9	20·1
27	1007·6	+ 2·9	31·2	21·1	10·1	26·1	+ 0·1	3·6	20·7	− 1·6	72	− 8	24·4	18·9
28	1008·0	+ 3·4	29·7	23·6	6·1	26·3	+ 0·3	3·2	21·5	− 0·8	75	− 5	25·6	21·1
29	1006·1	+ 1·5	27·9	24·3	3·6	25·4	− 0·5	2·2	22·2	0·0	82	+ 2	26·8	22·9
30	1002·9	− 1·7	29·9	23·3	6·6	26·4	+ 0·5	3·4	21·3	− 0·9	74	− 6	25·3	21·5
31	1001·0	− 3·5	30·9	24·4	6·5	26·9	+ 1·0	3·5	21·7	− 0·5	73	− 7	26·0	23·4
Mean	1004·8	− 0·6	30·6	24·2	6·4	26·6	+ 0·7	3·2	21·8	− 0·1	75·2	− 3·6	26·2	21·5
Aver.	1005·4	—	29·8	22.6	7·2	25·9	—	2·7	21·9	—	78·8	—	26·3	20·4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF JANUARY, 1949

A cyclone was centred on the 1st about 500 miles north-east of Mauritius moving slowly west. On the 5th–6th it recurved to the north of St. Brandon, passing close to the east of this station, moving south. It was of moderate intensity, the highest hourly wind speed at St. Brandon being 45 m.p.h. and the minimum pressure, 983 millibars. On the 8th it passed nearly 100 miles to the east of Mauritius and then moved rapidly south-south-east being centred about 700 miles south-east of Mauritius on the 10th.

From the 2nd to the 5th there were indications of a cyclone over 2,000 miles east-north-east of Mauritius.

On the 30th and 31st a complex depression was forming about 500 miles north-east of Mauritius.

Mean pressure was slightly below normal, being below normal from the 1st–11th due to the cyclone and above normal for the rest of the month until the 30th. Mean temperature was appreciably above normal and was below normal on only three days. Rainfall was very short, only 16% of the average.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of January, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temparature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
JAN.	mms.	min.	mm.	hrs.	%	m.p.s.	m p.s.	°C.	°C.	°C.	°C.
1	0·0	—	7·6	11·7	88	5·1	+ 1·8	24.4	25·5	27·8	29·8
2	0·0	—	10·4	9·8	74	6·4	+ 3·1	24·4	25·5	27·8	29·5
3	0·0	—	11·2	9·0	68	6·7	+ 3·4	24·4	25·5	27·8	29·9
4	3·2	75	8·2	3·2	23	5·9	+ 2·6	24·4	25·5	27·8	29·9
5	2·1	50	5·3	8·2	62	5·9	+ 2·5	24·5	25·3	27·9	29·3
6	1·6	30	6·2	2·4	18	6·3	+ 2·9	24·6	26·0	27·9	29·3
7	4·0	190	5·6	0·5	+	8·4	+ 5·0	24·6	26·0	27·8	29·0
8	0·6	40	1·8	0·8	6	7·5	+ 4·1	24·6	25·9	27·7	28·3
9	1·1	30	4·2	3·9	30	6·0	+ 2·6	24·6	25·8	27·5	28·3
10	0·1	5	5·5	9·7	73	3·6	+ 0·2	24·6	26·0	27·4	28·5
11	0·0	—	7·6	10·7	81	3·1	— 0·3	24·6	26·0	27·4	29·2
12	0·1	5	6·4	11·0	83	2·8	— 0·6	24·6	26·0	27·6	29·7
13	0·0	—	10·0	11·8	89	2·2	— 1·2	24·6	26·0	27·8	29·8
14	0·0	—	8·2	5·7	43	1·8	— 1·6	24·6	25·9	28·0	30·3
15	4·4	90	6·8	6·2	47	1·7	— 1·7	24·8	25·8	28·2	29·7
16	4·7	45	2·4	4·8	36	2·4	— 1.0	24·8	25·9	28·2	29·5
17	0·0	—	6·0	7·5	57	2·2	— 1·2	24·7	26·1	28·1	29·1
18	0·4	20	5·8	10·5	80	2·1	— 1·3	24·7	26·1	28·0	29·2
19	0·0	—	7·3	12·4	95	2·7	— 0·7	24·7	26·1	28·1	29·4
20	0·0	—	8·8	12·6	96	3·1	— 0·3	24·7	26·1	28·1	29·7
21	0·0	—	10·0	11·2	86	3·4	+ 0·0	24·7	26·1	28·2	30·1
22	0·0	—	8·2	9·1	69	4·5	+ 1·1	24·7	26·1	28·3	30·1
23	1·2	20	8·0	11·1	85	4·5	+ 1·1	24·8	26·1	28·4	30·4
24	0·4	10	6·2	11·3	86	4·0	+ 0·6	24·8	26·2	28·4	30·4
25	0·2	10	9·2	9·5	73	3·5	+ 0·1	24·8	26·1	28·5	30·4
26	0·0	—	8·6	6·5	50	2·4	— 1·0	24·8	26·3	28·7	30·3
27	0·0	—	7·0	11·2	86	2·6	— 0·8	24·8	26·2	28·8	30·3
28	0·4	5	8·3	7·3	56	4·1	+ 0.7	24·9	26·3	28·7	30·4
29	10·6	60	7·3	1·2	9	4·2	+ 0·8	24·8	26·3	28·7	30·4
30	0·2	5	4·5	11·2	86	5·1	+ 1·7	24·9	26·1	28·7	29·6
31	0·2	10	9·0	8·9	68	4·5	+ 1·1	24·9	26·3	28·6	29·8
Mean	Sum 35·5	Sum 700	6·8	8·09	61·5	4·15	+0·76	24·67	25·97	28·09	29·66
Average	215·4	1959	5·9	7·73	58·8	3·39	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JANUARY, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1010·9mbs	at	22·00 hrs.	on 20th	993.5 mbs	at 16·00 hrs.	on	8th
Temperature of the Air	32·9°C	„	12 10 hrs.	„ 11th	21·1°C	„ 06·00 hrs.	„	27th
Daily range of temperature of the Air	10·4°C	„	—	„ 13th	3·6°C	—	„	7th and 29th
Temperature of the Dew Point ...	25·2°C	„	00·00 hrs.	„ 23rd	18·9°C	„ 12·00 hrs.	„	27th
Daily range of temperature of the Dew Point	4·8°C	„	—	„ 23rd	1·0°C	—	„	10th
Minimum on Grass	—		—	—	18·9°C	—	„	27th
Relative Humidity	98·1%	„	01·00 hrs.	„ 23rd	48·8%	„ 12·00 hrs.	„	27th
Vapour Pressure	32·1mbs	„	00.00 hrs.	„ 23rd	21·8mbs.	„ 12·00 hrs.	„	27th
Evaporation in 24 hours	11·2mms	„	—	„ 3rd	1·8mm.	—	„	8th
Wind Velocity	13·0mps	„	23·00 hrs.	„ 7th	—	—		
Rainfall in 24 hours	10·8mms ending		02 00 hrs.	„ 30th	—	—		
Duration of Sunshine	12·6hrs.		—	„ 20th	0·5 hrs.	—	„	7th

Mean Day Temperature of Air 28·44°C. Average 27·74°C. Mean Night Temperature of Air 24·77°C. Average 23·98°C.

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 & over	Lightning	Thunderstorm
9	8	—	1	—	—	—	2	1

Table VIII.—Barogram

JANUARY 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	018	024	029	022	000	003	005	982	961	020	023	056	083	081	075	068	Midnight
1h	015	018	023	017	997	999	998	976	959	016	019	052	080	077	069	060	1
2	011	017	019	009	987	997	993	965	957	009	018	051	078	075	062	057	2
3	009	016	018	005	985	995	985	959	957	000	016	050	076	070	061	055	3
4	009	015	019	006	984	994	984	960	959	000	016	055	078	069	059	057	4
5	010	017	021	006	988	997	987	959	969	004	018	058	081	075	060	059	5
6	012	022	027	011	995	999	993	960	979	012	025	063	085	076	063	062	6
7	018	029	030	016	997	004	997	959	993	018	033	069	087	077	071	068	7
8	019	029	024	017	999	005	997	957	999	020	037	076	088	077	076	064	8
9	020	029	027	017	996	007	996	959	003	028	039	077	089	077	076	069	9
10	020	028	025	014	996	005	994	959	007	023	036	075	088	077	071	067	10
11	020	025	027	011	995	001	988	959	009	019	036	076	087	077	066	070	11
Noon	018	024	024	004	990	999	984	950	003	017	030	073	083	075	061	068	Noon
13h	014	019	018	999	988	994	980	947	999	011	028	067	081	069	059	063	13h
14	009	017	014	997	984	994	972	941	997	008	022	062	076	061	056	060	14
15	005	011	005	997	980	987	961	937	997	003	021	059	074	057	048	056	15
16	003	007	005	991	980	983	962	935	998	000	019	059	066	051	045	057	16
17	007	009	009	986	981	983	971	939	001	003	021	063	071	052	049	057	17
18	014	017	011	997	988	989	975	945	009	008	029	071	076	056	056	065	18
19	019	024	014	999	994	996	977	953	017	017	038	077	079	061	059	073	19
20	023	029	020	002	999	999	983	959	021	019	044	078	080	070	064	076	20
21	030	036	029	009	006	003	983	962	026	024	053	081	086	072	068	078	21
22	036	039	035	010	008	009	992	964	028	030	058	089	091	077	072	079	22
23	035	037	028	009	004	011	984	968	027	029	058	088	089	077	070	080	23

JANUARY 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	077	088	097	098	100	097	097	096	095	080	077	088	082	053	019	1005.5	Midnight
1h	071	080	096	094	096	093	092	089	083	077	072	079	078	049	012	1004·9	1
2	063	079	090	089	085	086	089	080	078	076	069	076	075	043	005	1004·5	2
3	062	077	087	081	080	080	086	078	075	073	066	072	066	038	999	1004·1	3
4	064	076	083	079	080	080	086	079	076	069	066	068	066	038	999	1004·1	4
5	067	077	084	080	081	082	087	081	077	068	067	069	062	038	006	1004·3	5
6	078	081	091	084	087	090	093	085	079	075	072	077	068	039	009	1004·8	6
7	081	088	097	089	089	096	096	092	080	077	077	080	071	040	016	1005·3	7
8	080	088	097	089	091	097	097	093	080	078	079	083	071	040	017	1005·4	8
9	078	090	097	094	092	097	097	097	079	079	080	084	070	040	019	1005·5	9
10	077	087	094	087	092	094	097	097	079	077	080	088	069	038	019	1005·3	10
11	076	083	093	086	091	090	095	091	079	076	080	085	066	033	016	1005·2	11
Noon	074	079	087	083	088	086	089	082	077	069	079	084	058	027	013	1004·8	Noon
13	067	077	085	081	084	080	086	078	072	065	076	083	058	020	004	1004·4	13h
14	066	076	079	079	080	077	079	077	068	060	070	079	052	017	999	1004·0	14
15	066	067	076	077	078	075	078	076	062	053	063	076	048	011	997	1003·5	15
16	062	067	071	076	077	076	077	075	059	051	061	072	042	007	997	1003·3	16
17	063	069	072	077	078	077	079	076	060	056	061	073	042	006	999	1003·5	17
18	069	078	078	080	083	085	083	079	068	060	069	077	048	004	002	1004·1	18
19	077	081	091	090	091	090	089	085	074	068	080	082	052	018	012	1004·8	19
20	079	090	096	098	097	093	096	097	079	072	093	090	058	020	017	1005·3	20
21	083	096	098	100	100	097	099	098	080	077	096	091	060	025	017	1005·7	21
22	089	097	099	109	103	099	103	100	088	079	096	087	059	027	019	1006·0	22
23	091	098	099	107	102	099	101	099	088	079	094	087	059	023	021	1005·9	23

Table IX—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Recorder

JANUARY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	10	10	0	0	0	0	0	0	0	10	0	15	60	60	0	60	60	60	55	55	45	15	25	0	55	45	0	5	10	0	10·9
8	60	20	45	0	0	0	0	0	0	10	40	20	60	60	60	10	60	60	60	60	60	60	60	50	35	60	60	5	10	60	20	18·3
9	60	40	50	10	45	0	0	0	0	45	45	20	60	60	60	45	60	60	60	60	60	45	60	60	60	45	60	45	0	60	35	21·2
10	60	50	50	0	50	0	0	0	0	60	60	25	60	60	45	35	60	60	60	60	60	60	60	25	25	60	60	60	20	60	20	21·5
11	60	60	20	2	30	0	0	0	0	32	60	10	60	10	60	30	60	45	60	60	60	60	60	50	45	60	60	60	0	60	35	20·6
Noon	60	55	60	0	5	0	0	0	0	15	55	30	60	30	50	0	60	30	60	60	58	60	60	60	60	60	60	35	10	60	12	19·7
13	60	55	60	0	2	0	0	0	10	20	60	20	60	0	20	30	0	0	45	60	60	60	60	60	40	40	60	50	0	60	40	17·1
14	60	60	60	0	20	0	0	0	0	45	60	60	40	0	15	5	0	25	60	60	60	60	60	60	40	10	60	50	5	60	45	17·6
15	60	60	60	0	60	0	0	0	0	0	60	60	0	0	0	0	20	60	60	60	60	25	60	45	50	0	50	20	0	60	60	17·3
16	60	60	60	2	20	0	0	0	5	5	58	60	0	0	0	0	5	10	60	60	60	15	60	60	5	0	60	0	0	45	35	13·3
17	60	35	60	0	0	0	0	0	0	0	50	60	20	10	0	0	35	25	60	60	60	0	35	60	20	30	60	20	0	60	0	1·39
18	0	0	0	0	0	0	0	0	0	0	12	0	15	5	0	0	0	5	60	50	40	0	15	45	0	45	15	10	0	25	10	6·4
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The Total Amount of Registered Sunshine was 197·8 hrs. and the total possible Sunshine was 407·4 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

JANUARY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	2	0	0	0	0	0	0	0	0	0	0	2	7	17	21	0	7	9	18	12	14	0	1	3	1	0	7	0	0	0	0	1·9
7	60	22	47	19	21	0	0	0	1	7	24	38	45	60	60	0	56	60	60	60	60	24	31	59	17	34	60	21	0	51	23	17·0
8	52	19	49	33	52	0	0	2	21	60	46	25	38	52	60	11	60	60	60	60	60	52	33	60	60	41	60	25	21	60	60	21·6
9	60	33	60	42	60	7	0	0	28	60	50	49	60	47	60	60	60	49	60	60	60	60	60	60	60	37	60	47	21	60	60	24·8
10	60	60	60	4	60	22	0	0	0	60	60	43	60	35	60	53	60	60	60	60	60	60	60	60	60	60	60	60	4	60	60	24·7
11	60	60	60	23	60	22	24	6	0	60	60	60	60	0	40	0	60	60	60	60	60	60	60	60	60	60	60	60	20	60	60	24·3
Noon	60	60	52	33	47	18	0	0	0	56	60	60	60	37	17	0	60	60	60	60	60	60	60	60	60	60	60	49	0	60	60	23·1
13h	60	60	12	23	60	24	0	0	4	51	60	60	60	32	0	16	49	60	60	60	60	60	60	60	60	52	60	30	0	60	60	21·9
14	60	43	44	1	26	3	1	0	15	60	60	60	60	9	0	50	27	33	60	60	60	60	60	60	60	0	60	48	0	60	60	20·0
15	60	60	36	0	56	10	0	2	60	60	60	60	60	0	30	35	0	35	60	60	60	60	60	60	60	12	60	5	0	60	60	20·7
16	60	60	54	0	40	32	4	38	60	51	60	60	60	0	22	34	0	52	60	60	60	34	60	31	27	27	60	48	6	60	31	20·9
17	60	60	27	00	12	2	0	2	33	46	60	60	60	0	0	29	0	60	60	60	46	11	60	52	12	8	60	35	0	60	0	16·2
18	48	51	37	0	0	4	0	0	14	9	39	60	60	30	0	0	4	31	60	60	11	4	60	52	27	0	4	9	0	19	0	11·5
19	0	1	0	0	0	0	0	0	0	0	5	23	21	22	0	0	9	0	7	22	0	0	3	0	9	0	0	0	0	0	0	2·1

The Total Amount of Registered Sunshine was 250·7 hrs. and the total possible sunshine was 407·4 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

JANUARY 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	24·5	2·6	24·7	3·4	24·9	3·6	24·7	3·0	25·1	1·6	25·8	1·7	26·4	3·6	24·8	3·4	Midnight
1h	24·2	1·9	24·8	3·4	24·8	3·5	24·4	2·7	25·1	1·6	25·8	1·7	26·5	3·8	24·7	3·1	1h
2	24·3	1·9	24·7	3·3	24·7	3·5	24·8	2·9	24·9	1·4	25·8	1·7	26·6	4·0	24·8	3·0	2
3	24·6	2·3	24·7	3·2	24·8	3·6	24·7	2·5	25·0	1·5	25·6	1·6	26·4	3·6	24·8	2·9	3
4	24·6	2·4	24·7	3·2	24·5	3·5	25·0	2·8	25·0	1·6	25·4	1·4	26·0	3·4	24·5	2·4	4
5	24·0	1·9	24·9	3·2	24·4	3·4	24·9	2·7	25·0	1·7	25·4	1·4	25·9	3·0	24·5	2·2	5
6	24·9	2·4	25·2	3·2	24·3	3·4	25·3	2·9	25·0	1·8	25·3	1·3	26·4	3·6	24·3	2·2	6
7	26·8	3·6	26·0	3·7	25·6	4·3	26·0	4·0	25·5	2·2	25·8	1·6	26·8	3·7	25·0	2·5	7
8	27·1	3·6	26·3	3·8	26·3	4·6	26·7	3·2	26·9	3·1	26·9	2·4	27·0	3·7	25·4	2·4	8
9	28·7	5·1	27·9	5·1	27·9	5·7	26·4	2·7	28·4	3·6	28·0	3·1	26·8	3·4	25·3	2·2	9
10	30·1	6·3	28·9	5·1	28·2	5·8	28·6	4·8	28·9	3·9	28·2	3·6	26·2	2·4	25·8	2·0	10
11	30·9	7·0	29·5	4·7	28·8	5·9	28·0	4·2	29·0	4·0	28·0	2·7	29·1	4·9	26·2	2·1	11
Noon	30·6	6·7	30·1	4·4	28·0	5·1	29·0	5·1	28·7	3·7	29·0	4·6	27·0	3·5	26·4	2·1	Noon
13	31·0	7·0	30·0	5·0	27·3	4·5	28·3	4·6	29·1	4·1	29·1	4·5	27·9	4·4	26·1	2·4	13h
14	31·0	6·8	30·0	6·0	28·0	5·2	28·3	4·6	29·6	4·7	28·3	3·9	27·9	4·4	27·0	3·3	14
15	30·4	5·9	29·4	6·5	27·4	4·9	25·2	1·6	30·0	5·2	28·5	4·1	27·0	3·7	27·5	3·6	15
16	30·3	6·1	28·9	6·1	27·5	5·0	25·4	1·8	27·7	3·1	27·5	3·2	27·6	4·6	28·8	4·8	16
17	28·7	6·3	28·1	5·3	26·3	4·1	25·8	2·3	27·6	3·0	27·1	2·9	26.0	3·3	27·8	4·0	17
18	26·8	4·4	26.4	3·8	25 5	3·5	25·0	1·8	26·7	2·2	27·0	3·3	25·1	2·8	27·2	3·6	18
19	25.8	3·9	25·6	3·2	25·1	3·2	25·3	2·1	26·0	1·6	26·1	2·5	24·2	2·0	26·7	3·1	19
20	25·6	4·0	25·1	2·9	24·8	3·2	25·5	2·0	26·0	1·7	26·1	2·8	24·0	2·0	26·5	3·0	20
21	25·3	3·9	25·0	3·0	24·2	2·9	25·5	1·9	26·0	1·9	26·1	2·8	24·0	2·0	25·8	2·4	21
22	25·3	3·9	24·9	3·1	24·0	2·7	25·5	1·9	26·0	1·9	26·1	2·9	23·9	2·6	25·5	2·0	22
23	25·1	3·8	24·8	3·3	24·3	2·9	25·6	2·0	26·0	1·9	26·1	3·0	24·0	2·7	25·3	1·5	23

JANUARY 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	25·1	1·2	25·8	1·3	26·7	1·7	26·1	2·1	24·7	2·0	25·9	2·4	24·2	1·8	24·0	1·9	Midnight
1h	25·3	1·4	22·8	1·3	26·7	1·7	26·1	2·0	24·2	2·0	25·0	2·0	23·2	1·6	23.0	1·3	1h
2	25·3	1·7	25·4	1·4	26·5	1·6	26·0	1·9	23·6	1·7	24·7	2·6	22·7	1·6	22·5	1·4	2
3	25·4	1·8	25·7	1·3	26·4	1·6	25·9	1·8	23·3	1·5	24·5	2·6	22 7	1·7	22·2	0·8	3
4	25·5	1·9	25·8	1·3	26·0	1·4	25·9	1·9	23·1	1·4	24·7	2·4	22·4	1·5	22·3	1·0	4
5	25·4	1·7	25·8	1·4	25·7	1·4	25·8	1·6	25·1	1·5	24·0	2·2	22·3	1·3	22·8	1·0	5
6	25·2	1·4	25·9	1·4	25·3	1·5	25·7	1·7	22·9	1·4	23·4	1·8	22·2	1·1	23·6	1·1	6
7	25·4	1·5	26·3	1·5	26·7	1·5	27·0	2·1	26·0	2·2	26·0	2·5	26·0	2·4	23·9	1·3	7
8	26·5	2·1	28·0	2·5	28·0	2·3	27·3	2·5	27·2	3·0	28·3	3·9	27·9	3·5	24·2	1·0	8
9	28·0	3·3	29·0	3·3	29·1	3·4	29·2	4·2	30·8	5·8	30·0	4·9	28·8	4·7	27·0	2·6	9
10	27·0	2·6	29·7	3·8	31·0	4·8	29·2	4·2	30·8	5·8	30·0	5·3	29·4	5·2	27·9	3·4	10
11	27·0	2·6	30·0	4·2	31·8	5·5	30·8	5·5	32·4	7·2	29·0	4·6	31·0	6·0	25·2	0·6	11
Noon	29·0	3·6	30·3	4·3	32·6	6·2	31·5	5·7	32 5	7·4	30·5	5·3	30·7	5·8	26·2	1·5	Noon
13h	28·7	3·6	30·9	4·7	32·5	6·2	31·6	5·9	32·2	7·0	31·0	5·3	29·2	4·7	28·0	3·2	13
14	27·9	2·5	31·3	5·1	31·9	6·2	31·3	5·8	31·8	6·7	30·4	5·4	28·8	4·3	28·9	3·7	14
15	28·9	3·7	31·0	4·9	31·5	6·1	31·5	5·6	31·4	6·5	29·2	5·0	30·3	5·3	29·7	4·9	15
16	29·1	4·0	30·5	4·6	30·2	4·8	30·8	5·8	30·2	5·7	28·7	4·7	30·2	5·2	29·0	4·4	16
17	28·0	3·3	29·2	3·6	29·9	4·9	29·6	4·6	32·8	8·2	28·4	4·3	28·3	3·7	28·9	4·6	17
18	27·3	3·0	28·4	3·0	28·8	3·9	29·0	4·1	28·6	4·2	28·7	4·4	26·0	1·8	27·2	2·8	18
19	26·7	2·5	27·8	2·6	27·7	3·0	28·1	3·5	27·6	3·3	28·0	3·8	24·9	1·2	25·8	1·6	19
20	26·3	2·3	27·1	2·0	27·0	2·6	27·3	2·7	27·4	3·0	26·0	2·3	24·8	1·2	25·2	1·2	20
21	26·0	1·7	27·1	1·9	26·9	2.5	26·8	2·4	26·4	2·3	25·9	2·1	25·2	1·1	25·1	1·2	21
22	25·9	1·5	27·0	2·0	26·8	2·4	26·4	2·4	26·0	2·3	25.9	2·0	25·1	1·1	24·5	1·1	22
23	25·8	1·5	27·0	1·9	26·4	2·3	24·8	1·8	26·0	2·3	25·5	2·0	24·9	1·3	24·2	1·1	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(*To obtain temperatures on the Absolute Scale add 273.*)

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Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	24·3	1·4	23·1	0·9	24·2	1·2	24·3	1·6	23·8	2·1	24·6	1·9	25·8	0·4	24·8	2·2	Midnight
1h	24·1	1·5	22·9	1·1	24·0	1·5	24·1	1·5	23·7	2·0	24·5	1·8	25·1	0·2	24·0	1·4	1h
2	23·6	1·2	22·3	0·9	23·6	1·0	24·0	1·3	23·6	1·7	24·6	1·8	24·8	1·0	24·1	1·3	2
3	23·4	1·0	22·3	0·7	23·0	0·9	23·9	1·2	23·4	1·4	24·2	1·7	24·3	2·0	23·4	0·7	3
4	23·7	1·1	22·0	0·8	22·5	1·1	23·8	1·4	23·0	1·6	23·8	1·3	24·1	1·1	23·6	1·2	4
5	23·6	1·0	22·0	0·7	22·5	0·8	22·4	1·0	22·2	1·3	24·4	1·5	24·1	1·5	23·1	1·2	5
6	23·4	0·9	22·1	0·4	22·1	0·7	23·0	1·1	22·2	1·3	24·0	1·5	24·0	1·5	22·9	1·2	6
7	25·9	2·2	25·2	1·4	25·2	1·3	25·8	2·3	25·3	2·7	25·0	1·6	25·7	2·4	25·0	2·2	7
8	27·4	3·4	27·7	3·2	27·4	3·0	27·5	3·8	27·0	4·2	27·1	3·6	26·6	3·2	26·8	3·7	8
9	28·8	4·9	28·7	4·5	28·8	4·3	28·4	5·0	28·6	5·7	28·4	5·1	28·2	4·5	28·1	5·0	9
10	29·7	5·3	29·0	4·9	29·7	5·1	29·7	6·2	29·1	6·0	28·8	5·4	28·9	5·3	28·6	5·3	10
11	30·5	6·5	30·1	5·6	30·7	5·7	30·4	6·4	29·6	6·5	29·7	6·2	29·0	5·5	29·7	6·4	11
Noon	30·8	6·5	30·9	6·5	30·9	6·5	30·3	7·1	29·5	6·4	30·3	6·8	30·1	6·4	29·7	6·6	Noon
13h	31·1	6·4	31·3	7·1	31·2	6·8	30·8	6·8	30·0	6·5	30·4	6·9	29·9	6·2	30·5	7·4	13h
14	28·9	4·9	31·0	6·4	31·2	6·3	30·6	6·6	30·4	7·2	30·4	6·8	30·0	6·4	29·7	6·6	14
15	28·7	5·0	29·7	4·9	31·0	6·1	30·2	6·3	30·0	6·8	30·1	6·2	29·8	6·4	28·4	5·0	15
16	28·9	4·5	29·8	4·8	30·4	5·8	30·0	6·2	28·8	5·6	29·0	5·2	29·0	5·5	28·9	6·1	16
17	27·5	3·5	28·8	3·9	29·7	5·5	29·0	5·5	28·7	5·5	27·9	4·2	28·5	4·9	28·8	5·4	17
18	26·6	2·6	28·0	3·0	28·1	4·1	28·0	4·8	27·2	4·0	27·0	3·3	27·5	4·0	27·3	4·3	18
19	26·1	2·0	26·4	1·5	27·0	3·0	26·9	3·9	26·3	3·2	26·6	2·8	26·3	2·8	26·1	3·2	19
20	25·0	1·8	25·1	1·9	26·0	2·1	25·2	2·6	26·0	2·7	26·4	2·6	26·0	2·5	25·3	2·5	20
21	24·0	1·4	24·7	1·5	25·3	1·6	24·8	2·3	25·1	2·4	26·3	2·4	25·4	1·9	25·0	2·3	21
22	23·6	1·0	24·6	1·6	25·0	1·5	24·2	2·1	24·6	2·1	26·2	2·1	25·6	2·2	24·9	2·3	22
23	23·4	1·0	24·5	1·4	24·8	1·7	23·6	1·9	24·2	1·7	26·1	1·1	25·0	2·0	24·7	2·2	23

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Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	24·2	1·8	23·5	1·5	23·3	1·6	23·9	1·3	24·7	2·2	24·3	1·2	25·3	2·7	24·8	2·0	Midnight
1h	24·0	1·7	23·1	1·3	23·1	1·9	23·6	1·2	24·4	1·8	24·3	1·4	25·3	2·5	24·5	1·9	1h
2	23·7	1·6	23·0	1·2	22·1	1·2	23·6	1·1	24·4	1·9	24·1	1·2	25·3	2·7	24·3	1·8	2
3	23·3	1·3	22·8	1·4	21·4	0·9	23·9	1·4	24·5	1·7	23·7	1·3	24·8	2·1	24·2	1·8	3
4	23·6	1·4	22·4	0·8	21·2	1·2	23·9	1·5	24·4	1·6	23·4	1·1	24·9	2·0	24·1	1·7	4
5	24·1	1·7	22·5	1·4	21·2	1·1	23·8	1·2	24·5	1·7	23·4	1·3	24·7	1·7	23·9	1·6	5
6	24·0	1·4	22·6	0·9	21·1	1·1	23·9	1·2	24·3	1·5	23·5	1·4	24·8	1·6	24·0	1·6	6
7	24·7	1·4	25·0	2·0	24·5	1·5	25·3	2·1	24·9	1·8	24·9	2·0	24·7	2·1	25·5	2·2	7
8	26·5	2·8	26·2	2·9	27·0	3·6	25·9	2·4	25·8	2·6	26·2	3·0	27·2	3·1	26·9	3·2	8
9	27·9	4·2	27·2	4·6	27·8	4·3	27·0	3·6	27·9	4·4	27·4	4·1	28·0	4·2	28·1	4·2	9
10	28·7	5·1	28·5	5·3	29·2	5·9	28·4	4·7	26·0	2·3	28·0	4·6	28·8	4·7	28·7	4·6	10
11	29·6	5·9	30·0	6·7	30·4	7·5	28·5	4·8	26·2	2·9	29·2	5·4	28·9	4·9	29·3	5·1	11
Noon	29·7	6·0	29·6	6·4	30·9	7·9	29·7	5·9	27·4	3·8	29·7	6·0	29·5	5·3	29·7	5·4	Noon
13h	29·7	6·5	29·7	6·5	31·2	7·7	28·6	4·8	25·2	1·4	29·7	6·4	30·9	6·7	29·8	5·5	13h
14	30·1	6·8	28·8	5·1	30·7	7·3	28·2	4·4	26·6	3·0	29·9	6·6	30·2	6·1	29·7	5·5	14
15	29·5	6·1	28·2	3·9	29·6	6·2	28·6	5·3	27·1	3·7	29·7	6·4	29·7	5·7	29·3	5·2	15
16	28·5	5·1	28·6	4·8	29·4	5·4	28·8	5·4	27·5	3·9	28·9	5·3	28·3	4·8	28·9	4·9	16
17	27·2	3·8	28·2	4·3	28·9	5·4	28·1	4·6	26·3	2·7	28·2	4·4	28·0	4·7	28·3	4·4	17
18	26·6	3·6	27·0	4·4	27·4	4·4	27·7	4·7	24·8	1·1	26·7	3·5	27·9	4·8	27·1	3·5	18
19	25·4	2·5	26·1	3·5	26·3	3·1	26·5	3·6	24·7	1·2	26·1	3·2	26·2	3·2	26·3	2·8	19
20	24·4	1·7	25·2	2·6	25·2	1·5	26·0	3·0	24·7	1·3	25·9	3·0	25·8	2·7	25·7	2·4	20
21	24·0	1·4	24·2	2·0	24·7	1·6	25·4	2·6	24·0	1·3	25·8	2·8	25·6	2·5	25·3	2·1	21
22	24·0	1·5	23·7	1·7	24·7	1·5	25·6	2·6	24·3	0·9	25·7	2·7	25·4	2·1	25·2	2·1	22
23	23·8	1·4	23·0	1·3	24·4	1·3	25·2	2·2	24·4	1·1	25·6	2·8	25·3	2·2	25·0	2·0	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during January, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North (0, East 8, South 16 and West 24)

The Velocities are given in Metres per Second, using the factor 2·2

*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

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Day	1st.		2nd.		3rd.		4th.		5th.		6th.		7th.		8th. *		9th. *		10th. *		11th. *		12th. *		13th. *		14th. *		15th. *		16th.	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	12	1·7	11	6·8	11	6·5	11	5·7	10	4·6	10	5·7	11	5·7	12	10·1	20	10·0	27	3·0	28	1·6	26	1·4	24	0·8	24	0·6	10	1·2	14	2·1
1h	13	1·9	13	8·1	11	6·2	11	5·3	10	4·9	10	6·4	11	5·2	13	8·2	20	8·4	28	2·3	28	1·5	24	1·7	24	1·4	24	0·6	10	1·2	14	1·5
2	12	2·4	12	5·5	11	5·8	12	4·9	10	3·8	09	6·5	11	6·3	12	8·3	20	5·0	26	2·1	30	1·8	27	1·8	24	1·5	24	1·1	10	1·6	14	1·6
3	12	1·7	12	4·6	11	5·8	12	4·5	10	5·8	09	6·5	11	5·1	13	9·3	30	11·9	26	2·5	30	1·8	28	1·6	24	1·5	24	1·7	11	1·2	13	1·8
4	12	2·7	12	5·7	11	5·6	12	4·8	10	4·3	10	6·1	11	6·7	14	7·2	20	9·7	28	2·7	30	1·4	28	2·3	24	1·3	24	1·1	11	1·2	12	1·3
5	12	2·4	14	5·7	12	5·2	12	5·0	10	4·8	08	4·9	12	7·0	14	7·4	20	9·4	26	2·4	30	1·4	28	1·1	24	1·8	24	1·6	11	1·3	12	1·9
6	12	4·0	11	5·0	12	5·1	12	5·4	10	4·5	11	6·5	12	6·0	12	6·0	21	6·3	26	2·6	30	1·4	28	2·4	24	1·3	r14	1·2	11	0·9	12	2·1
7	12	4·9	10	4·4	12	7·1	11	5·0	10	5·1	08	4·8	12	6·2	12	11·2	20	5·2	26	3·2	31	2·3	28	3·2	24	1·0	14	1·2	11	1·2	12	2·0
8	13	5·1	10	5·0	11	6·3	11	6·1	10	4·5	10	4·3	12	8·6	12	8·6	20	5·3	26	4·9	02	2·9	27	2·5	24	1·2	12	1·2	11	1·5	11	1·5
9	11	5·5	11	5·3	10	8·5	11	6·5	10	6·5	09	3·2	11	7·8	14	8·4	20	6·7	28	4·9	32	4·5	26	4·0	30	2·4	06	1·2	09	1·5	06	2·2
10	11	6·7	11	6·6	10	8·3	11	7·1	10	6·2	10	4·1	11	6·2	13	10·6	22	5·2	29	4·9	01	5·1	26	4·6	30	3·7	02	2·5	06	1·5	10	2·2
11	11	6·4	10	6·9	10	8·4	11	8·8	08	5·9	10	5·7	12	11·4	13	8·7	24	5·2	26	6·3	30	5·0	27	4·7	30	3·8	28	4·1	d28	4·2	07	2·3
Noon	11	5·8	11	7·7	09	8·5	11	8·8	08	7·4	10	7·9	11	8·2	14	6·3	26	4·8	28	5·4	32	4·8	28	2·2	30	4·4	30	2·3	29	4·4	06	3·0
13h	12	6·6	12	5·9	09	8·4	11	6·7	10	5·0	10	8·8	11	10·6	14	7·5	26	5·4	26	5·2	28	5·5	26	4·4	26	3·1	30	4·0	25	1·4	06	3·1
14	12	7·3	10	6·6	10	8·5	10	9·4	08	10·6	10	7·3	11	9·9	15	7·1	23	7·0	26	5·8	28	4·8	24	5·4	28	4·3	28	4·4	27	2·1	06	4·3
15	11	7·6	12	8·2	11	8·5	10	7·0	11	7·4	10	6·8	12	10·9	16	7·4	24	7·1	28	5·1	28	5·3	26	4·7	29	3·3	26	2·2	26	2·8	03	4·0
16	11	7·1	11	8·0	11	7·4	11	6·0	08	5·4	09	7·6	12	10·8	16	7·0	22	7·1	26	5·5	25	4·3	28	4·2	26	3·7	23	2·9	25	2·9	02	3·6
17	12	6·3	14	8·1	11	6·3	11	6·2	10	7·0	10	5·5	12	6·7	15	9·0	26	5·1	28	4·0	26	4·6	24	4·2	26	4·1	22	1·3	26	2·0	02	2·7
18	12	7·1	12	7·3	11	4·5	12	4·3	10	7·1	09	8·6	12	7·5	18	5·2	28	4·7	28	3·2	24	4·4	24	2·9	22	2·3	22	2·4	22	1·2	04	1·8
19	12	5·9	12	6·4	11	5·1	12	6·5	08	5·1	10	5·6	12	9·0	18	6·7	26	3·5	26	2·2	25	1·5	24	1·9	24	1·8	22	1·8	r13	2·2	07	2·5
20	14	4·3	12	6·3	11	5·8	11	5·8	10	4·2	10	6·3	12	11·0	18	3·4	25	4·3	28	2·4	26	3·0	24	1·4	24	1·8	r11	1·0	13	1·0	06	2·1
21	12	5·8	12	5·6	10	6·7	10	4·2	08	7·9	10	6·7	12	10·8	20	4·3	25	3·4	28	1·5	24	1·9	24	1·7	24	1·1	10	0·7	13	0·7	06	1·9
22	12	5·2	12	6·5	10	6·3	10	3·7	10	5·3	09	8·4	12	8·5	20	6·4	26	3·0	30	2·0	24	1·5	24	1·2	24	0·6	11	0·6	13	0·9	06	2·6
23	12	5·8	12	6·9	10	6·0	10	5·0	10	5·7	10	7·0	12	13·0	20	6·3	26	3·0	30	2·4	25	1·7	24	1·1	24	0·6	10	1·0	13	0·7	08	3·3

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Day	17th. *		18th. *		19th. *		20th.		21st.		22nd.		23rd.		24th.		25th.		26th. *		27th.		28th.		29th.		30th.		31st.		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	07	2·4	10	1·5	25	1·8	10	1·6	11	1·6	10	2·6	09	4·4	10	3·2	11	2·4	10	2·5	11	0·7	10	2·1	10	4·4	09	4·7	10	3·6	3·5
1h	06	2·6	10	1·8	25	1·4	10	1·4	10	1·3	10	2·5	10	3·6	10	2·8	11	2·1	10	1·6	11	1·0	10	1·8	10	3·6	09	4·3	11	4·0	3·2
2	07	2·3	10	1·4	25	1·5	10	1·5	10	1·8	10	2·1	10	4·3	10	3·2	10	1·5	10	1·8	11	1·7	10	1·5	10	2·9	08	3·3	11	4·0	3·1
3	07	2·0	10	1·5	25	1·4	10	1·6	10	2·1	10	2·1	11	3·1	10	3·2	11	1·8	10	1·3	11	1·5	10	2·2	10	3·2	10	3·8	10	3·7	3·3
4	07	2·3	11	1·7	25	1·6	10	1·4	10	2·2	10	2·1	09	3·3	10	3·0	10	2·2	10	1·4	11	1·4	10	2·9	10	2·6	10	2·8	11	3·0	3·2
5	07	2·1	10	1·6	25	1·3	10	1·5	10	1·7	08	1·6	10	3·3	10	2·4	10	2·3	10	2·0	11	1·8	08	4·2	10	3·0	10	3·9	11	3·1	3·2
6	07	1·8	10	1·4	25	1·6	10	2·1	10	1·8	08	2·1	10	3·1	10	2·1	11	2·4	10	1·8	11	1·9	08	3·3	10	3·0	08	2·9	11	3·2	3·1
7	05	2·7	10	1·5	25	1·2	10	2·6	10	1·6	08	2·7	10	2·6	10	1·4	11	2·0	10	2·6	11	1·4	08	4·1	10	3·0	10	3·4	11	4·3	3·4
8	08	3·4	10	1·7	r10	2·9	11	3·5	10	3·8	08	4·6	10	4·6	09	4·0	10	4·0	10	2·3	10	2·9	07	4·2	08	4·5	08	4·8	10	4·7	4·0
9	06	2·6	10	1·6	10	2·9	10	4·4	10	4·1	08	5·2	08	6·2	09	5·3	09	5·0	08	3·6	08	2·2	07	5·5	07	6·6	10	5·8	10	5·5	4·7
10	08	2·1	08	2·0	10	3·5	10	4·4	07	4·6	08	6·8	09	6·4	08	5·5	08	4·4	10	3·6	08	3·3	08	5·8	07	5·4	08	5·7	11	6·3	5·0
11	05	2·5	10	2·6	10	4·1	10	4·2	08	4·8	10	5·6	09	6·7	09	6·1	09	5·2	08	4·4	06	3·8	08	5·3	10	6·2	09	6·1	11	6·7	5·5
Noon	08	3·2	08	3·0	10	4·9	09	4·4	08	5·1	09	6·2	08	6.4	11	6·0	08	5·2	07	4·1	06	3·6	08	5·6	08	6·1	10	6.7	10	6·0	5·4
13h	04	4·2	08	3·0	10	4·4	08	4·4	10	5·4	08	6·0	08	6·0	10	6·0	09	4·7	08	3·1	06	3·9	07	5·5	06	3·8	08	7·5	10	6·5	5·4
14	06	3·1	10	2·9	10	4·5	10	4·5	10	5·7	08	6·3	10	6·1	08	6·4	09	4·9	10	2·9	07	4·1	08	5·0	07	4·5	10	7·3	10	6·8	5·8
15	06	2·1	16	3·5	12	5·0	09	4·8	09	5·5	10	6·5	08	6·1	08	5·8	10	4·6	16	2·7	08	4·1	08	5·0	08	5·5	10	7·2	12	6·1	5·6
16	d16	2·0	21	4·4	10	4·6	10	5·0	10	5·0	09	6·1	08	5·4	10	5·2	10	4·9	20	2·4	08	3·8	08	5·4	07	5·6	09	6·6	10	6·5	5·4
17	21	2·6	21	3·1	08	4·4	10	4·5	10	5·3	08	6·3	09	5·7	09	5·7	08	4·9	18	2·2	08	4·1	08	5·3	09	4·5	11	7·0	10	5·2	5·0
18	18	1·8	r30	1·7	08	4·1	11	4·9	09	4·8	10	5·3	10	4·9	10	5·0	10	4·5	15	3·6	09	3.8	11	4·7	10	3·9	11	5·7	10	4·2	4·4
19	18	0·7	24	1·3	10	2·6	10	3·4	10	3·3	09	5·1	10	4·4	10	3·6	10	3·2	11	3·1	09	2·4	10	3·7	09	3·7	10	5·6	10	3·2	3·8
20	18	0·9	25	1·8	10	2·5	10	2·3	10	3·1	09	5·2	10	3·0	10	2·8	10	2·3	12	2·0	09	1·9	10	3·6	10	3·2	10	4·2	12	3·0	3·4
21	18	1·4	25	1·8	10	0·6	10	2·1	10	2·9	09	5·3	10	3·8	10	2·4	10	2·8	11	1·3	09	1·9	10	3·4	10	3·0	10	4·1	11	3·4	3·4
22	r10	1·6	24	1·7	10	1·7	10	2·1	11	2·5	10	4·9	10	2·6	10	2·7	10	2·9	11	1·4	10	1·9	10	3·0	08	3·9	10	4·0	10	3·7	3·3
23	10	1·8	24	1·8	10	1·4	10	1·9	10	2·2	10	4·4	10	2·8	10	2·5	10	3·3	11	1·8	10	2·2	10	4·8	09	4·4	10	4·4	11	3·0	3·6

Table XIII.—Wind Frequency (Number of Observations), January, 1949

Hour	Force (0–12)			Direction															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...	5	26	...	...	...	...	2	11	11	...	...	...	1	...	3	1	1	1
9	...	12	19	1	...	...	3	9	9	4	1	...	...	1	...	...	1	1	1
15	...	16	15	...	...	1	1	7	5	7	...	2	...	1	...	1	3	3	...
21	...	6	25	...	...	...	1	3	13	6	...	...	1	1	...	5	...	1	...
Totals	...		...	1	...	1	5	21	38	28	1	2	1	4	...	9	5	6	2

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, January, 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	0·2	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...
4	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...
6	...	...	...	...	...	1·3	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...
7	...	...	...	...	...	0·3	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2
8	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...
11	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	3·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9	...	...
14	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	2·2	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...
18	...	...	...	0·2	...	...	1·4	...	...	...	...	...	...	...	4·0	...	...	0·4	...	...	...	...	...	...	...	...	...	...	2·0	...	...
19	...	...	...	0·6	0·5	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...
21	...		...	...	0·6	...	1·0	...	0·1	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	0·2	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·7	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	0·2	...	...	...	0·2	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	...	...

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for January, 1949

Day Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	...	0·7	1·5	3·0	1·1	1·6	3·6	0·9	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	0·2	...
2	...	...	...	1·2	1·5	0·9	0·5	0·3	2·3	6·4	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...
3	...	...	...	1·2	1·8	1·9	...	0·7	6·4	0·4	0·5	0·1	...	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	0·5	...	...
4	0·2	...	...	0·7	1·3	3·5	2·0	2·0	0·2	1·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	1·0	1·3	0·4	2·5	3·0	0·4	0·1	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	0·5
6	0·2	...	...	1·1	1·5	1·3	...	5·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	0·7	...	0·5
7	0·1	0·1	...	1·2	1·3	3·5	...	7·0	0·2	...	0·5	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	0·2	...	...
8	...	0·1	...	0·5	0·8	4·8	0·6	9·8	0·7	0·1	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...
9	...	...	...	0·6	...	4·4	1·6	2·3	1·1	0·1	...	0·1	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	0·2	1·5	...	...
10	...	...	...	...	...	2·0	3·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...
11	...	...	...	0·3	0·2	5·9	...	3·2	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	1·4	...	...	...	...	1·9	...	...
Noon	...	...	...	0·5	2·8	2·3	0·1	8·2	1·1	1·0	...	...	...	...	...	2·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	0·9	2·4	0·6	0·1	9·9	...	...	...	...	...	...	...	...	1·0	3·1	...	...	...	...	...	...	...	...	...	...	2·4	...	...
14	...	...	...	...	0·6	2·1	1·5	5·9	...	...	...	...	...	...	...	3·4	8·4	11·0	0·2	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	3·2	0·6	0·4	0·2	5·9	1·0	...	...	...	...	2·0	...	...	8·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	0·4	0·9	0·6	1·8	5·4	0·2	...	...	...	...	1·0	...	26·6	1·0	0·2	...	...	...	...	0·1	...	...	...	...	...	0·9	0·5	...
17	...	...	...	0·4	2·5	1·1	0·1	3·2	...	0·2	...	...	...	...	...	4·7	...	0·7	...	...	...	...	...	...	...	...	...	...	0·9	...	...
18	...	...	0·2	...	2·3	0·5	1·2	2·9	...	...	...	...	...	...	...	9·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	0·6	0·6	1·3	0·9	1·0	3·9	3·2	...	...	...	...	...	...	2·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	0·5	0·5	0·9	0·5	7·0	4·2	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4	...	...	...	...	...	1·8	...	...
21	...	0·6	0·7	0·5	1·4	...	5·0	2·2	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...
22	...	0·4	0·8	0·1	2·3	...	7·0	0·9	0·1	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3	...	...	...	...	...	0·2	...	...
23	...	0·5	0·3	1·2	2·3	...	2·8	1·4	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	0·3	...	...	...	0·5	...	1·5	...	...
24	...	...	0·7	1·6	2·3	...	0·2	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	0·3	...	...	...	...	1·0	0·7	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts January, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	4·68	118·8	...	14
B. River	Pierre Fonds ...	...	9·89	251·2	10·51	10
	La Ferme ...	350	2·99	75·9	8·52	12
	Richelieu ...	...	2·00	50·9	...	14
	Mon Repos (Palmyre)	...	5·03	127·8	...	10
	Mare-Longue ...	...	17·60	447·0	...	25
	Médine ...	...	3·56	90·4	...	11
	La Meque ...	..	2·75	69·9	...	11
	Albion ...	...	1·31	33·3	...	11
	Beaux Songes ...	...	5·71	145·0	...	10
	Clarens	...	4·35	110·5	...	10
	Mon Désert ...	...	5·03	127·8	...	10
Plaisances	Botanical Gardens	325	1·70	42·2	8·16	16
	Solitude ...	175	2·01	51·1	6·96	2
	La Nicolière ...	...	4·59	116·6	13·37	17
	The Observatory	179	1·40	35·5	8·16	18
	California	...	5·34	135·6	9.76	...
Rivière du Rempart	St. Antoine ...	50	0·74	18·8	6·98	...
	Bel Mont ...	50	0·37	9·4	7·69	...
	Poudre d'Or ...	20	0.56	14·2	7·09	...
	Mon Loisir ...	300	1·42	36.1	9·18	11
	Ravensworth ...	...	1·42	36·1	...	7
	Forbach ...	...	0.56	14·2	8·43	4
	Couroupa ...	...	0·31	8·0	11·33	2
	Labourdonnais	290	0·83	21·0	8·96	5
	Beau Séjour ...	300	9·75	247·7	9.51	14
	Mont Piton ...	680	2·01	51·1	10·49	7
	Mon Choix ...	700	1·27	32·3	10·42	8
	Antoinette ...	640	2·83	71.9	9·88	14
	Mon Songe ...	620	0·90	22·9	10·08	8
Moka	Bonne Veine ...	400	12·98	329·7	18·33	17
	Le Réduit ...	1,000	6 62	168·2	10·00	22
	Côte D'Or ...	...	8·50	215·9	...	8
	Alma ...	1,460	12·27	311·7	17·88	18
	Hermitage ...	1,450	8·97	227·8	17·16	13
	Béga ...	..	8·30	210·8	...	13
	Mon Rêve ...	...	7·15	181·6	...	15
	Mon Désert ...	1,450	9·60	243·8	...	16
	Mont Pévril ...	...	10·33	262.4	...	15
	Minissy ...	1,150	6·49	164·8	12·30	15
Plaines Wilhems	Curepipe Gardens	1,840	22·21	564·0	16·71	23
	Aerological Station	1,393	14·86	377·3	13·40	26
	Mare-aux-Vacoas (G.E.)	1,850	21·41	543·8	19·51	26
	Mare-aux-Vacoas (Arn.)	1,830	20·12	511·0	17·85	26
	La Marie Filter Beds	1,700	18·69	474·7	14·87	22
	Réunion ...	1,420	16·06	407·9	13·10	20
	Phœnix ...	...	9·50	241·3	12·76	12
	Quatre Bornes...	...	4·48	113·8	...	13
	Bagatelle ..	1,250	11·42	290·1	11·66	20
	Pétrin ...	...	20·84	529·3	...	27
	Henrietta ..	...	11·00	279·4	...	17
	Tamarin-Falls ...	...	13·96	354·6	...	15
	Moon ...	...	8·46	214·9	...	15
	Tamarin ...	..	6·55	166·4	...	8

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches	Number
	La Pipe and Midlands Dam	...	14·29	362·7	...	23
	Highlands ...	1,300	13·82	351.0	14·10	20
	Trianon ...	950	7·44	189·0	10·30	15
	Bassin ...	..	7·77	197.4	10·56	11
	Ebène ...	..	6·30	160·0	...	18
Flacq	Mare Sèche ...	20	...	...	8·23	...
	Australia ...	...	2·89	73·4	...	...
	Union Régnard S.E.	600	6·38	162·1	9·87	9
	Constance La Gaieté	100	1·85	47·0	8·94	9
	Belle Vue (Allendy)	900	3·22	81·8	11·28	12
	Sans Souci ...	20	3·14	79·8	16·53	10
	Beau Champ G.R.S.E.	400	3·42	86·9	8·12	12
	Olivia ...	...	3·76	95·5	11·33	15
	Rick Fand ...	...	5·70	144·8	...	12
	Trois Ilots ...	...	4·20	106·7	...	21
	Belle Rive ...	400	3·80	96·5	14·28	15
G. Port	Rose Belle ...	850	7·87	199·9	18·04	22
	Union Park ...	...	8·87	225·3	...	21
	New Grove ...	650	5 30	134·6	15·12	9
	Deux Bras ...	...	5·89	149·6	...	16
	Astroea ...	...	8·62	218·9	...	20
	Mon Trésor ...	...	2·49	63·2	...	9
	Union Vale ...	...	1·80	45·7	...	11
	Beau Vallon...	...	1·67	42·4	...	10
	Mon Désert Carié	75	1·70	43·2	7·85	9
	Ferney ...	20	2·50	63·5	12·35	10
	Ste. Hélène ...	...	1·62	41·1	...	7
	Sauve Terre...	...	2·21	56.1	15·63	8
Savanne	Tivoli ...	1,300	7·92	201·2	...	13
	La Flora ...	1,050	7·68	195·1	17·58	14
	Riche Bois ...	650	2·90	73·7	15·21	12
	Britannia ...	700	3·78	96·0	13·33	12
	Beau Climat...	...	9·75	247.7	...	14
	Savannah ...	200	2.15	54·6	10·89	14
	St. Aubin ...	300	1·52	38.6	10·76	8
	St. Avold ...	900	5·40	137.2	14·05	14
	Colmar ...	400	4·75	120·7	12·85	10
	Union S.E. ...	...	2·04	51.8	9·86	9
	Combo ...	...	3·47	88·1	..	12
	Fontenelle ...	320	2·70	68·6	10·77	10
	Choisy ...	200	.	..	10·35	...
	Beau Bois ...	...	3·58	90·9	10·73	11
	Bel Air ...	...	1·86	47·2	9·67	...
	St. Félix ...	...	...	...	...	...
	Terracine ...	...	2·10	53·3	...	11
	Bel Ombre ...	40	2·40	61·0	9·25	7
	Beau Champ B. du Cap ...	...	2·05	52·1	8·66	8
	Frédérica ...	...	3·33	84·6	8·78	8
	Ste. Marie ...	...	2·43	61·7	...	9
St. Brandon	Met. Station...	...	5·22	132·6	...	20
Agalega	Met. Station...	...	8·38	212·9	...	18
Rodrigues	Oyster Bay ...	...	.11·31	287·2	...	13
Chagos-Archipelago	Salomon Islands (Boddam).	...	10·12	257·0	...	15

Table XVI.—Observations of Pilot Ballons, month of January, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	09.30	147	17	137	16	135	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.25	136	17	144	24	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08.10	142	18	127	19	103	14	120	20	134	14	...	...	...	...	...	...	...	...	...	...	...	...
4	08.40	132	30	127	25	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08.48	114	17	101	22	098	33	106	24	...	...	..	...	...	...	...	...	...	...	...	...	...	...
6	09.02	104	27	093	28	092	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	09.00	141	23	132	44	134	39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	11.35	104	24	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
9	09.15	197	16	189	20	189	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
11	08.00	336	12	338	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	08.45	309	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	08.55	345	07	351	04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	08.30	059	03	029	04	017	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	08.45	098	04	112	04	124	04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	08.40	082	08	070	10	063	09	074	07	093	08	...	...	...	...	...	...	...	...	...	...	...	...
17	08.48	080	08	080	08	139	05	097	05	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	08.35	089	08	067	06	056	07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	08.35	114	08	113	11	120	12	111	11	078	15	...	...	...	...	...	...	...	...	...	...	...	...
20	08.30	123	18	109	11	104	16	099	10	091	15	...	...	...	...	...	...	...	...	...	...	...	...
21	08.40	108	17	100	15	098	14	116	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	08.20	096	11	103	21	097	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.10	114	13	107	22	095	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.55	104	15	103	21	108	20	112	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.30	104	16	105	24	092	17	091	17	094	09	...	...	...	...	...	...	...	...	...	...	...	...
26	08.40	102	07	090	10	099	07	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
27	09.00	098	08	072	10	052	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	11.34	091	08	083	12	082	10	079	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	08.00	097	15	091	25	084	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	07.43	109	19	101	19	102	25	106	19	...	...	...	...	...	...	...	...	...	...	...	...	..	...
31	08.33	115	16	115	21	114	14	091	07	...	...	...	...	...	...	...	..	...	...	...	...	...	...

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VOL. XXXV PART II

LIBRARY
AUG 17 1953
WEATHER BUREAU

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

FEBRUARY, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, JANUARY 1952. 232/1'52 208

Table I.—Results of Magnetical Observations taken during the month of February, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal and Vertical Force (C.G.S. Units)		Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
Feb.	° ′			′		
1	15 —	·22313	.30325	—	46	42
2		317	321	—	48	34
3	27·5	330	318	10·6	41	37
4		—	328	—	—	18
5	—	345	324	—	57	25
6	—	327	335	—	141	30
7	—	319	324	—	68	49
8	26·5	337	324	7·6	41	38
9	26·2	344	323	8·8	47	25
10	26·5	346	319	8·2	18	26
11	25·8	350	322	11·6	64	29
12	26·3	328	325	13·4	37	23
13	26·0	330	319	15·8	35	44
14	25·0	321	319	13·4	37	28
15	25·7	333	319	19·6	85	35
16	26·1	347	316	16·2	57	42
17	25·9	333	321	13·4	112	31
18	25·9	316	325	14·2	115	27
19	26·3	321	323	14·4	29	25
20	27·1	331	319	8·4	57	26
21	25·8	331	319	12·0	68	22
22	27·4	315	326	9·8	60	17
23	27·4	313	328	6·0	24	13
24	27·3	322	318	10·8	55	41
25	26·9	338	317	13·0	52	39
26	27·5	337	319	9·4	26	26
27	27·5	333	318	11·2	43	34
28	27·6	330	317	11·0	38	35
29	—	—	—	—	—	—
30	—			—	—	—
31	—	—	—	—	—	—
Mean	° ′ 15 26·55	.22330	.30322	′ 11·76	55·6	30·7

Magnetic Disturbances—February, 1949

3d. Slightly disturbed.
5d. Slightly disturbed.
6d. Moderately disturbed.
7d. Slightly disturbed.
10d. Slightly disturbed.
11d. Moderately disturbed.
13d. Slightly disturbed.
17d. Slightly disturbed during first half and moderately disturbed during second half.
18d. Moderately disturbed.
21d. Moderately disturbed.
22d. Moderately disturbed.
23d. Slightly disturbed.
24d. Slightly disturbed.
27d. Moderately disturbed.
28d. Slightly disturbed.

T = ·37657 : Mean Dip = 53°37′85 : X = ·21524 : Y = −·059458 : Z = ·30322

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of February, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
2 9 37	15 30·13	2 10 08	·22341	2 9 48	53 36·13	·30324
9 9 31	15 27·83	8 9 47	·22346	9 9 22	53 36·75	·30322
16 9 15	15 31·75	11 9 28	·22350	16 9 06	53 38·06	·30328
23 9 44	15 28·13	15 9 40	·22346	23 9 53	53 38·25	·30318
		18 9 28	·22313			
		23 9 22	·22316			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

FEBRUARY 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	28·0	—	27·0	26·6	—	—	—	28·6	27·4	27·6	27·4	27·2	27·0	26·4	26·8	27·0	Midnight
1h	27·8	—	27·6	27·4	—	—	—	28·0	27·6	27·8	28·2	28·0	27·6	26·8	27·0	27·4	1h
2	27·8	—	27·8	28·0	—	—	—	28·0	27·8	28·0	28·4	28·2	27·8	25·6	27·4	27·6	2
3	27·9	—	27·6	29·6	—	—	—	27·8	28·0	28·0	28·4	29·6	27·0	25·4	26·8	27·8	3
4	28·4	—	28·0	30·4	—	—	—	28·0	28·0	28·0	28·3	28·0	26·0	26·0	27·4	27·0	4
5	29·0	—	28·0	31.6	—	—	—	28·4	28·2	28·3	28·0	29·6	26·4	26·8	28·0	28·0	5
6	30·2	—	28·8	30·0	—	—	—	28·8	28·6	28.6	28·6	30·0	28·0	27·6	29·6	28·8	6
7	32·0	—	29·2	30·6	—	—	—	29·4	29·8	29·4	29·8	32·0	30·6	28·4	32·0	31·6	7
8	33·0	—	30·0	30·0	—	—	—	30·0	30·6	29·8	30·0	33·0	32·8	29·8	33·8	33·8	8
9	32·0	—	30·8	30·4	—	—	—	29·6	29·4	30·0	29·0	31·0	32·0	30·2	31·8	32·8	9
10	28·0	—	32·0	30·0	—	—	—	27·0	25·0	29·0	26·0	27·4	31·4	28·4	28·0	30.6	10
11	25·0	—	32·2	29·4	—	—	22·4	26·0	23·0	27·2	22·0	25·0	28·8	26·0	24·0	27·0	11
Noon	22·8	—	32·0	27·6	—	—	23·0	25·4	22·0	24·8	18·4	21·0	25·0	22·0	19·0	23·6	Noon
13h	19·6	30·0	31·0	25·6	—	—	24·0	24·0	21·8	24·0	19·6	19·6	20·4	18·4	16·0	20·4	13h
14	19·4	26·0	29·6	24·4	—	—	26·4	22·8	23·4	21·8	20·8	20·0	18·0	16·8	14·2	18·4	14
15	20·0	22·0	25·6	23·0	—	—	27·6	22·6	24·0	22·0	22·0	20·4	17·0	17·2	17·6	17·6	15
16	22·8	20·0	23·2	—	—	—	27·8	22·8	24·0	22·8	23·8	21·4	19·8	19·6	20·0	19·8	16
17	25·2	20·8	22·4	—	—	—	28·8	22·4	24·6	24·0	25·6	23·6	23·0	22·4	22·0	23·0	17
18	—	22·6	21·6	—	—	—	28·6	24.8	25·4	25·3	26·4	26·0	25·4	26·0	26·0	25·0	18
19	—	25·6	22·4	—	—	—	27·0	26·0	25·8	25·6	26·0	26·6	25·8	26·2	28·0	25·6	19
20	—	26·0	25·2	—	—	—	27·0	26·4	25·8	25·8	25·8	26·0	25·6	26·4	27·6	25·8	20
21	—	26·0	25·6	—	—	—	26·8	26·0	25·8	25·8	25·6	26·0	25·8	26·0	27·8	26·0	21
22	—	26·0	26·0	—	—	—	27·2	26·4	26·0	25·8	25·4	26·0	26·0	25·6	28·0	26·0	22
23	—	26·4	26·4	—	—	—	27·8	26·6	26·8	26·0	26·0	25·8	26·2	25·8	27·0	25·8	23

FEBRUARY 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	26·4	28·0	28·0	27·8	27·6	27·8	27·3	28·0	28·2	27·4	27·4	27·4	—	—	—	27·4	Midnight
1h	26·4	28·0	27·6	27·6	27·8	29·8	28·0	28·4	28·4	27·8	28·0	28·2	—	—		27·8	1h
2	26·0	26·8	27·4	27·6	28·0	30·0	28·8	28·5	29·0	28·4	28·8	28·3	—	—	—	27·9	2
3	25·6	26·6	27·6	27·8	28·0	30·6	29·2	28·8	28·0	29·0	29·6	29·0	—	—	—	28·0	3
4	26·8	27·4	28·0	28·0	28·0	32·0	29·6	29·6	28·8	29·6	30·0	29·6	—	—	—	28·3	4
5	27·6	27·0	28·4	28·4	29·8	31·8	29·0	29·4	29·6	30·0	30·2	29·8	—	—	—	28·7	5
6	28·0	29·8	29·8	29·6	30·0	30·2	29·2	27·8	30·0	30·2	30·6	30·2	—	—	—	29·2	6
7	30·4	32·0	31·6	31·2	31·8	31·2	30·4	30·6	31·0	32·0	32·2	32·0	—	—	—	30·8	7
8	33·0	32·6	33·0	32·0	31·2	30·4	30·2	32·4	33·0	32·4	32·8	33·8	—	—	—	31·8	8
9	32·0	31·6	32·0	31·8	29·0	28·8	29·2	32·0	32·6	30·4	32·2	32·0	—	—	—	30·9	9
10	28·0	28·0	29·2	29·8	25·4	26·4	27·0	29·6	29·6	28·4	32·0	30·4	—	—	—	28·6	10
11	24·0	24·0	26·4	27·2	22·0	25·0	26·0	26·0	26·0	27·0	29·4	27·6	—	—	—	26·0	11
Noon	22·8	22·8	23·4	26·0	21·2	22·8	25·8	23·0	23·4	25·6	23·0	24·2	—	—	—	23·5	Noon
13h	21·0	20·0	20·8	24·2	19·8	22·2	24·8	22·2	20·2	24·0	21·6	23.8	—	—	—	21·8	13
14	20·4	19·6	18·6	23·6	20·2	22·4	25·0	21·6	20·0	23·0	21·8	22·8	—	—	—	21·1	14
15	19·6	18·4	18·8	23·6	21·0	24·0	24.4	23·6	20·6	23·8	21·8	23·6	—	—	—	21·3	15
16	20·8	19·6	20·0	23·8	21·9	26·0	25·2	23·7	23·8	24·6	24·0	24·2	—	—	—	22·5	16
17	2·12	21·8	22·4	24·8	23·9	27·0	26·0	24·7	25·0	25·8	24·8	25·8	—	—	—	23·9	17
18	24·0	24·6	24·8	25·4	24·8	27·4	36·0	26·0	25·8	26·6	26·4	26·8	—	—	—	25·5	18
19	26·4	25·8	26·0	25·6	25·8	26·0	26·2	27·6	26·2	26·6	26·6	26·6	—	—	—	26·1	19
20	27·6	26·0	26·0	26·0	25·7	25·8	27·4	29·8	26·4	27·4	26·8	26·8	—	—	—	26·5	20
21	27·4	26·4	26·4	26·0	25·0	26·0	27·5	27·8	26·8	27·2	26·6	26·6	—		—	26·4	21
22	27·6	26·6	27·0	26·0	25·6	27·0	27·4	27·6	26·8	26·4	26·6	26·4	—	—	—	26·5	22
23	28·0	27·4	27·2	26·0	25·8	27·4	27·2	27·6	26·6	26·4	26·8	26·6	—	—	—	26·6	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

FEBRUARY 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	300	309	310	322	320	340	289	319	320	343	337	345	332	320	329	322	Midnight
1h	300	301	311	300	320	343	286	318	321	344	336	340	331	320	331	328	1
2	299	302	312	—	321	337	298	321	323	344	335	338	332	334	338	330	2
3	301	305	313	—	323	338	299	320	326	346	342	322	334	337	337	334	3
4	300	308	314	—	327	339	313	323	328	347	341	327	336	333	334	341	4
5	300	308	317	—	332	335	311	324	329	342	342	323	345	335	331	340	5
6	301	310	320	—	338	331	314	327	330	343	350	328	337	329	330	340	6
7	308	312	347	—	342	339	323	337	334	347	340	327	339	327	339	342	7
8	309	322	348	—	347	340	324	336	335	341	347	329	330	316	342	347	8
9	313	335	349	—	350	350	321	338	340	344	352	321	310	308	343	348	9
10	337	343	351	288	355	363	328	342	352	348	359	337	311	307	354	355	10
11	345	349	340	287	360	385	333	350	363	347	380	343	325	300	365	362	11
Noon	343	343	330	286	362	393	354	358	364	349	399	332	340	304	370	370	Noon
13	335	335	325	290	368	385	343	359	367	355	375	330	346	317	362	379	13
14	322	328	323	280	377	364	345	357	363	357	356	335	350	322	356	369	14
15	315	327	330	275	360	335	338	353	362	350	350	330	348	321	340	360	15
16	310	318	340	287	352	310	330	352	354	349	353	332	330	322	339	351	16
17	317	309	340	299	348	290	314	347	349	347	346	329	322	320	330	342	17
18	316	308	337	309	353	288	308	343	348	344	344	320	320	319	328	343	18
19	311	310	332	318	350	275	310	336	342	348	346	308	321	318	317	347	19
20	308	311	331	319	340	274	314	332	346	343	347	313	323	320	308	348	20
21	308	310	340	320	342	252	318	330	345	340	348	320	324	323	285	342	21
22	309	308	330	327	345	275	320	329	341	339	344	327	318	327	287	341	22
23	309	307	330	329	340	299	319	327	341	343	340	335	319	329	310	340	23

FEBRUARY 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	339	260	317	320	299	330	310	317	318	333	338	320	—	—	—	320	Midnight
1h	340	258	318	321	299	335	320	321	320	334	335	322	—	—	—	320	1h
2	347	260	310	323	311	340	310	325	324	337	347	320	—	—	—	323	2
3	358	259	308	324	312	348	318	321	335	337	350	324	—	—	—	325	3
4	347	270	312	325	308	350	312	336	327	338	352	325	—	—	—	326	4
5	341	300	313	321	312	330	315	331	326	337	355	321	—	—	—	327	5
6	350	325	317	322	317	339	312	337	329	338	348	320	—	—	—	329	6
7	353	318	323	324	324	318	317	338	334	336	342	320	—	—	—	331	7
8	347	300	317	327	332	300	312	332	339	334	341	314	—	—	—	330	8
9	338	310	319	326	326	310	311	340	345	336	346	320	—	—	—	331	9
10	340	309	318	329	332	329	314	349	358	340	343	330	—	—	—	338	10
11	350	318	321	335	338	320	318	337	367	347	320	349	—		—	343	11
Noon	357	322	323	343	347	305	320	325	370	352	328	352	—	—	—	347	Noon
13	362	330	327	350	355	307	321	330	368	351	335	346	—	—	—	347	13h
14	360	335	331	349	363	300	314	317	355	347	341	340	—	—	—	344	14
15	354	360	335	350	367	305	310	310	338	334	340	337	—	—		339	15
16	348	370	337	355	362	308	298	302	330	326	322	330	—	—	—	334	16
17	340	373	332	358	355	306	302	294	325	327	317	326	—	—	—	330	17
18	330	364	323	348	347	298	322	295	327	329	318	325	—	—	—	328	18
19	320	355	321	335	338	307	308	300	329	330	320	326	—	—	—	324	19
20	310	330	322	331	327	303	300	310	330	332	321	338	—	—	—	323	20
21	280	315	320	320	319	297	310	316	332	333	312	337	—	—	—	319	21
22	250	304	318	310	320	290	313	317	336	336	314	338	—	—	—	318	22
23	262	312	317	301	320	295	314	317	338	336	316	337	—	—	—	321	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

FEBRUARY 1949

+ ·30000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	333	330	329	322	334	328	336	337	330	327	327	325	327	326	322	329	Midnight
1h	332	330	328	327	333	328	335	338	330	327	328	326	327	325	322	328	1h
2	331	329	327	330	332	328	335	337	330	327	328	327	327	323	322	327	2
3	331	328	327	332	331	328	335	337	330	327	328	328	326	321	321	325	3
4	331	329	327	330	331	327	334	337	330	327	327	324	326	322	322	324	4
5	333	329	327	333	331	327	334	338	330	327	327	328	330	322	323	325	5
6	334	330	327	330	331	327	333	337	330	328	327	327	333	322	325	327	6
7	340	328	328	334	333	328	332	333	335	326	330	330	334	327	330	331	7
8	342	339	328	332	332	329	330	330	333	325	322	330	330	328	327	332	8
9	328	331	330	330	324	320	329	327	327	324	313	333	325	326	320	326	9
10	320	322	329	330	333	327	311	320	314	314	303	320	320	320	310	314	10
11	312	312	323	320	321	338	300	307	310	308	300	320	308	313	300	304	11
Noon	303	304	313	317	313	343	292	300	310	304	310	310	299	310	295	300	Noon
13h	300	297	304	316	310	348	291	300	310	303	320	312	290	300	298	292	13h
14	305	298	303	316	309	350	297	300	311	302	323	315	290	300	302	290	14
15	312	304	300	318	310	350	304	302	312	306	327	318	296	303	312	291	15
16	320	310	293	325	313	347	313	307	315	310	329	324	307	310	320	302	16
17	325	320	302	331	317	344	324	321	320	316	328	330	318	317	324	312	17
18	330	320	310	333	320	340	330	324	323	320	324	330	323	323	327	318	18
19	329	321	314	330	322	336	330	327	325	321	324	330	322	322	326	316	19
20	328	323	315	330	323	333	330	328	325	322	324	329	322	322	325	317	20
21	328	324	316	332	326	333	339	329	325	322	322	329	323	322	328	320	21
22	329	326	318	333	328	333	340	330	327	324	323	328	324	325	330	320	22
23	330	329	321	333	328	334	337	330	327	326	324	327	324	324	330	321	23

FEBRUARY 1949—*continued*

+ ·30000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	322	334	330	326	328	323	332	330	326	323	321	323	—	—	—	328	Midnight
1h	322	334	330	326	328	328	332	330	326	323	321	323	—	—	—	328	1h
2	320	330	329	325	326	330	332	329	326	323	320	323	—	—	—	327	2
3	320	328	328	325	325	330	330	329	324	323	320	323	—	—	—	327	3
4	320	330	328	324	324	331	331	329	324	323	321	323	—	—	—	327	4
5	321	330	328	324	325	333	330	330	326	324	322	324	—	—	—	328	5
6	322	331	329	325	326	327	331	328	327	325	323	326	—	—	—	328	6
7	327	328	332	329	328	330	333	331	329	328	331	331	—	—	—	330	7
8	327	333	333	326	322	331	333	330	328	325	332	324	—	—	—	330	8
9	320	324	328	323	311	326	332	320	320	322	330	314	—	—	—	324	9
10	308	317	320	317	306	322	326	307	310	318	324	310	—	—	—	318	10
11	309	313	317	303	309	320	322	298	300	312	314	300	—	—	—	311	11
Noon	307	310	310	307	310	316	320	291	290	307	300	296	—	—	—	307	Noon
13h	305	307	308	304	310	317	321	290	290	302	298	298	—	—	—	305	13h
14	309	310	308	303	309	318	323	290	294	304	300	304	—	—	—	307	14
15	310	312	310	304	310	324	324	300	306	310	304	313	—	—	—	310	15
16	315	318	311	308	316	326	326	304	314	317	311	317	—	—	—	315	16
17	321	324	322	313	320	328	328	314	320	320	318	318	—	—	—	321	17
18	330	330	323	319	321	327	322	320	321	320	320	317	—	—	—	324	18
19	333	330	323	320	320	325	324	326	320	320	320	318	—	—	—	324	19
20	332	329	323	323	320	326	328	327	321	320	320	320	—	—	—	325	20
21	330	330	324	326	320	329	329	324	322	320	321	320	—	—	—	326	21
22	334	330	325	326	321	331	328	325	322	320	322	321	—	—	—	327	22
23	336	331	326	327	322	331	330	325	323	320	322	321	—	—	—	327	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of February, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—10)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
FEB.	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	961·0	25·2	3·7	19·5	71	22·7	110	4·9	5	21·6	24·5	26·9	22·3	27·2	21·1	6·2	2·1	20	10·7	83
2	960·3	27·1	4·2	20·8	69	24·6	145	4·0	4	21·8	26·6	23·5	22·3	28·5	21·2	7·3	3·5	20	8·0	62
3	959·5	25·4	3·3	20·4	74	24·0	220	1·3	5	20·0	25·2	27·4	21·5	27·5	19·2	8·3	2·1	10	11·0	86
4	959·1	21·5	0·8	20·3	93	23·8	160	2·2	8	18·7	21·3	24·2	20·0	24·9	18·8	6·1	8·9	50	4·6	36
5	961·1	24·3	5·2	15·8	59	17·9	160	2·2	6	19·0	24·0	26·4	20·5	26·4	18·7	7·7	0·0	0	5·0	39
6	961·9	25·1	5·0	17·1	61	19·5	Calm	Calm	1	18·3	25·0	25·5	20·3	26·7	17·0	9·7	0·0	0	2·9	23
7	961·5	25·2	3·3	20·2	74	23·7	45	5·4	6	20·2	24·7	24·9	22·2	26·0	19·8	6·2	0·0	0	2·7	21
8	960·1	23·4	1·0	21·9	91	26·3	20	7·6	7	21·8	23·2	25·5	23·2	25·5	21·3	4·2	26·2	65	...	...
9	962·6	23·4	0·5	22·7	96	27·6	20	8.9	8	22·7	23·0	24·8	23·2	25·8	22·5	3·3	15·0	105	...	...
10	965·8	25·9	3·0	21·4	77	25·5	45	8·1	5	22·5	25·4	22·9	23·5	27·4	22·0	5·4	0·0	0	6·4	50
11	966·4	25·9	2·8	21·8	78	26·1	30	3·1	6	22·7	25·3	27·3	22·3	28·3	22·0	6·3	0·0	0	2·0	16
12	965·7	25·7	3·4	20·6	73	24·2	70	0·9	5	21·0	25·4	27·5	21·8	28·3	20·5	7·8	1·5	15	3·8	30
13	964·7	25·3	2·9	20·9	77	24.7	Calm	Calm	6	20·1	25·1	26·8	22·2	27·6	19·3	8·3	3·7	40	1·4	12
14	963·3	24·9	3·3	19·9	74	23·2	110	3·6	7	21·2	24·2	26·2	21·8	26·8	20·9	5·9	16.0	80	10·1	80
15	964·0	26·0	8·7	20·4	72	24·0	Calm	Calm	7	20·6	25·7	21·2	21·5	26·1	20·4	5·7	41·9	130	6·5	51
16	965·7	26·0	3·8	20·2	71	23·7	Calm	Calm	7	21·0	25·5	22·9	22·2	27·2	20·3	6·9	23·4	95	4·6	37
17	966·1	23·9	1·5	21·7	88	26·0	10	1·8	8	20·6	23·4	20·5	21·3	24·2	20·0	4·2	10.7	350	2·6	21
18	967·0	23·9	2·5	20·0	79	23·4	45	8·1	8	20·4	23·3	25·2	22·2	26·0	19·8	6·2	3·0	55	0·7	6
19	967·0	24·4	2·0	21·4	84	25·5	45	6·3	8	21·5	24·0	25·8	23·0	26·3	20·9	5·4	4·7	35	10·8	86
20	967·3	25·2	2·8	20·9	77	24·7	30	2.2	8	22·3	24·8	26·1	22·5	26·8	21·8	5·0	2·8	30	8·7	70
21	967·6	25·2	3·8	19·3	70	22·4	45	6·7	8	21·7	25·0	25·5	22·1	26·6	21·1	5·5	5·4	75	4·8	38
22	966·0	23·3	1·9	20·4	71	24·0	45	8·5	8	21·6	23·3	21·9	20·8	24·0	21·0	3·0	43·5	300	5·9	47
23	964·7	21·2	0·2	20·9	98	24·7	45	4·9	8	19·8	21·3	24·0	21·2	24·0	19·5	4·5	30·2	455	0·4	4
24	965·8	23·7	1·8	21·0	85	24·9	45	8·1	8	20·5	23·4	23·8	21·2	24·0	20·0	4·0	120·9	645	0·4	4
25	965·2	21·4	1·0	19·8	91	23·1	60	8·9	8	20·6	21·3	24·1	21·2	25·2	20·0	5·2	19·9	165	2·0	16
26	964·1	21·9	0·5	21·1	95	25·0	45	6·3	8	20·5	21·7	24·2	21·3	25·0	20·2	4·8	13·8	155	2·2	18
27	965·8	23·7	1·4	21·6	88	25·8	70	6·7	8	20·9	23·5	24·3	22·5	25·5	20·7	4·8	3·2	20	7·8	63
28	966·2	25·4	3·4	20·2	73	23·7	70	8·1	6	21·6	25·0	25·2	22·0	26·3	21·3	5·0	2·7	15	10·3	83
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean ...	964·1	24·4	2·6	20·4	78·9	24·1	—	4·6	6·7	20·9	24·1	24·8	21·9	26·2	20·4	5·8	405·1	2930	4·87	38·6
Average	964·2	25·0	2·5	21·3	80·0	25·3	—	3·6	7·3	—	—	—	—	27·2	21·0	6·2	307·5	2931	6·83	53·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Excess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	10·8 mbs.	Amount of Rain	—	63·5 mms.
Temperature of the Air	+	3·0 °C	Duration of Bright Sunshine	+	18·2 hrs.
Vapour Pressure	+	2·7 mbs	Mean of Maximum Temperatures	+	2·9 °C
Relative Humidity	—	5·5 %	Mean of Minimum Temperatures	+	2·3 °C
Velocity of Wind	—	0·5 mps.	Absolute Maximum Temperature	+	3·5 °C
			Absolute Minimum Temperature	+	1·2 °C

Table VII.—Daily Results of Meteorological Observations made during the month of February, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation = 100		Vapour Pressure	Minimum of the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
FEB.	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1000·9	− 3·6	31·0	23·4	7·6	26·8	+ 0·9	3·6	21·5	− 0·9	72	− 8	25·6	21·5
2	999·8	− 4·7	31·2	22·8	8·4	25·5	− 0·4	2·4	21·9	− 0·5	80	0	26.3	20·6
3	998·9	− 5·6	31·2	21·0	10·2	26·0	+ 0·1	3·7	20·4	− 2·0	71	− 9	24·0	18·8
4	999·1	− 5·3	29·3	20·7	8·6	24·6	− 1·3	3·1	19·9	− 2·5	75	− 5	23·2	18·6
5	1001·4	− 3·0	32·0	20·5	11·5	25·5	− 0·4	4·6	18·3	− 4·1	64	− 17	21·0	17·5
6	1002·0	− 2·4	28·9	18·2	10·7	24·5	− 1·4	3·9	18·3	− 4·1	68	− 13	21·0	16·2
7	1001·4	− 3·0	29·1	23·5	5·6	26·2	+ 0·3	3·6	20·8	− 1·6	72	− 9	24·6	21·9
8	1000·1	− 4·2	29·1	25·6	3·5	26·7	+ 0·8	2·6	22·9	+ 0·5	80	− 1	27·9	23·0
9	1003·0	− 1·3	29·1	24·4	4·7	26·2	+ 0·3	1·5	24·0	+ 1·5	88	+ 7	29·8	22·1
10	1006·0	+ 1·7	29·2	24·9	4·3	26·8	+ 0·9	2·6	23·0	+ 0·5	80	− 1	28·1	22·4
11	1006·3	+ 1·9	30·1	24·7	5·4	26·6	+ 0·7	2·8	22·5	0·0	78	− 3	27·3	22·1
12	1005·4	+ 1·0	30·3	21·7	8·6	26·0	+ 0·2	3·7	20·4	− 2·0	71	− 10	24·0	19·5
13	1004·3	+ 0·1	31·5	22·0	9·5	26·4	+ 0·6	3·0	21·9	− 0·5	76	− 5	26·3	19·0
14	1003·3	− 1·1	28·9	22·9	6·0	25·5	− 0·3	2·3	22·1	− 0·3	81	− 1	26·6	21·5
15	1004·5	0·0	28·3	22·4	5·9	24·2	− 1·6	1·4	22·1	− 0·3	88	+ 6	26·6	20·5
16	1005·1	+ 0·6	30·0	22·4	7·6	25·6	− 0·2	2·3	22·2	− 0·2	82	0	26·8	20·4
17	1007·0	+ 2·5	25·9	21·8	4·1	23·9	− 1·9	1.3	22·0	− 0·4	89	+ 7	26·4	20·2
18	1007·3	+ 2·8	28·2	22·6	5·6	25·1	− 0·7	1·7	22·6	+ 0·2	86	+ 4	27·4	21·5
19	1007·3	+ 2·7	30·0	23·2	6·8	25·5	− 0·3	1·5	23·3	+ 0·9	87	+ 5	28·6	22·5
20	1007·6	+ 3·0	29·0	24·2	4·8	26·2	+ 0·4	2·1	23·1	+ 0·7	83	+ 1	28·3	22·9
21	1007·6	+ 3·0	29·0	23·4	5·6	25·9	+ 0·1	2·2	22·7	+ 0·3	83	+ 1	27·6	21·7
22	1005·6	+ 0·9	27·0	22·0	5·0	24·3	− 1·4	1·2	22·5	+ 0·2	90	+ 8	27·3	21·5
23	1004·6	− 0·1	26·1	22·1	4·0	24·3	− 1·4	1·2	22·5	+ 0·2	90	+ 8	27·3	20·4
24	1005·4	+ 0·6	27·5	22·5	5·0	24·2	− 1·5	1·0	22·7	+ 0·4	91	+ 9	27·6	20·7
25	1005·2	+ 0·4	27·0	22·4	4·6	24·4	− 1·3	1·3	22·5	+ 0·2	89	+ 7	27·3	20·6
26	1004·1	− 0·8	27·4	23·5	3·9	25·2	− 0·5	1·7	22·7	+ 0·4	86	+ 4	27·6	20·9
27	1005·7	+ 0·8	28·7	24·2	4·5	25·8	+ 0·1	2·4	22·3	0·0	81	− 1	27·0	22·2
28	1006·8	+ 1·9	29·0	23·4	5·6	25·3	− 0·3	2·2	22·1	− 0·1	82	0	26·6	21·6
29	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	1004·1	− 0·4	29·1	22·7	6·4	25·5	− 0·3	2·4	21·9	− 0·5	80·8	− 0.6	26·4	20·8
Average	1004·5	—	29·5	22·8	6·7	25·8	—	2·3	22·4	—	81·4	—	27·0	20·5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of February, 1949

The complex depression noted at the end of January formed into a weak cyclone which moved south-eastwards at about 10 knots passing 200 miles east of Rodrigues on the 1st–2nd.

There were indications of a cyclone about 2,000 miles east-north-east of Mauritius between the 3rd and 5th.

A cyclone formed during the 17th–18th off the north-north-east coast of Madagascar in latitude 15° S. It moved slowly down the east coast and then remained stationary in the vicinity of Mananjary and appeared to be filling up. On the 24th, however, it started to develop and moved south and then south-west crossing inland in latitude 23°–24° S. Its course then changed to south and it regained the Indian Ocean on the 25th near Cap Ste. Marie and moved away south-south-east. Its intensity varied between slight and moderate.

There were some indications of a cyclone moving south about 1,500 miles east of Mauritius between the 25th and 28th.

Mean pressure was slightly above normal, being below normal during the 1st–9th and then mainly above. Mean temperature was slightly below normal. Rainfall was plentiful, 173% of the normal, and well distributed.

Sunshine was low, only 73% of the average.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of February, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
FEB.	mins.	mins.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	0·3	10	8·4	8·3	64	2·4	− 1·0	24·9	26·3	28·5	30·0
2	0·0	—	7·5	4·3	33	2·1	− 1·3	24·9	26·3	28·5	29·9
3	5·9	100	5·9	11·9	92	3·1	− 0·3	24·9	26·1	28·5	29·6
4	0·5	15	6·9	4·6	36	2.8	− 0·6	24·9	26·3	28·4	29·5
5	0·0	—	6·2	11·2	87	2·7	− 0·7	25·0	26·6	28·3	28·4
6	0·0	—	8·2	7·3	57	2·3	− 1·1	24·9	26·6	28·2	29·1
7	0·0	—	7·0	3·6	28	3·4	0·0	25·0	26·6	28·1	29·4
8	7·1	95	6·2	3·9	31	4·6	+ 1·2	25·0	26·5	28·1	29·3
9	38·8	190	2·1	2·8	22	5·2	+ 1·8	25·0	26·4	28·1	29·1
10	0·0	—	5·6	10·5	82	4·0	+ 0.6	25·0	26·6	28·1	28·6
11	0·0	—	6·5	9·8	77	2·6	− 0·8	25·0	26·4	28·0	29·2
12	0·2	5	6·5	7·5	59	1·8	− 1·6	25·1	26·8	28·1	29·1
13	0·3	10	5·7	7·7	61	2·3	− 1·1	25·1	26·7	28·1	29·2
14	6·5	55	6·3	6·6	52	2·1	− 1·3	25·1	26·7	28·1	29·4
15	49·7	140	4·0	3·4	27	1·9	− 1·5	25·1	26·8	28·5	29·5
16	6·3	35	5.1	4·9	39	2·1	− 1·3	25·1	26·9	28·2	29·3
17	9·0	665	6·2	0	0	2·3	− 1·1	25·1	26·8	28·0	29·1
18	5·5	155	1·2	0·6	5	3·8	+ 0·4	25·1	26·6	27·9	28·2
19	7·8	110	3·6	5·7	45	3·0	− 0·4	25·1	26·4	27·8	28·1
20	2·5	35	4·3	3·8	30	3·5	+ 0·1	25·2	26·6	27·6	28·2
21	10·0	95	8·2	5·1	40	3·5	+ 0·1	25·2	26·9	27·6	28·1
22	65·0	505	3·0	2·4	19	4·0	+ 0·6	25·2	25·5	27·6	28·4
23	26·1	440	3·3	0·1	1	4·2	+ 0·9	25·1	26·7	27·6	27·3
24	65·7	575	4·6	1·1	9	3·9	+ 0·6	25·1	27·1	27·3	27·1
25	27·8	290	7·3	3·1	25	4·5	+ 1·2	25·2	27·1	26·9	26·6
26	6·2	155	5·3	3·6	29	3·7	+ 0·4	25·2	27·1	26·6	26·7
27	0·4	15	5·1	9·8	78	4·2	+ 0.9	25·2	27·0	26·6	26·7
28	0·0	—	7·5	11·0	88	4·3	+ 1·0	25·3	26·7	26·7	28·2
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Mean	341·6 Sum	3595	5·6	5·52	43·4	3·22	− 0·16	25·07	26·65	27·86	28·62
Average	1970	1910	5·5	7·60	59·7	3·38	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of February, 1949

Element	*Highest*		*Date*		*Lowest*		*Date*	
Atmospheric Pressure	1009·4 mbs	at	22.00 hrs.	on 17th	996·4 mbs	at	16.00 hrs.	on 3rd
Temperature of the Air	32·0 °C	,,	12.30 hrs.	,, 5th	18·2 °C	,,	05.00 hrs.	,, 6th
Daily range of temperature of the Air ..	11·5 °C	,,	—	,, 5th	3·5 °C	,,	—	,, 8th
Temperature ot the Dew Point	25·0 °C	,,	16.00 hrs.	,, 9th	16·7 °C	,,	07.00 hrs.	,, 6th
Daily range of temperature of the Dew Point...	3·9 °C	,,	—	,, 4th & 6th	1·2 °C	,,	—	,, 20th
Minimum on Grass	—		—	—	16·2 °C	,,	—	,, 6th
Relative Humidity	99·6 %	,,	01 00 hr.	,, 25th	45 6%	,,	14.00 hrs.	,, 5th
Vapour Pressure	31·7 mbs	,,	15·00 hrs.	,, 9th	19·0 mbs	,,	07.00 hrs	,, 6th
Evaporation in 24 hours	8·4 mms	,,	—	,, 1st	1·2 mms	,,	—	,, 18th
Wind Velocity	7.5 m.p.s.	,,	10.00 hrs.	,, 9th	—	,,	—	—
Rainfall in 24 hours	77·9 mms ending 07.00 hrs.			,, 25th	—	,,	—	—
Duration of sunshine	11·9 hrs.		—	,, 3rd	0·0 hr.	,,	—	,, 17th

Mean Day Temperature of Air 26·92°C Average 27·63°C Mean Night Temperature of Air 24·03°C Average 24·11°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunder-storm
5	1	8	1	3	1	2	2	2

Table VIII.—Barogram

FEBRUARY 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	019	016	002	994	016	029	026	015	017	057	068	067	063	038	038	061	Midnight
1h	017	008	997	988	013	022	020	008	009	056	062	063	056	037	037	058	1h
2	010	004	996	979	010	016	016	996	007	055	058	058	054	030	035	055	2
3	010	998	990	977	008	016	013	994	004	051	057	053	048	028	032	055	3
4	008	996	988	976	008	017	017	996	017	054	057	048	043	032	029	049	4
5	012	995	990	975	009	018	016	998	019	057	062	048	044	036	028	048	5
6	017	998	997	978	012	023	013	998	017	058	064	056	047	036	036	052	6
7	019	004	999	985	018	033	018	002	025	059	074	058	056	036	039	056	7
8	017	008	000	990	019	033	020	003	029	061	075	063	057	037	044	055	8
9	016	010	000	995	022	033	023	009	036	068	078	064	062	039	046	050	9
10	012	006	996	996	018	024	018	007	036	073	076	062	054	042	051	051	10
11	008	003	995	995	017	016	018	001	038	076	075	058	046	040	051	049	11
Noon	006	997	985	988	015	010	018	000	037	067	068	056	042	035	048	052	Noon
13h	998	994	978	985	013	005	015	998	035	057	058	052	036	028	039	043	13h
14	996	989	974	983	004	008	006	995	028	056	057	043	036	026	041	040	14
15	995	982	969	980	002	008	001	990	024	052	051	041	031	026	049	040	15
16	992	980	964	978	997	008	998	987	018	047	049	038	025	019	042	036	16
17	993	981	965	983	995	010	001	987	023	048	049	039	027	020	042	038	17
18	998	986	976	988	002	015	006	996	032	055	055	043	028	023	046	043	18
19	009	996	982	998	015	018	011	999	036	058	058	050	035	029	050	048	19
20	016	998	995	007	018	023	017	005	043	062	063	056	039	036	057	057	20
21	018	000	998	015	022	027	019	014	056	070	067	060	039	038	059	060	21
22	021	007	999	018	033	033	021	018	058	076	070	064	040	042	062	066	22
23	019	006	998	018	036	029	017	019	061	071	069	066	041	040	061	068	23

FEBRUARY 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	067	083	080	077	084	071	052	056	069	052	056	066	—		—	1004·8	Midnight
1h	067	079	076	072	079	066	050	055	061	042	052	066	—	—	—	1004·3	1h
2	060	075	073	068	077	056	040	049	057	036	050	061		—	—	1003·9	2
3	059	066	069	064	074	056	038	045	056	034	048	058	—			1003·6	3
4	060	061	066	062	076	053	038	041	054	035	046	058	—	—	—	1003·5	4
5	060	063	070	068	075	055	038	046	052	036	047	058	—	—	—	1003·6	5
6	064	068	075	074	077	057	044	049	057	038	056	060	—	—		1004·0	6
7	075	071	078	079	080	060	052	056	058	038	058	071	—		—	1004·5	7
8	076	076	081	087	088	061	058	057	064	046	060	076	—	—	—	1004·8	8
9	076	080	082	088	089	066	060	061	065	052	068	076	—	—	—	1005·0	9
10	076	078	080	087	088	068	056	060	060	048	068	076	—	—	—	1004·9	10
11	076	079	077	078	087	068	053	059	057	045	066	071	—	—	—	1004·6	11
Noon	073	076	075	075	082	066	049	058	051	041	061	068	—	—	—	1004·3	Noon
13h	066	068	068	075	076	058	041	050	048	036	057	064	—	—	—	1003·7	13h
14	060	070	059	072	067	049	037	046	039	032	050	058	—	—	—	1003·3	14
15	059	062	057	070	060	040	032	044	036	028	046	056	—	—	—	1003·0	15
16	061	060	057	068	059	040	036	038	036	028	047	055		—	—	1002·7	16
17	065	061	057	067	058	042	036	048	037	032	045	058	—	—	—	1002·9	17
18	062	069	064	074	067	045	037	049	038	036	051	062	—	—	—	1003·4	18
19	071	075	072	078	073	048	040	056	041	039	056	075	—	—	—	1004·0	19
20	077	078	077	081	076	055	048	058	054	048	058	078	—	—	—	1004·6	20
21	087	083	083	087	078	058	051	066	056	054	065	080	—	—	—	1005·0	21
22	094	085	086	089	078	059	056	071	056	057	070	085	—	—	—	1005·4	22
23	088	084	082	088	076	056	056	068	055	057	070	084	—	—	—	1005·3	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder

FEBRUARY 1949

Day / Hour Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	–	—	0·0
7	10	35	50	45	50	60	45	2	0	30	20	45	55	35	25	5	0	0	0	0	0	0	0	0	0	0	10	0	—	—	-	8·7
8	45	60	60	20	60	60	30	30	0	60	30	60	60	60	60	50	0	0	0	10	0	30	0	0	0	0	58	30	—	—	—	14·5
9	60	60	60	0	60	60	35	20	0	60	60	60	60	60	60	52	0	0	0	25	0	15	0	10	0	0	12	60	—	—	—	15·5
10	60	60	60	0	60	60	60	15	20	60	55	45	60	60	0	45	0	0	60	0	5	40	0	12	0	0	60	60	—	–	—	16·0
11	60	60	60	15	60	60	30	10	20	60	60	50	50	32	15	10	0	0	5	30	30	0	0	0	0	2	60	60	–	—	—	14·0
Noon	60	60	35	0	60	60	20	5	0	60	55	15	45	30	0	0	0	0	20	15	15	0	0	0	0	30	0	60	—	—	—	10·7
13h	60	60	60	40	60	25	20	0	0	60	40	0	10	25	0	0	0	0	40	12	60	0	0	0	35	35	30	60	—	—	–	12·2
14	60	45	60	35	60	5	32	0	0	60	60	5	0	0	0	0	0	0	60	20	60	0	10	0	45	50	60	60	—	—	–	13·1
15	60	0	60	35	60	0	2	40	0	60	60	5	0	0	0	0	0	0	60	10	58	0	5	0	25	10	30	60	—	—	–	10·7
16	60	10	60	50	60	0	2	25	0	60	60	0	0	0	15	0	0	0	60	0	0	0	10	0	15	5	45	60	—	—	—	10·0
17	60	30	60	35	15	0	2	10	2	60	25	0	12	0	0	0	0	0	40	0	0	0	0	0	0	0	60	60	—	—	—	7·8
18	5	0	35	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	50	—	—	—	3·2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	—	—	0.0

The Total Amount of Registered Sunshine was 136·4 hrs., and the Total Possible Sunshine was 356·1 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

FEBRUARY 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	
6h	0	6	7	9	5	9	0	0	0	1	1	8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—	—	0·9
7	48	60	60	60	60	60	30	0	4	33	38	60	60	52	0	14	0	0	0	1	17	16	0	22	0	0	32	25	—	—		12·5
8	60	60	60	60	60	60	4	3	2	60	60	60	60	60	60	31	0	0	0	41	9	12	0	11	0	0	56	60	—	—	—	15·8
9	60	54	60	46	60	60	34	0	15	60	22	60	43	56	60	37	0	0	6	57	27	34	0	7	0	0	60	60		—	—	16·3
10	60	37	60	30	60	60	60	30	43	60	45	60	60	34	39	32	0	1	3	34	15	47	0	9	0	0	60	60	–	—		16·7
11	60	0	60	0	60	60	14	28	20	60	31	60	60	15	3	34	0	8	55	1	10	37	0	0	2	1	60	60	—	—	–	13·3
Noon	60	6	60	0	60	53	12	25	0	60	46	60	60	42	0	15	0	27	60	24	32	0	0	0	21	0	60	60	–	—	—	14·0
13h	48	0	60	42	60	42	19	6	1	60	60	29	60	32	43	48	0	0	60	7	60	0	4	0	49	36	60	60	—	—	-	15·8
14	33	3	60	9	60	4	35	30	10	60	47	7	16	12	0	39	0	0	41	27	60	0	2	0	54	32	53	60	—	—	–	12·5
15	26	3	60	0	60	16	1	48	34	60	60	32	14	6	0	12	0	0	53	36	57	0	0	0	49	38	54	60	—	—	—	13·0
16	23	0	60	0	60	11	9	39	32	60	60	14	4	37	0	11	0	0	49	0	17	0	0	2	12	57	27	60	—	—		10·6
17	9	6	60	0	58	1	0	23	6	52	60	0	12	0	0	21	0	0	15	0	0	0	0	16	0	36	42	60		–	–	8·1
18	8	21	44	17	9	0	0	4	0	4	58	0	8	44	0	0	0	0	0	0	0	0	0	0	0	15	21	36	–	—		4·8
19	0	3	3	3	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—	-	0·3

The Total Amount of Registered Sunshine was 154·6 hrs. and the Total Possible Sunshine was 356.1 hrs.

154.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

FEBRUARY 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	24·8	2·0	24·5	2·1	22·9	1·0	23·3	1·9	23·5	3·4	21·3	2·0	24·4	2·9	26·2	3·7	Midnight
1h	24·6	2·0	24·2	2·1	22·5	1·0	22·8	2·0	23·1	3·2	20·9	2·0	24·6	3·0	25·7	3·0	1h
2	23·5	1·4	23·7	1·7	22·1	1·0	21·5	1·7	22·6	3·0	20·2	1·6	23·9	2·3	25·9	3·3	2
3	23·9	1·4	24·0	1·9	22·0	1·0	21·0	1·2	22·1	2·5	19·6	1·3	23·8	2·2	26·0	3·4	3
4	24·0	1·5	24·0	2·0	21·9	1·0	20·9	1·4	21·7	2·0	19·0	1·0	24·0	2·2	26·1	3·5	4
5	23·4	1·0	23·3	1·8	21·5	1.0	20·8	1·5	21·0	1·2	18·2	0·6	24·0	2·2	26·1	3·5	5
6	23·6	1·2	23·7	1·8	21·0	1·0	20·7	1·3	20·5	0·6	19·0	1·2	23·7	1·9	25·2	3·6	6
7	24·8	1·9	25·7	2·7	24·0	1·6	23·0	0·6	22·6	2·8	22·4	3·5	25·0	3·0	26·4	3·4	7
8	26·9	3·2	27·9	4.4	26·1	3·4	26·6	2·9	25·5	5·1	26·0	5·3	26·0	3·7	26·7	2·9	8
9	28·0	4·6	29·8	5·8	27·9	4·8	28·6	5·2	27·2	6·3	27·4	6·4	27·1	4·3	25·6	1·5	9
10	29·6	6·8	31·2	6·2	29·2	6·1	28·0	4·2	27·6	6·7	27·2	6·2	28·1	5·1	26·1	1·8	10
11	29·9	6·0	29·6	5·2	30·4	5·9	28·8	5·6	29·8	7·1	28·9	6·9	27·4	4·4	27·4	2·5	11
Noon	30·5	7·1	29·8	4·8	30·1	5·8	27·2	3·9	31·3	8·3	28·6	6·6	26·3	3·0	28·6	3·7	Noon
13h	31·0	7·7	28·7	4·0	31·2	7·3	28·0	4·4	31·1	8·4	28·8	6·8	28·4	4·7	28·0	2·8	13h
14	30·1	5·6	25·5	1·4	30·4	6·1	27·0	4·1	30·9	8·5	27·2	5·2	28·7	5·2	27·0	2·1	14
15	30·1	5·4	26·4	2·1	30·4	6·8	25·7	3·4	29·7	7·4	27·7	5·7	28·2	4·7	28·7	3·0	15
16	29·3	4·6	26·0	2·3	29·9	6·7	26·1	3·9	29·5	6·9	27·1	4·3	28·1	4·8	28·3	3·1	16
17	29·1	5·3	24·2	0·6	29·3	6·4	26·3	4·2	28·7	6·4	26·6	4·0	27·7	4·5	27·7	2·6	17
18	28·5	4·8	25·1	1·5	28·5	6·1	25·2	3·8	27·4	6·0	26·0	4·7	27·0	3·9	26·6	1·6	18
19	27·0	3·7	24·3	1·4	26·9	4·4	24·8	3·8	25·1	4·7	25·4	3·6	26·6	3·7	26·6	1·8	19
20	25·9	3·1	23·5	1·0	26·0	4·0	24·1	3·3	24·4	4·0	25·0	3.6	26·3	3·5	26·2	1·6	20
21	25·5	2·5	23·0	0·7	24·4	3·4	23·6	3·2	23·6	3·6	24·8	3·3	26·2	3·4	26·2	1·4	21
22	25·1	2·2	22·8	0·7	22.9	1·2	23·7	3·3	22·3	1·7	24·5	3·0	26·2	3·3	26·2	1·3	22
23	24·8	2·1	23·0	0·9	23·4	1·7	23·6	3·2	21·5	2·0	24·4	2·9	26·2	3·4	26·2	1·5	23

FEBRUARY 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	26·2	1·8	25·3	1·3	25·8	1·8	23·5	1·5	23·3	1·1	23·8	1·6	23·8	1·4	22·9	0·8	Midnight
1h	26·3	1·7	25·4	1·5	25·4	1·5	23·0	1·2	23·2	1·2	23·2	1·2	23·4	1·4	22·9	0·7	1h
2	26·2	1·7	25·3	1·5	25·2	1·7	23·0	1·6	22·8	1·1	23·6	1·5	23·3	1·3	22·6	0·9	2
3	26·2	1·6	25·2	1·5	25·1	1·5	22·1	1·3	22·7	1·3	23·6	1·5	23·1	1·2	22·4	0·8	3
4	26·2	1·6	25·3	1·6	25·0	1·6	21·9	1·4	22·5	1·5	23·6	1·5	22·9	1·2	22·5	0·7	4
5	26·2	1·6	25·1	1·7	24·7	1·4	21·7	1·5	22·2	1·5	23·3	1·2	22·4	0·9	23·2	0·6	5
6	25·8	1·5	24·9	1·7	24·9	1·3	21·8	1·6	22·0	1·4	22·9	0·9	22·6	1·0	23·3	0·6	6
7	24·7	0·5	25·6	2·3	25·8	1·3	25·2	4·0	24·7	2·1	24·7	1·8	23·5	1·4	24·0	0·9	7
8	25·4	1·2	26·9	2·9	27·8	2·8	27·0	4·7	27·7	3·5	26·7	2·7	26·0	2·3	26·1	2·1	8
9	26·4	1·5	27·7	3·7	27·7	3·3	28·5	5·8	27·8	3·6	27·8	3·3	27·8	3·8	26·6	1·8	9
10	26·9	1·6	28·0	3·2	28·9	4·1	28·1	5·1	30·5	5·5	28·0	3·2	27·8	4·1	27·0	2·4	10
11	27·0	2·2	28·4	4·0	28·7	4·1	29·1	5·7	31·0	5·8	28·4	3·5	27·0	3·0	28·2	3·8	11
Noon	25·0	0·7	28·9	4·3	29·5	4·6	30·0	6·8	31·2	5·9	28·2	3·8	27·2	3·1	28·6	4·6	Noon
13h	26·2	1·2	29·0	4·4	30·1	5·2	29·3	6·5	30·7	5·6	28·0	3·6	27·2	2·7	28·9	4·3	13h
14	27·7	2·1	28·9	4·2	29·7	5·0	29·9	6·3	30·8	6·0	28·0	4·4	22·8	0·3	30·0	5·0	14
15	28·3	3·0	28·9	4·1	28·8	4·5	29·8	5·8	28·9	4·2	26·2	1·5	22·9	0·1	27·6	3·0	15
16	26·9	1·3	28·0	3·2	28·8	4·6	28·8	5·1	28·5	4·0	26·7	3·4	23·2	0·2	27·6	5·6	16
17	26·9	1·9	27·7	2·9	28·0	4·1	27·8	4·7	27·7	3·4	26·6	3·6	23·7	0·8	28·7	5·4	17
18	26·2	1·6	27·0	2·6	27·2	3·7	27·0	3·8	27·9	3·9	26·9	3·2	24·0	0·7	27·5	3·5	18
19	25·8	1·1	26·3	1·8	26·2	2·9	26·4	3·1	27·0	3·1	25·2	2·0	23·8	0·5	26·2	2·5	19
20	26·2	1·4	26·0	1·6	25·4	2·4	25·8	3·0	26·3	2·3	24·6	1·7	23·2	0·4	25·3	1·9	20
21	25·7	1·0	26·1	1·6	24·3	1·7	25·5	3·1	26·0	2·2	24·0	1·3	23·2	0·5	24·8	1·3	21
22	25·7	1·0	26·1	1·9	23·8	1·6	25·0	2·7	24·7	1·7	24.3	1·3	22·9	0·6	23·9	1·3	22
23	25·6	1·1	25·9	1·6	23·4	1·3	23·4	1·2	24·4	1·8	23·9	1·4	22·9	0·5	23·8	1·2	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

FEBRUARY 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	23·0	0·2	23·4	0·7	24·3	0·7	25·0	1·4	25·2	1·4	24·3	0·8	24·0	2·0	24·4	1·7	Midnight
1h	21·8	0·5	22·6	1·2	23·6	1·0	24·9	1·3	25·2	1·5	22·0	1·9	23·3	1·6	23·6	1·1	1h
2	22·0	0·5	22·7	1·0	24·7	1·1	25·0	1·4	25·1	1·8	24·0	0·7	23·0	0·4	22·9	0·4	2
3	22·1	0·4	23·1	1·2	24·0	0·6	24·8	1·6	25·0	1·9	24·1	0·8	23·1	0·5	22·5	0·3	3
4	22·5	0·5	23·6	1·2	24·1	0·6	24·6	1·1	24·9	1·7	24·7	1·2	23·3	0·8	22·6	0·3	4
5	22·4	0·4	23·8	1·2	23·7	0·4	24·7	1·2	23·9	1·7	24·7	1·3	23·6	0·9	22·9	1·0	5
6	22·6	0·5	23·9	1·3	23·6	0·5	24·9	1·4	24·2	1·2	24·3	1·3	23·2	0·5	23·9	1·1	6
7	23·0	1·0	24·3	1·3	23·7	0·8	25·2	1·2	24·7	0·9	24·4	0·9	23·6	0·7	24·8	1·2	7
8	23·8	0·8	25·4	1·9	24·0	1·0	25·6	1·4	25·0	1·0	24·0	0·2	23·1	0·2	25·8	2·0	8
9	25·1	1·3	26·2	2·2	24·8	1·5	27·2	2·7	26·4	3·0	25·4	1·6	23·3	0·3	25·3	2·2	9
10	25·7	1·5	27·4	3·2	24·9	0·9	27·7	3·1	27·2	3·5	26·2	1·8	24·1	0·5	27·2	2·4	10
11	25·6	1·3	27·9	3·3	26·9	2·3	27·8	3·1	27·4	3.9	26·3	2·1	24·9	1·5	27·0	2·9	11
Noon	24·9	2·5	28·2	3·7	27·2	2·8	27·8	2·9	27·6	3·4	24·3	0·8	24·9	1·7	24·3	0·8	Noon
13h	25·2	2·2	27·5	3·3	27·3	2·4	28·2	3·5	28·3	4·0	23·6	0·7	25·6	1·9	26·5	1·6	13h
14	24·5	1·7	26·0	1·7	27·6	2·7	29·0	4·0	28·1	3·3	24·2	0·8	25·6	1·6	25·5	1·2	14
15	25·1	1·7	26·5	2·4	27·6	2·6	28·8	4·2	28·0	3·8	24·6	1·4	25·9	2·1	23·9	1·0	15
16	25·0	1·7	25·3	1·4	27·7	2·3	28·0	3·2	27·2	3·2	25·1	2·5	24·3	0·8	24·0	0·9	16
17	24·9	2·5	25·5	1·4	27·7	2·7	27·1	2·8	26·9	2·8	24·2	1·7	25·2	1·7	22·8	0·2	17
18	24·3	2·3	25·4	1·1	26·7	2·2	26·7	2·4	26·1	2·7	23·0	1·0	24·9	1·5	23·1	0·2	18
19	24·4	1·6	24·8	1·2	25·8	1·7	25·3	1·7	25·6	2·0	23·8	1·2	24·2	1·1	23·7	0·7	19
20	24·5	1·4	24·5	1·1	25·0	1·1	25·1	1·4	25·0	1·2	23·9	1·4	24·8	1·7	23·2	0·3	20
21	23·3	1·1	24·8	1·2	25·5	1·4	25·4	1·2	25·0	1·3	23·3	0·9	25·0	1·7	23·9	0·8	21
22	23·1	0·8	25·1	1·3	25·4	1·3	25·2	1·2	25·0	1·4	23·4	0·8	25·1	2·0	24·0	0·3	22
23	23·4	0·7	24·9	1·1	25·2	1·3	25·3	1·3	24·3	1·0	22·7	0·7	25·0	2·0	23·2	0·2	23

FEBRUARY 1949—*continued*

Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	22·6	0·2	23·8	0·8	24·5	1·5	24·0	1·0	—	—	—	—	—	—	24·1	1·6	Midnight
1h	22·6	0·1	23·8	0·5	24·3	1.4	23·8	0·9	—	—	—	—	—	—	23·7	1·4	1h
2	23·0	0·2	24·2	0·8	24·3	1·4	23·6	1.0	—	—	—	—	—	—	23·6	1·4	2
3	22·4	0·3	23·5	0·4	24·2	1·4	23·4	0·5	—	—	—		—	—	23·4	1·3	3
4	22·5	0·3	23·6	0·5	24·3	1·5	23·5	0·6	—	—	—	—	—	—	23·4	1·3	4
5	22·5	0·3	23·7	0·5	24·5	1·9	23·5	0·9	—	—	—	—	—	—	23·3	1·3	5
6	22·9	0·5	23·9	0·7	24·7	2·1	23·7	1·2	—	—	—	—	—	—	23·3	1·3	6
7	23·0	1·0	24·4	0·8	25·0	2·0	24·2	0·7	—	—	—	—	—	—	24·3	1·6	7
8	23·6	1·0	25·6	1·6	26·2	2·3	26·3	2·4	—	—	—	—	—	—	25·8	2·4	8
9	23·9	1·0	25·1	1·4	27·2	3·0	27·3	3·2	—	—	—	—	—	—	26·8	3·2	9
10	25·1	1·6	25·4	1·7	27·0	3·0	27·6	3·5	—		—	—	—	—	27·4	3·5	10
11	25·9	2·5	25·9	2·4	27·2	2·9	27·8	3·8	—	—		—	—	—	27·9	3·9	11
Noon	26·5	2·4	26·3	2·2	27·3	3·3	27·7	3·5	—	—	—	—	—	—	27 8	3·8	Noon
13h	26·7	2·6	27·1	2·9	27·3	3·5	27·9	3·8	—	—	—	—	—	—	28·1	4·0	13h
14	27·0	2·8	27·2	2·9	27·8	3·8	28·0	3·9	—	—	—	—	—	—	27·7	3·7	14
15	26·3	2·1	27·2	3·5	27·6	4·3	27·8	4·3	—	—	—	—	—	—	27·4	3·5	15
16	26·3	2·5	27·0	3·3	27·0	3·6	27·3	3·8	—	—	—	—	—	—	27·0	3·3	16
17	26·1	2·4	26·0	2·4	26·9	3·2	26·8	3·8	—	—	—	—	—	—	26·7	3·2	17
18	25·2	1·9	25·6	2·2	26·1	2·6	25·9	3·1	—	—	—	—	—	—	26·1	2·8	18
19	25·3	1·8	25·4	1·9	26·6	3·2	24·0	1·7	—	—	—	—	—	—	25·4	2·2	19
20	23·0	0·5	25·0	1·6	25·0	1·6	23·7	1·7	—	—	—	—	—	—	24·9	1·9	20
21	24·0	0·7	24·8	1·4	24·7	1·4	23·4	1·5	—	-	—	—	—		24·6	1·7	21
22	24·8	1·3	24·6	1·3	24·5	1·2	23·0	1·1	—	—	—	—	—	—	24·4	1·5	22
23	24·7	1·8	24·4	1·4	24·2	1.0	22·6	1·1	—	—	—	—	—	—	24·2	1·5	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during February, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

FEBRUARY 1949

Day	1 *		2 *		3 *		4 *		5		6		7		8		9		10		11		12 *		13 *		14 *		15 *		16 *	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	11	2·0	13	2·5	10	0·7	13	1·1	12	2·1	10	1·4	10	2·8	05	3·4	04	4·2	05	4·7	06	2·6	06	2·5	14	1·5	12	3·5	11	0·8	17	0·[illegible]
1h	11	1·4	13	2·3	10	1·2	06	1·0	13	3·3	10	2·1	10	2·7	06	3·4	04	4·4	05	4·2	03	1·9	06	1·4	14	1·8	12	2·9	10	1·6	17	1·[illegible]
2	12	1·7	13	2·0	10	1·0	07	1·1	13	2·2	10	2·0	07	2·4	06	4·3	04	5·0	06	3·6	06	2·1	07	0·8	12	1·5	07	1·1	10	2·6	17	1·[illegible]
3	11	1·3	13	2·4	10	1·0	10	0·7	13	1·8	10	1·8	08	2·1	05	4·0	04	4·6	06	3·7	06	2·1	09	1·8	08	1·7	10	1·9	11	2·2	17	1·[illegible]
4	12	1·2	13	1·6	10	1·1	10	1·2	13	3·0	10	2·1	08	2·1	05	4·5	05	4·4	06	3·4	06	2·2	10	1·3	08	1·6	10	2·7	10	2·1	17	1·[illegible]
5	11	1·7	13	0·8	10	1·4	10	0·6	13	2·1	10	1·8	08	2·1	03	4·6	04	4·4	06	3·4	06	1·8	10	1·6	08	1·9	08	2·6	10	2·3	10	2·[illegible]
6	12	2·6	13	1·4	10	1·1	10	0·6	13	2·2	10	1·6	08	3·4	05	4·5	04	4·6	06	3·5	07	1·7	10	1·5	08	1·8	10	3·0	19	2·7	12	2·[illegible]
7	10	2·0	18	1·8	10	0·6	10	0·6	13	1·7	10	1·6	08	2·1	05	4·3	02	4·9	06	3·3	07	1·8	10	1·2	08	1·5	10	2·1	10	1·8	12	2·[illegible]
8	10	3·5	14	2·8	10	0·6	d22	3·0	13	2·5	10	1·1	08	2·7	05	5·1	05	5·1	05	5·3	06	3·7	10	2·1	09	1·1	r15	1·8	12	2·4	07	2·[illegible]
9	10	5·1	13	2·7	14	1·8	22	3·9	14	3·4	10	1·3	06	3·7	04	5·3	04	7·2	06	5·2	04	3·8	06	1·8	03	1·3	05	1·3	11	2·8	04	2·[illegible]
10	12	4·4	d26	1·8	20	3·6	22	3·6	d23	3·4	12	1·8	05	4·4	04	5·0	02	7·5	06	5·1	04	4·0	07	2·3	30	1·9	30	3·0	d30	1·3	04	2·[illegible]
11	10	4·5	26	2·6	20	5·3	r13	3·8	25	2·1	10	2·8	05	4·4	04	5·0	03	7·3	06	5·0	02	3·2	05	2·9	26	2·8	32	2·8	d07	3·0	05	2·[illegible]
Noon	09	4·5	27	3·0	20	6·7	13	2·8	29	2·0	10	3·7	07	4·1	04	6·9	02	5·5	06	5·2	02	3·3	05	3·0	28	4·4	r17	1·6	10	2·4	05	2·[illegible]
13h	14	3·4	31	3·3	20	6·6	11	5·2	28	3·7	09	3·5	07	3·7	02	5·2	02	5·2	05	5·6	05	3·6	04	2·3	22	3·8	10	4·7	14	2·6	04	3·[illegible]
14	d22	3·0	06	2·5	20	7·1	12	4·4	25	3·5	08	3·4	06	4·2	02	5·2	02	6·8	06	5·8	04	3·9	29	2·4	22	4·1	05	2·3	18	4·7	02	3·[illegible]
15	23	2·7	08	1·8	21	6·7	12	4·5	26	4·4	09	3·7	04	4·0	02	6·1	02	7·0	04	4·4	04	3·4	30	2·9	22	4·1	05	1·4	18	2·0	03	4·[illegible]
16	28	2·4	10	2·2	20	6·9	12	5·0	27	3·3	06	3·3	06	4·3	01	5·9	02	5·6	06	4·7	05	3·8	24	2·5	22	4·4	11	3·1	18	1·7	04	1·[illegible]
17	02	1·6	10	2·9	20	5·8	12	4·8	27	2·7	06	2·7	06	3·5	04	4·4	02	5·3	06	4·4	06	2·9	22	1·9	22	3·9	11	2·4	18	0·8	r28	1·[illegible]
18	06	1·7	09	2·0	20	4·7	12	4·6	r14	4·1	08	2·5	05	4·0	02	3·5	03	4·1	06	3·9	05	2·9	17	0·8	22	3·2	10	1·8	18	1·3	28	1·[illegible]
19	10	1·0	08	1·9	17	3·8	12	4·4	12	2·9	09	1·8	06	3·7	03	3·1	04	4·3	08	3·1	06	2·1	18	0·7	17	1·6	10	1·6	18	0·6	28	0·[illegible]
20	10	1·5	08	1·6	17	2·0	12	2·7	11	2·1	09	2·0	06	3·3	03	3·1	05	5·2	08	3·0	06	1·4	18	1·2	10	1·1	10	1·1	18	1.0	28	1·[illegible]
21	16	1·6	10	1·6	17	1·3	10	1·8	11	2·3	09	1·9	07	3·3	03	4·0	04	4·1	08	2·6	06	1·5	18	1·4	07	1·1	10	1·2	18	0·7	28	1·[illegible]
22	15	1·7	10	1·4	17	1·0	12	1·6	11	1·8	09	2·2	06	3·6	03	3·8	04	4·0	07	2·7	06	1·5	18	1·1	07	1·1	10	1·5	18	1·7	28	1·[illegible]
23	15	1·5	10	1·8	13	1·4	12	2·5	11	1·5	09	2·7	07	3·9	04	4·4	05	3·9	06	2·4	06	2·2	14	1·6	10	1·8	10	1·5	18	1·4	d08	3·[illegible]

FEBRUARY 1949—*continued*

Day	17		18		19		20		21		22		23		24 *		25		26		27		28		29		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	02	3·3	10	4·0	10	1·5	06	4·9	07	3·0	09	3·6	06	3·1	06	3·8	06	1·3	08	4·1	06	4·1	08	3·1	—	—	—	—	—	—	2·7
1h	06	2·6	10	4·7	09	1·6	06	2·5	07	3·0	08	3·9	06	3·7	06	4·3	06	1·0	08	3·5	06	2·1	08	3·3	—	—	—	—	—	—	2·6
2	09	1·3	10	3·8	08	2·2	06	2·8	06	2·3	07	3·3	06	3·7	06	3·1	06	3·5	07	2·3	06	3·1	08	3·0	—	—	—	—	—	—	2·5
3	09	1·9	10	3·1	08	2·4	06	2·6	07	2·5	06	2·0	06	4·0	06	3·8	08	4·0	08	2·5	06	3·5	10	3·1	—	—	—	—	—	—	2·5
4	09	1·2	11	4·8	08	2·0	06	2·2	06	3·0	06	3·3	05	3·8	08	4·7	08	4·2	08	1·9	07	3·1	10	2·6	—	—	—	—	—	—	2·6
5	08	1·2	08	5·3	06	2·1	06	2·3	06	2·9	06	3·3	08	3·3	08	3·4	08	4·1	08	1·7	08	3·9	10	2·8		—	—	—	—	—	2·5
6	09	1·7	09	5·0	06	2·2	06	2·8	08	2·3	06	2·9	06	4·1	06	3·8	08	4·4	08	2·4	07	2·6	10	4·3	—	—	—	—	—	—	2·7
7	09	2·6	08	4·9	10	2·6	05	3·4	07	2·0	07	4·4	05	4·0	06	4·6	08	5·0	08	2·3	09	3·4	10	4·6	—	—	—	—	—	—	2·8
8	09	1·8	08	4·4	07	3·5	06	4·2	07	4·0	06	4·1	06	3·8	06	5·6	07	5·3	07	3·0	07	3·5	10	3·9	—	—	—	—	—	—	3·3
9	09	1·6	08	4·8	08	3·6	06	3·4	06	3·9	06	5·3	06	3·8	06	5·0	06	5·8	06	5·6	07	5·2	08	4·6	—	—	—	—	—	—	3·8
10	09	1·6	06	5·2	09	4·8	05	4·5	06	4·9	05	5·8	06	3·8	04	6·0	06	6·6	06	4·8	06	4·5	08	5·9	—	—	—	—	—	—	4·1
11	09	1·8	06	4·8	06	3·7	04	5·0	06	4·0	06	5·5	06	4·4	04	6·5	06	6·7	05	4·4	05	3·7	07	5·8	—	—	—	—	—	—	4·1
Noon	07	2·4	06	4·6	08	4·7	06	4·7	07	4·2	07	4·8	06	4·8	32	4·4	05	6·4	06	6·5	06	6·8	07	5·0	—	—	—	—	—	—	4·3
13h	07	2·1	07	4·4	07	4·4	03	4·7	06	4·4	07	4·7	07	4·5	03	4·0	06	7·1	06	5·1	06	4·5	08	6·3	—	—	—	—	—	—	4·4
14	09	2·5	10	3·8	08	4·0	03	4·3	07	5·2	07	5·7	05	5·0	05	4·3	05	6·5	06	5·4	06	6·2	07	5·8	—	—	—	—	—	—	4·5
15	10	3·1	06	4·1	05	4·2	05	3·9	07	4·1	07	5·0	06	5·4	06	4·2	04	6·2	06	4·4	08	6·2	08	5·3	—	—	—	—	—	—	4·3
16	10	2·1	08	2·5	02	3·2	06	3·5	08	4·4	07	4·3	06	4·1	09	4·0	06	5·6	06	5·1	07	5·5	08	5·4	—	—	—	—	—	—	3·9
17	10	2·5	09	2·6	04	3·1	06	3·1	08	3·2	07	3·9	06	5·0	06	3·2	06	4·6	06	5·0	06	5·1	08	5·6	—	—	—	—	—	—	3·5
18	10	2·6	09	1·8	04	3·1	08	3·3	08	4·0	06	4·4	06	4·3	08	2·6	06	3·9	06	3·1	07	5·3	09	4·8	—	—	—	—	—	—	3·2
19	10	3·1	09	2·8	04	2·4	08	2·4	08	2·7	07	3·1	06	4·3	07	3·2	06	3·3	06	3·4	08	5·7	09	3·3	—	—	—	—	—	—	2·8
20	10	3·6	09	2·9	05	2·2	08	3·0	09	2·9	07	3·8	05	4·2	10	3·0	06	3·1	06	3·5	08	3·5	09	3·3	—	—	—	—	—	—	2·6
21	07	3·0	09	2·8	06	1·5	08	4·2	10	2·7	05	3·4	06	4·5	06	2·0	06	2·2	06	2·8	08	3·1	10	3·5	—	—	—	—	—	—	2·4
22	07	2·5	09	2·9	05	2·8	08	3·2	09	4·1	06	3·8	05	4·5	06	1·8	06	3·4	06	3·4	08	3·4	10	3·5	—	—	—	—	—	—	2·6
23	10	3·3	09	2·5	06	3·0	08	3·2	10	3·2	07	2·3	05	4·5	07	2·6	04	3·6	06	2·8	08	3·1	10	3·8	—	—	—	—	—	—	2·7

Table XIII.—Wind Frequency (Number of Observations), February, 1949

Hour	Force (0—12)			Directions															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	...	28	..		2	7	8	6	4		1	..	...	..	...	...	...	...
9	...	3	25		...	6	10	5	2	2	2	...	...	..	1	...	...	...	...
15	...	5	23	..	2	8	4	6	1	1	...		1	1	1	1	1	...	1
21	...	...	28	...	...	3	6	8	5	1	...	2	2	..		...	...	1	...
Total ...	...	...	...	.	2	19	27	27	14	8	2	3	3	1	2	1	1	1	1

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, February, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	.		...	...	...			...	...	...	...	...	0·8	...	...	2·5	...	...	...	...	3·7	1·1	5·0	8·0		...	...	...	..	...
2	...	...	..	..	...	...	...	...	...	...	..	..	...	...	...	...	0·9	0·2	...	0 1	..	0·6	3·7	3·3	9·0	1·6	...	...	...	...	...
3		...		...	...	...	...	...	...	...		...	...	...	...	..	0 3	0·1	...	...	...	...	1·7	2·5	3 1	0·2	...	...	...	...	...
4	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	0·3	...		...	...	0·1	0·2	0·6	3 4	3·6	...	...	..	...	...
5	...	...	...	..	...	..	...	...		...	...	...		...	...	...	0·3	.	2·7	...	0·7	1·4	0·2	...	...	0·5	0·4	...	...	...	...
6	...	.	...	...	.	...	...	...	0·6	...	...	...	...	...	...	...	0·3		3·3	...	...	0·6	4·0	...		..	...	...	...	...	...
7	0 3	..	...	...	...	...	..		4·4	...	...	...	...	...		...	...	0·2	0·8	...	0·1	...	7·2	...	0·1	...	...	...	...	...	...
8	...	...	...	..	...	...	.	0·1	5·3	...		...	...	...	...	...	...	.	0 3	2 0	4 0	5·0	0·6	...	...	...	..	...	...	...	...
9	..			. .	...	.	..	0·7	5·9	...	...		...	...	...	...	...	...	...	...	...	...	3·0	...	...	.	...	...	...	...	...
10	...	...	...	...	...	...		0·3	...	...	...	...	...	...	...	...	..	...	0·4	...	..	1·4	2·4	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	0·1	...	...	...		...	...	10·0	...	0·3	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	1·3	...	...	...	...	...	3·0	...		...	...	...	5·3	...	0·2	...	...	...	..	8·0	...	3·2	..	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	1·5	2·0	...	...	...	...	...	...	...	0·3	...	...	...	...	24·0	...	...	...	...	...	...	...	...	...
14	...	...	0·3	...	...	...	...	3·0		...	...	...	...	...	15·0	...	0·2	...	..	...	...	2·0	...	0·7		...	...	...	...	...	...
15	...	...	0·2	0·5	...	...	...	...	...		...	...	...	5·7	19·2	...	0·3	...	...	.	...	1·2		1·3	0·2	...	...	...	...	...	...
16	...	...	...	...	...	.	..	...	4·8	.	...	...	...	...	0·2	...	...	...	...	...	...	...	1·6	0·2	...	...	...	...	...	...	...
17	...	...	4·0	...	...	...	...	0·2	0·5	.	..	...	...	...	...	...	0 2	0·1	..	...	0·1	0·6	0·4	11·8	...	...	...	...	..	...	...
18	...	...	0·1	...	...	..	...	1·1	0·2	...	...	...	...	...	...	...	...	0·9	...	...	...	3·7	...	5·4	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	0·5	...	0·2	...	...	..	...	...	...	...
20	...	...	...		...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	1·5	0·9	...	6·5	3·4	...	...	...	..	...	...
21	...	...	...	...	..	...	...	...	6·1	...	...	...	...	...		0·8	0·2	...	...	0·4	0·4	2·4	...	0·5	0·4	...	...	...	...	...	...
22		...	...	...	...	...	..	...		...	...	...	...	...	...	...	1·9	0 2	...	...	...	1·7	..	5·5	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	0·1	3·7	...	..	...	...	...	...	...	0·3	0·8	0·2	..	...	6·0	...	10·0	...	...	..	..	...	...	...
24	...	...	...	...	...	...	...	...	2·3		...	...	0·3	...	...	5.5	0 5	2·7	...	...	3·2	1·2	...	9·0	0·2	0·3	...	...	...	...	...

Table XIV.*b*—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for February, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	3·0	...	0·4	0·3	0·9	5·8	2·9	...	...	...	...	...	...
2	0·3	...	.	...	...	...	...	...	...	...	...		...		...	...	2·4	...	...	...	...	0·5	1·4	2·4	9·8	5·3	...	0·2	...	...	...
3	0 7	...	...	..	...	...	...	...	...	...		...	.	...	...	...	1·3	0·3	0 7	0·3	0 6	...	0·5	2·2	0·8	3·0	0 8	2·4	...	..	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	0·2	...	0 2	...	2·0	0·6	5·0	1·5	0·1	...	...	..	...
5	1 1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	0 4	...	0·8	0 9	0 2	0·6	2·0	..		2·0	0·2	...	...	...	...
6	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	0·1	0 1	...	...	0·6	1·2	5·4	...	0·3	...	...	...	...	...	...
7		...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	0 5	...	...	1·0	0·3	3.3	4·3	...	...	0·3	...	...	..		...
8	...	...	...	...	..	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	2·0	...	...		...	0·1	..	...	...
9	...	...	...	1·1	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	0·2	0·7	0·1	0·2	0·3	.	...	...	...	...
10	...	...	...	7·8	...	...	...	0·2	2·4	...	...	...	...	...	...	...	...	...	...	...	...	...	0 6	0·1	...	...	...	...	...	...	...
11	...	...	...	...	...	...	..	0·3	0·3	...	...	...	...	...	1·4	...	...	...	...	...	...	0·9	0·1	...	...	...	...	...	..	...	...
Noon	...	...	...	...	...	...	...	0·3	2·9	...	...	...	...	...	6·6	...	0·5	...	...	...	...	1·5	...	0·2	...	...	0·5	...	...	...	...
13h	...		...	...	...	...	...	1·2	...	...	...	...	...	...	10·6	3 0	...	...	...	...	...	23·7	...	5·4	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	11·6	0·7	...	...	...	1·3	0·3	9·9	8·4	0·7	0·5	...	...	...	2·2	...	2·4	...	...	0·2	...	...	...	...
15	..	2·3	...	...	...	...	...	11·9	...	...	...	...	..	6·3	11·6	1·5	0 5	1·2	...	...	...	0·3	...	2·8		...	...	.	...	...	...
16	...	1·2	...	...	...	...	...	0·2	3 9	..	...	0·2	0·8	9·4	1 8	10·5	0·6	...	...	...	0·5	0·3	1·8	0·8	...	...	...	...	...	..	...
17	...	...	...	...	...		...	...	0·2	...	...	1·3	...	...	...	...	...	..	...	...	...	...	5·6	0·4	...	1·0	...	...	...	...	..
18	..		.	...	...	...	...	0·2	0·8	...	...	...	...		...	...	0 4	0·4	...	...	0·4	0·7	...	22·8	...	...		...	...	...	...
19	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	..	...	...	0·4	...	...	...	0·7	...	2·9	...	0·2	...	...	...	...	...
20		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	...	3·0	...	..	..	...	...	...	...
21	...	...	...	...	...	...	...	...	0·9	..	...	...	...	...	...	...	0 2	...	...	...	...	0·1	0·2	9·6	0·2	...	...	..	...	...	...
22	...	...	2·1	...	...	...	...	...	0·7	...	...	...	0·9	...	...	...	1·5	...	...	...	0·6	2·9	1·8	32·5	...	0·2	..	...	..	...	...
23		...	...	...	...	...	...	0·3	0 7	...	...	...	0·7	...	...	...	...	0·2	...	0·6	...	1·6	0·9	9·0	0·4	...	...	...	...	...	...
24	...		...	..	...	...	...	...	0 7	...	...	...	...	...	...	...	0·3	...	...	...	1·6	...	...	17·9	0·3	...	1·4	...	...	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, February, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Falls in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	17·69	449·3	—	15
B. River ...	Pierre Fonds ...	—	9·51	241·6	7·96	13
	La Ferme	350	7·84	199·1	—	12
	Richelieu	—	9·24	234·8	—	15
	Mon Repos (*Palmyre*)	—	8·47	215·1	—	13
	Médine	356	8·50	216·2	—	14
	La Mecque	275	6·94	176·3	—	13
	Albion	131	6·86	174·2	—	11
	Beaux Songes	571	7 83	198·9	—	13
	Clarens	435	6·41	162·8	—	12
	Mare Longues ...	—	—	372·6	—	19
	Mon Désert	503	6·38	162·1	—	11
P/mousses	Botanical Gardens ...	325	11·36	288·4	8·97	19
	Solitude ..	175	13·22	335·8	5·19	12
	La Nicolière	—	16·97	431·0	12·75	21
	The Observatory ...	179	13·45	341·6	7·51	21
	California ...	—	14·32	363·7	—	—
Rivière du Rempart	Saint Antoine .	50	8·39	213·1	6·31	—
	Bel Mont	50	7·88	200·2	6·90	—
	Poudre d'Or	20	8·61	218·7	6·48	—
	Mon Loisir	300	11·80	299·7	—	19
	Ravensworth	—	—	372·6	—	17
	Forbach	—	9·01	228·9	7·94	14
	Couroupa	—	8·89	225·7	6·36	12
	Labourdonnais .	290	8·93	227·0	8·55	13
	Beau Séjour	300	—	—	9·24	—
	Mont Piton	680	12·00	304·8	10·41	14
	Mon Choix	700	10·91	277·1	9·71	15
	Antoinette	640	14·28	362·7	9·99	18
	Mon Songe	620	14·10	358·1	9·94	22
Moka ...	Bonne Veine ...	400	26·10	662·9	15·48	20
	Le Réduit	1,000	14·16	359·6	10·05	23
	Alma	1,460	28·31	719·1	18·15	23
	Côte D'Or	—	—	436·9	—	15
	Hermitage	1,450	16·28	413·5	15·57	16
	Béga	—	10·81	274·6	—	16
	Mon Rêve	—	13·19	589.0	—	17
	Mon Désert	1,450	19·16	486·7	—	16
	Mont Pévril	—	20·05	509·3	—	17
	Minissy	1,150	12·98	329·7	12·11	17
Plaines Wilhems	Curepipe Gardens ...	1,840	23·56	598·4	17·16	22
	Aerological Station ...	1,393	15·95	405·1	13·15	26
	Mare-aux-Vacoas (G. End.)	1,850	20·47	519·9	18·33	19
	Mare-aux-Vacoas (Arnaud)	1,830	22·22	564·4	18·39	23
	La Marie Filter Beds ...	1,700	20·45	519·4	15·40	17
	Réunion	1,420	19·14	486·2	13·60	19
	Phœnix	—	15·69	398·5	—	15
	Quatre Bornes ...	—	9·53	242·1	—	16
	Bagatelle	1,250	16·53	419·9	14·10	19
	Pétrin	—	—	501·7	—	22
	Henrietta	—	—	297·7	—	19
	Tamarin-Falls ...	—	—	282·7	—	16
	Moon	—	—	279·7	—	16
	Tamarin	—	—	233·7	—	12
	La Pipe Midlands Dam ...	—	—	642·4	—	22
	Highlands	1,300	20·04	509·0	12·08	22
	Trianon	950	14·55	369·0	10·77	17
	Bassin	—	9·23	234·4	9·50	16
	Ebène ...	630	12·59	319·8	—	17
Flacq ...	Mare Sèche ...	20	—	—	5·39	—
	Australia	—	6·05	407·7	—	—
	Union Regnard S. E. ...	600	20·18	512·6	10·21	20
	Constance La Gaieté ...	100	13·05	331 5	8·53	19
	Belle Vue Allendy ...	900	14·98	380·5	8·80	19
	Sans Souci ...	20	26·89	683·0	16·53	20
	Rich Fund	—	—	376·4	—	19
	Beau Champ G.R.S.E. ...	400	15·04	382·0	7·44	18
	Olivia	—	13·14	333·8	10·81	19
	Trois Ilots	—	17 99	456·9	—	20
	Belle Rive	400	16·25	412·8	10·44	20
G. Port ..	Rose Belle	850	24·85	631·2	17·65	23
	Union Park	—	—	662·9	—	24
	New Grove ...	650	23·07	586 0	15·12	16
	Deux Bras	—	31·37	796·8	—	21
	Mon Trésor ...	—	18·06	458·7	—	19
	Astroea	—	—	614·4	—	21
	Union Vale	—	14·74	374·4	—	18
	Mon Désert Carié ...	75	14·30	363·2	8·04	19
	Beau Vallon ...	—	—	313·4	—	14
	Ferney	80	16 45	417·8	11·45	19
	Sauve Terre ...	—	17·82	452·6	—	17
	Ste. Hélène ..	—	—	369·3	—	12
Savanne	Tivoli	1,300	26·29	667·8	17·69	20
	La Flora	1,050	21·86	555·2	16·07	20
	Riche Bois ...	650	15·80	401·3	10·72	19
	Britannia	700	20·21	513·3	13·83	19
	Beau Climat ...	—	—	677·2	—	20
	Savannah	200	12·24	310·9	10·32	19
	Saint Aubin ...	300	12·41	315·2	9·35	20
	Saint Avold ...	900	19 06	484·1	15·01	20
	Terracine	—	—	311·4	—	19
	Colmar	400	21·86	555·2	11·08	19
	Union Sugar Estate ...	—	13·46	341·9	8·54	17
	Fontenelle	320	14·60	370·8	8·61	18
	Choisy	200	6·27	159 3	7·45	7
	Beau Bois	—	20·00	508·0	—	21
	Bel Air	—	14·05	356·9	8·70	13
	Saint Félix	—	14·18	360·2	—	15
	Bel Ombre	40	10·44	265·2	8·40	—
	Beau Champ B. du Cap...	—	8·37	212·6	7·82	—
	Frédérica	—	9·63	244.6	8·43	—
	Sainte Marie ...	—	8·68	220·5	—	—
	Combo	—	—	387·6	—	—
St. Brandon	Met. Station ...	—	5·75	146·1	—	16
Agalega	Met. Station ..	—	4·25	108·0	—	12
Rodrigues	Oyster Bay	—	2·05	52·1	—	7
Chagos Archipelago	Salomon Islands Boddam	—	17·15	435·6	—	9

Table XVI.—Observations of Pilot Balloons, month of February, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.25	116	14	125	15	120	13	130	10	180	17	...	...	...	...	...	...	...	...	...	...	...	...
2	08.15	168	09	160	07	110	04	170	02	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08.20	237	03	200	12	215	14	225	16	237	19	233	18	249	19	275	12	...	...	...	...	...	...
4	08.20	251	10	233	12	240	18	213	12	219	17	...	...	...	...	...	...	...	...	...	...	...	...
5	08.30	206	04	215	06	247	15	268	21	...	..	...	...	...	...	...	...	...	...	...	...	...	...
6	08.15	167	03	200	02	258	03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	08.30	075	10	063	09	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...
8	08.38	066	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	08.55	046	19	036	32	...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...
10	08.40	076	21	067	20	059	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	07.29	068	13	064	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	07.27	079	09	086	11	155	08	121	10	146	11	081	03	086	05	...	...	...	...	...	...	...	...
13	07.38	054	03	333	01	096	03	105	05	198	06	...	...	...	...	..	...	...	...	...	...	...	...
14	08.35	056	01	167	02	356	04	297	05	324	03	281	08	253	07	...	...	...	...	...	...	...	...
15	08.10	128	04	129	01	165	03	343	06	289	06	284	09	307	11	319	07	297	10	248	32	...	...
16	08.30	017	09	062	07	089	09	036	12	...	...	...	...	...	...	...	..	...	...	...	...	...	...
17	08.40	073	10	048	14	047	21	032	23	024	08	043	16	048	18	...	...	...	...	...	...	...	...
18	08.32	093	19	074	28	070	30	076	26	047	06	...	...	...	...	...	...	...	...	...	...	...	...
19	08.37	087	16	066	19	078	19	055	10	063	17	...	...	...	...	...	...	...	...	...	...	...	...
20	08.45	058	15	040	24	045	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08.34	074	15	067	20	061	19	054	16	068	11	079	10	038	09	034	09	...	...	...	...	...	...
22	09.10	067	25	055	25	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	10.15	063	19	047	24	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
24	10.20	051	30	049	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.11	085	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	08.35	067	20	061	23	055	21	053	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	08.43	073	17	064	22	061	15	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
28	08.13	090	18	088	20	087	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

VOL. XXXV PART III

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Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12s·6 E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

MARCH, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, FEBRUARY 1952. 828/2/52—208

Table I—Results of Magnetical Observations made during the month of March, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
MARCH	′			′		
1	—	·22332	·30317	—	83	30
2	—	322	325	—	84	25
3	—	318	321	—	55	30
4	—	331	323	—	66	23
5	—	338	320	—	33	23
6	15°27·4	336	312	11·8	41	43
7	26·7	337	313	13·2	44	31
8	27·0	334	317	8·7	26	14
9	27·2	321	320	7·0	100	19
10	26·7	325	316	13·6	70	42
11	27·0	328	317	11·0	43	29
12	26·2	328	315	14·6	42	39
13	26·9	304	323	8·6	60	21
14	26·4	275	325	11·4	68	37
15	27·2	279	324	8·6	53	37
16	27·2	317	322	14·2	91	49
17	28·1	295	326	13·2	55	34
18	27·8	292	331	6·6	49	22
19	28·4	313	323	9·0	34	27
20	27·7	318	319	11·0	37	30
21	27·4	313	322	8·2	45	26
22	26·6	—	333	11·2	—	27
23	28·2	—	334	9·8	—	27
24	28·2	293	330	8·0	28	34
25	27·9	306	327	10·2	30	22
26	27·5	304	323	9·8	45	32
27	27·6	318	323	11·2	67	33
28	27·2	326	319	12·2	70	38
29	27·8	311	318	13·0	44	45
30	27·0	312	321	10·4	43	28
31	26·9	326	318	11·4	61	34
Mean	15°27′·32	·22316	·30322	10′·69	54·0	30·6

Magnetic Disturbances—March, 1949

1d. Moderately disturbed.

3d. Moderately disturbed.

4d. Slightly disturbed.

9d. Slightly disturbed.

13d. Moderately disturbed.

14d. Moderately disturbed.

15d. Slightly disturbed.

16d. Moderately disturbed.

17d. Slightly disturbed during first half and moderately disturbed during second half.

18d. Slightly disturbed.

20d. Slightly disturbed.

22d. Very disturbed period starting at $00^h\ 30^m$ and ending at $23^h\ 10$ on the same day. The range was over 110γ.

23d. Moderately disturbed.

28d. Slightly disturbed

29d. Slightly disturbed.

30d. Slightly disturbed.

T=·37649: Mean Dip=53°38′·88: X=·21509: Y=−·059468: Z=·30322

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of March, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
1 8 58	15 30·67	1 9 21	·22337	1 8 50	53 37·50	·30321
8 9 37	15 29·75	8 9 16	·22331	8 9 49	53 38·63	·30324
15 9 39	15 30·13	11 9 27	·22324	15 9 50	53 39·25	·30319
22 9 12	15 29·25	15 9 18	·22294	22 9 22	53 38·50	·30320
29 10 05	15 32·87	22 9 45	·22282	29 10 12	53 39·13	·30323
		25 9 34	·22299			
		29 9 45	·22308			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

MARCH 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	27·5	—	—	—	—	28·2	28·2	28·3	28·0	30·0	28·2	27·4	26·2	29·8	29·8	29·4	Midnight
1h	28·0	—	—	—	—	28·8	28·3	28·6	28·2	29·8	28·8	27·8	26·8	29·8	29·9	29·8	1h
2	28·2	—	—	—	—	29·6	28·5	28·4	28·8	29·8	29·2	28·4	27·8	30·4	29·8	29·2	2
3	28·8	—	—	—	—	29·4	28·7	28·4	29·0	29·6	29·0	28·8	28·0	28·2	29·2	29·3	3
4	29·4	—	—	—	—	29·0	29·0	28·5	29·2	29·8	28·6	29·2	29·4	27·6	28·2	29·4	4
5	29·8	—	—	—	—	29·4	28·6	28·2	28·4	29·8	28·4	29·4	27·0	26·4	29·0	28·2	5
6	30·2	—	—	—	—	30·0	28·4	28·0	28·4	29·6	28·6	29·9	26·0	27·6	26·8	29·6	6
7	31·2	—	—	—	—	31·6	30·6	29·6	30·0	30·4	29·8	30·6	28·0	25·0	29·6	30·8	7
8	31·0	—	—	—	—	32·8	32·2	30·0	30·2	32·6	30·8	32·8	30·2	28·0	30·6	32·6	8
9	30·4	—	—	—	—	33·0	33·0	30·2	29·8	31·2	32·0	32·0	30·6	29·6	30·2	32·4	9
10	28·8	—	—	—	29·8	31·2	30·4	30·3	30·0	29·0	30·6	29·8	28·6	28·0	29·8	31·0	10
11	—	—	—	—	27·4	26·0	27·6	29·8	29·2	25·6	28·4	25·0	26·0	26·0	27·2	28·2	11
Noon	—	—	—	—	25·6	25·2	25·0	28·0	27·8	22·0	25·4	21·4	23·6	24·0	24·4	25·0	Noon
13h	—	—	—	—	23·0	22·4	21·6	25·4	24·8	20·0	22·4	19·6	22·0	20·0	21·6	20·6	13h
14	—	—	—	—	21·0	21·2	19·8	23·0	23·6	19·0	21·0	18·2	23·2	19·0	20·0	18·4	14
15	—	—	—	—	21·4	21·4	20·0	21·6	23·2	19·8	21·6	19·6	24·0	22·0	20·6	18·8	15
16	—	—	—	—	22·6	22·4	20·2	22·4	24·0	21·8	22·4	22·0	26·0	24·2	24·2	20·8	16
17	—	—	—	—	25·6	24·2	23·0	23·6	23·2	24·0	24·0	23·6	26·8	26·0	27·4	24·0	17
18	—	—	—	—	27·4	26·0	25·0	24·8	23·8	25·4	25·6	24·4	26·2	26·2	27·6	26·0	18
19	—	—	—	—	27·2	26·4	25·8	25·0	24·0	26·0	26·0	24·8	26·8	25·4	27·8	25·8	19
20	—	—	—	—	27·0	27·0	26·0	26·0	25·2	26·6	26·8	25·2	27·0	26·8	27·0	26·0	20
21	—	—	—	—	27·2	27·2	26·4	26·2	27·0	26·8	27·0	26·0	27·8	27·8	27·2	27·8	21
22	—	—	—	—	27·6	27·4	27·0	26·8	27·2	26·6	26·6	26·0	28·4	27·4	27·4	28·2	22
23	—	—	—	—	27·7	27·4	27·3	27·0	28·0	27·4	26·8	26·4	28·4	28·2	28·2	29·9	23

MARCH 1949—*continued*

15° +

Day / Hour	17d	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	30·0	29·8	27·8	27·6	28·0	28·1	30·6	28·5	28·0	28·4	28·2	28·0	28·5	28·4	28·0	28·5	Midnight
1h	29·9	30·2	28·8	28·0	28·8	28·2	29·2	28·9	28·3	28·2	28·4	28·2	29·9	29·4	28·0	28·8	1h
2	30·0	30·0	29·6	28·0	29·0	27·2	28·4	28·6	28·8	28·6	29·2	28·0	28·8	29·2	28·6	28·9	2
3	30·2	30·2	29·4	28·0	28·2	28·6	28·6	28·8	29·2	28·0	29·0	28·4	29·8	29·4	29·4	29·0	3
4	30·8	25·2	28·8	28·2	27·9	27·8	29·0	28·6	29·6	27·2	29·0	29·2	30·0	29·0	29·3	28·8	4
5	31·0	28·2	28·8	29·4	27·2	24·2	29·4	28·8	29·4	28·0	29·2	29·4	28·0	29·3	28·6	28·5	5
6	32·0	28·4	29·0	30·0	28·0	28·0	30·0	29·6	29·5	29·8	29·4	29·2	29·6	29·6	29·8	29·0	6
7	33·0	28·2	31·0	32·0	29·9	30·0	32·0	30·4	30·4	30·4	30·4	30·2	29·8	29·8	30·2	30·1	7
8	33·6	29·6	33·0	33·8	30·4	29·2	33·8	32·8	32·2	32·2	32·4	32·0	31·0	30·0	31·2	31·5	8
9	33·2	30·0	33·4	34·0	30·6	29·8	31·2	32·6	31·6	31·2	32·8	31·8	32·6	30·0	30·4	31·5	9
10	32·4	28·0	32·0	30·0	30·2	28·0	31·0	31·8	31·8	32·0	31·2	30·2	33·0	29·4	29·0	30·3	10
11	30·0	27·0	30·0	28·0	29·8	24·0	30·0	29·6	30·0	30·0	29·8	28·0	30·4	25·8	26·4	28·0	11
Noon	27·0	25·2	27·4	26·2	27·4	21·8	26·4	27·0	26·4	26·9	26·0	25·0	27·5	23·6	22·6	25·3	Noon
13h	22·0	24·0	25·6	23·6	24·2	20·0	24·4	25·4	23·6	24·0	22·4	21·6	23·6	22·0	20·0	22·6	13h
14	20·4	23·6	24·4	23·0	22·4	18·8	24·2	24·8	22·4	22·4	21·6	19·6	20·0	19·6	19·8	21·3	14
15	21·2	25·4	25·6	23·2	22·6	20·6	24·0	25·6	22·0	23·0	22·6	22·8	21·6	20·8	20·8	22·1	15
16	24·2	26·8	25·8	24·0	23·8	24·8	24·0	25·8	22·4	23·2	24·0	24·0	24·0	23·0	23·0	23·6	16
17	25·4	28·0	26·0	25·0	24·8	27·3	25·0	26·2	27·0	24·6	25·6	25·6	25·6	25·0	25·2	25·2	17
18	26·2	27·8	26·8	26·2	26·0	27·8	26·4	26·0	27·6	26·4	26·0	26·4	26·8	26·8	27·4	26·2	18
19	25·6	27·6	27·6	26·4	26·4	27·2	27·2	26·8	27·8	27·0	26·6	26·0	26·4	27·6	27·6	26·4	19
20	26·4	27·8	27·4	26·8	27·0	27·8	29·0	27·0	27·9	27·0	27·3	26·8	27·0	27·8	28·0	27·0	20
21	25·8	28·0	27·5	27·4	27·2	28·4	27·8	27·6	27·9	27·4	27·4	27·2	27·2	27·4	27·8	27·3	21
22	27·2	29·8	27·2	27·8	29·2	30·4	28·0	27·8	28·0	27·2	27·2	27·6	27·2	27·6	27·6	27·7	22
23	27·8	29·2	27·6	28·0	27·8	30·0	28·2	27·8	28·6	27·6	27·4	27·8	28·0	27·8	27·4	27·9	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

MARCH 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	+ ·22000 (C.G.S. UNIT)																
Midnight	339	304	298	291	330	332	333	327	330	299	310	327	313	282	254	268	Midnight
1h	338	305	320	305	331	337	331	326	331	305	314	328	321	276	262	280	1h
2	340	310	330	312	332	333	332	325	338	309	316	328	325	280	270	308	2
3	339	319	331	319	332	334	334	329	331	311	317	329	326	291	274	313	3
4	340	327	333	327	337	336	331	331	330	310	320	329	310	307	286	322	4
5	341	326	335	328	335	337	336	330	335	310	321	329	325	301	280	330	5
6	336	329	343	329	338	338	338	330	330	312	323	328	330	290	307	329	6
7	339	330	342	330	337	333	339	335	322	310	324	330	314	300	296	331	7
8	338	332	334	329	321	324	338	333	324	311	321	320	320	308	290	317	8
9	339	340	330	328	324	315	331	334	323	320	322	311	308	307	281	308	9
10	343	345	323	330	336	323	344	340	329	332	329	320	311	295	293	310	10
11	356	353	321	335	350	340	362	349	341	360	340	330	325	274	295	317	11
Noon	367	369	324	343	347	351	369	348	354	368	345	339	321	286	302	325	Noon
13h	368	360	337	347	352	356	358	347	350	369	353	349	309	280	307	338	13h
14	360	342	342	352	354	350	339	346	336	361	352	352	308	262	300	347	14
15	352	330	330	357	353	348	340	341	327	347	345	351	290	270	280	349	15
16	364	329	308	351	350	337	334	337	325	330	330	338	285	272	275	343	16
17	330	320	300	339	339	331	330	330	328	319	320	330	283	260	276	337	17
18	300	302	290	328	336	334	334	327	311	318	323	320	285	250	260	331	18
19	300	297	287	321	333	338	337	323	290	320	329	321	297	252	262	335	19
20	290	290	286	322	337	339	329	330	254	321	324	318	280	240	255	341	20
21	285	287	310	331	336	337	326	329	278	321	325	310	270	242	257	292	21
22	289	285	299	333	332	334	325	329	304	317	327	320	272	243	262	274	22
23	300	297	288	334	331	335	326	331	300	310	327	321	276	251	264	258	23

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Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	+ ·22000 (C.G.S. UNIT)																
Midnight	270	270	310	317	294	310	252	280	302	312	300	311	307	301	304	304	Midnight
1h	274	262	300	318	298	335	270	281	309	314	303	313	320	303	309	307	1h
2	278	264	300	325	299	369	277	283	311	315	305	317	312	310	311	311	2
3	284	275	301	331	302	355	280	290	310	320	307	319	315	312	313	314	3
4	290	305	304	324	321	340	278	291	310	330	308	317	309	317	319	318	4
5	309	310	310	323	319	358	280	292	311	319	309	319	326	319	321	320	5
6	318	303	313	321	318	337	282	290	310	312	310	322	317	318	319	321	6
7	322	304	310	322	320	320	280	283	308	310	309	327	319	311	319	320	7
8	308	311	304	324	319	310	260	280	300	300	308	326	320	312	313	317	8
9	302	300	297	327	323	270	252	281	292	297	313	333	312	310	320	315	9
10	299	299	296	330	329	260	249	283	295	300	328	337	310	318	328	319	10
11	307	290	308	331	339	258	247	290	305	308	347	360	312	324	337	328	11
Noon	309	297	320	332	338	259	245	297	317	320	359	372	320	335	349	335	Noon
13h	320	300	323	330	327	—	247	303	319	310	367	360	327	340	365	337	13h
14	307	300	325	323	322	—	254	308	312	290	350	358	334	330	354	332	14
15	309	280	330	320	306	—	252	297	303	285	330	340	310	314	340	323	15
16	300	277	321	316	301	—	240	296	289	287	314	330	298	312	330	316	16
17	295	270	322	308	296	—	—	298	298	289	312	321	297	298	320	310	17
18	284	272	319	301	299	—	—	300	305	293	309	320	301	297	321	306	18
19	286	296	317	309	303	—	—	302	307	299	304	319	306	302	324	307	19
20	274	300	321	303	310	268	252	301	308	294	305	308	305	301	323	304	23
21	299	297	324	298	308	267	271	303	309	300	308	304	309	298	322	304	22
22	267	300	318	313	304	270	270	301	310	302	309	303	290	299	320	303	21
23	267	296	319	295	306	277	272	304	311	304	310	302	298	301	321	303	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

MARCH 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
								+ ·30000 (C.G.S. UNIT)									
Midnight	320	330	331	331	326	324	320	321	321	330	323	320	322	328	337	326	Midnight
1h	320	330	330	330	327	324	320	321	321	329	323	320	322	328	336	335	1h
2	320	329	326	331	328	324	320	321	321	328	322	320	321	330	332	331	2
3	320	329	325	331	326	323	320	320	321	327	322	320	321	326	330	330	3
4	320	328	325	330	324	322	320	320	321	327	322	320	320	324	330	330	4
5	320	327	326	329	324	322	320	320	321	327	323	320	321	324	329	329	5
6	323	328	326	328	324	322	320	320	321	327	327	321	320	326	329	330	6
7	325	329	329	327	323	327	321	320	322	327	329	329	326	327	330	331	7
8	324	329	330	326	326	325	320	320	323	327	325	329	331	328	330	334	8
9	322	328	327	326	324	320	317	320	320	300	323	318	331	331	328	332	9
10	318	322	328	325	320	307	307	320	320	291	320	302	326	330	324	324	10
11	312	318	327	323	313	292	295	318	319	288	310	292	317	325	319	312	11
Noon	307	312	329	320	310	290	290	312	311	291	303	290	310	317	310	300	Noon
13h	302	311	320	313	305	284	290	307	310	295	300	290	314	303	300	292	13h
14	300	310	316	310	305	287	291	307	310	302	303	294	317	304	300	293	14
15	300	314	311	308	307	295	300	308	313	311	307	303	320	311	306	300	15
16	302	320	306	310	311	303	306	310	318	317	310	312	326	317	315	308	16
17	310	323	301	317	319	310	312	315	315	319	313	319	328	321	324	316	17
18	316	324	302	322	321	312	317	318	318	320	317	320	327	323	325	319	18
19	321	326	308	324	320	313	317	320	320	320	318	320	324	324	329	318	19
20	323	327	318	323	320	315	318	319	323	320	319	322	325	330	328	320	20
21	327	330	322	324	322	317	320	320	329	320	320	324	330	333	331	330	21
22	330	331	323	325	322	320	321	320	327	323	320	321	330	332	333	330	22
23	330	333	325	325	323	320	321	320	328	323	320	321	330	340	336	341	23

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Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
								+ ·30000 (C.G.S. UNIT).									
Midnight	337	333	330	328	329	327	342	335	330	330	330	327	327	326	327	328	Midnight
1h	335	333	330	329	329	328	338	334	330	330	330	327	326	325	326	328	1h
2	334	337	330	328	328	327	337	334	330	330	330	327	328	324	325	328	2
3	333	338	330	324	326	321	336	335	330	328	330	326	325	323	324	326	3
4	332	337	330	324	326	321	336	336	330	328	329	325	325	323	323	326	4
5	330	334	329	324	324	322	337	338	330	329	330	325	326	323	323	326	5
6	330	330	330	326	325	323	338	339	330	330	330	325	325	323	324	326	6
7	332	331	332	330	329	323	341	342	330	332	333	325	326	327	326	328	7
8	333	330	331	330	330	327	344	344	331	331	335	325	328	330	327	329	8
9	334	333	324	321	328	330	328	332	332	328	330	328	333	330	329	326	9
10	335	339	315	308	326	335	322	333	330	323	330	330	328	325	330	322	10
11	331	329	310	304	321	327	317	332	322	318	330	322	314	320	323	316	11
Noon	326	323	305	300	317	326	320	330	313	310	320	315	300	310	315	311	Noon
13h	320	317	308	300	306	326	320	323	310	300	312	300	290	303	310	306	13h
14	310	320	312	302	304	331	328	315	313	302	305	292	288	302	303	306	14
15	303	326	318	308	308	341	334	310	317	310	302	292	297	307	298	309	15
16	307	330	321	313	314	348	337	314	324	313	302	304	308	313	296	314	16
17	313	330	323	320	320	348	337	320	328	318	308	311	313	320	302	319	17
18	321	332	322	322	322	342	340	325	328	321	314	317	318	323	310	321	18
19	324	330	322	322	323	341	336	327	329	325	320	320	318	324	316	323	19
20	327	330	323	322	323	341	336	328	329	327	322	320	320	325	319	324	20
21	324	331	327	324	323	341	336	328	330	328	324	323	322	328	320	326	21
22	329	335	328	328	323	342	336	329	330	330	325	327	325	329	320	327	22
23	330	334	328	328	327	342	337	330	330	330	327	328	328	328	320	329	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-l evel) during the Month of March, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Cassella Pluviograph	Duration		
MAR.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	966·6	24·2	3·3	19·0	73	22·0	90	4·5	3	19·4	23·6	25·9	22·2	26·5	19·0	7·5	0·0	0	11·0	88
2	966·0	25·4	4·5	18·3	65	21·0	45	3·6	4	21·5	25·1	24·9	21·2	27·5	21·0	6·5	0·0	0	6·8	55
3	966·3	25·3	3·4	20·1	73	23·5	70	5·4	4	20·5	25·0	24·3	21·8	24·5	19·9	4·6	7·9	110	6·7	55
4	966·0	22·1	0·4	21·5	96	25·6	55	6·7	8	20·8	22·0	23·9	23·0	24·2	20·4	3·8	25·6	240	—	—
5	965·4	23·9	1·4	21·8	93	26·1	55	7·6	8	22·5	23·6	24·7	22·3	25·6	22·0	3·6	4·9	35	0·7	6
6	964·8	25·2	3·1	20·5	75	24·1	55	5·8	7	21·7	24·6	25·2	23·1	26·5	21·4	5·1	0·6	5	8·2	66
7	963·8	23·1	0·6	22·2	95	26·8	45	6·7	8	22·5	23·0	22·9	22·6	25·8	22·0	3·8	7·6	80	1·5	13
8	963·9	23·9	1·5	21·8	88	26·1	70	8·5	7	22·3	23·3	24·5	22·3	26·0	21·9	4·1	4·0	65	4·6	38
9	965·0	24·1	2·4	20·4	80	24·0	90	5·8	5	21·4	23·6	25·9	23·3	26·5	21·2	5·3	0·5	0	10·6	87
10	966·0	23·5	1·4	21·4	88	25·5	70	6·7	7	22·8	23·0	25·9	23·1	26·0	22·2	3·8	5·6	50	8·5	69
11	966·6	24·7	2·3	21·2	81	25·2	90	6·3	7	22·5	24·4	22·9	22·5	26·0	22·0	4·0	40·6	175	5·7	47
12	966·2	24·4	2·1	21·2	82	25·2	85	7·2	6	21·4	24·0	24·8	22·5	25·8	21·0	4·8	3·8	50	10·3	85
13	966·3	24·6	2·5	20·8	80	24·6	100	7·2	6	21·6	24·1	25·6	22·1	27·5	21·3	6·2	1·3	15	10·7	88
14	965·2	26·2	3·5	20·9	73	24·7	90	0·5	5	20·9	26·0	26·5	20·9	27·5	20·4	7·1	0·0	0	7·5	62
15	965·0	25·1	3·7	19·4	71	22·5	calm	calm	4	19·5	24·4	24·6	22·1	27·2	18·9	8·3	8·5	60	5·0	41
16	968·0	25·6	3·6	20·2	72	23·7	90	0·5	5	20·9	25·3	25·9	20·1	26·7	20·1	6·6	3·9	65	9·8	81
17	967·4	24·7	4·8	17·0	63	19·4	100	2·2	5	18·0	24·3	25·6	19·5	27·2	17·7	9·5	0·0	0	8·0	66
18	965·6	25·2	3·4	20·0	73	23·4	80	2·2	6	18·4	24·5	26·4	24·0	26·8	18·2	8·6	0·6	5	5·8	48
19	965·2	26·7	4·7	19·5	65	22·7	20	2·2	4	23·5	26·1	26·4	22·3	27·1	23·6	3·5	1·4	30	6·0	50
20	965·4	26·1	4·1	19·8	69	23·1	10	3·1	4	21·8	25·2	28·9	22·5	29·0	20·0	9·0	0·0	0	11·2	93
21	965·4	26·2	3·0	21·7	77	26·0	10	3·1	6	21·6	25·4	25·9	22·2	27·7	21·2	6·5	0·0	0	4·3	36
22	965·5	26·5	4·1	20·3	69	23·8	45	4·5	3	21·5	26·0	25·8	22·2	27·5	21·0	6·5	1·0	10	8·9	74
23	967·1	26·7	3·9	20·9	82	24·7	30	2·2	5	21·3	26·1	27·0	22·5	28·2	21·0	7·2	0·0	0	10·2	85
24	967·1	26·4	1·5	24·2	88	30·2	45	3·1	4	21·6	26·0	27·9	21·4	28·2	21·4	6·8	0·0	0	10·1	85
25	965·7	26·4	4·2	20·1	69	23·5	45	4·5	3	21·3	26·1	25·9	24·2	27·9	20·9	7·0	0·0	0	9·3	78
26	964·6	25·6	2·4	22·1	81	26·6	60	5·4	5	23·8	25·2	26·5	23·7	27·1	23·7	3·4	9·6	75	8·0	67
27	966·9	22·6	0·4	22·0	96	26·4	70	6·7	8	22·0	22·4	24·7	22·8	25·5	21·4	4·1	16·7	60	—	—
28	966·2	23·5	1·0	22·0	91	26·4	70	1·3	8	21·8	23·0	23·5	21·8	26·1	21·2	4·9	15·4	70	2·0	17
29	964·8	24·4	2·5	20·5	79	24·1	110	7·2	7	20·7	24·2	22·9	21·4	25·5	20·5	5·0	6·2	85	3·4	29
30	967·1	22·9	1·4	20·8	88	24·6	70	6·7	8	20·5	22·6	24·6	22·0	25·3	20·0	5·3	9·7	85	2·0	17
31	966·3	24·1	1·5	21·9	88	26·3	70	6·3	7	21·8	23·7	24·8	22·5	25·3	21·6	3·7	15·9	220	6·5	55
Mean	965·8	24·8	2·7	20·7	79·1	24·6	—	4·6	5·7	21·3	24·4	25·3	22·3	26·6	20·9	5·7	191·3	1590	6·56	54·2
Average	964·7	24·6	2·4	21·0	80·6	25·0	—	2·6	7·0	—	—	—	—	27·0	20·5	6·5	316·5	675	5·55	—
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	40·8 mbs	Amount of rain	—	47·0 mms
Temperature of the Air	+	2·8°C	Duration of Bright Sunshine	+	20·5 hrs.
Vapour Pressure	+	2·5mbs	Mean of Maximum temperatures	+	2·0°C
Relative Humidity	—	5·7%	,, Minimum temperature	+	1·6°C
Velocity of Wind	—	0·5 mps.	Absolute Maximum temperature	+	1·4°C
			,, Minimum temperature	+	0·5°C

Table VII.—Daily Results of Meteorological Observations made during the month of March, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
MARCH	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1006·6	+ 1·7	28·3	20·2	8·1	24·7	− 0·9	3·1	20·0	− 2·2	75	− 7	23·4	17·8
2	1006·0	+ 1·0	29·0	20·9	8·1	24·9	− 0·7	3·1	20·2	− 2·0	75	− 7	23·7	19·0
3	1005·9	+ 0·9	29·0	22·1	6·9	25·3	− 0·3	2·9	20·9	− 1·3	77	− 5	24·7	20·3
4	1005·6	+ 0·6	26·5	22·7	3·8	24·9	− 0·6	1·2	23·2	+ 1·0	90	+ 8	28·4	21·5
5	1005·5	+ 0·4	28·7	25·4	3·3	26·5	+ 1·0	2·1	23·4	+ 1·2	83	+ 1	28·8	23·4
6	1005·3	+ 0·2	28·9	24·0	4·9	26·0	+ 0·5	2·6	22·2	0·0	80	− 2	26·8	22·0
7	1003·3	− 1·9	27·7	24·3	3·4	25·4	− 0·1	1·4	23·4	+ 1·2	89	+ 7	28·8	22·2
8	1003·8	− 1·4	28·2	24·5	3·7	26·3	+ 0·8	2·6	22·5	+ 0·3	80	− 2	27·3	22·4
9	1004·8	− 0·5	28·3	24·8	3·5	26·2	+ 0·8	2·9	21·9	− 0·2	77	− 5	26·3	22·8
10	1006·1	+ 0·8	28·2	23·9	4·3	25·9	+ 0·5	2·4	22·4	+ 0·3	81	− 1	27·1	21·9
11	1006·7	+ 1·4	27·9	23·8	4·1	25·5	+ 0·1	2·0	22·5	+ 0·4	84	+ 2	27·3	22·0
12	1006·4	+ 1·0	28·5	23·9	4·6	25·7	+ 0·3	1·9	22·9	+ 0·8	85	+ 3	27·9	21·7
13	1005·9	+ 0·5	29·0	21·2	7·8	24·7	− 0·6	1·7	22·2	+ 0·2	86	+ 4	26·8	20·0
14	1004·7	− 0·8	29·6	20·9	8·7	24·0	− 1·3	1·9	21·1	− 0·9	84	+ 2	25·0	19·2
15	1005·6	+ 0·1	28·2	21·4	6·8	24·4	− 0·9	2·3	20·9	− 1·2	81	− 1	24·7	20·0
16	1008·2	+ 2·6	28·5	18·2	10·3	23·9	− 1·3	2·6	19·8	− 2·3	78	− 4	23·1	16·2
17	1006·9	+ 1·2	27·5	20·4	7·1	24·1	− 1·1	1·6	21·8	− 0·3	87	+ 5	26·1	18·8
18	1005·5	− 0·3	28·6	20·4	8·2	24·6	− 0·6	2·2	21·4	− 0·7	82	− 1	25·5	18·7
19	1005·2	− 0·6	29·2	21·2	8·0	25·2	+ 0·1	2·1	22·1	+ 0·1	83	0	26·6	20·0
20	1005·1	− 0·8	30·4	23·2	7·2	26·3	+ 1·2	2·3	22·9	+ 0·9	82	− 1	27·9	21·2
21	1005·2	− 0·7	29·3	23·0	6·3	26·0	+ 0·9	2·3	22·6	+ 0·6	82	− 1	27·4	21·4
22	1006·0	0·0	29·9	22·5	7·4	26·1	+ 1·0	2·5	22·4	+ 0·4	80	− 3	27·1	20·6
23	1007·2	+ 1·2	29·9	22·5	7·4	26·0	+ 1·0	2·4	22·5	+ 0·6	81	− 2	27·3	20·8
24	1006·9	+ 0·8	30·1	23·3	6·8	26·0	+ 1·0	2·6	22·2	+ 0·3	80	− 3	26·8	21·3
25	1005·1	− 1·0	29·0	22·9	6·1	25·6	+ 0·6	2·4	22·1	+ 0·2	81	− 2	26·6	21·0
26	1004·7	− 1·4	29·3	22·8	6·5	25·7	+ 0·7	2·0	22·8	+ 0·9	85	+ 2	27·8	20·9
27	1005·6	− 0·6	27·2	23·7	3·5	25·6	+ 0·7	1·4	23·6	+ 1·8	89	+ 6	29·1	21·4
28	1005·7	− 0·5	28·4	21·7	6·7	25·1	+ 0·2	1·4	23·1	+ 1·3	89	+ 6	28·3	20·0
29	1004·9	− 1·4	28·0	23·1	4·9	24·7	− 0·2	2·0	21·7	+ 0·1	84	+ 2	26·0	21·5
30	1006·0	− 0·3	28·1	22·8	5·3	25·2	+ 0·3	1·8	22·5	+ 0·7	85	+ 3	27·3	20·6
31	1007·0	+ 0·6	27·8	22·8	5·0	24·8	0·0	1·5	22·6	+ 0·9	88	+ 6	27·4	20·7
Mean	1005·7	+ 0·1	28·6	22·5	6·1	25·3	+ 0·1	2·2	22·1	+ 0·1	82·7	+ 0·4	26·7	20·7
Aver.	1005·6	—	28·9	22.3	6·6	25·2	—	2·2	22·0	—	82·3	—	26·4	19·9
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF MARCH, 1949

A developing cyclone was centred on the 5th about 450 miles north-north-west of Mauritius. It moved west-south-west, south-west and then south-south-west and on the 7th was centred about 60 miles off the east coast of Madagascar due east of Tamatave. Then its course changed to west and during the evening the centre passed just south of Tamatave. It crossed Madagascar, passing about 50 miles to the north of Tananarive on the 8th and reachod the Mozambique Channel on the 9th in about latitude 18°S moving rapidly west. At Tamatave it was of considerable intensity but over the central high ground its intensity decreased and by the 9th it was very weak.

On the 8th a small weak cyclonic disturbance was centred about 300 miles north of Mauritius. It moved slowly westwards and by the 11th was centred inland near the east coast of Madagascar in latitude 15°S. It continued to move west across the north of Madagascar. It remained throughout a small and weak disturbance.

On the 28th a weak cyclonic depression was located about 200 miles north-north-east of Mauritins. For two days its movement was very slow and irregular. Then it moved north-west at moderate speed and on the 31st was centred about 450 miles north-north-west of Mauritius, still of weak intensity. Its course now changed to west, moving towards the extreme north of Madagascar.

Mean pressure was almost normal with no important departures. So also was temperature. Rainfall was only 65% of normal but was well distributed.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of March, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temparature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
MARCH	mms.	min.	mm.	hrs.	%	m.p.s.	m p.s.	°C.	°C.	°C.	°C.
1	0·0	—	6·6	11·2	90	3·1	− 0·2	25·3	26·6	26·8	28·0
2	0·0	—	7·6	10·7	86	2·5	− 0·8	25·3	26·7	26·9	28.2
3	9·0	40	7·8	7·1	57	4·3	+ 1·0	25·3	26·8	26·9	28·3
4	15·9	425	4·6	0·0	00	4·2	+ 0·9	25·3	27·1	27·1	28·3
5	0·2	10	1·3	2·2	18	5·0	+ 1·7	25·2	27·0	27·1	28·8
6	0·0	—	5·6	8·8	71	4·0	+ 0·7	25·3	26·7	27·0	28·6
7	37·3	240	5·3	1·5	12	4·4	+ 1·1	25·2	26·8	27·1	28·0
8	2·6	40	4·7	5·1	42	6·0	+ 2·7	25·3	26·4	27·1	27·8
9	0·0	—	6·5	10·9	89	5·0	+ 1·7	25·4	26 6	27·1	27·9
10	1·2	25	6·2	9·6	78	4·1	+ 0·8	25·4	26·5	27·1	28·1
11	3·1	85	5·0	7·7	63	4·0	+ 0·7	25·4	26·5	27·1	28·2
12	1·1	15	3·7	10·4	85	4·4	+ 1·1	25·4	26·5	27·1	28·2
13	1·1	20	5·7	11·0	90	3·5	+ 0·2	25·4	26·5	27·1	28·4
14	2·8	45	5·8	5·9	48	1·6	− 1·6	25·6	26·4	27·2	28·3
15	4·7	60	3·0	6·6	54	2·1	− 1·1	25·5	26·5	27·1	28·2
16	16·3	260	6·0	4·9	40	2·6	− 0·6	25·5	26·6	27·2	28·1
17	0·0	—	4·6	10·4	85	1·9	− 1·3	25·5	26·5	27·1	28·0
18	1·7	30	4·5	3·2	27	1·8	− 1·4	25·5	26·4	27·1	28·0
19	0·0	—	2·7	8·3	69	1·9	− 1·3	25·5	26·4	27·1	27·9
20	0·0	—	5·1	10·1	83	1·9	− 1·3	25·5	26·6	27·1	28·1
21	0·0	—	5·8	7·9	65	2·5	− 0·7	25·6	26·3	27·1	28·3
22	0·7	10	5·0	9·4	78	2·7	− 0·5	25·6	26·3	27·2	28·5
23	0·1	5	4·3	11·3	94	2·6	− 0·6	25·5	26·3	27·3	28·6
24	0·1	5	4·4	10·5	87	2·6	− 0·6	25·0	26·6	27·3	28·7
25	0·0	—	6·0	10·3	86	2·8	− 0·4	25·6	26·5	27·3	28·4
26	7·6	175	5·0	7·1	59	3·4	+ 0·2	25·6	26·6	27·4	28·9
27	4·9	220	3·9	0·0	00	3·6	+ 0·4	25·6	26·9	27·4	28·8
28	12·4	145	3·1	1·9	16	2·9	− 0.3	25·6	26·5	27·5	28·6
29	3·3	90	1·4	5·4	45	4·5	+ 1·3	25·6	26·4	27·4	28·3
30	4·1	65	1·1	4·7	40	5·0	+ 1·8	25·6	26·3	27·3	28·1
31	14·1	195	5·3	9·7	81	5.2	+ 2 0	25·6	26·3	27·2	28·1
Mean	Sum 144·3	Sum 2225	4·8	7·22	59·3	3·42	+0·18	25·45	26·55	27·19	28·28
Average	220·4	2321	4·8	7·15	58·6	3·24	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MARCH, 1949

Element	*Highest*			*Date*	*Lowest*		*Date*
Atmospheric Pressure	1009·5mbs	at	09, 10 & 21 hrs.	on 16th	1001.7 mbs	at 16 & 17 hrs. on	7th.
Temperature of the Air	30·4°C	,,	11 50 hrs.	,, 20th	18·2°C	at 06·00 hrs. ,,	16th
Daily range of temperature of the Air	10·3°C	,,	—	,, 16th	3·3°C	— ,,	5th
Temperature of the Dew Point ...	24·9°C	,,	18·00 hrs.	,, 12th	17·6°C	,, 06·00 hrs. ,,	16th
Daily range of temperature of the Dew Point	5·6°C	,,	—	,, 17th	1·3°C	— ,,	6th
Minimum on Grass	—		—	—	16·2°C	— ,,	16th
Relative Humidity	—	,,	—	,, —	—	,, — ,,	—
Vapour Pressure	—	,,	—	,, —	—	,, — ,,	—
Evaporation in 24 hours	7·8mms	,,	—	,, 3rd	1·1mm.	— ,,	30th
Wind Velocity	7·6mps	,,	11·00 hrs.	,, 8th	—	—	
Rainfall in 24 hours	38·9mms ending 04 00 hrs.			,, 8th	—	—	
Duration of Sunshine °C. ...	11·3hrs.		—	,, 23rd	0·0 hrs.	—	,, 4th & 27th

Mean Day Temperature of Air 26·87°C. Average 26·86°C. Mean Night Temperature of Air 23·79°C. Average 23·57°C.

NUMBER OF DAYS OF

Rainfall: mms. 0.1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 & over	Lightning	Thunderstorm
4	11	2	4	1	—	—	1	—

Table VIII.—Barogram

MARCH 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	079	075	073	059	057	071	039	038	054	057	077	075	074	061	057	076	Midnight
1h	077	068	067	055	055	064	036	037	050	054	075	068	069	057	055	077	1
2	068	061	059	053	046	057	034	036	042	051	067	062	060	055	053	076	2
3	066	060	057	052	042	055	027	029	039	046	064	058	057	053	048	075	3
4	062	055	057	047	042	055	021	027	039	044	059	057	056	048	047	076	4
5	063	055	058	052	039	055	024	027	039	048	061	057	056	049	046	076	5
6	068	055	065	057	042	055	029	034	044	050	067	062	058	050	049	076	6
7	074	057	067	058	047	058	035	035	050	057	072	067	064	051	056	077	7
8	075	067	069	073	054	062	037	035	056	063	075	068	069	055	058	087	8
9	076	070	073	076	056	067	043	043	057	071	079	074	071	056	062	095	9
10	067	066	073	074	059	067	043	042	057	073	077	074	071	057	058	095	10
11	059	060	066	067	057	063	038	040	055	071	075	068	063	056	057	091	11
Noon	057	059	062	060	054	057	038	037	047	067	071	064	057	044	054	086	Noon
13h	055	055	057	054	053	055	034	037	038	060	061	058	051	036	044	077	13h
14	054	049	054	042	051	048	033	035	037	057	057	054	047	035	044	077	14
15	050	045	049	042	043	039	027	031	036	055	054	049	043	030	044	075	15
16	054	046	047	039	045	037	017	027	037	055	053	051	040	029	041	074	16
17	056	048	046	039	050	036	017	034	039	056	055	055	045	031	047	075	17
18	057	055	053	046	057	038	023	036	046	057	057	057	051	035	055	078	18
19	064	057	055	054	059	047	035	037	050	067	065	060	055	039	058	087	19
20	069	062	057	058	069	055	038	042	055	071	070	068	057	046	066	091	20
21	075	073	057	063	075	055	047	047	057	076	077	072	067	053	075	095	21
22	077	075	056	068	075	053	046	055	059	078	077	075	070	056	076	094	22
23	076	075	057	062	075	044	038	055	058	078	076	075	068	055	076	087	23

MARCH 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	086	067	060	057	057	060	073	079	071	055	063	066	057	057	075	1006.5	Midnight
1h	082	066	057	055	054	057	068	077	066	048	057	063	054	055	075	1006·1	1
2	077	060	055	052	051	055	065	074	057	045	055	056	048	047	069	1005·6	2
3	075	057	051	048	047	049	059	069	055	041	045	055	041	051	065	1005·3	3
4	075	055	047	047	047	049	061	063	054	037	048	053	040	048	061	1005·1	4
5	074	056	049	049	049	054	067	068	050	038	043	055	045	050	061	1005·2	5
6	075	058	055	051	054	056	075	074	054	044	041	056	054	054	066	1005·6	6
7	077	062	056	056	056	057	076	075	056	046	050	060	055	057	071	1005·9	7
8	082	066	059	059	058	063	077	077	057	054	057	062	056	066	076	1006·4	8
9	083	067	063	067	063	067	084	078	062	057	067	072	057	073	077	1006·8	9
10	076	058	060	061	059	066	081	077	057	055	069	069	056	070	076	1006·6	10
11	074	057	057	059	055	061	079	076	056	054	062	064	057	066	075	1006·2	11
Noon	065	055	053	056	053	060	075	071	047	045	057	058	055	062	071	1005·8	Noon
13	057	048	045	047	046	058	068	066	037	037	055	055	037	055	059	1005·1	13h
14	054	037	037	039	039	056	063	058	035	035	051	055	035	053	057	1004·7	14
15	046	034	037	037	038	048	057	055	033	031	045	045	036	050	056	1004·4	15
16	047	035	039	037	039	047	057	055	033	033	050	043	035	050	057	1004·4	16
17	049	036	041	038	041	055	063	056	036	035	049	043	037	055	064	1004·6	17
18	055	043	049	044	049	056	069	057	039	037	050	047	038	057	069	1005·0	18
19	059	049	055	049	055	060	076	065	049	046	055	051	046	061	076	1005·6	19
20	067	055	057	055	057	067	078	074	055	053	058	057	055	070	078	1006·2	20
21	076	059	062	056	063	075	085	075	057	058	069	059	057	077	081	1006·7	21
22	075	067	059	057	066	076	086	075	059	066	074	060	061	077	082	1006·9	22
23	075	065	057	057	063	075	082	074	057	063	074	059	058	076	079	1006·7	23

Table IX—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Recorder

MARCH 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	60	45	30	0	0	0	0	0	15	2	2	2	20	35	55	5	32	0	35	35	5	20	30	30	10	10	0	0	0	0	0	8·0
8	60	60	60	0	25	40	20	30	58	5	30	60	50	60	60	60	60	60	60	60	60	58	60	50	60	60	0	0	35	0	40	22·4
9	60	60	60	0	0	60	0	20	60	25	60	60	60	60	60	60	60	50	60	60	60	60	60	60	60	60	0	32	20	0	40	23·1
10	60	60	60	0	0	50	0	42	60	50	60	60	60	60	30	60	60	45	60	60	40	60	60	60	60	60	0	35	20	10	55	23·3
11	60	60	60	0	0	60	20	40	60	60	60	58	60	28	45	60	60	45	55	60	50	60	60	60	60	40	0	20	40	0	42	23·0
Noon	60	60	60	0	0	60	40	58	60	55	45	60	60	15	50	60	60	10	60	60	5	60	60	60	60	60	0	35	40	0	32	22·4
13	60	35	25	0	0	60	12	50	60	60	35	60	60	35	0	60	40	2	0	60	40	55	60	60	60	60	0	0	35	0	60	19·1
14	45	5	35	0	10	60	0	35	60	60	15	60	60	60	0	30	48	45	20	60	0	25	58	60	60	60	0	0	10	35	25	17·4
15	55	20	0	0	5	45	0	0	60	60	25	60	60	55	0	60	32	60	10	60	0	30	60	60	35	20	0	0	0	60	55	16·4
16	50	0	0	0	0	0	0	5	55	60	0	60	60	30	0	60	5	30	0	60	0	50	60	50	40	35	0	0	0	15	30	12·7
17	60	0	10	0	0	50	0	0	60	60	10	60	60	10	0	60	0	0	0	60	0	58	30	30	45	15	0	0	2	0	10	11·5
18	28	5	0	0	0	5	0	0	30	15	0	20	30	0	0	12	25	0	0	35	0	0	12	15	10	0	0	0	0	0	0	4·0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The Total Amount of Registered Sunshine was 203·3 hrs. and the total possible Sunshine was 377·3 hrs

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

MARCH 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	37	38	20	0	8	1	0	6	20	2	8	3	25	42	0	43	39	0	36	0	0	45	40	16	40	0	0	0	0	0	13	8·0
8	60	60	60	0	32	49	28	10	60	52	53	60	60	60	36	60	60	0	60	32	57	60	60	45	60	40	0	0	32	0	60	21·9
9	60	60	60	0	8	60	5	0	60	55	51	60	60	60	60	27	60	36	60	60	39	60	60	60	60	60	0	4	60	0	60	22·7
10	60	60	60	0	0	48	6	21	60	60	60	60	60	60	60	45	60	43	60	60	43	60	60	60	60	60	0	60	60	0	60	24·4
11	60	60	60	0	0	60	28	46	60	60	30	60	60	29	60	35	60	7	60	60	46	60	60	55	60	60	0	54	36	10	38	22·9
Noon	60	60	53	0	0	60	3	45	60	46	60	60	60	1	60	50	60	1	60	57	50	60	60	60	60	55	0	0	21	55	50	22·2
13h	60	60	36	0	19	49	1	60	60	54	45	60	60	36	40	39	33	0	60	60	8	30	60	60	27	42	0	0	52	55	60	20·4
14	60	60	34	0	29	60	0	46	60	53	46	60	60	8	7	0	40	17	60	60	50	8	60	60	50	53	0	0	56	55	60	20·2
15	60	60	0	0	37	41	0	53	60	60	26	60	60	25	4	0	60	35	30	60	60	60	60	60	60	34	0	0	0	60	56	19·7
16	60	60	6	0	1	23	15	19	60	60	30	60	60	25	14	0	60	28	8	60	60	18	60	60	60	9	0	0	4	41	59	17·0
17	60	40	9	0	0	60	0	1	60	60	30	60	60	6	50	0	60	14	4	60	46	55	60	60	41	10	0	0	4	7	58	16·2
18	33	26	25	0	0	18	3	0	33	12	21	23	33	1	5	0	33	11	0	36	10	45	38	38	40	0	0	0	0	0	4	8·2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 223·8 hrs. and the total possible sunshine was 377·3 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

MARCH 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	22·6	0·9	21·9	1·5	23·7	1·9	23·9	0·9	25·9	1·4	25·2	1·9	25·1	1·7	25·3	1·4	Midnight
1h	22·2	1·2	21·9	1·3	23·0	1·8	24·1	1·0	25·8	1·4	24·9	1·9	24·3	1·3	25·1	1·6	1h
2	21·8	0·7	21·8	1·4	22·9	1·9	23·1	0·9	25·8	1·3	24·4	1·7	24·6	1·4	25·3	1·7	2
3	21·5	0·5	21·8	1·3	22·8	1·9	23·1	0·5	25·8	1·4	24·1	1·5	24·7	1·4	24·9	1·3	3
4	21·0	0·7	21·8	1·4	22·4	1·7	22·8	0·4	25·8	1·5	24·0	1·4	25·0	1·4	25·0	1·6	4
5	20·2	0·5	21·3	1·5	22·4	1·8	23·7	0·8	25·8	1·7	24·1	1·5	24·8	1·1	25·0	1·7	5
6	21·0	0·5	20·9	1·3	22·4	1·6	24·0	0·7	25·6	1·5	24·2	1·5	24·8	1·0	25·0	2·0	6
7	24·0	2·1	23·6	1·9	24·0	1·9	24·4	0·9	25·8	1·6	24·6	1·7	24·6	1·0	25·6	2·4	7
8	26·2	3·6	26·2	3·3	26·6	3·4	23·2	0·7	26·4	1·7	26·7	2·8	26·0	1·6	25·9	2·5	8
9	26·8	4·6	27·1	4·2	27·3	4·0	23·3	0·9	27·0	2·3	27·4	3·5	26·1	1·6	26·6	2·5	9
10	27·5	5·6	27·9	5·5	27·9	4·7	24·5	0·7	27·2	2·7	28·0	4·4	26·0	1·3	27·0	2·5	10
11	27·9	5·2	28·2	5·3	28·2	5·5	24·9	0·9	27·4	2·6	28·2	4·4	27·7	2·5	28·0	3·4	11
Noon	28·2	5·3	28·4	5·5	28·3	5·0	25·3	1·3	27·4	2·5	28·3	4·1	26·0	0·9	28·1	3·3	Noon
13	28·3	6·0	28·6	5·7	28·2	5·0	25·8	1·4	28·2	3·0	28·0	4·0	26·3	2·1	28·2	3·3	13h
14	28·1	5·2	28·7	5·9	28·4	5·2	25·9	2·4	28·0	3·2	28·0	3·6	24·3	0·4	28·0	3·5	14
15	27·9	5·5	28·3	5·8	27·1	4·1	26·2	2·1	27·9	3·2	27·5	3·5	24·1	0·4	27·8	3·5	15
16	27·7	5·5	28·1	5·2	26·0	3·1	26·5	2·0	27·1	2·8	27·0	2·9	26·1	1·6	27·4	3·2	16
17	27·1	5·1	27·0	4·6	25·7	3·1	26·1	1·7	26·9	2·5	27·0	3·1	26·0	1·8	27·0	3·0	17
18	25·7	3·9	25·8	3·8	25·7	3·2	25·9	1·4	26·6	2·3	26·2	2·7	25·9	1·8	26·4	2·4	18
19	23·9	2·4	24·3	2·4	24·3	1·7	26·0	1·5	26·2	2·1	25·8	2·2	25·5	1·6	25·9	2·6	19
20	23·7	2·5	24·0	2·1	24·8	2·1	25·9	1·4	26·0	2·0	25·4	2·0	25·5	1·6	25·9	2·7	20
21	23·2	1·8	23·9	1·8	24·7	1·6	26·1	1·6	26·0	2·1	25·1	1·9	25·3	1·3	25·8	2·7	21
22	22·8	1·7	23·7	1·8	24·9	1·4	26·0	1·7	25·9	2·2	25·0	2·0	25·3	1·4	25·6	2·7	22
23	22·4	1·6	23·2	1·5	24·8	1·6	26·1	1·5	25·8	2·3	25·0	1·7	25·5	1·6	25·4	2·6	23

MARCH 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	25·2	2·6	24·6	1·4	24·4	1·7	24·2	0·6	23·0	0·6	21·9	1·0	23·2	1·5	21·2	1·5	Midnight
1h	25·0	2·6	24·5	1·6	24·4	1·4	24·1	0·6	22·1	0·5	21·7	0·8	22·7	1·1	20·6	1·3	1h
2	24·9	2·4	24·5	1·3	24·3	1·4	24·0	0·6	22·0	0·6	21·4	1·0	22·1	0·6	20·7	1·4	2
3	24·8	2·1	23·9	1·5	24·0	1·3	24·1	0·6	21·9	0·9	21·1	0·9	21·7	0·7	20·5	1·3	3
4	25·1	2·4	24·2	1·2	23·8	1·2	24·0	0·7	21·8	0·8	21·0	0·9	21·5	0·5	20·0	1·2	4
5	25·0	2·3	24·5	1·4	24·0	1·3	24·0	0·9	21·5	0·7	20·9	1·0	21·4	0·5	19·3	0·9	5
6	24·9	2·3	24·0	1·7	23·9	1·2	24·0	0·8	21·4	0·7	20·7	0·9	21·5	0·6	18·2	0·4	6
7	25·0	2·0	24·8	1·9	24·3	1·2	24·6	1·2	23·4	1·0	22·7	1·4	23·0	0·9	20·3	0·7	7
8	26·4	3·1	26·4	2·6	26·2	2·2	25·9	1·1	26·2	1·6	25·9	2·5	25·7	2·4	24·9	3·4	8
9	26·9	3·3	27·0	3·1	26·9	3·0	26·8	2·8	27·4	3·7	27·0	2·4	26·8	3·3	26·9	4·5	9
10	27·8	3·8	27·9	3·8	27·3	3·2	27·3	3·1	28·9	4·8	28·0	4·1	27·5	4·1	27·1	4·7	10
11	28·0	4·0	28·2	4·0	26·2	2·1	28·2	3·8	28·2	3·2	28·1	3·2	27·9	4·3	27·6	5·0	11
Noon	28·1	4·1	27·6	3·6	27·7	3·2	28·4	4·1	27·4	3·0	29·0	3·7	27·9	3·9	28·0	5·3	Noon
13h	28·2	4·3	27·6	3·2	27·6	3·6	28·4	4·4	28·0	3·4	29·0	4·1	27·4	3·8	27·5	4·3	13
14	28·2	4·6	28·1	4·1	27·6	3·2	28·5	4·3	26·3	2·2	25·1	2·8	26·7	3·0	27·2	3·6	14
15	28·3	4·3	28·1	4·0	26·2	2·2	28·2	3·9	26·4	2·7	24·2	1·0	26·3	2·7	27·2	3·9	15
16	27·9	3·9	27·9	3·8	26·6	2·6	27·6	3·7	27·4	2·2	24·9	1·8	26·7	3·7	27·5	3·8	16
17	27·2	3·5	27·1	3·5	26·0	1·8	27·1	3·2	27·2	2·2	24·2	2·1	26·5	4·0	27·2	3·7	17
18	26·4	2·7	26·3	2·6	26·0	1·9	26·1	0·8	25·8	0·8	23·3	1·7	25·1	2·9	26·5	3·2	18
19	25·4	2·0	25·4	1·9	25·2	1·5	25·0	0·4	25·1	1·3	23·7	2·0	23·9	2·2	25·4	2·7	19
20	25·3	1·9	25·2	1·8	24·0	1·2	24·5	0·4	24·2	1·2	23·5	1·8	23·1	1·8	24·0	1·7	20
21	25·2	1·8	25·0	1·7	24·8	1·4	24·0	0·4	23·6	1·3	23·2	1·6	22·8	1·9	22·8	1·7	21
22	25·0	1·7	25·0	1·7	24·6	1·6	23·9	0·6	23·0	1·2	23·1	1·6	22·5	1·8	21·7	1·2	22
23	25·0	1·6	24·8	1·7	25·0	1·7	23·4	0·4	22·6	1·1	22·4	1·4	22·0	1·6	21·4	1·3	23

Table XI *contd.*—**Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records**

(*To obtain temperatures on the Absolute Scale add 273.*)

MARCH 1949

Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	21·0	1·1	23·0	1·0	23·5	1·1	23·8	1·0	24·4	1·6	24·8	1·5	24·8	1·5	24·1	1·2	Midnight
1h	20·9	1·2	22·6	1·1	23·1	0·9	23·4	0·9	24·1	1·5	24·2	1·3	24·2	1·3	24·2	1·2	1h
2	20·7	1·0	21·9	1·0	22·5	1·0	23·2	0·8	24·0	1·4	23·4	1·1	23·4	1·1	24·0	1·2	2
3	20·7	1·0	21·7	1·1	22·2	0·6	23·4	0·8	23·7	1·3	23·2	0·9	23·2	0·9	23·8	1·1	3
4	20·8	1·0	20·8	0·8	22·4	0·8	23·5	0·8	23·1	0·8	23·2	1·0	23·2	1·0	23·5	1·0	4
5	20·6	1·0	20·6	0·9	21·8	0·9	23·9	0·9	23·4	1·3	23·0	1·0	23·0	1·0	23·5	0·9	5
6	20·6	0·8	20·4	0·8	21·8	1·0	24·1	0·9	23·2	1·3	22·7	0·9	22·7	0·9	23·6	1·0	6
7	21·9	0·6	22·0	0·8	22·7	1·0	24·0	1·0	24·3	1·9	24·3	1·7	24·3	1·7	24·3	1·1	7
8	23·8	1·1	26·0	2·3	26·0	2·6	27·0	2·0	26·9	2·9	27·0	3·6	27·0	3·6	26·9	2·3	8
9	25·7	2·3	26·9	3·3	26·6	3·2	28·2	3·4	28·0	3·7	28·3	3·3	28·3	3·3	27·9	3·6	9
10	27·6	3·3	27·6	3·8	27·4	3·3	29·1	3·5	28·4	3·8	28·7	4·0	28·7	4·0	28·8	4·2	10
11	27·0	2·4	28·1	3·9	28·3	3·4	29·4	4·2	28·6	4·0	29·3	4·2	29·3	4·2	28·2	3·7	11
Noon	26·8	2·1	28·3	4·1	28·3	3·5	29·4	3·6	28·8	3·9	29·3	4·3	29·4	4·4	29·2	4·3	Noon
13h	26·3	1·5	28·3	4·1	28·6	3·7	29·5	3·9	27·0	2·2	29·3	4·3	29·3	4·3	29·3	5·0	13h
14	27·0	1·7	28·0	3·8	28·8	4·1	29·7	4·0	27·9	2·9	29·0	4·5	29·0	4·5	29·5	5·3	14
15	27·5	2·2	27·2	3·6	29·0	4·3	29·1	3·5	28·8	3·8	29·0	4·5	29·0	4·5	28·7	4·9	15
16	27·4	2·3	27·0	3·6	28·4	4·1	29·5	4·0	28·0	3·4	28·5	4·0	28·5	4·0	28·3	4·3	16
17	26·2	2·9	26·4	3·5	28·0	3·3	28·6	3·6	27·9	3·3	28·0	3·8	28·0	3·8	27·9	4·1	17
18	25·3	2·3	25·6	2·9	26·8	2·7	27·3	2·9	27·1	2·5	27·0	3·3	27·0	3·1	26·7	3·1	18
19	24·7	1·9	24·9	1·9	25·0	1·9	26·0	2·0	25·8	1·8	25·9	2·2	25·0	1·3	25·0	1·9	19
20	24·0	1·5	23·7	1·4	23·9	1·3	25·1	1·7	25·5	1·5	25·0	1·6	25·0	1·6	24·7	2·0	20
21	23·5	1·4	23·0	1·2	23·4	1·0	24·9	1·5	25·7	1·5	24·5	1·3	24·5	1·3	24·3	1·5	21
22	23·6	0·9	22·9	1·1	23·5	1·1	24·5	1·5	25·0	1·5	24·5	1·2	24·5	1·2	24·1	1·5	22
23	23·5	1·0	23·0	1·1	23·1	0·8	24·5	1·5	24·5	1·4	24·3	1·2	24·3	1·3	24·1	1·4	23

MARCH 1949—*continued*

Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	24·0	1·4	23·2	0·8	24·0	0·5	25·1	0·8	24·3	3·3	24·8	1·9	24·8	1.4	23·9	1·4	Midnight
1h	23·9	1·5	23·7	1·0	23·7	0·2	24.8	2·0	24·0	2·7	24·3	2·3	24·2	1·2	23·6	1·3	1h
2	23·7	1·4	23·8	0·8	24·4	0·6	25·0	1.0	23·8	1·5	24·7	2·0	23·3	0·9	23·4	1·2	2
3	23·4	1·3	23·5	0·7	24·5	0·6	24·6	0·7	24·0	1·7	23·1	0·7	23·6	1·2	23·2	1·1	3
4	23·8	1·4	23·4	0·8	24·5	0·6	24·1	0·5	23·1	0·8	23·7	1·1	23·7	1·1	23·1	1·0	4
5	23·5	1·8	22·8	0·5	24·8	1·0	23·6	0·8	23·8	1·1	23·7	1·4	23·4	1·4	23·0	1·2	5
6	23·0	1·5	23·1	0·6	24·7	0·7	23·2	0·6	23·5	1·2	23·0	0·4	22·8	0·1	22·9	1·1	6
7	24·8	1·8	23·9	0·8	25·1	0·7	23·0	0·0	23·9	2·0	24·0	1·0	23·9	0·7	23·9	1·3	7
8	26·5	2·6	26·4	2·4	25·2	0·9	23·8	0·4	25·0	2·8	23·8	0·5	25·3	1·4	25·9	2·3	8
9	27·8	3·5	27·5	3·1	25·4	0·8	25·4	1·0	26·8	4·2	23·9	0·8	26·4	2.4	26·8	3·0	9
10	27·9	3·6	28·2	3·7	26·3	1·7	27·8	2·5	27·8	4·6	25·2	1·4	27·5	3·3	27·6	3·6	10
11	28·6	4·2	28·2	3·9	26·3	1·9	28·4	3·2	27·3	4·1	25·5	1.6	27·0	2·9	27·8	3·6	11
Noon	28·7	4·3	28·7	4·4	26·7	2·3	26·9	1·9	25·4	1·8	27·7	3·6	27·0	3·0	27·9	3·6	Noon
13h	28·2	3·9	28·7	4·1	27·1	2·8	23·8	0·8	26·1	2·4	28·1	4·1	27·8	3·6	27·8	3·6	13h
14	28·6	4·5	28·6	3·8	27·1	2·7	25·2	1·3	26·7	3·0	27·9	4·9	26·7	2·7	27·6	3·5	14
15	28·4	4·3	28·6	3·7	26·9	2·4	25·0	0·7	24·9	1·3	27·7	3·3	26·6	2·5	27·4	3·3	15
16	28·3	4·2	27·8	3·3	26·6	2·0	26·1	1·6	23·9	0·5	27·0	2·7	25·8	1·9	27·2	3·1	16
17	26·2	2·2	27·5	3·2	26·4	2·1	26·2	1·4	24·8	1·5	26·2	2·3	25·3	2·0	26·7	2·9	17
18	26·1	2·8	26·7	2·4	25·7	1·5	25·9	1·5	23·9	1·1	25·5	1·8	23·7	0·9	25·9	2·3	18
19	24·3	1·4	26·1	2·2	25·4	1·2	25·2	1·8	23·8	1·0	25·3	1·6	23·6	0·8	25·1	1·8	19
20	24·0	1·1	25·6	1·8	25·4	1·8	24·8	1·5	23·9	1·4	25·1	1·4	23·4	0·4	24·7	1·7	20
21	23·9	1·1	22·4	0·0	25·5	1·2	24·9	1·6	24·6	2·4	24·4	1·1	22·9	0·5	24·3	1·4	21
22	23·9	1·1	24·2	0·3	25·6	1·3	25·2	1·9	24·4	2·0	24·7	1·2	23·2	0·2	24·2	1·4	22
23	23·8	1·1	24·5	0·7	25·6	1·3	24·3	1·3	24·6	2·2	24·6	1·2	23·2	0·2	24·1	1·4	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during March, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24
The Velocities are given in Metres per Second, using the factor 2·2
*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

MARCH 1949

Day	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d. *		15d. *		16d. *	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	3·8	10	1·2	09	1·2	08	4·7	06	4·4	08	3·8	08	3·2	08	4·8	08	5·3	10	2·4	10	2·3	10	4·1	10	1·6	10	1·3	11	1·3	06	2·3
1h	10	4·0	10	1·5	10	2·8	10	4·7	07	5·0	09	3·2	08	4·5	08	4·9	08	4·6	10	2·1	10	2·4	10	3·6	10	2·0	10	1·9	11	1·8	11	3·3
2	09	4·4	10	1·8	10	3·2	10	4·8	08	5·0	08	3·0	07	4·1	08	4·6	08	4·0	06	2·0	10	2·7	10	2·9	10	2·1	10	1·5	11	1·8	13	3·0
3	10	3·5	10	1·7	10	4·0	08	4·7	07	4·4	09	3·4	07	3·3	08	4·4	08	3·9	10	3·5	10	2·4	08	2·9	10	1·9	10	1·4	11	1·8	r04	1·6
4	10	2·2	10	2·1	10	2·7	10	3·1	08	5·0	09	3·4	08	3·3	08	6·5	08	5·0	10	3·0	10	2·6	10	3·5	10	2·1	10	1·3	11	1·9	06	1·0
5	10	2·2	09	1·8	09	1·8	10	3·9	08	4·3	09	3·1	08	4·3	08	5·0	08	4·4	08	3·3	10	2·8	10	4·0	10	2·0	10	1·8	11	1·6	13	2·2
6	10	1·2	10	1·4	10	2·4	10	3·2	06	4·9	08	3·1	08	4·4	08	5·5	09	3·8	08	4·1	10	2·7	09	3·2	10	2·6	10	1·6	12	2·2	12	3·2
7	10	1·3	10	1·8	10	3·3	08	4·0	06	4·3	08	3·3	06	4·1	08	5·8	08	4·3	07	3·1	10	2·6	10	3·8	10	2·6	10	1·2	12	1·5	12	1·8
8	10	3·1	10	2·1	10	2·6	06	5·1	06	4·9	08	3·8	07	4·9	08	6·9	08	5·9	07	5·2	09	4·0	10	5·6	11	3·5	10	0·6	12	1·2	12	1·8
9	10	3·7	07	2·4	08	4·6	06	3·5	06	7·4	06	4·2	06	5·6	08	6·7	08	6·3	07	5·1	08	5·6	09	6·0	10	4·0	10	2·4	11	1·1	10	2·2
10	07	4·4	07	2·8	08	4·7	07	3·1	06	5·4	05	4·9	06	4·3	06	6·5	07	7·2	06	5·1	09	6·5	08	6·2	09	4·6	06	2·2	11	0·7	10	2·8
11	08	4·4	07	3·2	09	4·9	06	3·2	06	5·3	07	4·5	07	4·9	08	7·6	07	5·8	06	6·2	10	5·1	08	6·4	10	5·0	d26	1·7	r27	3·0	08	2·8
Noon	10	4·0	07	3·3	09	5·1	07	4·2	05	5·7	07	5·0	07	5·7	06	7·3	08	6·0	08	5·1	10	5·8	09	6·7	10	5·1	26	1·3	32	3·1	08	4·0
13h	06	3·4	06	3·3	10	4·9	06	4·1	06	6·3	08	5·4	07	4·8	07	6·4	08	6·5	09	5·0	08	5·9	08	5·5	09	6·3	d06	2·4	30	2·5	10	4·4
14	08	3·8	07	3·0	10	5·7	06	4·4	06	5·9	08	4·4	04	3·6	08	7·0	08	7·0	08	5·9	07	5·7	10	6·0	10	6·0	10	1·9	30	3·0	d19	2·4
15	08	4·6	06	3·2	09	5·0	06	4·9	06	6·3	06	5·0	03	2·3	08	6·3	08	6·3	08	4·9	10	4·0	09	6·0	08	5·3	08	1·9	d12	2·1	19	1·9
16	08	4·1	06	3·1	10	5·0	06	4·3	06	5·1	08	4·4	08	4·9	08	6·4	10	6·6	08	5·6	08	5·2	10	5·5	10	5·3	r32	1·8	12	2·1	12	1·4
17	08	4·2	08	3·8	12	6·1	07	5·8	06	5·1	08	5·1	08	5·9	08	7·2	09	5·6	09	5·5	09	4·6	10	5·3	09	5·1	-32	1·3	12	4·4	10	3·9
18	08	3·5	08	3·8	10	4·1	08	3·8	08	4·4	08	4·9	08	4·6	08	5·9	09	5·3	09	4·4	09	4·4	10	4·5	10	4·1	d10	1·8	14	3·0	10	2·5
19	08	3·1	08	2·1	10	5·0	07	4·5	08	4·4	08	3·6	08	3·9	08	5·3	09	3·8	09	3·2	10	3·6	10	3·2	10	3·2	11	1·4	14	1·8	10	3·1
20	10	1·1	08	3·0	11	4·7	07	4·4	08	4·6	08	3·9	08	4·3	08	5·8	10	3·4	10	3·5	10	4·3	08	3·2	10	3·8	12	1·4	14	2·5	10	2·8
21	10	1·2	08	1·9	10	5·5	07	4·2	08	4·0	08	3·3	08	4·0	08	5·5	09	3·6	09	3·6	10	3·5	08	3·3	10	0·9	12	1·9	10	1·4	10	2·1
22	10	2·2	09	2·3	10	5·4	07	4·3	08	4·5	08	3·8	08	4·4	08	5·9	09	3·7	08	3·9	08	3·8	10	3·0	10	1·8	10	1·3	10	2·3	10	2·3
23	10	1·8	09	3·9	10	6·0	07	4·1	08	4·0	09	3·9	08	5·1	09	5·3	09	3·2	09	3·0	08	3·6	10	2·2	10	2·0	12	1·9	10	1·8	10	2·3

MARCH 1949—*continued*

Day	17d. *		18d. *		19d.		20d.		21d.		22d.		23d.		24d. *		25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	11	1·7	20	0·9	09	1·1	08	1·1	06	1·1	07	1·5	06	1·7	08	2·0	10	1·7	07	1·6	10	3·0	10	2·2	10	4·2	11	4·9	10	4·1	2·6
1h	10	0·9	20	1·8	09	1·4	08	1·2	06	1·7	06	1·7	06	1·4	08	1·9	10	1·9	10	1·8	10	2·5	10	2·0	09	4·4	11	4·2	10	4·4	2·7
2	11	3·1	21	2·0	10	1·4	08	1·3	08	1·8	06	2·8	07	1·5	08	1·5	10	1·7	06	1·8	07	3·8	10	2·7	09	3·1	10	4·2	10	5·0	2·9
3	10	2·6	14	1·9	10	1·8	08	1·8	08	2·0	07	2·1	06	2·1	10	1·9	10	2·0	08	2·0	08	3·0	10	2·3	09	3·2	08	4·5	10	4·3	2·8
4	10	1·7	14	1·8	10	1·4	08	1·5	08	2·0	07	1·8	06	1·9	10	1·8	10	2·3	08	2·5	08	3·8	11	3·3	09	3·0	10	4·2	10	4·7	2·8
5	11	1·4	14	1·4	10	1·3	08	1·6	09	2·2	07	3·7	07	2·0	10	2·0	10	2·2	09	1·5	08	4·0	10	2·3	10	2·4	10	4·8	10	4·1	2·7
6	10	2·0	14	1·7	10	1·3	08	1·8	09	2·4	07	2·4	10	1·8	10	1·8	10	2·3	09	1·9	08	4·9	12	1·4	10	3·5	09	4·7	08	4·2	2·8
7	10	1·9	14	1·5	09	1·1	08	1·9	09	2·3	07	2·1	10	1·6	10	2·0	10	2·1	09	2·9	09	4·3	09	2·7	10	3·1	11	3·9	10	4·0	2·8
8	10	1·2	14	1·2	09	1·3	08	1·6	06	2·1	07	2·3	10	2·4	10	2·3	10	3·3	09	3·2	07	3·6	12	1·4	10	3·9	10	4·8	10	4·4	3·2
9	10	0·9	14	1·0	06	2·0	04	2·3	03	3·3	10	3·9	06	2·8	06	3·3	10	4·8	06	4·1	07	3·4	12	2·9	10	5·8	11	5·5	08	5·6	3·9
10	10	2·3	14	1·4	07	2·0	02	3·0	03	3·9	06	3·6	06	3·2	07	3·3	06	2·2	06	5·3	06	4·4	10	3·5	11	6·3	09	5·4	08	6·0	4·1
11	09	1·9	d22	1·9	06	1·9	02	3·0	04	3·9	06	4·8	06	3·1	07	3·8	06	4·0	06	4·3	06	3·3	10	3·4	10	5·9	08	6·5	08	6·5	4·3
Noon	07	2·0	26	1·3	06	2·8	02	3·5	04	4·5	06	3·9	06	4·0	06	3·2	06	3·6	08	4·8	06	5·9	06	4·7	09	6·3	10	6·6	08	6·0	4·6
13h	r20	2·6	26	1·3	06	3·5	02	2·5	04	5·0	05	4·8	05	3·8	06	3·9	08	4·4	06	4·5	06	4·1	04	3·4	08	5·7	08	6·7	08	6·0	4·5
14	20	3·5	32	1·2	06	3·7	02	2·8	01	2·5	06	2·6	06	4·2	07	4·4	08	3·7	05	4·1	07	4·2	08	2·1	09	6·4	08	7·0	09	7·0	4·4
15	20	3·7	32	2·0	06	3·0	02	2·6	32	2·7	06	3·3	06	3·7	08	2·5	07	3·3	07	4·4	07	4·3	08	3·1	09	5·4	10	6·0	08	6·2	4·1
16	21	2·9	26	1·7	08	1·7	02	2·1	32	3·0	06	3·3	06	3·5	06	3·9	07	3·1	08	4·6	08	3·4	10	2·5	09	3·9	11	5·5	08	6·1	3·9
17	21	2·2	d10	2·3	08	2·4	02	1·8	01	2·7	06	3·1	06	3·3	10	3·5	09	3·7	08	4·6	08	3·7	10	2·8	08	4·7	08	5·1	08	6·4	4·2
18	21	2·0	11	3·5	08	1·9	03	1·8	01	1·6	06	2·5	07	2·2	08	3·2	08	2·4	08	4·1	08	2·3	08	2·9	09	4·9	10	5·2	08	5·0	3·6
19	21	0·9	10	2·7	08	1·2	03	1·1	05	1·1	06	2·0	07	2·1	08	2·7	08	2·9	08	3·3	10	2·0	09	3·2	10	4·2	10	4·4	10	5·8	3·1
20	21	1·1	10	3·0	08	1·9	03	1·4	05	1·9	07	1·9	06	2·9	08	2·4	08	2·8	08	4·2	10	3·0	09	2·6	10	4·4	10	4·8	08	5·1	3·2
21	21	1·3	10	2·8	08	1·4	03	1·9	05	1·6	06	1·3	06	2·3	10	1·3	08	2·7	08	3·2	10	2·6	10	3·8	09	4·4	10	4·6	10	4·7	2·9
22	21	1·2	09	1·7	08	1·2	06	1·6	05	1·7	06	1·2	07	2·1	10	1·7	08	2·3	09	3·0	10	3·0	08	3·7	10	4·6	10	4·2	09	4·8	3·0
23	21	1·0	09	2·0	08	2·2	06	1·3	05	1·7	06	1·5	08	1·7	10	2·2	07	2·5	10	4·0	10	2·5	09	4·7	10	4·4	10	3·8	06	4·3	3·1

Table XIII.—Wind Frequency (Number of Observations), March, 1949

Hour	Force (0–12)			Direction															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	...	31	...	...	1	1	14	13	1	1	...	...	...	...	...	...	...	...
9	...	9	22	...	...	2	7	10	8	3	1	...	...	...	...	...	...	...	...
15	...	6	25	2	1	1	7	15	2	1	...	...	...	2	...	...	...	...	...
21	...	2	29	...	...	2	2	13	12	1	...	...	...	1	...	...	...	...	...
Totals	...	.	...	2	1	6	17	52	35	6	2	...	...	3	...	...	...	...	...

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, March. 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	..	2·8	...		...	1·4	...	...	0·4	...	1·0	...	...	1·9	...	...	...	...	...	...	...	0·1	...	...	3·0	..	...	...	...
2	...	...	...	0·6	...	...	1·0	...	...	...	0·4	...	...	...	...	2·0	...	...	...	...	...	...	...	...	...	1·8	0·2	. .	...	...	0·6
3	...	...	...	3·4	. .	...	...	0·2	...	...	0·4	0·4	...	...	...	·4	...	...	.	...	...	...	...	..	...	...	...	2·0	...	0·3	...
4	...	...	...	3·7	...	...	...	1·0	...	0·7	...	...	0·1	...	...	3·1	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...
5	...	...	...	0·2	...	...	...	...	...	..	0·3	...	...	...	...	1·8	...	..	...	...	...	...	...	...	...	...	0·3	0·2	...	...	...
6	...	...	...	...	...	...	0·3	...	...	0·2	...	...	...	...	..	0·1	...	...	..	...	...	...	...	...	...	...	0.2	0·4	...	1·9	4·0
7	...	...	...	...	...	...	1·3	...	...	0·1	0·1	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	0·2	0·4
8	...	...	...	1·0	...	...	1·8	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	5·1	...	1·3	...
9	...	...	...	2·1	0·2	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...
10	...	...	...	0·8	...	...	1·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
11	...	...	...	1·2	. .	...	0·8	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	4·0	...	...	0·2	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·5	...	...
13h	...	...	...	...	...	..	0·6	...	...	...	...	...	...	...	...	...	...	1·5		...	...	0·7	...	...	...	...	...	2·6	...	..	...
14	...	...	...	0·1	...	...	13·2	...	...	...	0·2	...	...	2.2	...	...	...	0·2	...	...	...	...	...	...	...	..	...	...	...	...	0·2
15	...	...	...	...	...	...	12·1	...	...	...	0·4	...	...	...	4·7	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...
16	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...		1·7	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	0·1
18	...	...	...	...	...	...	...	...	...	...	0 1	...	...	0·2	...	...	...	...	...	...	...		...	..	...	..	...	...	0 1	...	0·1
19	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6
20	...	...	...	...	...	..	...	...	...	...	0·3	0·6	...	...	...	...	...	...	...	..	...	...	...	...	...	1·1	...	...	...	...	0·7
21	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	3·5	...	...	...	0·4	2·3
22	. .	...	...	.	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	. .	...	...	...	0·1	...	...	...	...	2·0
23	...	...	...	...	...	...	...	...	...	...	0·1	0·1	...	...	...	...	...	...	...	...	...	...	0·1	...	...	0·1	...	1·7	...	...	2·2
24	...	...	9 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1·0	...	...	...	...	0·8

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for March. 1949

Day Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	...	12·8	0 5	...	0·2	0·9	...	...	...	...	1·0	...	...	1·8	...	...	...	...	...	...	..	...	...	...	0·2	1·4	...	...	0·5
2	...	...	...	3·2	0·2	...	0·7	0·8	...	1·6	...	..	...	...	...	0·1	...	..	...	...	...	...	...	...	...	...	0·3	...	...	1·9	...
3	..	...	...	0·8	0·5	...	0 3	1·1	...	0·3	...	2·6	0·2	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	5·7	...	0·7	0·4
4	...	...	...	...	0·4	...	...	...	...	...	...	...	0·1	...	...	0·8	...	...	...	..	...	...	...	...	...	0·1	...	1·4	0·6	1·0	0·7
5	...	...	...	1·3	1·5	...	0·1	...	...	0·1	...	0·3	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1·3	...	1·2
6	...	...	...	0·6	0·1	...	1·6	...	...	...	0·7	0·9	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	0·5
7	...	...	...	0·3	...	...	0·7	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	3·6	...	...	...
8	...	...	...	3·3	0·7	...	0.4	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	...
9	...	...	...	1·2	0·1	...	...	...	...	0·8	...	...	...	...	...	...	...	.	...	...	...	0·1	...	...	...	...	15·7	...	...	2·4	0·6
10	...	...	...	0·5	...	...	1·9	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	. .	.	...	...	...	0·5	...	...	...	...
11	...	...	...	0·1	...	...	1 5	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	0·3	...	...	...	0·2	...
Noon	...	...	...	0·2	...	...	...	...	...	0·2	0·7	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	.	...	0·2	0·9	0·3
13h	...	...	...	...	0·3	...	...	...	...	0·5	...	...	...	...	7·0	..	...	0·5	...		...	.	...	..	...	...	...	2.3	...	...	0·4
14	...	...	...	...	0·2	...	...	0·4	...	...	2·9	...	...	...	0·7	...	...	...	...	...	...	0·8	...	. .	...	...	...	0·8	...	...	0·3
15	...	...	...	...	0·4	...	0·2	0·4	...	...	...	...	..	...	...	...	...	...	0·7	...	...	0·2	...	...	...	...	...	...	1·5	...	...
16	...	...	...	..	...	...	...	...	...	...	11·9	...	...	...	0·4	...	...	...	0·5	...	...	...	...	...	...	...	...	..	0·4	...	0·1
17	...	...	0·4	...	...	...	...	...	...	...	2·4	...	...	...	0·4	...	...	...	0·2	...	...	...	...	...	...	...	...	...	0·2	...	1·3
18	...	...	...	...	...	...	...	0·2	...	0·2	1·3	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	0·2	...	2·3
19	...	...	0·2	...	...	...	...	0·2	...	...	1·8	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·6
20	...	...	2·5	...	...	0·3	...	...	...	0·3	6·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·6
21	...	...	0·7	...	...	...	...	...	...	...	0·5	.	...	...	...	...	...	...	...	...	...	...	...	...	...	7·0	...	...	...	...	0·5
22	...	...	1·5	0·3	...	...	..	...	...	...	4·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	...	0·2	0·8	..	1·0
23	...	...	2·2	0·5	...	...	...	...	0·2	...	8·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	0·2	0·4
24	...	...	0·4	0·5	...	0·3	...	...	0·3	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	1·5	0·2

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, March, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	6·20	157·5	...	17
B. River	Pierre Fonds ...	...	3·18	80·8	9·03	10
	La Ferme ...	350	2·03	51·6	12·25	11
	Richelieu ...	...	2·91	73·9	...	16
	Mon Repos (Palmyre)	...	1·97	50·0	...	7
	Médine ...	...	2·13	54·1	3·56	12
	La Meque ...	..	1·60	40·6	2·75	12
	Albion ...	...	1·90	48·3	1·31	10
	Beaux Songes ...	...	2·32	58·9	5.71	11
	Clarens	...	1·70	43·2	4·35	10
	Mare-Longue ...	...	8·51	216·2	...	9
	Mon Désert ...	...	2·12	53·8	5·03	18
P/mousses	Botanical Gardens	325	4·49	114·1	9·88	14
	Solitude ...	175	6·95	176·5	6·96	22
	La Nicolière ...	...	8·56	217·4	15·92	22
	The Observatory	179	5·68	144·3	8·59	...
	California ..	...	8·30	210·8	...	...
Rivière du	St. Antoine ...	50	5·99	152·1	7.78	...
Rempart	Bel Mont ...	50	6·37	161·8	8·44	...
	Poudre d'Or ...	20	6·32	160·5	7·69	...
	Mon Loisir ...	300	5.88	149·4	8·39	16
	Forbach ...	...	6·18	157.0	6·63	10
	Couroupa ...	...	6·75	171·4	7·32	11
	Ravensworth ...	...	8·40	213·4	...	12
	Labourdonnais	290	6.11	155·0	9·58	12
	Beau Séjour ...	300	6·05	153·7	11·43	12
	Mont Piton ...	680	6·07	154·2	10.47	12
	Mon Choix ...	700	5·80	147·3	9·64	11
	Antoinette ...	640	7·13	181·1	11·48	18
	Mon Songe ...	620	6·98	177.3	12·66	19
Moka	Bonne Veine ...	400	11·36	288·5	17·53	21
	Le Réduit ...	1,000	4·93	125·3	10·00	20
	Alma ...	...	11·83	300·5	19·00	21
	Hermitage ...	1,460	7 50	190·5	17·01	14
	Béga ...	1,450	3·01	76·5	...	17
	Côte D'Or ..	..	6.75	171·5	...	16
	Mon Rêve ...	...	4·65	118·1	...	16
	Mon Désert ...	1,450	7·13	181·1	...	14
	Mont Pévril ...	...	5·74	145·8	...	16
	Minissy ...	1,150	5·47	164.3	12 24	16
Plaines	Curepipe Gardens	1,840	13·56	344·3	18·02	19
Wilhems	Aerological Station ..	1,393	7·53	191·3	12·15	22
	Mare-aux-Vacoas (G.E.) ...	1,850	10·86	275·8	18·24	20
	Mare-aux-Vacoas (Arn.) ...	1,830	11·13	282·7	20·79	24
	La Marie Filter Beds ...	1,700	10·20	259·1	16·35	20
	Réunion ...	1,420	8·13	206·5	14·60	17
	Phœnix ...	...	7·19	182·6	...	12
	Quatre Bornes...	...	4·30	109·2	...	13
	Bagatelle ..	1,250	6·69	169·9	14·04	17
	Pétrin ...	...	10·88	276·4	...	23
	Henrietta ..	...	5·80	147·3	...	18
	Tamarin-Falls ...	...	6·61	167·9	...	17
	Moon ...	...	5·16	131·1	...	18
	Tamarin ...	..	2·35	59·7	...	7
	La Pipe and Midlands Dam	...	14·72	373·9	...	21
	Highlands ...	1,300	7·61	193.5	14·71	17
	Trianon ...	950	6·11	155·2	11·37	14
	Bassin ...	..	3·23	82.0	8·81	11
	Ebène ...	630	4·34	110·2	...	18
Flacq	Mare Sèche ...	20	...	...	6·30	...
	Australia ...	...	7·29	185·2	...	...
	Union Régnard S.E. ...	600	11·08	281·4	11·97	20
	Constance La Gaieté ...	100	5·07	128·8	11·28	10
	Belle Vue (Allendy) ...	900	6·32	160·5	10·09	12
	Sans Souci ...	20	14·15	359·4	19·63	19
	Rich Fund ...	...	9·20	233·7	...	21
	Beau Champ G.R.S.E. ..	400	9·29	236 0	9·20	23
	Olivia ...	...	11·41	289·8	12·81	21
	Trois Ilots ...	...	10·12	257·0	...	19
	Belle Rive ...	400	11·46	291·7	11·68	21
G. Port	Rose Belle ...	850	15·94	404·9	16·62	26
	Union Park ...	...	16·48	418·6	...	24
	New Grove ...	650	7 21	183·1	21·41	13
	Astroea ..	...	14·89	378·2	...	23
	Deux Bras ...	...	12·30	312·4	...	20
	Mon Trésor ...	...	8·12	206·2	...	14
	Beau Vallon...	...	5·80	147·3	...	14
	Union Vale ...	...	5·92	150·4	...	14
	Mon Désert Carié	75	5·65	143·5	9·03	14
	Ferney ...	20	8·65	219·7	14·25	18
	Ste. Hélène ...	...	6·40	162·6	...	15
	Sauve Terre...	...	6·30	160.0	...	14
Savanne	Tivoli ...	1,300	11·88	301·8	18·54	...
	La Flora ...	1,050	13·94	354·1	17·16	22
	Riche Bois ...	650	6·29	159·8	14·93	21
	Britannia ...	700	9·92	252·0	16·19	21
	Beau Climat...	...	15·85	402.6	...	20
	Savannah ...	200	5.41	137·4	15·24	18
	St. Aubin ...	300	5·27	133.9	11·19	14
	St. Avold ...	900	7·60	193.0	11·90	22
	Colmar ...	400	9·47	240·7	13·95	19
	Terracine ...	...	6 01	152.7	...	19
	Union S.E. ...	...	6·11	155·2	9·43	16
	Fontenelle ...	320	7·13	181·1	10·79	14
	Choisy ...	200	...	..	9·31	...
	Beau Bois ...	...	8·98	228·1	...	22
	Bel Air ...	...	11·35	288·3	10·00	14
	St. Félix ...	...	12·25	311·2	...	16
	Bel Ombre ...	40	5·63	143·0	9·65	...
	Beau Champ B. du Cap ...	...	6·10	154·9	11·35	...
	Frédérica ...	...	7·04	178·8	11·73	...
	Ste. Marie ...	...	5·90	149·9	...	...
	Combo ...	...	7·94	201·7	...	19
St. Brandon	Met. Station...	...	8·25	209·6	...	23
Agalega	Met. Station...	...	7·68	195·1	...	25
Rodrigues	Oyster Bay ...	...	2·04	51·8	...	14
Chagos-Archipelago	Salomon Islands (Boddam).	...	9·25	235·0	...	11

Table XVI.—Observations of Pilot Ballons, month of March, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	07.50	127	12	108	16	102	15	102	16	115	09	108	08	...	...	...	...	...	...	...	...	...	...
2	08.10	086	13	079	14	069	10	094	05	115	17	092	11	091	11	...	...	...	...	...	...	...	...
3	08.35	105	14	094	17	077	13	020	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	12.35	069	21	056	34	059	31	049	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	07.23	081	23	070	30	070	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	09.30	084	23	080	19	073	16	074	13	067	11	...	...	...	...	...	...	...	...	...	...	...	...
7	08.29	070	28	065	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	07.28	097	27	087	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	08.12	103	17	087	24	083	25	070	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	08·19	091	23	080	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	08.17	099	18	095	26	093	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	08.14	112	23	104	27	104	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	08.04	118	18	112	18	113	17	131	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	08.35	128	07	138	08	161	04	278	07	311	10	258	13	261	07	...	...	...	...	...	...	...	...
15	08.15	084	04	011	01	321	01	315	06	252	05	200	13	186	02	...	...	004	05	...	...	...	...
16	08.30	122	05	087	04	135	04	152	08	177	08	101	06	128	05	252	03	267	09	...	...	...	...
17	08.25	118	05	144	06	185	05	122	04	032	02	314	02	169	09	...	...	...	...	...	...	...	...
18	08.14	122	04	111	06	126	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	08·15	081	08	081	07	126	05	135	08	050	07	126	07	157	03	...	...	...	...	...	...	...	...
20	09.17	049	08	049	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08.48	049	13	050	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	07.50	093	12	090	16	086	16	053	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08·57	086	10	066	10	052	11	053	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.20	090	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.13	100	15	091	17	067	10	071	11	055	12	...	...	...	...	...	...	...	...	...	...	...	...
26	08.28	086	17	077	19	076	18	079	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	09.10	074	21	064	26	059	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08.28	108	12	097	14	067	19	063	21	063	26	067	20	062	09	080	12	...	...	...	...	...	...
29	07.45	116	21	102	22	088	24	095	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	08·55	103	19	082	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	08·28	102	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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AUG 17 1953
WEATHER BUREAU

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12s·6 E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

APRIL, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, APRIL 1952. 2079/4/52—208

Table I.—Results of Magnetical Observations taken during the month of April, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination (Unit 1 y)	Daily Range: Horizontal Force (Unit 1 y)	Daily Range: Vertical Force (Unit 1 y)
April	° ′			′		
1	15 28·0	·22336	.30316	8·2	33	27
2	27·6	332	311	12 8	33	48
3	27·5	329	312	11·6	45	35
4	27·2	321	316	11·6	23	31
5	27·9	322	318	12·6	18	32
6	27·9	321	314	12·0	23	38
7	27·8	330	310	12·6	20	47
8	26·9	—	328	6·0	—	32
9	—	278	326	—	55	35
10	27·1	288	325	6·6	33	24
11	—	309	319	—	93	43
12	—	318	320	—	90	40
13	—	310	322	—	40	21
14	—	329	319	—	65	31
15	—	330	317	—	58	27
16	—	321	320	—	36	26
17	28·0	327	325	8·0	57	13
18	28·2	327	323	11·4	23	30
19	28·1	322	321	12·2	41	27
20	27·8	329	315	14·4	37	40
21	27·2	326	317	12 2	23	37
22	28·3	331	315	11·4	17	39
23	28·0	328	319	10 4	40	28
24	28·9	335	319	13·2	46	36
25	28·4	328	314	13·6	28	48
26	28·4	332	321	11·6	12	21
27	27·3	328	321	8 2	30	29
28	28·1	328	320	8·4	36	24
29	28·3	—	319	10·4	—	31
30	27·3	—	320	10·0	—	26
31	—	—	—	—	—	—
Mean	° ′ 15 27·84	.22323	.30319	′ 10·84	39·1	32·2

Magnetic Disturbances—April, 1949

2d. Slightly disturbed.
7d. Slightly disturbed.
8d. Moderately disturbed.
10d. Slightly disturbed.
11d. Slightly disturbed.
12d. Slightly disturbed.
16d. Slightly disturbed.
18d. Slightly disturbed.
24d. Slightly disturbed.
27d. Moderately disturbed.
28d. Slightly disturbed.
29d. Moderately disturbed.

T= ·37650 : Mean Dip= 53°38′·22 : X= ·21515 : Y= −·059520 : Z= ·30319

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of April, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
5 9 47	15 32·50	5 9 58	·22325	5 9 38	53 37·25	·30325
12 9 36	15 30·13	8 9 32	·22274	12 9 45	53 38·50	·30321
19 9 08	15 33·06	12 9 16	·22357	19 9 18	53 38·75	·30324
26 9 57	15 34·87	19 9 40	·22341	26 10 10	53 37·13	·30317
		22 9 26	·22332			
		26 9 35	·22326			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

APRIL 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	27·6	27·4	27·6	28·0	27·6	28·0	28·0	28·4	29·4	28·0	—	28·2	—	—	—	—	Midnight
1h	27·8	27·8	28·0	28·0	28·0	28·2	28·0	28·6	29·2	28·2	—	28·0	—	—	—	—	1h
2	28·2	28·2	28·0	28·2	28·4	29·2	28·0	28·8	—	28·0	—	—	—	—	—	—	2
3	29·0	29·3	28·8	28·8	28·3	29·0	28·2	29·0	—	27·6	—	—	—	—	—	—	3
4	29·4	29·4	29·0	29·0	28·2	29·2	28·0	29·0	—	27·4	—	—	—	—	—	—	4
5	29·4	29·6	29·3	29.4	28·3	29·4	28·2	28·8	—	27·2	—	—	—	—	—	—	5
6	29·6	30·0	30·0	29·8	28·4	29·5	28·4	24.0	—	26·0	—	—	—	—	—	—	6
7	30·0	30·4	31·2	30·0	30·0	30·2	30·0	23·8	—	27·8	—	—	—	—	—	—	7
8	31·2	33·2	32·8	30·6	32·4	32·4	32·0	24·6	—	28·0	—	—	—	—	—	—	8
9	32·0	33·0	33·2	31·8	33·0	34·0	34·8	25·0	—	28·8	—	—	—	—	—	—	9
10	31·6	32·6	32·0	31·6	32·6	33·8	35·0	27·0	—	30·0	—	—	—	—	—	34.0	10
11	30·0	30·4	30·0	29·0	31·0	30·6	32·0	26·4	30·4	28·2	—	—	—	—	—	32·0	11
Noon	26·8	27·8	27·4	24·0	27·0	26·6	29·4	25·0	29·6	26·8	26·0	—	—	—	—	26·0	Noon
13h	24·4	24·2	24·0	20·8	28·6	23·6	26·0	24·4	27·0	25·4	25·6	—	—	—	—	24·0	13h
14	23·8	22·0	22·0	20·2	20·4	22·0	24·4	23·8	26·0	24·4	24·0	—	—	—	—	24·0	14
15	24·0	20·4	21·6	22·0	22·4	22·0	22·4	23·0	25·4	23·6	24·0	—	—	—	—	24·0	15
16	25·4	22·0	22·4	23·6	23·8	23·6	22·8	23·6	25·0	23·4	24·4	—	—	—	—	25·8	16
17	26·4	25·0	24·0	24·6	25·6	25·0	24·0	25·6	25·6	25·6	25·0	—	—	—	—	27·6	17
18	27·2	26·0	25·6	26·0	27·6	26.0	25·6	30·6	25·8	26·4	26·2	—	—	—	—	29·0	18
19	27·4	26·4	25·8	27·0	27·4	26·8	26·0	28·0	27·0	27·0	26·8	—	—	—	—	29·6	19
20	27·8	27·2	25·8	28·0	27·6	27·4	26·2	28·0	27·2	27·8	27·6	—	—	—	—	29·4	20
21	27·6	27·0	26·8	28·0	27·8	27·8	26·6	29·5	27·4	28·0	27·8	—	—	—	—	29·8	21
22	27·4	26·4	27·0	27·0	27·9	27·8	27·0	30·4	27·3	28·0	27·8	—	—	—	—	29·6	22
23	27·5	26·6	27·2	27·4	27·8	27·8	26·8	29·2	27·4	28·0	28·0	—	—	—	—	29·2	23

APRIL 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	28·4	27·8	27·8	28·1	27·8	28·0	28·0	28·3	27·4	28·0	28·0	28·2	28·3	28·2	—	28·0	Midnight
1h	28·2	27·9	27·0	28·3	27·9	28·2	28·2	28·2	28·0	28·0	28·2	28·3	28·3	28·4		28·1	1h
2	27·9	27·9	27·8	28·2	27·9	28·3	28·1	29·0	28·0	28·0	29·6	28·8	28·1	28·6	—	28·3	2
3	28·1	26·0	27·7	27·6	27·8	28·2	28·3	29·2	28·2	29·2	29·8	29·4	29·0	29·0	—	28·5	3
4	28·2	27·8	27·6	28·2	27·0	28·6	28·5	29·0	28·2	29·0	29·7	29·6	29·7	28·4	—	28·4	4
5	27·8	28·4	27·6	28·3	26·8	28·8	29·2	28·8	28·0	29·6	29·2	29·8	29·8	29·0	—	28·7	5
6	27·6	28·2	27·8	28·3	27·6	29·6	29·0	28·6	28·0	29·5	28·0	29·4	30·0	27·8	—	28·5	6
7	27·4	28·6	27·9	28·5	27·8	29·8	29·6	29·6	29·2	29·6	29·4	29·2	29·0	26·4	—	28·9	7
8	29·8	31·6	29·9	31·8	30·2	31·0	32·0	32·8	31·6	30·2	28·4	30·4	30·8	28·0	—	30·7	8
9	31·2	33·8	32·8	35·8	33·6	33·6	33·8	36·4	33·8	33·6	24·0	32·4	33·6	30·4	—	32·4	9
10	32·4	35·0	34·8	36·0	33·0	34·8	33·0	37·2	36·0	35·4	26·8	31·6	34·0	30·0	—	32·9	10
11	30·6	31·4	33·6	32·8	29·4	32·4	31·8	34·6	35·0	31·6	24·4	28·4	32·0	29·2	—	30·6	11
Noon	28·0	30·0	30·8	26·8	26·0	29·0	28·0	30·0	31·4	28·2	21·6	24·9	29·6	24·4	—	27·4	Noon
13h	26·0	27·4	27·0	23·6	24·0	26·8	26·4	27·6	28·2	26·8	28·2	24.6	27·8	20·4	—	25·5	13
14	24·6	25·8	25·8	22·0	23·0	25·0	26·0	27·4	26·0	24·4	26·4	25·0	24·0	22·6	—	24·0	14
15	24·4	23·6	22·6	21·6	21·4	23·4	23.6	25·0	23·6	23·8	24·0	24·0	23·6	24·8	—	23·1	15
16	25·6	24·0	23·2	22·0	22·0	23·6	23·4	24·0	22·4	24·4	24·4	24·4	23·8	26·0	—	23·6	16
17	26·4	25·4	24·6	24·8	24·2	25·6	24·4	25·6	24·0	26·2	26·8	26·8	25·4	26·0	—	25·3	17
18	28·0	26·4	26·4	26·0	26·0	26·4	25·8	26·0	26·2	27·0	27·6	28·2	26·8	27·8	—	26·8	18
19	28·2	27·4	27·4	26·6	26·8	27·0	26·0	26·4	26·6	27·6	27·8	28·0	27·4	27·4	—	27·1	19
20	28·6	28·0	28·0	27·6	27·6	27·8	26·4	27·0	27·4	27·8	28·0	28·2	26·2	27·6	—	27·5	20
21	29·0	28·2	28·6	28·0	27·8	28·0	26·9	27·6	28·0	28·0	28·3	28·8	26·0	27·8	—	27·8	21
22	28·6	27·8	29·0	28·0	28·0	28·0	27·4	28·0	28·2	28·2	28·5	28·6	28·2	28·0	—	28·0	22
23	28·4	27·6	28·8	28·4	28·0	28·2	27·6	28·2	28·2	28·2	28·8	28·5	28·0	28·0	—	28·0	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

APRIL 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	325	329	321	319	317	320	323	303	248	288	285	300	311	304	331	312	Midnight
1h	328	327	326	317	318	319	322	300	251	290	298	310	309	307	325	320	1
2	330	326	325	319	319	320	323	307	253	292	300	318	308	313	323	330	2
3	331	325	329	321	320	325	325	290	258	293	303	317	310	315	324	329	3
4	331	328	330	322	322	323	326	285	262	295	306	322	312	312	330	328	4
5	332	330	331	327	327	320	328	284	264	294	304	324	315	310	330	327	5
6	333	324	335	327	325	321	323	283	265	290	300	329	308	318	329	327	6
7	336	328	339	329	324	320	328	277	266	292	304	335	310	320	330	327	7
8	337	329	338	331	323	317	323	262	270	291	301	342	297	329	331	328	8
9	331	325	336	332	320	307	321	264	274	297	305	355	310	335	337	331	9
10	329	322	331	329	321	309	330	260	277	290	309	360	323	350	342	333	10
11	337	330	328	327	315	310	330	258	285	302	325	358	330	362	354	331	11
Noon	351	342	341	328	324	317	342	250	299	300	360	359	337	369	368	334	Noon
13	358	354	351	327	333	330	340	245	303	303	358	352	331	369	365	330	13
14	352	351	344	322	325	329	331	—	300	294	350	322	322	350	352	328	14
15	347	349	338	314	325	327	335	—	300	292	340	300	309	332	337	320	15
16	338	348	320	309	323	320	337	—	288	286	328	295	310	332	320	318	16
17	337	338	318	316	322	325	340	—	287	275	315	283	300	325	312	317	17
18	338	331	325	314	321	324	340	—	282	276	303	270	298	322	310	309	18
19	333	329	329	311	322	327	330	—	283	273	290	277	299	325	313	302	19
20	332	328	320	317	321	329	331	—	284	280	280	289	297	318	315	298	20
21	331	327	306	319	320	325	339	—	282	281	267	300	298	317	316	304	21
22	331	322	312	318	320	324	330	—	283	270	278	299	307	323	317	308	22
23	330	321	316	318	321	323	325	—	283	272	294	309	305	327	319	312	23

APRIL 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	310	317	314	316	319	325	329	316	330	334	335	324	314	—	—	315	Midnight
1h	318	322	323	311	319	320	330	319	331	335	336	327	320	—	—	317	1h
2	328	321	321	313	322	320	331	320	331	336	331	324	327	—	—	318	2
3	327	335	324	328	324	323	329	322	328	335	333	325	328	—	—	321	3
4	323	327	327	324	332	328	328	326	338	336	336	327	327	—	—	322	4
5	326	322	328	327	340	329	327	329	332	334	334	322	—	—	—	323	5
6	332	321	330	330	342	330	329	340	331	328	340	319	—	—	—	323	6
7	340	328	334	332	338	332	332	344	328	327	337	317	—	—	—	325	7
8	348	329	336	335	332	337	338	348	327	328	340	328	—	—	—	326	8
9	352	331	338	338	322	335	350	350	326	325	341	335	-	-	—	328	9
10	352	338	343	343	318	330	351	352	330	329	340	337	—	307	—	330	10
11	354	339	338	342	323	332	348	357	340	327	338	338	—	308	—	333	11
Noon	357	339	335	348	329	337	347	362	339	334	330	340	—	312	—	340	Noon
13	342	340	325	341	325	337	340	350	322	332	339	348	—	310	—	339	13h
14	333	337	312	332	321	333	330	338	314	328	322	342	—	312	—	330	14
15	330	331	304	324	320	336	323	331	312	329	319	332	—	313	—	324	15
16	308	326	302	327	319	335	317	330	320	334	311	330	—	307	—	320	16
17	300	324	310	328	321	334	315	329	321	330	314	324	—	309	—	317	17
18	304	321	309	327	327	333	316	330	325	332	317	327	—	312	—	316	18
19	310	323	311	328	329	337	317	329	327	337	319	329	—	315	—	316	19
20	311	321	313	326	330	337	321	327	329	334	320	328	—	317	—	316	20
21	309	322	315	324	327	330	314	326	327	335	318	324	-	313	—	315	21
22	310	321	316	321	328	329	314	327	328	330	319	323	—	315		315	22
23	311	320	317	320	327	328	311	329	332	337	320	312	—	317	—	316	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

APRIL 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	321	320	319	320	320	320	319	320	336	328	330	327	327	329	322	322	Midnight
1h	321	320	320	321	320	320	319	322	335	327	330	324	327	329	322	322	1h
2	321	320	320	320	320	320	319	322	335	327	330	323	327	326	321	321	2
3	321	320	319	320	320	320	319	325	335	327	328	324	325	324	321	320	3
4	320	319	318	320	320	320	319	324	335	328	327	325	325	324	320	320	4
5	320	320	318	320	320	320	319	327	335	330	330	325	325	324	321	321	5
6	320	320	318	320	320	320	320	322	336	330	331	326	326	325	323	321	6
7	320	321	320	320	320	321	324	322	338	330	331	329	327	326	327	322	7
8	320	326	320	326	326	327	325	330	338	334	333	330	327	327	325	326	8
9	328	327	320	327	327	331	327	331	337	333	333	324	333	328	323	330	9
10	321	320	320	320	322	323	323	333	333	324	328	311	330	330	313	328	10
11	311	306	309	310	312	307	310	328	325	314	317	297	320	318	304	318	11
Noon	302	292	300	297	300	298	294	315	313	310	300	291	310	304	300	308	Noon
13h	301	280	288	296	298	293	280	312	303	310	290	296	307	298	300	304	13h
14	303	279	286	300	297	294	281	316	304	310	290	302	308	299	300	306	14
15	307	283	291	307	304	297	288	320	309	314	290	308	308	302	306	310	15
16	310	294	300	314	313	303	290	327	310	322	296	317	312	309	311	317	16
17	312	303	308	318	320	310	300	331	314	327	304	323	317	314	316	320	17
18	314	308	312	319	322	313	307	342	320	328	315	327	320	319	318	322	18
19	315	310	313	320	324	314	310	334	321	331	318	328	321	319	320	323	19
20	318	313	316	320	326	315	312	338	324	333	322	330	325	320	322	325	20
21	320	317	320	320	328	316	313	341	327	332	330	331	328	323	323	328	21
22	320	317	321	320	329	318	314	344	327	331	328	330	328	322	322	327	22
23	320	318	320	320	329	319	317	337	327	332	327	330	328	322	322	326	23

APRIL 1949—*continued*

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	325	329	325	324	322	321	320	325	320	319	320	323	324	328	—	323	Midnight
1h	325	326	324	325	322	321	320	323	320	318	320	322	322	326	—	323	1h
2	322	326	325	325	322	322	320	323	320	318	320	321	321	325	—	323	2
3	322	326	324	323	321	322	320	323	320	319	320	321	320	323	—	322	3
4	322	323	324	323	320	322	320	322	320	319	320	321	320	323	—	322	4
5	322	324	324	324	320	323	321	323	320	320	320	321	320	322	—	323	5
6	322	324	324	324	320	323	321	323	321	320	320	322	321	322	—	323	6
7	322	330	323	325	322	323	323	324	324	322	322	323	321	320	—	324	7
8	328	332	326	328	330	327	329	330	329	327	330	327	328	327	—	328	8
9	333	337	330	330	334	330	332	336	333	333	337	330	331	330	—	330	9
10	334	334	333	324	330	327	330	333	320	333	337	328	330	330	—	327	10
11	322	330	327	310	318	313	318	320	303	330	320	317	320	320	—	316	11
Noon	322	320	313	300	304	300	304	307	290	321	310	307	312	313	—	305	Noon
13h	321	317	310	295	302	294	306	300	285	318	308	306	311	309	—	301	13h
14	321	310	307	291	300	293	308	302	287	317	309	308	305	308	—	301	14
15	321	307	306	290	297	291	306	306	291	312	310	310	300	304	—	303	15
16	321	310	309	296	301	298	309	306	300	312	312	313	302	310	—	308	16
17	326	315	317	307	311	308	313	311	310	316	320	320	310	316	—	315	17
18	325	318	320	308	318	313	320	315	314	320	320	322	316	320	—	319	18
19	326	319	322	314	320	317	320	317	318	320	321	321	318	320	—	320	19
20	328	320	323	317	320	318	322	318	320	322	324	322	320	322	—	322	20
21	329	322	325	319	320	320	322	320	320	323	324	324	321	324	—	324	21
22	329	323	325	320	320	320	323	321	320	322	325	323	326	324	—	324	22
23	329	323	326	320	321	320	325	321	320	321	325	324	330	324	—	324	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of April, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Cavella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
APRIL	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	967·1	23·6	1·2	21·8	90	26·1	90	6 7	6	21·6	23·2	24·7	22·0	25·8	21·0	4·8	13·6	95	8·8	74
2	967·1	25·1	2·6	21·2	79	25·2	90	8·1	6	21·5	24·6	25·4	21·9	26·2	21·0	5·2	12·3	120	10·5	89
3	967·1	23·3	0·9	22·0	93	26·4	90	3·1	7	21·6	23·0	24·4	22·0	25·2	21·5	3·7	44·3	215	1·9	16
4	966·6	24·7	2·3	21·2	81	25·2	90	6·7	6	21·9	24·2	23·1	22·0	25·6	21·3	4·3	0·7	5	10·3	88
5	966·2	23·4	1·0	21·9	92	26·3	80	8·9	8	21·5	23·1	23·5	21·8	24·8	21·3	3·5	15·2	75	5·1	44
6	967·5	23·9	1·4	21 8	88	26·1	100	2·2	7	21·6	23·4	24·4	22·0	25·4	21·5	3·9	11·9	110	6·8	58
7	966·8	24·0	1·3	22·1	89	26·6	100	3·1	7	21·4	23·2	24·6	21·7	25·6	21·3	4·3	6·8	70	8·8	76
8	967·3	24·9	3·4	19·7	73	23·0	110	8·1	4	21·5	24·2	24·6	21·0	25·6	21·0	4·6	0·0	0	10·8	93
9	968·8	23·5	2·2	20·1	82	23·5	120	5.4	5	20·5	23·0	24·3	20·6	25·3	20·0	5·3	13·6	155	7·9	68
10	970·0	23·2	2·0	20·1	83	23·5	110	6·7	8	20·0	22·8	23·2	20·4	24·3	19·8	4·5	18·7	175	4·8	42
11	969·6	23·4	3·7	17·5	70	20·0	105	8·1	4	19·6	23·0	22·9	20·6	24·1	19·3	4·8	0·5	5	9·5	82
12	968·4	22·4	2·9	17·7	75	20·3	110	7·2	4	19·7	22·2	22·1	19·8	24·2	19·0	5·2	2·4	25	8·6	74
13	969·0	23·4	3·3	18·1	72	20·8	105	6·7	5	19·5	23·0	22·9	19·4	24·0	19·3	4·7	6·0	60	8·9	77
14	969·4	22·2	1·3	20·2	89	23·7	100	8·5	8	19·3	22·0	21·8	20·5	23·8	18·9	4·9	22.9	205	4·2	37
15	967·6	22·9	1·3	20·9	89	24.7	90	7·6	6	20·6	22·4	24·1	21·8	25·0	20·6	4·4	5·5	60	8·3	72
16	965·9	23·5	2·0	20·4	83	24·0	90	7·6	3	21·5	23·1	24·7	22·0	25·3	21·1	4·2	4·2	50	9·2	80
17	966·4	23·2	1·0	21·7	92	26·0	90	6·7	6	21·8	23·0	24·6	22·1	25·3	21·6	3·7	4.5	30	5·9	51
18	968·1	23·6	1 9	20·7	84	24·4	105	5·4	5	22·0	23·2	23·4	21·6	25·0	21·6	3·4	0·0	0	8·8	77
19	967·7	23·9	2·8	19·5	77	22·7	110	5·8	5	20·5	23·3	24 0	21·0	24·6	20·2	4·4	1·8	25	9·2	80
20	968·4	23·0	0·7	22·0	94	26·4	105	6.7	6	20·6	22·5	23·4	21·3	24·0	20·3	3·7	3·4	25	7·2	63
21	969·3	24·2	2·6	20·1	78	23·5	110	5·4	6	21·2	24·0	24·4	21·4	25·4	20·8	4·6	0·2	0	7·7	67
22	970·2	22·4	1·2	20·6	89	24·2	110	6·7	6	21·0	22·2	23·9	20·8	24·6	20·8	3·8	1·9	10	8·9	78
23	970·3	22·9	2·8	18·4	76	21·2	110	6·7	6	20·1	22·6	22·4	19·5	24·0	19·5	4·5	6·0	40	6·2	54
24	969·6	23 2	3·4	17·8	72	20·4	105	6·7	4	18·2	23·0	23·7	19·6	24·2	17·6	6·6	0·0	0	10·0	87
25	968·7	21 7	2·0	18·5	82	21·3	110	6·7	7	18·8	21·2	21·4	20·5	23·0	18·5	4·5	11·5	75	0·4	4
26	968·2	23·0	2·1	19·8	82	23·1	100	7·6	6	19·9	22·6	22·6	20·6	25·0	19·5	5·5	1·3	15	9·4	83
27	969·0	23·9	3·1	19·2	75	22·2	90	3·1	4	19·7	23·0	23·9	19·5	24·2	19·1	5·1	0·0	0	10·8	95
28	968·8	23·9	2·8	19·5	77	22 7	80	3·1	6	18·9	23·2	23·4	21·4	25·0	18·2	6·8	0·0	0	4·5	40
29	968·5	23·0	0 7	22 0	94	26 4	60	2·2	5	21·4	22 5	25·2	20·6	25·6	20·9	4·7	11·7	75	8·8	78
30	967·9	24·3	3·6	18·6	71	21·4	Calm	Calm	4	20 4	24·0	24·8	21·5	26·7	20·1	6·6	0·1	0	9·9	88
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean ...	967·5	23·4	2·1	20·2	82·3	23 7	—	5·9	5·7	20·6	23·0	23·7	21·3	24·9	20·2	4·7	221·0	1720	7·73	67·1
Average	966·9	23·5	2·2	20·0	81·2	23·4	—	4·3	6·4	—	—	—	—	25·6	19·5	6·1	259·1	1927	—	—
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Excess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	41·8 mbs.	Amount of Rain	—	88·3 mms.
Temperature of the Air	+	2·9 °C	Duration of Bright Sunshine	+	22·3 hrs.
Vapour Pressure	+	2·3 mbs	Mean of Maximum Temperatures	+	2·4 °C
Relative Humidity	—	3·4 %	Mean of Minimum Temperatures	+	2·0 °C
Velocity of Wind	—	0·2 mps.	Absolute Maximum Temperature	+	1·6 °C
			Absolute Minimum Temperature	+	1·9 °C

Table VII.—Daily Results of Meteorological Observations made during the month of April, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum of the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
APRIL	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1007·0	+ 0·5	28·2	22·7	5·5	25·1	+ 0·3	1·6	22·8	+ 1·3	87	+ 5	27·8	20·8
2	1007·1	+ 0·6	28·3	23·0	5·3	25·5	+ 0·7	1·6	23·2	+ 1·7	87	+ 5	28·4	21·0
3	1007·4	+ 0·8	27·6	22·5	5·1	24·9	+ 0·2	1·2	23·2	+ 1·8	90	+ 8	28·4	20·7
4	1006·4	− 0·3	28·2	23·6	4·6	25·3	+ 0·6	1·9	22·5	+ 1·1	85	+ 3	27·3	21·4
5	1006·0	− 0·8	27·8	22·8	5·0	24·9	+ 0·2	1·2	23·2	+ 1·8	90	+ 8	28·4	20·9
6	1006·4	− 0·5	28·2	23·1	5·1	25·1	+ 0·5	1·2	23·4	+ 2·1	90	+ 8	28·8	21·2
7	1007·0	0·0	27·9	23·0	4·9	25·1	+ 0·5	1·4	23·1	+ 1·8	89	+ 7	28·3	21·3
8	1008·4	+ 1·4	28·1	22·1	6·0	25·0	+ 0·5	2·4	21·4	+ 0·2	80	− 2	25·5	20·4
9	1009·0	+ 1·9	28·0	21·4	6·6	24·3	− 0·2	2·1	21·1	− 0·1	82	0	25·0	20·0
10	1009·6	+ 2·4	27·7	22·4	5·3	24·5	+ 0·1	1·9	21·6	+ 0·5	84	+ 2	25·8	20·6
11	1009·6	+ 2·4	27·0	22·4	4·6	24·2	− 0·2	2·5	20·3	− 0·8	79	− 3	23·8	20·7
12	1008·5	+ 1·2	27·0	22·0	5·0	24·0	− 0·3	2·7	19·8	− 1·2	78	− 4	23·1	20·5
13	1009·5	+ 2·2	26·7	22·3	4·4	23·6	− 0·7	1·9	20·7	− 0·3	84	+ 2	24·4	20·8
14	1009·3	+ 1·9	26·8	21·5	5·3	23·8	− 0·4	1·5	21·6	+ 0·7	87	+ 5	25·8	19·8
15	1007·3	− 0·2	27·2	23·9	3·3	25·0	+ 0·8	1·8	22·3	+ 1·4	85	+ 3	27·0	21·8
16	1005·7	− 1·8	27·5	22·8	4·7	25·3	+ 1·2	2·1	22·2	+ 1·4	83	+ 2	26·8	20·6
17	1006·5	− 1·1	27·0	23·4	3·6	25·0	+ 1·0	1·3	23·1	+ 2·4	89	+ 8	28·3	21·7
18	1008·1	+ 0·4	27·7	23·6	4·1	24·9	+ 0·9	2·0	21·9	+ 1·2	84	+ 3	26·3	21·9
19	1007·9	+ 0·1	27·8	21·4	6·4	24·5	+ 0·6	2·7	20·3	− 0·2	77	− 4	23·8	20·0
20	1008·7	+ 0·8	27·7	22·7	5·0	24·8	+ 0·9	2·2	21·6	+ 1·1	82	+ 1	25·8	20·9
21	1009·9	+ 2·0	28·2	22·8	5·4	25·1	+ 1·3	2·3	21·7	+ 1·3	81	0	26·0	20·8
22	1010·5	+ 2·5	27·1	22·7	4·4	24·4	+ 0·6	2·3	20·9	+ 0·5	81	0	24·7	20·7
23	1010·6	+ 2·5	27·1	21·8	5·3	23·2	− 0·5	2·3	19·6	− 0·7	80	− 1	22·8	20·0
24	1009·8	+ 1·6	26·7	19·7	7·0	23·1	− 0·6	2·5	19·2	− 1·1	79	− 2	22·2	19·8
25	1009·0	+ 0·8	26·0	21·0	5·0	23·4	− 0·2	2·1	20·2	0·0	82	+ 1	23·7	19·6
26	1009·1	+ 0·8	26·1	22·2	3·9	23·6	+ 0·1	1·9	20·7	+ 0·6	84	+ 3	24·4	20·0
27	1009·5	+ 1·1	26·8	21·2	5·6	23·4	− 0·1	2·2	20·0	− 0·1	81	0	23·4	19·8
28	1009·4	+ 0·9	26·5	19·5	7·0	23·3	− 0·1	1·6	20·9	+ 0·9	86	+ 5	24·7	17·4
29	1008·9	+ 0·3	26·9	22·3	4·6	23·9	+ 0·5	1·3	22·0	+ 2·0	89	+ 8	26·4	20·3
30	1008·5	− 0·2	27·2	21·4	5·8	23·9	+ 0·6	1·8	21·2	+ 1·3	85	+ 4	25·2	20·0
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	1008·4	+ 0·8	27·3	22·2	5·1	24·4	+ 0·3	1·9	21·5	+ 0·7	84·0	+ 2.5	25·7	20·4
Average	1007·6	—	27·6	21·1	6·5	24·1	—	2·2	20·8	—	81·5	—	24·4	18·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of April, 1949

The weak cyclonic depression noted at the end of March reached the coast of Madagascar on the 1st in latitude 12°S. It moved across the extreme north into the Mozambique Channel. It then deepened into a cyclone of slight to moderate intensity while moving west-south-west and then south-west.

A weak cyclonic depression was centred on the 4th some 500 miles north by east of Mauritius. It moved extremely slowly south for two days and then west-south-west and by the 7th was located nearly 400 miles north-north-west of Mauritius, where it became stationary and filled up.

A weak cyclonic depression was centred on the 16th 650 miles north-east of Mauritius. It followed a west-south-west course at moderate speed until by the 18th it was centred 325 miles north-north-west of Mauritius. Here it became stationary and filled up.

Between the 16th and 20th there were indications of a cyclone about 2,000 miles east-north-east of Mauritius moving south-south-east.

On the 19th there was some indication of a cyclonic depression about 1,300 miles east-north-east of Mauritius.

Pressure was generally above normal, the mean being above by 0·8 millibar. Temperature was slightly above and sunshine appreciably above normal. Rainfall was just above the average and was well distributed.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of April, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 Inches
APRIL	mins.	mms.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	10·7	90	2·9	10·0	84	4·5	+ 1·3	25·6	26·2	27·2	28·1
2	20·7	135	5·6	10·3	87	4·7	+ 1·5	25·6	26·3	27·1	28·0
3	18·5	165	3·0	3·8	32	4·1	+ 0·9	25·6	26·2	27·1	28·2
4	4·5	35	3·9	10·4	88	4.4	+ 1·2	25·6	26·1	27·1	27·8
5	7·5	125	4·9	8·6	73	5·1	+ 1·9	25·6	26·1	27·0	27·9
6	3·9	70	2·8	7·5	64	3·6	+ 0·4	25·7	26·6	26·9	27·7
7	7·5	170	4·1	8·5	73	4·2	+ 1·0	25·7	26·8	27·0	27·9
8	0·0	—	4·7	11·0	94	3·6	+ 0·3	25·6	26·6	27·0	28·0
9	3·5	130	5·1	10·6	91	3·9	+ 0·6	25·6	26·6	27·0	27·9
10	1·9	60	5·0	7·6	65	5·4	+ 2·1	25·6	26·5	27·0	28·1
11	0·0	—	5·5	9·9	85	4·9	+ 1·6	25·6	26·5	26·9	27·8
12	0·0	—	5·7	10·0	85	5·3	+ 2·0	25·6	26·4	26·9	27·6
13	0·3	20	3·2	9·6	83	4·0	+ 0·7	25·6	26·4	26·8	27·6
14	9·6	150	3·5	6·2	53	5·3	+ 2·0	25·6	26·3	26·6	26·9
15	1·0	35	3·2	8·8	76	5·3	+ 2·0	25·6	26·3	26·6	27·2
16	5·4	20	3.7	8·2	71	4·9	+ 1·6	25·8	26·4	26·4	27·3
17	12·7	90	4·5	5·5	47	4·3	+ 1·0	25·7	26·7	26·4	27·3
18	0·0	—	3·6	9·9	86	4·1	+ 0·8	25·7	26·4	26·5	27·6
19	0·0	—	4·6	10·1	88	4·4	+ 1·1	25·7	26·4	26·5	27·5
20	0·1	10	5·0	9·5	83	4·9	+ 1·6	25·7	26·4	26·5	27·5
21	0·5	15	5·1	9·4	82	3·5	+ 0·2	25·7	26·4	26·5	27·4
22	0·0	—	3·5	9·4	82	4·0	+ 0·7	25·7	26·4	26·5	27·4
23	1·4	15	4·6	4·6	40	3·7	+ 0·4	25·7	26·3	26·5	27·2
24	0·2	5	1·9	9·9	86	3·7	+ 0·4	25·8	26·3	26·5	27·1
25	3·9	65	4·1	3·3	29	4·8	+ 1·5	25·8	26·2	26·4	26·7
26	2·7	55	2·8	9·2	81	4·8	+ 1·5	25·7	26·2	26·3	26·8
27	0·4	15	5·0	10·3	90	3·1	− 0.2	25·7	26·3	26·4	26·8
28	0·5	20	4·6	3·0	26	2·3	− 1·0	25·7	26·4	26·4	26·9
29	15·3	120	4·2	9·0	79	2·8	− 0·5	25·8	26·2	26·1	26·9
30	0·0	—	4·4	10·3	91	2·3	− 1·0	25·8	26·3	26·1	27·1
—	—	—	—	—	—	—	—	—	—	—	—
Mean	132·7 Sum	1615	4·2	8·48	73·1	4·20	+ 0·92	25·67	26·37	26·87	27·47
Average	126·4	1522	4·4	7·55	65·0	3·28	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of April, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1012·1 mbs	at	09.00 hrs.	on 23rd	1004·3 mbs	at	14, 15, & 16 hrs.	on 10th
Temperature of the Air	28·3 °C	,,	12.50 hrs.	,, 2nd	19·5 °C	,,	05.50 hrs.	,, 28th
Daily range of temperature of the Air ...	7·0 °C	,,	—	,, 24th & 28th	3·3 °C	,,	—	,, 15th
Temperature of the Dew Point	—		—	—	—	,,	—	,, —
Daily range of temperature of the Dew Point...	—		—	—	—	,,	—	,, —
Minimum on Grass	—		—	—	17·4 °C	,,	—	,, 28th
Relative Humidity	—		—	—	—	,,	—	,, —
Vapour Pressure	—		—	—	—	,,	—	,, —
Evaporation in 24 hours	5·7 mms	,,	—	,, 12th	1·9 mms	,,	—	,, 24th
Wind Velocity	8.5 m.p.s.	,,	13.00 hrs.	,, 5th	—	,,	—	—
Rainfall in 24 hours	24·6 mms ending		21.00 hrs.	,, 3rd	—	,,	—	—
Duration of sunshine	11·0 hrs.		—	,, 8th	3·0 hrs.	,,	—	,, 28th

Mean Day Temperature of Air 25·71°C Average 25·54°C Mean Night Temperature of Air 23·09°C Average 22·39°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunderstorm
6	8	4	5	1	1	1	1	1

Table VIII.—Barogram

APRIL 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	077	075	076	072	065	071	074	079	097	100	103	097	092	112	093	066	Midnight
1h	074	071	074	073	057	065	072	075	097	097	100	093	087	103	090	062	1h
2	067	066	073	067	055	061	068	074	093	093	095	085	085	097	082	056	2
3	059	062	072	058	053	056	063	072	085	092	093	083	081	095	078	053	3
4	057	063	072	061	053	055	064	073	084	086	093	076	081	095	072	051	4
5	057	065	071	062	054	055	067	075	084	089	093	076	078	096	073	053	5
6	059	072	075	066	058	059	068	085	087	093	095	080	081	096	074	054	6
7	066	074	076	072	063	065	073	091	094	097	099	085	086	099	075	056	7
8	075	078	078	075	067	072	074	094	097	101	105	090	094	106	085	063	8
9	079	084	082	076	069	073	076	092	098	108	112	095	104	107	087	072	9
10	079	084	079	073	066	072	074	091	095	108	111	094	102	111	085	068	10
11	076	079	077	066	062	068	073	080	093	102	105	092	100	105	080	063	11
Noon	073	072	074	058	055	066	072	074	086	095	100	085	095	097	074	055	Noon
13h	065	067	069	054	053	060	063	073	078	093	092	075	087	093	068	052	13h
14	058	064	063	053	051	054	058	073	073	084	085	073	085	084	057	043	14
15	057	059	060	051	049	053	057	071	074	080	080	072	085	077	057	043	15
16	059	055	064	052	051	052	056	073	075	081	080	073	091	075	055	043	16
17	065	055	067	053	055	054	060	076	080	084	081	074	093	074	055	045	17
18	070	064	073	054	056	057	065	082	085	092	090	080	096	075	057	053	18
19	075	070	075	062	063	062	072	095	093	096	094	085	104	079	068	055	19
20	085	075	085	067	073	073	074	101	097	103	101	093	112	087	073	064	20
21	091	084	084	075	074	074	083	105	105	111	104	095	113	093	073	066	21
22	086	084	079	074	074	077	086	101	108	110	104	096	114	095	073	066	22
23	077	084	075	072	073	075	085	098	105	106	102	093	113	096	073	065	23

APRIL 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	062	082	085	085	095	112	112	113	098	094	104	104	097	095	—	1009·0	Midnight
1h	057	075	084	081	094	112	112	107	094	093	097	098	096	093	—	1008·6	1h
2	053	074	080	078	092	105	105	100	092	087	094	093	086	087	—	1008·1	2
3	053	073	075	075	084	098	103	095	085	082	093	087	081	081	—	1007·7	3
4	051	073	074	075	084	094	102	094	079	077	087	084	081	079	—	1007·6	4
5	050	074	075	076	092	095	103	093	077	078	086	085	082	078	—	1008·0	5
6	053	077	076	079	094	102	109	095	084	083	092	089	087	081	—	1008·0	6
7	058	083	079	088	097	107	113	101	092	090	094	093	093	085	—	1008·5	7
8	065	091	089	093	105	113	115	107	095	093	098	096	094	092	—	1009·0	8
9	074	093	091	095	105	115	121	112	097	098	107	096	098	093	—	1009·0	9
10	073	094	087	098	107	116	117	110	099	096	105	099	097	091	—	1009·3	10
11	072	092	077	094	106	113	113	099	094	095	097	095	097	084	—	1008·8	11
Noon	065	086	075	090	097	105	104	099	090	090	094	093	093	079	—	1008·3	Noon
13h	055	075	071	082	093	096	104	091	083	080	085	093	086	075	—	1007·7	13h
14	054	073	065	077	087	094	095	085	081	077	080	087	079	073	—	1007·2	14
15	054	071	065	077	088	093	093	083	084	076	079	085	075	071	—	1007·3	15
16	056	072	066	078	092	094	090	085	081	079	084	087	075	073	—	1007·2	16
17	063	074	069	079	094	096	093	089	081	087	090	088	077	074	—	1007·4	17
18	071	075	074	086	099	103	094	092	090	093	093	093	083	081	—	1007·9	18
19	074	084	080	093	107	107	097	094	093	095	095	095	089	091	—	1008·5	19
20	080	090	089	097	113	113	108	098	097	105	104	097	094	094	—	1009·1	20
21	084	092	092	105	115	115	113	101	104	110	110	103	096	095	—	1009·5	21
22	083	092	091	105	115	116	115	104	101	110	112	107	101	097	—	1009·6	22
23	082	090	089	099	115	113	114	103	095	105	103	106	097	096	—	1009·4	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder

APRIL 1949

Day / Hour Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	2	0	0	5	0	0	0	20	15	0	0	10	0	0	0	0	0	0	0	0	0	12	15	25	0	0	20	0	0	20	—	2·4
8	12	55	5	50	25	45	5	60	25	20	40	15	25	2	30	15	12	50	30	2	8	20	60	40	20	60	60	50	0	60	—	15·0
9	45	60	10	60	25	48	45	60	35	10	60	60	60	12	60	30	25	60	60	32	45	20	60	50	0	60	60	60	40	60	—	21·9
10	50	60	35	60	30	50	45	60	60	35	60	55	60	25	40	60	40	20	60	35	60	30	50	60	0	60	60	55	60	60	—	23·9
11	60	60	20	60	40	10	60	60	60	20	60	55	60	55	60	60	25	48	40	45	60	60	28	60	0	60	60	12	60	60	—	23·6
Noon	60	60	25	60	40	10	60	60	60	30	60	58	60	52	60	60	55	40	50	60	60	60	28	60	0	60	60	32	60	60	—	25·0
13h	60	60	10	60	60	45	50	60	45	40	55	60	60	20	55	60	30	55	60	60	60	60	15	60	0	60	60	30	40	60	—	24·2
14	60	60	10	60	40	45	60	60	58	45	58	50	60	35	60	60	45	50	60	45	60	60	30	55	4	60	60	30	60	60	—	25·0
15	55	60	0	60	20	50	60	60	50	20	60	60	60	30	60	60	35	60	60	60	60	60	60	55	0	50	60	0	60	60	—	24·1
16	55	60	0	55	20	45	60	60	55	15	55	15	60	15	40	60	45	60	60	35	20	60	15	55	0	55	60	0	60	60	—	20·9
17	55	60	2	60	5	40	60	60	10	45	50	55	30	5	35	60	40	60	60	50	30	60	10	60	0	40	60	0	60	35	—	19·9
18	12	35	0	30	0	20	25	25	0	10	12	25	0	0	0	25	0	25	15	5	0	30	2	20	0	0	30	0	25	0	—	6·2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0.0

The Total Amount of Registered Sunshine was 332·1 hrs., and the Total Possible Sunshine was 348·0 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

APRIL 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	2	1	0	14	5	13	0	32	22	0	0	10	0	3	4	0	0	21	0	0	0	0	4	2	0	0	16	0	0	6	—	2·6
8	48	49	31	60	57	28	22	60	60	32	54	60	41	36	57	24	22	60	46	34	31	20	57	58	52	41	60	57	7	60	—	21·9
9	60	60	35	60	53	57	38	60	52	54	60	60	48	31	49	4	8	60	60	56	59	60	60	60	60	60	55	56	5	60	—	25·4
10	60	60	44	60	60	60	60	60	60	60	60	60	60	42	46	26	37	33	60	53	60	53	60	60	47	60	57	26	60	60	—	26·7
11	60	60	24	60	47	44	54	60	60	60	60	52	60	51	60	60	29	43	60	60	60	60	22	60	33	57	60	11	60	60	—	25·8
Noon	60	60	20	60	44	46	52	60	60	57	60	53	60	53	60	60	7	60	60	60	60	60	49	60	6	51	60	7	60	60	—	25·4
13h	60	60	32	60	60	38	59	60	60	34	60	58	60	52	57	60	41	60	60	60	60	60	13	60	2	56	60	3	60	60	—	25·4
14	60	60	26	60	56	41	41	60	60	51	60	60	60	24	60	60	38	60	60	60	60	60	3	60	0	60	60	4	60	00	—	24·7
15	60	60	14	52	37	17	60	60	60	42	60	60	60	10	60	60	57	60	60	60	60	60	0	60	0	60	56	0	60	60	—	23·7
16	60	60	3	60	39	60	60	60	60	34	60	60	60	20	56	60	47	60	60	60	60	60	1	39	0	60	60	23	60	60		24·4
17	54	60	1	60	50	52	46	60	60	23	60	60	52	31	21	60	41	60	60	51	52	60	0	60	0	43	60	0	60	60	—	22·5
18	17	27	0	16	9	0	17	28	24	7	54	7	13	17	5	18	0	16	22	18	3	15	4	13	0	4	14	0	18	11	—	5·9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0

The Total Amount of Registered Sunshine was 254·4 hrs. and the Total Possible Sunshine was 348.0 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

APRIL 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	23·4	0·7	23·7	0·4	23·8	0·4	24·5	1·5	23·6	0·7	24·0	0·6	23·9	0·6	24·1	1·2	Midnight
1h	23·5	0·6	24·1	0·5	23·7	0·8	24·5	1·5	23·8	0·7	24·1	0·6	23·9	0·8	24·0	1·3	1h
2	23·6	0·6	24·1	0·5	24·0	0·7	24·1	1·1	23·8	0·7	23·4	0·6	24·0	0·7	24·0	1·3	2
3	22·9	0·2	24·2	0·5	23·9	0·6	24·0	1·1	23·9	0·5	23·4	0·3	23·8	0·4	24·1	1·4	3
4	23·0	0·4	23·5	0·2	24·0	0·5	24·0	1·1	23·9	0·8	23·3	0·4	23·7	0·5	23·8	1·3	4
5	23·3	0·7	23·4	0·4	24·1	0.7	23·7	1·1	23·0	0·4	23·6	0·2	23·2	0·4	23·3	1·1	5
6	23·5	0·7	23·7	0·5	24·0	0·6	23·7	1·1	23·7	0·7	23·4	0·4	23·7	0·3	22·5	0·8	6
7	23·8	1·0	23·9	0·6	22·9	0·3	24·1	1·1	24·0	0·9	24·0	0·5	23·3	0·0	23·4	1·1	7
8	25·2	1·7	25·0	1·0	24·9	0·9	26·2	2·2	25·4	1·4	25·0	1·1	24·4	0·7	26·1	2·8	8
9	26·4	2·7	26·0	1·8	25·4	0·9	27·0	2·8	25·9	1·6	26·2	1·6	25·5	0·8	27·0	3·0	9
10	26·8	3·1	27·3	2·6	26·9	2·5	27·6	3·5	26·9	2·3	27·3	2·9	26·9	2·3	27·5	4·0	10
11	27·1	4·1	27·9	3·2	26·7	2·4	27·7	3·6	26·0	1·3	27·0	2·4	27·0	2·3	27·8	4·4	11
Noon	27·9	3·8	28·2	3·3	27·0	2·8	27·4	3·4	26·0	1·5	26·9	2·7	27·7	2·9	27·9	3·9	Noon
13h	28·0	4·0	28·1	3·1	27·0	2·4	27·9	3·6	26·9	2·5	27·3	2·8	27·7	2·8	27·9	4·0	13h
14	27·9	3·6	28·0	3·4	26·9	2·2	27·6	3·0	26·8	2·5	27·2	2·6	27·6	3·1	27·8	4·2	14
15	27·3	3·0	27·7	3·3	26·0	1·8	27·0	2·8	25·2	1·4	25·7	1·1	27·3	2·9	27·6	3·9	15
16	27·0	2·6	27·4	3·1	26·1	1·7	27·1	3·2	26·0	1·8	26·6	1·9	26·8	2·5	27·0	4·0	16
17	26·3	2·1	26·6	2·6	24·4	0·2	26·5	3·2	25·7	2·1	26·1	1·7	26·2	2·4	25·0	3·8	17
18	25·6	1·4	25·7	1·7	24·0	0·5	25·1	1·6	24·9	1·5	24·6	0·9	25·0	1·6	24·3	2·3	18
19	24·9	1·1	25·0	1·1	24·2	0·7	24·2	0·8	24·8	1·2	24·9	0·9	24·6	1·5	24·0	2·0	19
20	23·8	0·5	24·9	1·1	24·1	0·8	24·4	1·0	24·9	1·4	24·8	0.9	24·2	1·2	23·3	1·9	20
21	23·8	0·2	24·9	1·1	24·1	1·0	22·6	0·2	24·3	0·8	24·8	1·0	24·0	1·1	22·6	1·6	21
22	23·6	0·2	24·5	0·9	24.1	1·0	23·0	0·1	24·1	0·8	24·0	0·7	24·0	1·2	22·9	1·5	22
23	24·1	0·4	24·0	0·4	24·3	1·2	23·8	0·4	24·0	0·4	24·2	0·5	24·1	1·2	22·3	1·5	23

APRIL 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	22·0	1·3	22·8	0·7	23·0	0·8	22·8	1·6	22·5	1·9	22·1	1·3	24·0	1·2	24·6	1·2	Midnight
1h	21·8	1·2	22·7	0·4	23·0	0·8	23·1	1·9	22·4	1·9	22·2	1·3	24·0	1·6	24·5	1·4	1h
2	22·0	1·3	22·6	0·6	23·0	0·8	23·0	1·8	22·3	2·3	22·5	1·3	24·1	1·9	24·4	1·6	2
3	21·9	1·2	22·4	0·8	22·8	0·8	22·6	1·6	22·6	1·9	22·6	1·3	24·0	1·8	24·3	1·5	3
4	22·0	1·1	22·6	1·1	22·4	0·8	22·6	1·6	22·6	2·0	22·8	1·5	23·9	1·8	24·4	1·6	4
5	21·9	1·1	23·0	0·9	22·7	1·1	22·4	1·4	22·9	2·3	22·0	1·1	24·0	1·7	22·8	0·4	5
6	21·8	1·1	23·2	1·1	22·6	1·0	22·3	1·3	22·8	2·1	21·8	0·9	23·9	1·9	23·8	1·4	6
7	22·0	0·6	23·5	0·9	22·6	1·0	22·6	1·5	22·8	1·4	21·5	0·6	24·4	1·9	23·9	1·3	7
8	25·5	3·0	24·5	1·8	25·4	3·8	24·8	3·5	24·2	2·6	24·1	1·7	25·5	2·5	25·2	2·3	8
9	26·3	3·2	25·9	2·9	26·2	4·6	25·4	4·1	23·4	1·5	24·6	1·7	25·8	2·8	25·5	2·5	9
10	27·2	4·1	26·6	3·2	26·3	4·3	25·4	3·5	25·8	3·8	25·0	1·6	26·3	2·8	26·7	3·4	10
11	27·2	3·9	27·0	3·4	26·9	5·0	25·6	3·8	25·7	4·2	25·3	2·3	26·8	2·8	27·1	3·4	11
Noon	27·5	4·1	27·4	4·0	26·1	4·8	26·1	4·6	26·6	2·6	26·4	2·7	26·5	2·8	27·4	3·5	Noon
13h	27·6	3·9	26·6	2·9	26·6	4·3	26·2	4·7	26·7	2·5	26·0	2·4	26·8	2·4	27·2	3·3	13h
14	27·4	3·7	26·9	3·6	26·9	4·9	26·0	4·4	26·1	1·7	25·7	2·6	26·9	2·5	27·3	3·6	14
15	27·0	3·5	26·3	3·4	26·0	4·3	26·1	4·4	26·2	1·5	25·0	2·3	26·0	2·0	27·0	3·1	15
16	26·5	3·3	26·0	2·9	26·0	4·0	25·8	4·1	25·6	1·5	25·3	2·2	26·1	2·1	26·6	2·8	16
17	25·5	2·6	25·2	2·3	25·0	3·3	25·3	3·8	25·0	1·4	24·2	1·2	24·9	1·2	26·0	2·4	17
18	24·2	2·4	24·5	1·8	23·7	2·1	24·2	3·0	23·3	1·3	23·7	1·2	24·7	1·2	25·1	1·8	18
19	23·5	1·5	24·1	1·6	22·9	1·7	23·9	2·7	22·0	1·3	23·4	0·8	24·2	0·8	24·8	1·7	19
20	23·0	0·6	23·8	1·4	22·7	1·5	22·8	2·3	21·2	1·2	23·4	0·6	24·3	0·8	24·7	1·3	20
21	23·0	0·7	23·7	1·3	22·8	1·6	22·2	0·8	20·7	1·2	23·1	0·8	24·4	0·9	24·4	1·4	21
22	22·9	0·4	23·4	1·1	22·8	1·6	22·0	1·3	20·7	1·2	23.0	0·9	24·7	0·9	24·4	1·2	22
23	22·7	0·3	23·0	0·8	22·8	1·6	22·4	1·6	22·0	1·3	23·6	0·9	24·6	0·9	24·2	1·2	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

ARPIL 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	24·3	1·1	24·5	0·9	23·0	1·8	22·8	1·8	23·3	1·0	23·9	1·5	22·8	2·1	21·1	1·7	Midnight
1h	24·1	1·1	24·3	0·9	22·5	1·3	22·7	1·9	23·1	0·8	23·4	1·5	22·7	2·2	20·9	1·6	1h
2	24·3	1·3	24·2	0·8	22·9	1·8	23·0	1·9	23·2	0·9	23·1	1·3	22·9	2·1	20·4	1·4	2
3	24·0	1·2	24·0	0·9	22·0	1·2	23·5	2·0	23·0	0·9	23·0	0·9	22·8	2·2	20·3	1·4	3
4	24·0	1·1	23·6	0·7	21·6	1·0	23·4	1·3	22·8	0·8	22·8	0·8	22·3	1·8	20·6	1·1	4
5	24·1	1·2	23·7	0·8	21·9	0·9	23·4	1·4	22·9	0·8	22·7	0·8	22·3	1·8	20·2	1·0	5
6	24·0	1·1	23·7	0·8	22·0	1·2	23·6	1·3	22·9	0·9	22·8	1·0	21·8	1·4	20·0	0·8	6
7	24·3	1·2	24·0	1·1	23·0	1·8	23·8	1·3	22·9	0·6	22·8	1·0	22·2	1·7	20·1	1·1	7
8	24·2	0·5	26·0	2·0	25·4	3·6	25·3	2·0	24·7	2·0	24·8	2·0	24·7	3·3	23·2	2·2	8
9	24·2	0·6	26·6	2·9	26·2	3·6	26·3	2·5	25·3	1·9	25·9	2·4	25·3	3·3	24·7	3·0	9
10	25·6	1·3	25·9	2·4	27·2	4·4	26·4	3·0	25·8	2·4	26·4	3·3	26·1	4·3	25·5	3·9	10
11	26·0	1·4	26·6	2·7	27·8	5·0	27·0	3·5	27·0	3.5	26·2	3·5	25·3	3·3	25·9	4·7	11
Noon	25·6	1·1	27·2	3·4	27·2	4·4	26·8	3·8	27·4	3·9	26·9	4·5	26·7	4·8	26·2	4·5	Noon
13h	26·3	2·0	27·2	3·4	27·1	4·8	27·0	3·6	28·2	4·6	26·7	3·9	22·9	1·5	26·2	4·0	13h
14	26·6	1·8	27·1	3·9	27·0	4·6	26·9	3·5	27·5	3·9	26·9	4·1	23·7	2·1	26·2	4·9	14
15	26·6	2·1	27·0	3·9	26·8	4·3	26·4	3·0	27·5	4·3	26·7	3·8	23·5	2·0	26·0	4·0	15
16	26·7	2·2	26·7	3·7	26·2	3·8	26·4	3·3	27·4	4·4	26·1	3·6	23·8	2·5	25·2	3·6	16
17	25·9	1·8	25·5	3·0	25·4	3·1	25·6	2·8	26·7	3·7	25·4	3·3	23·7	2·8	24·6	3·3	17
18	24·9	1·1	24·3	1·9	24·4	2·6	25·0	2·1	26·1	3·3	24·0	2·4	22·8	2·4	23·3	2·3	18
19	24·7	1·0	23·7	1·5	24·1	2·0	24·7	1·7	25·7	3·0	23·3	1·9	22·5	2·1	22·6	1·9	19
20	24·8	1·0	23·3	1·3	23·9	1·9	24·7	2·0	25·7	2·9	23·2	1·8	22·6	2·2	22·6	2·1	20
21	24·8	1·0	23·0	1·2	23·8	1·5	24·0	1·3	24·9	2·2	23·0	2·0	22·1	1·7	22·5	2·1	21
22	24·8	1·0	23·0	1·2	23·5	1·6	23·5	1·3	24·4	1·6	23·0	2·1	21·9	1·2	22·6	2·0	22
23	24·7	0·9	23·0	1·4	22·9	1·4	23·3	1·0	24·2	1·7	22·8	2·1	21·4	0·8	22·8	2·3	23

APRIL 1949—*continued*

Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	22·2	1·8	22·6	1·2	22·2	1·2	21·0	1·0	23·1	0·7	21·7	0·7	—	—	23·1	1·1	Midnight
1h	22·8	1·2	22·3	0·9	22·0	1.0	20·9	1·3	23·0	0·6	22·2	0·5	—	—	23·1	1·2	1h
2	23·2	2·5	22·3	1·1	21·8	1·1	20·5	1·1	22·5	0·1	21·8	0·7	—	—	23·0	1·2	2
3	23·1	2·4	22·4	1·1	22·1	1·0	20·4	1·1	23·0	0·4	21·6	0·6	—	—	22·9	1·0	3
4	21·5	0·9	22·8	1·4	21·6	1·0	19·8	0·8	23·0	0·4	21·7	0·7	—	—	22·8	1·0	4
5	21·9	1·0	22·2	1·2	21·3	0·9	19·8	1·0	23·1	0·5	21·6	0·6	—	—	22·7	1·0	5
6	21·8	1·0	22·4	1·3	21·3	0·9	19·7	0·9	22·9	0·5	21·5	0·6	—	—	22·7	1·0	6
7	22·1	1·8	22·8	1·3	22·0	1·3	21·2	1·2	22·9	0·5	21·9	0·6	—	—	23·0	1·1	7
8	23·8	2·8	23·9	1·6	24·7	2·5	23·9	2·5	23·3	0·3	24·7	1·6	—	—	24·8	2·1	8
9	25·1	3·4	24·8	2·4	25·3	3·2	25·3	2·3	24·7	0·7	25·5	2·6	—	—	25·6	2·4	9
10	25·6	3·9	25·3	2·9	25·8	3·7	25·6	2·4	25·8	2·1	26·3	3·3	—	—	26·3	3·1	10
11	25·6	4·2	25·6	3·0	25·3	3·1	26·3	3·0	26·3	2·6	26·7	3·8	—	—	26·5	3·3	11
Noon	25·5	3·5	25·7	3·1	26·6	4·4	26·1	2·9	26·5	2·8	27·2	4·3	—	—	26·8	3·5	Noon
13h	25·4	3·5	25·7	3·4	26·5	4·5	26·2	3·2	26·9	3·0	27·1	4·0	—	—	26·8	3·4	13h
14	25·0	3·3	25·7	3·4	26·4	3·8	26·0	2·9	26·5	2·9	26·9	3·7	—	—	26·7	3·3	14
15	24·0	2·1	26·0	3·8	25·8	3·6	25·8	2·6	26·5	3·0	26·7	3·7	—	—	26·3	3·0	15
16	23·2	1·3	25·3	3·4	25·5	3·6	25·5	2·8	26·0	2·8	26·3	3·1	—	—	26·1	2·9	16
17	23·7	2·2	23·6	1·6	24·5	3·0	25·0	2·1	25·1	2·4	25·5	2·7	—	—	25·3	2·5	17
18	23·2	1·9	22·8	1·0	23·0	2·0	24·1	1·2	23·8	1·4	24·1	1·5	—	—	24·3	1·8	18
19	22·9	1·5	22·5	1·1	22·0	1·6	23·7	0·8	22·7	0·9	23·0	0·7	—	—	23·8	1·5	19
20	22·8	1·4	22·4	1·3	21·7	1·3	23·1	0·7	22·0	0·7	23·0	0·7	—	—	23·5	1·3	20
21	22·7	1·0	22·3	1·3	21·8	1·4	23·1	0·6	21·9	0·8	22·4	0·6	—	—	23·3	1·2	21
22	22·2	0·7	22·1	1·2	21·2	1·2	23·3	0·4	21·7	0·8	22·1	0·5	—	—	23·1	1·0	22
23	22·2	0·7	22·2	1·2	21·1	1·1	23·0	0·6	21·7	0·7	22·0	0·5	—	—	23·1	1·0	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during April, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

APRIL 1949

Day	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	08	3·2	10	2·3	09	3·3	08	3·9	08	3·1	09	2·8	10	3·9	10	2·9	10	2·9	10	4·2	10	4·5	09	4·4	10	3·3	10	2·9	09	5·3	09	4·2
1h	08	4·0	09	3·4	09	3·4	10	3·8	08	2·8	08	3·8	10	3·9	10	2·4	10	2·3	09	4·3	10	4·4	10	4·9	09	3·7	10	2·8	08	5·2	08	4·2
2	08	3·0	09	3·5	10	3·1	09	4·9	08	3·3	08	3·0	08	3·6	10	3·0	10	1·5	09	4·1	10	4·5	08	4·9	09	2·9	09	3·5	08	5·9	08	4·4
3	06	3·2	09	3·6	10	3·1	08	6·2	08	3·6	08	2·3	08	3·8	10	3·7	10	1·8	10	5·4	10	4·2	10	4·5	09	2·4	10	3·1	08	5·6	08	4·6
4	08	4·5	09	3·6	08	1·9	08	4·1	08	3·8	08	2·4	08	3·9	10	3·6	10	1·8	10	4·9	10	4·4	10	4·2	10	1·9	08	3·7	09	4·9	08	4·4
5	09	4·1	09	3·7	09	3·1	10	3·1	07	4·7	09	3·1	08	4·0	11	2·9	10	2·3	10	4·6	10	4·4	10	4·3	10	2·6	10	4·6	08	5·7	08	5·0
6	09	3·2	08	3·1	09	3·5	10	3·4	08	4·5	09	2·3	09	3·4	12	1·5	10	2·5	10	4·5	10	3·8	10	3·8	09	3·4	09	3·6	08	4·5	08	4·2
7	09	3·6	08	4·0	09	3·7	10	3·6	08	4·4	09	2·5	06	3·9	10	2·2	10	1·4	09	5·1	10	3·1	10	4·1	09	4·5	10	3·8	09	5·2	07	5·0
8	08	4·1	10	4·9	10	2·9	10	4·2	08	5·9	09	2·9	08	4·4	10	3·4	12	2·3	10	5·8	10	4·4	10	5·1	09	4·6	09	4·4	09	5·7	07	6·3
9	06	5·9	08	6·0	10	4·4	10	5·1	07	6·5	06	4·3	10	4·1	10	4·5	10	4·4	11	5·5	09	5·0	10	6·4	08	5·9	08	4·9	08	6·7	07	6·1
10	08	6·4	09	6·7	08	6·0	08	5·1	08	7·7	06	4·3	08	5·2	08	5·3	10	4·7	10	7·0	08	6·1	08	6·5	07	6·6	08	6·4	08	6·7	07	7·6
11	08	6·4	08	6·2	07	5·4	08	7·5	06	7·2	06	4·3	08	5·4	09	4·9	10	6·1	10	6·4	10	5·9	10	6·3	08	6·6	08	8·3	08	6·5	07	5·1
Noon	10	5·5	10	6·6	09	6·2	08	5·8	07	7·8	06	4·4	08	5·7	09	5·2	10	5·3	10	6·5	08	6·4	10	6·8	09	6·4	08	8·0	08	6·7	06	5·7
13h	08	6·8	08	6·6	08	5·0	08	5·4	08	8·5	05	4·7	09	5·6	08	5·4	11	5·9	09	6·2	08	6·3	10	7·0	08	6·6	08	7·9	08	6·5	08	6·3
14	10	6·6	08	6·2	08	5·6	08	5·6	07	7·2	07	4·4	08	6·1	08	5·9	10	6·2	08	6·6	10	6·5	08	6·4	08	6·2	08	8·1	09	6·6	08	6·1
15	08	5·4	08	6·2	10	5·0	06	5·1	07	6·8	07	4·1	10	5·6	10	5·0	09	5·4	08	6·0	09	6·1	10	6·9	08	5·8	08	6·7	08	5·7	08	6·0
16	10	6·0	08	5·5	08	4·9	08	5·4	08	6·6	08	4·1	10	5·1	10	5·5	10	6·1	10	6·2	10	6·8	10	6·3	09	5·3	08	7·0	09	5·8	08	6·4
17	08	5·0	09	5·7	08	4·4	08	5·0	08	6·0	08	4·8	10	4·8	10	4·9	10	4·8	10	5·5	10	5·2	08	5·9	09	4·1	08	6·5	08	4·9	08	5·7
18	08	4·4	10	4·1	09	4·0	08	3·4	08	4·2	08	3·3	10	3·9	10	4·1	11	4·2	09	5·2	10	4·2	10	4·8	09	2·4	08	6·0	08	4·5	08	4·3
19	08	4·4	10	3·8	10	3·4	08	3·8	08	4·7	08	3·0	09	4·0	10	3·0	11	3·2	10	5·0	10	3·8	10	4·5	09	2·0	08	5·6	09	4·0	08	3·6
20	09	3·9	09	3·8	10	2·8	10	3·5	08	4·5	08	3·4	10	3·1	11	2·4	09	4·4	10	5·1	10	3·8	10	4·1	10	2·0	08	4·7	09	3.9	08	3·6
21	08	2·6	08	4·2	10	3·1	06	3·2	08	4·0	08	3·3	10	3·0	10	2·0	10	4·1	10	5·4	10	4·7	08	4·0	09	2·0	07	5·3	08	4·1	07	3·8
22	08	2·8	08	4·1	09	4·0	08	2·2	08	3·0	08	4·1	10	2·7	08	1·7	10	4·3	10	5·0	10	4·2	08	6·3	09	1·8	08	4·7	08	4·4	08	3·8
23	09	3·8	09	3·5	08	5·0	08	3·5	08	2·8	08	3·4	10	2·3	11	2·0	09	4·1	10	4·8	09	4·2	10	4·4	09	2·9	08	4·3	09	3·8	08	3·1

APRIL 1949—*continued*

Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	07	2·9	09	3·9	10	2·9	10	3·4	09	3·3	09	2·2	09	3·8	10	4·4	08	3·9	10	2·8	09	3·4	08	1·9	08	2·5	08	1·9	—	—	3·4
1h	08	3·8	08	4·0	10	2·5	09	3·3	09	2·9	09	2·0	11	1·8	09	4·1	09	3·9	08	4·5	10	2·4	08	1·6	08	3·0	08	2·1	—	—	3·4
2	08	3·5	10	3·4	10	2·9	10	3·[illegible]	09	2·7	09	2·3	10	2·9	10	2·5	08	4·7	08	3·8	10	2·8	08	1·6	09	2·7	08	1·8	—	—	3·3
3	08	3·0	09	3·1	10	1·5	10	3·6	09	2·6	09	2·3	10	2·9	10	2·2	10	5·1	08	3·3	10	2·4	08	1·3	09	2·7	08	1·8	—	—	3·3
4	09	3·2	10	2·7	10	1·9	10	4·3	09	2·3	09	2·3	10	2·4	10	2·2	07	4·6	08	3·7	10	2·6	08	0·7	09	2·3	08	2·2	—	—	3·2
5	08	4·1	09	3·1	11	1·7	10	4·4	09	2·2	10	3·0	10	1·3	10	1·8	08	4·6	08	4·0	10	2·3	08	1·1	09	2·4	08	2·1	—	—	3·3
6	10	4·3	10	3·1	11	3·0	10	4·6	10	2·1	10	2·8	10	1·3	10	1·5	09	4·2	08	3·8	10	2·7	08	1·2	08	2·2	08	2·1	—	—	3·1
7	09	4·3	09	3·5	10	3·3	10	4·4	09	2·9	10	2·8	12	1·3	10	1·6	08	4·3	08	4·5	10	2·8	10	1·8	08	1·4	08	2·9	—	—	3·4
8	10	5·0	10	3·6	09	4·3	10	4·6	10	4·3	10	2·6	08	3·2	10	2·5	08	5·8	08	5·2	10	3·0	10	1·9	08	2·6	08	1·8	—	—	4·1
9	07	3·7	09	4·8	10	4·6	08	5·9	08	4·3	08	6·4	08	5·2	10	3·9	08	7·0	08	6·1	08	3·1	10	3·3	04	3·3	07	2·1	—	—	5·0
10	08	4·5	09	4·7	10	6·4	08	6·6	08	5·2	08	6·9	08	6·0	10	4·6	08	7·0	08	6·9	06	3·5	08	3·2	06	3·7	06	3·5	—	—	5·7
11	08	5·3	09	4·8	10	6·5	08	6·3	08	5·6	08	6·7	08	6·2	09	5·1	08	7·5	07	6·5	07	4·3	06	2·9	06	4·1	06	3·1	—	—	5·8
Noon	06	4·8	10	6·3	10	6·7	08	7·3	08	5·5	08	7·1	08	5·3	10	5·5	08	6·3	08	6·3	06	3·2	06	3·1	06	3·9	04	2·7	—	—	5·8
13h	08	6·4	09	6·4	11	7·8	08	7·0	09	5·1	08	6·5	10	4·0	10	6·0	08	6·1	08	6·2	06	4·3	08	3·1	06	3·6	04	3·0	—	—	5·9
14	08	5·6	08	6·6	11	7·4	08	6·7	08	5·0	08	5·6	09	5·5	10	5·6	08	6·0	08	6·8	07	4·7	06	3·0	06	3·8	06	3·1	—	—	5·9
15	08	5·3	10	5·8	11	7·0	08	6·7	10	4·5	09	5·3	10	4·7	09	6·0	08	5·4	08	6·0	07	4·8	07	2·7	06	3·6	06	3·1	—	—	5·4
16	08	4·8	10	4·9	10	5·8	08	6·0	09	5·1	10	5·7	09	4·4	10	5·0	10	4·1	08	6·2	08	4·6	08	3·6	06	3·8	06	3·1	—	—	5·3
17	08	4·6	vc10	6·0	10	6·3	08	6·1	10	4·1	10	4·5	10	4·1	10	4·3	10	4·7	07	4·4	08	4·4	08	2·4	08	2·9	06	2·6	—	—	4·8
18	09	3·8	10	4·4	10	4·7	09	4·4	10	2·9	10	3·0	10	4·7	10	3·0	09	3·4	08	4·0	08	2·8	08	1·9	08	2·4	07	2·2	—	—	3·8
19	08	4·1	10	3·0	10	4·2	09	4·0	10	2·2	10	3·1	10	4·6	10	2·7	09	3·5	09	4·3	08	1·9	09	1·8	08	1·8	06	2·0	—	—	3·5
20	10	4·0	10	2·9	10	3·9	08	4·2	10	2·5	10	3·2	10	4·5	10	3·3	09	2·8	09	4·4	08	2·0	10	2·5	08	2·0	07	1·5	—	—	3·4
21	10	3·5	10	2·5	10	3·6	08	3·4	10	2·6	09	3·0	10	2·9	10	3·1	08	4·4	10	3·1	08	2·2	10	2·0	08	1·6	07	2·0	—	—	3·3
22	10	3·6	10	3·0	10	3·8	09	4·1	10	2·6	10	2·6	10	2·6	09	3·7	10	3·6	10	3·0	08	1·8	09	3·0	08	1·8	07	1·8	—	—	3·3
23	08	3·5	10	3·2	09	2·6	09	3·3	10	2·0	09	3·2	10	3·5	09	4·5	09	3·8	10	4·1	08	2·0	08	3·0	08	2·3	07	1·3	—	—	3·3

Table XIII.—Wind Frequency (Number of Observations), April, 1949

Hour	Force (0—12)			Directions															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	2	28	..	...	...	1	16	13	...	...	...	...	...	...	...	...	...	...
9	...	12	18	..	...	1	2	17	9	1	...	...	...	..	...	...	...	...	...
15	...	15	15	...	..	...	3	19	7	1	...	..	...	...	...	..	...	...	...
21	...	...	30	...	...	...	1	15	14		...	...	...	..	...	...	...	...	...
Total ...	...	...	...	...	...	1	7	67	43	2	...	...	...	...	...	...	...	...	...

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, April, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	0·1	.	...	...	0·8	...	...	...	0·5	...	...	...	...	0·3	...	...	...	...	..		...	...	...	...	1·1	0·2	...	3·0	...	...
2	...	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...		...	...	4·5	...	...
3	3·2	0·2	...	...	0·1	...	1·2	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	0·1	...	0·3	...	...
4	0·2	1·5	..	...	..	0·2	0·8	...	...	0·1	...	...	...	0·1	...	...	...	...	.	...	...	...	...	...	3·3	...	0·1	...	0·2	...	...
5	...	1·1	0·4	..	1·4		1·2	...	...	...	...	...	...	...	...	5·4	...	.	...	...	0·2	...	...	...	...	..	...	...	...	...	...
6	...	14·3	0·5	...	0·8	1·1	1·5	...	...	...	...	...	...	0·6	...	...	...	..	...	...	...	...	..	0·2	0·2	..	...	...	0·4	...	...
7	...	0·1	6·1	...	...	...	2·8	..	...	0·1	...	...	...	5·1	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	0·5	...	...
8	...	...	...	..	...	...	...	...	...	...	..	...	...	0·1	...	...	2·1	...	...	...	...	...	...	...	...	0·4	..	...	3·6	...	...
9	..	..	2·6	...	0·1	..	...	...	...	0·5	...		...	1·4	...	...	1·3	...	...	...	...	...	...	...	...	...	...	...	2·8	..	...
10	...	...	...	...	0·1	...	...	...	...	...	...	...	...	0·4	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	..	...	...	...	1·1	...	...	..	...	...	...		...	...	...	...	4·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	0·8	0·4	...	...	...	...		...	...	...	...	...	3·0	...	...	...	...	...	...	...	..	..	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	..	...	...	...	...
14	...	...	1·4	...	...	...	...	...		...	...	...	...	0·3	...	.	2·1	...	..	...	...	...	...	..	...	...	...	...	...	...	...
15	...	...	0·4	0·3	1·2	0·6	...	...	...		...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	1·4	...	...	0·2	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...
17	...	...	4·2	...	...	...	...	...	...	..	..	...	...	...	0·2	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	1·0	...	...	0·2	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	1·1	...	..	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
20	0·2	...	0·3		...	...	...	...	0·2	...	...		...	0·8	0·1	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...
21	3·8	...	0·2	3·7	0·1	...	...	...	0·1	...	...	...	0·2	...	0·1	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...
22	2·2	0·3	...	...	..	0·3	...	...	1·2	...	...	...	0·1	...	...	...	...	...	...	0·1	...	...	0·3	...	...	...	...	0·5	...	...	...
23	...	...	...	0·4	1·6	0·1	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	...	...
24	1·1	3·1	...	0·1	0·2	...	...	...	1·4	.	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Table XIV.*b*—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for April, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	0·8	1·4	0·8	...	...	...	...	...	...	6·0	...	...	...		0·9	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
2	0·4	...	1·2	...	0·7	2·8	1·9	...	...	4·7	...	...	...	0·6	...	...	0·1	...	...	...	...	0·7	...	...	...	0·4	...	...	0·2	...	...
3	0·3	1·0	1·5	..	1·0	0·3	...	...	...	3·5	...	...	...	0·6	0·2	0·5	0·1	...	...	...	...	0·1	...	...	...	0·3	...	...	1·1	..	...
4	...	0·8	2·5	...	0·2	...	0·4	..	0·6	1·3	0·2	...	...	0·8	0·1	...	...	...	...	.	...	...	...	...	...	...	...	...	0·2	0·1	...
5	0·4	2·4	...	...	3·8	0·5	2·4	..	...	0·6	...	...	...	3·7	...	1·6	...	..	...	0·3	0·2	0·2	...		...	...	...	...	...		...
6	0·1	3·5	0·2	...	...	0·3	0·8	...	...	0·9	0·2	...	...	1·0	...	0·1	0·9	...	...	...	...	...	...	...	2·2	0·6	...	...	7·0	...	...
7	...	2·5	7·8	...	0·4	...	0·3	...	...	0·7	0·1	...	4·7	4·3	...	0·3	...	...	...	0·4	...	0·2	...	...	3·8		...	...	2·9		...
8	...	...	0·8	...	...	...	0·8	...	...	0·3	...	...	...	0·2	...	..	...	..	...	0·4	...	...	...	...	...	...	.	...	...	...	...
9	...	...	2·2	...	0·2	...	...	...	...	...	...	0·3	...	0·1	...	...	1·0	..	...	...	...	0·7	...	...	..	...		..	...	...	...
10	0·2	...	1·9	...	0·8	...	...	..	...	...	...	...	...	0·6	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...
11	...	...	2·5	...	0·8	1·6	...	...	...	0·7	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	1·6	...	...	..	..	...	...
Noon	...	...	3·5	...	2·0	3·5	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	3·0	...	0·4	...	...	...	...	...	...
13h	...	.	2·0	...	0·7	0·2	0·2	...	...	...	...	...	...	1·0	0·2	...	0·2	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...
14	...	...	2·5	0·2	...	...	...	...	...	...	...	...	...	0·5	0·4	...	0·1	...	...	...	...	...	2·1	...	...	...	...	...	...	...	...
15	...	...	10·6	0·4	2·6	...	...	...	...	...	...	...	..	0·4	...	...	0·4	...	...	...	...	...	...	...	1·0	...	...	.	...	...	...
16	.		2·6	0·1	...	...	...	...	0·2	...	...	0·3	...	1·4	0·6	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	..	...
17		...	0·3	...	1·5		...	...	0·3	...	...	...	...	1·5	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...		...	.
18		...	0·9	...	...	...	...	...	0·7	...	...	...	...	1·5	...	...	...	..	...	...	...	...	...	...	..	...		...	...	...	...
19	...	...	0·3	...	...	0·4	...	...	0·4	...	...	0·5	...	1·1	1·8	...	...	...	...	0·5	...	...	0·3	...	...	...	...	...	...	...	...
20	...	...	0·2	...	...	0·3	...	...	1·1	...	...	...	...	...	0·3	...	0·3	...	...	..	...	...	...	...	0·4		..	...	...	...	..
21	3·7	0·2	...	...	...	0·2	...	...	5·0	..	...	0·4	...	0·8	0·5	...	0·1	...	...	...	...		...	...	0·5	...	...	...	...	...	..
22	0·8	0·4	...	...	...		...	...	2·5	...	...	0·9	0·3	...	0·2	..	0·4	...	1·8	0·1	...	...	...	...	0·2	...	..	...	..	...	...
23	6·2	..	...	...	0·2	1·6	...	..	2·1	...	...	...	0·3	1·4	0·3	0·2	0·1	...	...	0·1	...	...	...	...	0·3	...	...	...	.	...	...
24	0·7	0·1	...	..	0·3	0·2	...	...	0·7	...	...	...	0·7	0·9	...	1·5	...	...	...	0·1	...	...	...	...	0·6	..	...	...	0·3		...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, April, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Falls in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	4·25	108·1	—	18
B. River ...	Pierre Fonds ...	—	3·16	80·3	6·08	10
	La Ferme	350	0·97	24·6	4·75	11
	Richelieu	—	1·41	35·8	—	13
	Mon Repos (*Palmyre*)	—	0·72	18·3	—	5
	Médine	—	0·66	16·8	—	8
	La Mecque	—	0·41	10·4	—	6
	Albion	—	1·03	26·2	—	6
	Beaux Songes	—	1·88	47·8	—	7
	Clarens	—	1·07	27·2	—	6
	Mare Longue ...	—	11·96	303·8	—	26
	Mon Désert	—	1·17	29·7	—	6
P/mousses	Botanical Gardens ...	325	4·55	115·5	6·18	21
	Solitude ...	175	5·38	136·7	4·11	13
	La Nicolière	—	9·83	249·7	12·79	22
	The Observatory ...	179	5·23	132·7	5·12	23
	California ...	—	11·61	294·9	—	—
Rivière du Rempart	Saint Antoine ...	50	3·66	93·0	5·47	—
	Bel Mont	50	3·72	94·5	6·01	—
	Poudre d'Or	20	3·76	95·5	5·88	—
	Mon Loisir	300	5·00	127·0	6·79	21
	Forbach	—	5·22	132·6	5·20	13
	Couroupa	—	5·49	139·4	—	14
	Labourdonnais	290	4·94	125·5	6·21	12
	Beau Séjour	300	15·52	394·2	7·34	23
	Mont Piton	680	5·31	134·9	7·37	16
	Mon Choix	700	5·68	144·3	6·74	13
	Ravensworth	—	7·26	184·4	—	11
	Antoinette	640	9·22	234·2	7·40	18
	Mon Songe	620	7·82	198·6	7·72	14
Moka ...	Bonne Veine ...	400	11·83	300·5	15·09	19
	Le Réduit	1,000	4·60	116·7	4·85	23
	Alma	1,460	12·66	321·6	12·95	23
	Mon Désert	1,450	6·67	169·4	—	14
	Hermitage	—	8·61	218·7	13·25	19
	Béga	—	3·38	85·9	—	16
	Mon Rêve	—	4·84	122.9	—	18
	Mont Pévril	—	5·56	141·2	—	18
	Côte D'Or	—	8·30	210·8	—	16
	Minissy	1,150	5·44	138·2	7·55	18
Plaines Wilhems	Curepipe Gardens ...	1,840	21·72	551·8	11·76	25
	Aerological Station ..	1,393	8·70	221·0	10·30	25
	Mare-aux-Vacoas (G. End.)	1,850	17·34	440·4	16·19	27
	Mare-aux-Vacoas (Arnaud)	1,830	17·42	442·5	14·93	30
	La Marie Filter Beds ...	1,700	13·04	331·2	9·62	24
	Réunion	1,420	12·87	326·9	7·85	24
	Phœnix	—	6·20	157·5	—	11
	Quatre Bornes ...	—	2·76	70·1	—	11
	Bagatelle	1,250	8·79	233·3	7·33	12
	Pétrin	—	19·88	505·0	—	28
	Henrietta	—	6·97	177·0	—	22
	Tamarin-Falls ...	—	8·12	206·2	—	22
	Tamarin	—	1·65	41·9	—	10
	Moon	—	5·33	135·4	—	22
	La Pipe Midlands Dam ...	—	24·21	614·9	—	26
	Highlands	1,300	11·66	296·2	8·64	24
	Trianon	950	4·48	113·8	5·70	13
	Bassin	—	4·54	115·3	7·30	15
	Ebène ...	630	3·90	99·1	—	19
Flacq ...	Mare Sèche ...	20	—	—	5·95	—
	Australia	—	8·68	220·5	—	—
	Union Regnard S. E. ...	600	9·33	237·0	8·77	23
	Constance La Gaiete ...	100	5·73	145·5	7·69	13
	Belle Vue Allendy ...	900	7·25	184·2	9·30	17
	Sans Souci .	20	14·09	357·9	15·21	27
	Beau Champ G.R.S.E. .	400	4·16	105·7	7·53	18
	Rich Fund	—	6·00	152·4	—	20
	Olivia	—	5·66	143·8	10·96	18
	Trois Ilots	—	4·92	125·0	—	21
	Belle Rive	400	6·97	177·0	14·19	17
G. Port	Rose Belle	850	11·17	283·7	15·40	28
	Union Park	—	12·21	310·1	—	27
	New Grove ...	650	7·67	194·8	15·12	16
	Deux Bras	—	11·07	281·2	—	22
	Mon Trésor ...	—	7·06	179·3	—	16
	Astroea	—	9·86	250·4	—	25
	Union Vale	—	5·08	129·0	—	17
	Mon Désert Carié ...	75	5·19	131·8	6·77	17
	Beau Vallon ...	—	3·91	99·3	—	11
	Ferney	20	6·25	158·8	9·90	17
	Sauve Terre ...	—	6·71	170·4	—	17
	Ste. Hélène ..	—	4·39	111·5	—	12
Savanne	Tivoli	1,300	13·10	239·0	15·08	24
	La Flora	1,050	12·77	324·4	16·37	22
	Riche Bois ...	650	8·89	225·8	12·15	24
	Britannia ...	700	11·36	288·5	11·61	23
	Terracine	—	5·59	142·0	—	21
	Savannah	200	6·36	161·5	8·19	20
	Saint Aubin ...	300	4·39	111·5	9·00	19
	Saint Avold ...	900	9·41	239·0	12·84	23
	Colmar	400	12·24	310·9	10·42	23
	Union Sugar Estate .	—	5·82	147·8	8·55	17
	Fontenelle	320	6·90	175·3	9·29	17
	Choisy	—	—	—	6·62	—
	Combo	—	10·89	276·6	—	23
	Beau Bois	—	10·73	272·5	—	26
	Bel Air	—	7·25	184·2	—	—
	Saint Félix	—	7·25	184·2	8·28	—
	Bel Ombre ..	40	4·50	114·3	6·61	—
	Beau Champ B. du Cap...	—	5·21	132·3	7·65	—
	Frédérica	—	6·10	154.9	7·04	—
	Sainte Marie ...	—	5·40	137·2	—	—
	Beau Climat ..	—	15·52	394·2	—	23
St. Brandon	Met. Station ...	—	9·37	238·0	—	22
Agalega	Met. Station	—	6·17	156·7	—	23
Rodrigues	Oyster Bay	—	6·98	177·3	—	22
Chagos Archipelago	Salomon Islands Boddam	—	10·84	275·3	—	15

Table XVI.—Observations of Pilot Balloons, month of April, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.43	101	21	097	24	093	24	083	16	...	...	...	...	...		...	...	...	...	...	...	...	...
2	10.35	114	12	105	21	102	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08.05	099	19	091	31	106	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	08.22	110	20	102	23	097	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	07.55	101	28	090	37	091	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	08.52	095	15	088	16	087	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	09·17	103	17	092	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	07.42	126	16	105	16	136	11	156	09	206	05	161	06	149	07	...	...	...	...	...	...	...	...
9	08.26	131	19	131	20	134	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	08.14	126	23	116	22	119	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	08.16	127	22	126	22	120	23	170	04	140	06	...	...	...	...	...	...	...	...	...	...	...	...
12	07.45	121	28	119	24	137	23	120	10	191	09	...	...	...	...	...	...	...	...	...	...	...	...
13	08.32	107	23	106	25	114	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	08.50	111	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	08.00	112	29	106	33	067	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	08.31	096	29	094	25	085	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	10.50	099	21	092	17	083	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	08.40	120	17	107	23	109	31	102	21	...	...	...	...	...		...	...	...	...	...	...	...	...
19	08.03	124	18	126	28	120	18	119	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	08.50	110	22	102	26	092	20	092	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08.56	102	21	107	22	103	19	115	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	07.56	113	19	103	24	095	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.41	110	17	110	24	117	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.16	110	16	104	19	102	22	122	27	089	26	080	12	077	14	...	...	...	...	...	...	...	...
25	08.45	102	22	099	20	091	18	101	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	08.04	094	21	091	24	084	18	079	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	08.30	103	14	107	17	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08.26	104	10	066	16	060	17	068	12	074	09	...	...	...	...	...	...	...	...	...	...	...	...
29	08·28	044	13	039	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	08·42	091	09	071	12	103	06	104	07	128	07	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

MAY, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, APRIL 1952. 2658/4/52-208

Table I—Results of Magnetical Observations made during the month of May, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination (Unit 1 γ)	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
MAY	′			′		
1	15°27·8	·22323	·30317	13·0	20	39
2	27·9	317	323	9·6	37	24
3	29·3	328	322	8·5	30	27
4	30·1	295	321	8.4	98	29
5	28 5	307	320	8 0	27	29
6	29·2	312	319	9·2	44	20
7	29·0	315	326	7·6	35	16
8	29·4	317	325	6·2	31	15
9	29·5	327	324	8·0	28	19
10	29·4	324	320	6.2	30	29
11	—	326	320	—	48	29
12	—	—	328	—	—	47
13	30·1	—	349	15·8	—	36
14	27·2	—	339	7·6	—	28
15	29·0	290	334	7·2	24	29
16	—	—	334	—	—	20
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order
29						
30						
31	—	—	—	—	—	—
Mean	15°29′·11	·22315	·30326	8′·87	37·7	28·1

Magnetic Disturbances—May, 19 9

2d. Slightly disturbed.

3d. Slightly disturbed.

4d. Moderately disturbed.

6d. Slightly disturbed.

9d. Moderately disturbed.

11d. Slightly disturbed.

12d. Very disturbed period starting at $10^h\ 20^m$, but could not be registered owing to defect to gas lamp.

15d. Slightly disturbed.

No Register. Gas plant under repairs from the 16th till the end of the month.

T=·37652: Mean Dip=53°39′·23: X=·21506: Y=−·059578: Z=·30326

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of May, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
3 9 07	15 32·63	3 9 42	·22335	3 9 18	53 38·63	·30329
10 9 39	15 33·13	10 9 18	·22321	10 9 48	53 39·13	·30327
17 9 25	15 31·87	17 9 55	·22308	17 9 34	53 39·75	·30330
25 9 47	15 30·13	20 9 32	·22352	25 9 56	53 38·25	·30326
31 9 24	15 32·25	25 9 26	·22343	31 9 34	53 39·50	·30324
		31 9 56	·22367			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

MAY 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	27·7	27·7	28·0	29·2	29·4	30·4	30·0	30·0	30·0	28·4	—		36·0	30·0	29·8	29·4	Midnight
1h	27·9	27·8	29·4	29·6	29·2	30·3	30·1	30·0	30·2	28·6	—	—	32·4	30·0	29·6	29·2	1h
2	28·3	28·0	29·6	30·2	28·4	27·8	30·3	29·9	30·0	29·4	—	—	32·0	29·8	28·6	29·0	2
3	28·4	28·0	30·0	29·4	28·6	29·0	30·2	29·4	30·2	30·4	—	—	26·4	29·4	29·8	29·6	3
4	28·4	28·2	30·0	30·8	28·2	29·2	30·0	28·2	30·1	30·2	—	—	28·2	28·6	30·0	29·4	4
5	28·4	28·4	29·9	31·0	28·0	27·8	29·4	28·3	30·0	30·2	—	—	25·0	28·0	29·8	29·4	5
6	28·4	29·2	29·6	30·4	29·0	26·0	29·6	29·0	29·4	30·0	—	—	20·2	27·8	29·4	29·6	6
7	28·2	29·0	28·0	30·2	28·4	28·0	29·2	28·6	28·0	30·4	—	—	25·6	27·6	27·6	29·2	7
8	30·0	29·6	29·8	30·0	28·2	28·0	29·0	29·2	29·0	32·0	—	—	30·0	29·6	28·6	30·0	8
9	33·0	31·8	32·2	32·0	30·4	32·0	31·2	31·6	32·0	33·6	—	—	31·6	31·8	30·4	33·0	9
10	34·8	32·2	33·8	34·4	32·0	33·6	32·0	33·0	34·0	32·4	—	—	33·8	32·2	31·6	32·8	10
11	33·0	31·0	32·4	33·6	30·0	32·4	31·0	32·4	33·2	31·2	—	—	34·6	31·0	30·8	31·2	11
Noon	30·0	29·2	30·2	33·0	27·0	30·8	29·4	30·0	30·0	29·4	—	29·0	34·0	30·0	30·2	30·4	Noon
13h	27·0	27·4	29·8	32·8	25·4	29·8	27·8	29·0	28·0	28·0	—	29·6	33·6	28·2	28·0	29·6	13h
14	23·6	24·8	26·4	30·4	24·8	27·6	26·4	28·0	27·4	27·6	—	27·6	32·0	26·4	27·0	28·0	14
15	21·8	22·6	25·4	28·0	24·2	25·4	25·4	27·4	26·8	27·4	—	26·0	30·0	24·6	25·0	27·4	15
16	22·0	23·4	25·3	26·0	24·0	24·4	24·4	26·8	26·0	27·4	—	22·0	29·6	25·8	24·4	26·4	16
17	25·4	25·0	27·6	27·0	27·6	27·0	26·0	27·6	28·0	27·8	—	22·4	29·4	27·6	27·0	28·8	17
18	26·4	26·6	28·3	28·0	29·6	29·6	27·8	28·2	29·4	28·0	—	27·0	29·6	29·8	28·8	30·0	18
19	26·6	26·4	28·8	29·3	30·0	30·0	28·6	29·2	30·0	28·2	—	34·0	30·2	30·4	29·4	—	19
20	27·0	28·0	29·0	29·6	30·0	30·0	29·0	30·0	29·0	28·4	—	40·0	30·4	30·6	29·6	—	20
21	27·0	28·0	29·3	29·4	30·4	30·2	29·6	30·0	29·0	28·6	—	40·0	30·6	30·4	29·8	—	21
22	27·2	28·2	29·4	29·4	30·2	30·4	30·0	30·0	29·0	29·0	—	35·6	30·2	30·4	30·0	—	22
23	27·6	28·1	29·4	29·6	30·2	30·2	30·2	30·0	29·2	29·0	—	37·8	30·0	30·4	29·8	—	23

MAY 1949—*continued*

Day / Hour	17d	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	29·7	Midnight
1h																29·6	1
2																29·4	2
3																29·2	3
4																29·2	4
5																28·8	5
6																28·3	6
7																28·2	7
8																29·5	8
9																31·8	9
10																33·0	10
11																32·1	11
Noon																30·3	Noon
13h																28·8	13h
14																27·1	14
15																25·8	15
16																25·3	16
17																27·3	17
18																28·5	18
19																29·0	19
20																29·3	20
21																29·5	21
22																29·5	22
23																29·5	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

MAY 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	316	313	312	329	297	294	299	311	315	326	320	319	—	—	283	292	Midnight
1h	319	309	311	330	298	295	300	317	319	323	318	322	—	—	285	294	1h
2	320	312	318	305	301	309	303	312	330	324	327	330	—	—	287	296	2
3	322	320	320	350	302	329	308	314	331	322	324	342	—	—	288	297	3
4	323	326	321	320	308	318	313	330	332	325	327	326		—	289	298	4
5	327	328	323	300	310	321	317	322	340	320	324	329	—	—	290	299	5
6	329	332	329	300	311	322	319	321	338	323	329	332	—	—	292	301	6
7	332	337	330	297	312	327	320	324	337	330	360	337	—	—	293	310	7
8	330	336	336	303	312	328	327	327	343	327	347	343	—	—	302	308	8
9	325	329	338	300	314	324	331	321	340	317	338	340	—	—	304	300	9
10	320	324	333	290	316	324	334	329	330	319	330	334	—	277	304	292	10
11	319	321	340	292	319	320	330	330	327	330	332	370	—	276	302	293	11
Noon	320	320	341	296	324	321	321	329	320	340	348	380	—	275	300	300	Noon
13h	316	313	335	298	322	319	316	324	317	339	330	360	—	276	290	288	13h
14	314	309	330	289	317	317	309	310	310	338	326	320	—	277	288	280	14
15	319	310	320	270	310	310	305	303	324	334	312	310	—	279	282	—	15
16	319	316	325	252	302	309	309	299	327	329	319	280	—	264	283	—	16
17	321	315	329	273	298	308	310	300	321	321	317	280	—	260	280	—	17
18	324	313	330	280	302	300	311	310	326	318	318	—	—	258	282	—	18
19	330	309	329	272	301	285	314	313	324	311	312	—	—	262	283	—	19
20	334	300	324	274	298	290	313	315	331	310	314	—	—	273	285	—	20
21	327	304	322	289	305	296	308	312	320	313	317	—	—	278	287	—	21
22	322	309	334	290	289	311	317	313	321	316	316	—	—	276	289	—	22
23	314	310	334	292	292	304	310	314	323	319	317	—	—	277	290	—	23

MAY 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	310	Midnight
1h																310	1h
2																312	2
3																319	3
4																319	4
5																319	5
6																320	6
7																325	7
8																327	8
9																323	9
10																321	10
11																322	11
Noon																323	Noon
13h																318	13h
14																313	14
15																308	15
16																307	16
17																308	17
18																310	18
19																307	19
20																307	23
21																308	22
22																311	21
23																310	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

MAY 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	323	324	328	324	328	318	329	326	327	323	322	323	370	348	340	337	Midnight
1h	322	325	327	325	327	317	329	326	326	323	322	322	357	346	340	336	1h
2	321	324	326	323	327	313	328	325	327	323	323	322	358	343	337	335	2
3	320	323	324	322	327	313	328	327	325	323	322	322	350	342	337	334	3
4	320	322	323	325	327	314	327	325	324	323	322	322	348	341	337	333	4
5	320	321	323	326	326	311	327	326	325	324	323	323	347	341	337	333	5
6	320	321	323	327	326	312	327	326	324	325	324	324	345	341	336	333	6
7	320	320	322	326	325	312	325	325	328	325	322	325	350	340	335	333	7
8	324	325	328	327	328	317	330	329	330	330	328	328	360	347	340	337	8
9	331	333	331	330	328	330	330	332	333	335	331	323	367	351	343	342	9
10	332	334	333	329	324	329	333	330	334	328	327	310	358	348	342	340	10
11	322	330	330	321	314	323	333	323	327	313	318	300	352	342	338	336	11
Noon	312	320	323	317	305	318	330	320	320	307	311	293	344	331	333	330	Noon
13h	304	319	320	317	299	317	324	320	321	306	308	295	339	324	327	330	13h
14	297	317	309	310	300	313	322	320	320	306	305	295	338	323	325	330	14
15	293	310	306	301	300	310	318	318	315	306	302	300	334	323	317	326	15
16	299	310	309	303	304	311	317	317	318	310	308	306	338	327	314	322	16
17	309	316	315	311	317	320	320	320	321	313	315	320	341	331	324	330	17
18	316	320	320	319	323	324	324	324	324	320	320	342	345	340	331	337	18
19	317	320	321	321	323	325	325	324	323	322	321	370	350	340	333	338	19
20	319	325	322	328	323	327	325	325	324	324	323	370	350	341	336	338	20
21	320	326	323	327	326	328	326	326	324	324	325	370	350	340	336	337	21
22	321	328	324	328	327	328	326	328	324	324	324	370	350	340	337	338	22
23	323	328	323	328	328	327	326	328	323	323	324	370	350	340	337	338	23

MAY 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	+ ·30000 (C.G.S. UNIT).																
Midnight	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	Gas plant out of order	331	Midnight
1h																329	1h
2																329	2
3																328	3
4																327	4
5																327	5
6																327	6
7																327	7
8																332	8
9																336	9
10																333	10
11																320	11
Noon																320	Noon
13h																317	13h
14																314	14
15																311	15
16																313	16
17																320	17
18																327	18
19																330	19
20																331	20
21																332	21
22																332	22
23																332	23

Table VI.—Results of Meteveorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-lel) during the Month of May, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—10)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
MAY.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	968·6	24·1	2·6	20·0	78	23·4	70	2·2	5	20·3	23·6	22·5	19·6	25·6	20·2	5·4	0·1	0	10·5	93
2	968·8	23·9	3·0	19·2	75	22·2	calm	calm	3	19·0	23·3	25·7	20·4	25·9	18·9	7·0	0·0	0	8·1	72
3	969·7	24·5	3·1	19·8	75	23·1	calm	calm	6	20·2	22·7	24·9	20·9	26·5	19·3	7·2	0·0	0	7·3	65
4	969·9	23·9	3·5	18·4	72	21·2	120	3·1	1	19·3	23·0	24·5	21·3	25·3	19·0	6·3	0·0	0	10·8	96
5	970·8	23·4	2·5	19·5	79	22·7	110	4·5	7	20·8	22·4	23·4	21·7	24·7	20·2	4·5	1·1	20	7·6	68
6	974·0	23·8	2·1	20·6	82	24·2	120	5·8	7	20·7	22·6	22·5	20·6	23·5	20·2	3·3	9·1	95	5·7	51
7	969·4	21·4	0·5	20·6	95	24·2	110	5·8	7	20·4	21·0	20·6	19·2	24·0	20·0	4·0	11·1	135	3·9	35
8	969·2	20·6	1·0	19·0	91	22·0	110	9·4	8	19·0	20·2	21·8	20·5	22·6	18·8	3·8	0·0	0	4·7	42
9	969·4	21·5	0·8	20·3	93	23·8	90	6·7	7	19·4	21·2	22·4	20·3	23·0	19·0	4·0	7·6	115	5·0	45
10	971·1	22·3	0·9	20·9	91	24·7	90	9·4	7	20·2	21·5	22·7	20·3	22·9	19·8	3·1	0·8	10	9·0	81
11	971·1	22·6	1·6	20·2	87	23·7	80	8·1	8	20·2	22·4	22·9	19·9	23·8	20·1	3·7	2·8	15	7·3	66
12	970·2	20·6	1·3	18·6	89	21·4	90	8·1	7	19·4	20·2	21·5	19·5	22·0	18·3	3·7	7·2	35	1·2	11
13	970·5	20·9	1·5	18·5	86	21·3	90	4·5	8	19·3	20·4	22·5	19·8	23·9	19·0	4·9	2·3	20	7·0	63
14	968·5	20·9	1·0	19·3	91	22·4	90	6·7	7	19·2	20·5	23·0	19·6	23·7	19·0	4·7	1·9	20	3·9	35
15	968·5	23·4	2·5	19·5	79	22·7	70	3·6	7	19·2	23·0	23·5	20·5	24·9	19·2	5·7	0·0	0	6·7	61
16	970·1	23·5	2·2	20·1	81	23·5	90	4·5	4	20·0	23·2	21·9	20·5	25·2	20·0	5·2	1·6	10	8·0	78
17	971·9	22·6	2·5	18·7	79	21·6	90	4·5	5	20·2	22·4	21·9	19·6	23·5	19·7	3·8	7·4	45	6·3	57
18	972·4	22·3	2·6	18·1	77	20·8	90	6·7	4	19·0	21·8	22·0	19·6	23·3	18·5	4·8	0·7	5	9·8	89
19	970·7	21·9	2·0	18·8	83	21·7	105	4·0	4	19·2	21·3	21·7	19·6	23·7	19·0	4·7	0·7	10	8·5	77
20	969·1	21·1	1·1	19·4	90	22·5	70	4·5	8	19·3	20·6	22·1	18·5	24·4	19·0	5·4	1·6	15	4·9	45
21	968·0	23·1	2·7	18·8	77	21·7	130	1·3	3	16·7	22·6	23·9	19·3	24·0	16·1	7·9	0·2	0	10·5	95
22	968·7	20·1	2·4	16·1	78	18·3	150	8·5	6	18·4	19·7	20·8	18·6	20·8	18·0	2·8	3·8	25	10·0	91
23	968·3	19·1	2·5	14·9	77	16·9	145	5·4	6	16·2	18·4	18·9	18·5	21·7	16·1	5·6	2·0	20	6·0	55
24	966·7	20·7	2·7	16·2	75	18·4	110	4·0	5	17·3	20·2	18·4	17·8	21·6	16·6	5·0	1·5	10	7·5	69
25	965·6	21·4	2·8	16·8	75	19·1	140	3·6	4	14·8	21·3	21·9	18·1	22·5	14·8	7·7	0·0	0	10·3	94
26	966·1	22·1	3·9	15·6	67	17·7	90	2·2	3	17·2	21·6	21·9	18·4	23·5	16·8	6·7	0·0	0	8·7	79
27	967·6	20·9	2·0	17·7	82	20·3	110	4·5	4	17·4	20·2	19·9	17·6	22·3	16·3	6·0	0·2	0	4·0	37
28	968·3	21·7	3·6	15·7	69	17·8	90	3·6	1	17·0	21·3	23·7	19·6	23·7	17·0	6·7	0·2	0	7·1	65
29	967·3	21·9	3·5	16·2	70	18·4	130	5·4	1	18·4	21·6	23·0	18·6	23·4	17·9	5·5	0·0	0	10·3	94
30	968·2	21·9	3·5	16·2	70	18·4	110	4·5	4	18·2	21·4	21·9	18·9	23·0	17·4	5·6	0·0	0	10·0	91
31	968·7	21·9	3·0	17·1	74	19·5	100	8·5	1	18·5	20·9	22·7	18·5	23·0	18·0	5·0	18·3	120	6·8	62
Mean	969·1	22·1	2·3	18·4	80·2	21·3	—	4·9	5·0	18·8	21·5	22·3	19·5	23·6	18·5	5·1	82·2	725	7·35	66·5
Average	969·4	21·7	2·3	18·0	79·5	20·7	—	4·2	5·7	—	—	—	—	23·8	17·6	6·2	156·6	1970	7·03	63·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	41·5 mbs	Amount of rain	—	36·8 mms
Temperature of the Air	+	2·5°C	Duration of Bright Sunshine	+	12·0 hrs.
Vapour Pressure		— mbs	Mean of Maximum temperatures	+	2·9°C
Relative Humidity		— %	,, Minimum temperature	+	1·5°C
Velocity of Wind	—	0·3 mps.	Absolute Maximum temperature	+	1·4°C
			Minimum temperature	—	0·4°C

Table VII.—Daily Results of Meteorological Observations made during the month of May, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
MAY	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1009·3	+ 0·6	27·0	20·9	6·1	23·7	+ 0·4	1·9	20·8	+ 0·9	71	− 10	24·6	19·8
2	1009·8	+ 1·0	26·9	19·5	7·4	23·1	− 0·1	1·8	20·3	+ 0·5	84	+ 3	23·8	17·6
3	1010·0	+ 1·1	27·7	20·7	7·0	23·8	+ 0·6	1·9	20·9	+ 1·1	84	+ 3	24·7	18·5
4	1010·7	+ 1·7	27·9	20·3	7·6	23·7	+ 0·6	2·3	20·2	+ 0·5	81	0	23·7	18·2
5	1011·1	+ 3·1	27·7	20·0	7·7	24·0	+ 1·0	2·2	20·7	+ 1·1	82	+ 1	24·4	18·0
6	1010·7	+ 1·6	27·1	21·3	5·8	23·9	+ 1·0	1·8	21·2	+ 1·9	85	+ 5	25·2	19·5
7	1009·3	+ 0·1	26·3	21·6	4·7	23·0	+ 0·2	1·8	20·2	+ 1·0	84	+ 4	23·7	20·0
8	1009·7	+ 0·4	25·6	22·0	3·6	23·3	+ 0·6	3·0	18·6	− 0·5	75	− 5	21·4	20·4
9	1010·0	+ 0·7	25·8	21·5	4·3	23·2	+ 0·6	1·9	20·3	+ 1·3	84	+ 4	23·8	20·0
10	1011·6	+ 2·2	26·0	22·5	3·5	23·8	+ 1·3	2·4	20·1	+ 1·2	80	0	23·5	20·7
11	1011·9	+ 2·4	26·4	21·3	5·1	23·9	+ 1·5	2·6	19·8	+ 1·0	78	− 2	23·1	19·8
12	1011·7	+ 2·1	25·5	21·0	4·5	22·7	+ 0·3	2·1	19·5	+ 0·7	82	+ 2	2·27	19·6
13	1010·6	+ 0·9	26·3	21·1	5·2	23·3	+ 1·0	2·5	19·4	+ 0·7	79	− 1	22·5	19·7
14	1008·9	− 0·8	25·8	21·4	4·4	22·9	+ 0·6	1·9	20·0	+ 1·3	84	+ 4	23·4	19·8
15	1009·1	− 0·7	27·1	21·2	5·9	24·0	+ 1·8	1·9	21·1	+ 2·5	84	+ 4	25·0	19·7
16	1010·6	+ 0·7	27·0	22·2	4·8	24·0	+ 1·8	2·3	20·5	+ 1·9	81	+ 1	24·1	20·5
17	1012·8	+ 2·8	26·8	21·7	5·1	23·0	+ 0·9	1·5	20·7	+ 2·2	87	+ 7	24·4	20·0
18	1013·0	+ 2·9	26·4	20·1	6·3	22·6	+ 0·6	2·5	18·7	+ 0·3	78	− 2	21·6	18·0
19	1011·1	+ 0·9	26·8	20·9	5·9	23·0	+ 1·0	2·6	18·9	+ 0·5	78	− 2	21·8	18·7
20	1009·0	− 1·3	26·9	21·3	5·6	22·7	+ 0·8	1·6	20·3	+ 1·9	86	+ 6	23·8	19·9
21	1008·2	− 2·2	27·2	17·6	9·6	21·9	0·0	1·5	19·6	+ 1·2	87	+ 7	22·8	15·0
22	1009·4	− 1·0	25·0	19·7	5·3	21·6	− 0·2	2·3	17·9	− 0·4	79	− 1	20·5	17·8
23	1009·6	− 0·9	24·4	18·4	6·0	20·6	− 1·2	3·8	14·1	− 4·2	67	− 13	16·1	26·4
24	1007·4	− 3·1	25·3	17·6	7·7	20.4	− 1·3	2·8	15·7	− 2·5	74	− 6	17·8	15·5
25	1005·9	− 4·7	27·6	14·4	13·2	19·8	− 1·9	0·8	18·5	+ 0·3	92	+ 12	21·3	13·0
26	1006·5	− 4·1	26·6	17·1	9·7	20·7	− 0·9	1·6	1·82	+ 0·3	86	+ 6	20·9	15·1
27	1008·6	− 2·1	26·3	18·0	8·3	21·1	− 0·5	1·9	18·0	+ 0·1	82	+ 2	20·6	16·0
28	1008·9	− 1·8	26·6	17·6	9·0	21·9	+ 0·4	3·1	16·9	− 0·9	73	− 7	19·2	15·6
29	1008·1	− 2·7	27·4	19·0	8·4	22·4	+ 0·9	2·5	18·4	+ 0·6	78	− 2	21·2	17·2
30	1008·8	− 2·1	26·8	19·0	7·8	22·1	+ 0·7	2·8	17·6	− 0·1	76	− 4	22·1	17·3
31	1010·1	− 0·8	26·5	19·5	7·0	22·0	+ 0·6	1·6	19·5	+ 1·8	86	+ 7	22·7	17·7
Mean	1009·8	− 0·1	26·5	20·0	6·5	22·7	+ 0·5	2·2	19·2	+ 0·6	80·9	+ 0·8	22·4	18·2
Aver.	1009·9	—	25·9	19.1	6·8	22·2	—	2·3	18·6	—	80·1	—	21·4	15·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF MAY, 1949

On the 19th there was some indication of a cyclonic depression about 2,000 miles east-north-east of Mauritius.

Pressure was mainly above normal from the 1st—19th and then below, the mean being just below normal. Mean temparature was 0·5°C above normal. Rainfall was only 48% of the average and unevenly distributed, 40% of the month's total falling on the 31st. Sunshine was slightly above normal.

Table VII *contd.*—**Daily Results of Meteorological Observations made during the month of May, 1949**

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	Temperature of the Soil: 5 Feet	Temperature of the Soil: 2 Feet	Temperature of the Soil: 12 inch
MAY	mms.	min.	mm.	hrs.	%	m.p.s.	m.p.s.	°C.	°C.	°C.	°C.
1	0·6	25	4·7	10·3	91	2·4	− 0·9	25·7	26·3	26·1	27·2
2	0·0	—	4·5	9·5	84	2·0	− 1·3	25·7	26·4	26·2	27·1
3	0·0	—	4·2	10·2	90	2·6	− 0·7	25·7	26·1	26·2	26·7
4	0·0	—	4·0	10·5	93	2·3	− 1·0	25·7	26·2	26·2	27·1
5	0·4	10	2·2	9·[illegible]	81	2·8	− 0·5	25·7	26·3	26·2	27·3
6	1·4	60	2·7	8·4	74	3·2	− 0·1	25·7	25·8	26·2	27·1
7	5·8	125	2·1	4·4	39	4·1	+ 0·8	25·7	25·7	26·2	27·1
8	0·0	—	3·3	6·1	55	5·6	+ 2·3	25·7	26·1	26·1	26·6
9	2·4	50	3·2	4·2	37	5·7	+ 2·4	25·7	26·1	26·1	26·4
10	0·2	10	2·8	9·4	84	6·5	+ 3·2	25·7	26·1	26·1	26·4
11	1·9	35	2·9	8·3	74	5·4	+ 2·1	25·7	26·1	26·0	26·1
12	6·1	135	2·9	2·5	22	4·4	+ 1·1	25·6	26·0	25·7	26·2
13	1·8	40	3·1	6·4	57	3·6	+ 0·3	25·6	26·0	25·7	26·1
14	0·3	15	4·3	3·2	29	3·4	+ 0·1	25·6	26·0	25·6	26·2
15	0·0	—	3·1	6·9	62	2·8	− 0·5	25·7	26·1	25·5	25·9
16	0·0	—	3·5	8·4	76	3·3	0·0	25·7	26·0	25·3	26·5
17	2·4	70	3·0	7·6	68	3·8	+ 0·6	25·7	26·1	25·5	26·4
18	0·3	5	3·1	10·2	92	4·3	+ 1·1	25·7	26·1	25·6	26·2
19	0·6	20	4·1	9·6	86	3·6	+ 0·4	25·7	26·2	25·7	26·4
20	2·6	20	3·4	9·0	81	2·9	− 0·3	25·7	26·1	25·6	26·2
21	0·0	—	3·5	7·9	71	2·2	− 1·0	25·7	26·2	25·5	26·1
22	0·0	—	2·8	8·4	77	4·8	+ 1·6	25·7	26·0	25·5	26·1
23	0·6	30	5·0	4·7	43	4·3	+ 1·1	25·7	26·0	25·4	25·5
24	0·0	—	2·6	6·0	55	2·6	− 0·6	25·7	25·8	25·4	25·6
25	0·0	—	3·5	8·4	76	2·3	− 0·9	25·7	25·9	25·1	24·8
26	0·0	—	3·2	8·3	75	2·3	− 0·9	25·7	25·9	24·9	24·7
27	0·0	—	3·5	7·9	72	2·5	− 0·7	25·7	25·9	24·8	24·8
28	0·0	—	1·9	5·7	52	2·5	− 0.7	25·6	26·0	24·7	24·6
29	0·0	—	3·5	9·1	83	2·7	− 0·6	25·6	25·9	24·6	24·6
30	0·0	—	4·2	10·0	91	3·5	+ 0·2	25·6	25·8	24·5	24·7
31	18·1	270	4·6	9·3	85	4·2	+ 0·9	25·6	25·8	24·5	24·8
	Sum	Sum									
Mean	45·4	910	3·4	77·4	69·5	3·50	+0·24	25·68	26·03	25·57	26·05
Average	95·4	1340	3·8	7·39	66·4	3·26	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MAY, 1949

Element	*Highest*		*Date*	*Lowest*		*Date*
Atmospheric Pressure	1014·3mbs	at 10·00 hrs.	on 18th	1004.2 mbs	at 15·00 hrs.	on 25th
Temperature of the Air	27·9°C	„ 11·30 hrs.	„ 4th	14·4°C	„ 07·00 hrs.	„ 25th
Daily range of temperature of the Air	13·2°C	„ —	„ 25th	3·5°C	„ —	„ 10th
Temperature of the Dew Point ...	—	„ —	„ —	—	„ —	„ —
Daily range of temperature of the Dew Point	—	„ —	„ —	—	„ —	„ —
Minimum on Grass	—	„ —	„ —	13·0°C	„ —	„ 25th
Relative Humidity	—	„ —	„ —	—	„ —	„ —
Vapour Pressure	—	„ —	„ —	—	„ —	„ —
Evaporation in 24 hours	4·7mms	„ —	„ 1st	1·9mms.	„ —	„ 28th
Wind Velocity	9·0mps	„ 12·00 hrs.	„ 22nd	—	„ —	„ —
Rainfall in 24 hours	18·1mms ending 24·00 hrs.		„ 31st	—	„ —	„ —
Duration of Sunshine °C. ...	10·5hrs.	—	„ 4th	2·5 hrs.	„ —	„ 12th

6th Day Temperature of Air 24·21°C. Average 24·08°C. Mean Night Temperature of Air 21·08°C. Average 20·58°C

NUMBER OF DAYS OF

Rainfall: mms. 0.1—0·9	Rainfall: mms. 1·0—4·9	Rainfall: mms. 5·0—9·9	Rainfall: mms. 10·0—24·9	Rainfall: mms. 25·0—39·9	Rainfall: mms. 40·0—54·9	Rainfall: mms. 55·0 & over	Lightning	Thunderstorm
7	6	3	1	—	—	—	—	—

Table VIII. Barogram

MAY 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	094	104	114	110	120	118	103	108	110	113	115	131	123	092	091	105	Midnight
1h	093	102	113	111	116	114	098	102	104	112	112	125	116	091	090	103	1
2	092	096	108	110	112	112	092	093	100	112	111	122	113	091	085	095	2
3	087	092	105	109	111	109	091	092	090	111	103	113	110	089	083	092	3
4	085	090	100	103	109	108	090	090	090	110	102	113	109	088	082	090	4
5	082	090	098	101	110	103	090	090	091	108	107	113	110	088	082	091	5
6	085	091	095	103	111	103	091	093	093	111	111	112	110	091	085	093	6
7	092	095	095	106	113	111	094	097	097	115	113	113	111	092	090	103	7
8	095	096	099	110	115	114	098	102	101	122	121	123	112	095	091	109	8
9	099	100	101	110	119	114	103	105	111	129	125	131	115	101	095	112	9
10	097	096	097	113	123	113	098	106	109	131	131	126	117	101	095	111	10
11	095	093	103	109	114	111	092	102	103	124	129	117	113	098	092	107	11
Noon	093	091	096	104	111	105	089	094	097	115	122	112	111	090	089	097	Noon
13h	092	087	092	098	101	101	080	091	092	112	114	109	103	083	080	093	13h
14	085	082	090	092	097	097	079	084	091	111	111	104	096	072	076	092	14
15	083	084	084	090	093	095	077	082	090	110	110	101	092	074	080	093	15
16	081	091	086	091	093	093	077	083	090	111	111	103	092	075	083	095	16
17	087	092	090	093	098	100	079	089	093	112	113	108	093	082	090	104	17
18	093	102	092	103	106	105	085	092	094	113	124	111	095	082	093	111	18
19	096	106	095	111	111	109	091	096	104	118	130	113	102	088	097	114	19
20	100	113	109	123	115	112	102	105	111	124	132	123	105	091	103	122	20
21	108	116	111	123	123	114	111	111	112	124	135	123	105	093	110	128	21
22	108	116	111	128	123	113	110	111	115	123	139	129	103	094	110	131	22
23	108	114	111	119	119	111	109	111	116	121	135	125	102	093	110	130	23

MAY 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	126	140	128	110	089	088	109	090	072	058	081	098	090	089	103	1010·4	Midnight
1h	125	137	125	107	083	087	108	089	069	055	080	094	090	089	103	1010·1	1
2	123	131	119	100	082	083	096	082	066	052	075	090	084	088	102	1009·7	2
3	121	130	113	094	076	080	095	078	060	051	074	090	077	080	097	1009·4	3
4	121	129	111	091	076	082	094	072	055	052	074	089	075	075	096	1009·2	4
5	121	130	110	092	077	081	094	071	054	055	074	089	073	076	094	1009·2	5
6	125	131	112	095	077	083	102	072	059	065	077	090	074	081	096	1009·4	6
7	131	133	119	098	088	091	110	078	068	069	082	091	081	084	102	1009·9	7
8	133	140	122	102	091	096	111	082	070	071	090	096	089	091	105	1010·3	8
9	134	142	124	102	092	105	114	088	071	074	093	097	090	094	111	1010·6	9
10	135	143	119	102	092	110	110	082	070	074	092	100	088	095	110	1010·6	10
11	131	138	112	096	089	105	101	072	067	071	090	094	082	094	104	1010·2	11
Noon	123	133	108	090	082	094	095	070	055	065	087	090	080	091	098	1009·6	Noon
13	116	130	100	080	072	091	090	066	050	056	081	083	072	084	091	1009·0	13h
14	112	126	096	074	069	089	084	059	044	053	077	076	070	080	089	1008·6	14
15	114	118	093	074	068	089	078	061	042	054	075	074	070	075	090	1008·4	15
16	122	117	093	074	070	090	081	063	047	058	075	073	070	076	090	1008·6	16
17	128	116	103	074	072	091	083	069	051	063	083	082	071	083	092	1009·0	17
18	130	117	108	079	078	093	090	070	053	070	089	084	072	089	096	1009·4	18
19	131	121	110	083	083	096	091	071	059	072	092	090	078	092	105	1009·8	19
20	134	128	112	089	090	101	092	072	061	076	100	091	088	096	110	1010·4	20
21	142	130	113	090	090	110	092	074	064	079	104	095	090	101	114	1010·8	21
22	140	130	114	091	089	111	092	075	065	081	105	094	091	104	114	1010·8	22
23	140	130	111	090	089	110	092	074	063	081	105	094	091	104	113	1010·7	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Recorder

MAY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	10	20	20	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	12	0	0	0	30	0	20	30	0	0	12	3·9
8	60	55	50	30	0	2	2	0	0	22	0	2	12	0	0	30	5	55	60	58	60	40	45	50	60	60	60	60	50	60	60	17·5
9	60	60	55	58	25	35	32	12	20	35	15	2	25	0	30	30	35	60	60	42	60	60	55	60	60	60	60	60	60	60	60	22·4
10	60	60	60	60	45	56	60	5	55	60	35	60	5	50	60	45	60	60	60	0	60	60	40	50	60	60	30	60	60	60	60	25·9
11	60	60	60	60	60	40	45	40	45	60	55	10	35	15	60	60	60	60	60	60	58	60	25	50	60	60	30	60	60	60	60	26·3
Noon	50	60	58	60	60	48	55	30	12	60	60	0	60	25	60	60	60	55	60	60	58	60	40	60	50	60	15	60	60	60	60	26·2
13	58	60	58	60	60	55	22	30	12	60	60	0	55	12	15	60	60	45	45	12	50	60	2	55	60	60	30	00	60	60	55	23·2
14	60	0	10	60	60	25	8	60	15	60	60	0	60	45	30	60	35	60	45	20	60	60	55	60	52	60	5	35	60	60	2	21·4
15	60	50	12	60	55	50	10	55	60	60	60	0	55	60	60	50	10	60	48	32	60	60	30	12	52	60	0	0	60	60	0	21·7
16	60	60	25	50	50	18	2	35	60	50	60	0	50	30	60	35	50	60	20	5	60	60	30	28	60	40	0	0	60	60	30	20·1
17	60	0	28	60	30	15	0	15	20	60	30	0	55	0	25	60	2	60	32	5	60	60	40	12	60	2	0	0	60	50	10	15·2
18	30	0	0	30	12	0	0	0	0	15	0	0	10	0	0	25	0	15	0	0	30	20	0	12	15	0	2	0	25	10	0	4·2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 228·0 hrs. and the total possible Sunshine was 345·2 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

MAY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	11	25	29	30	0	0	7	0	0	0	0	0	0	0	0	0	6	13	16	12	6	0	0	0	11	15	16	3	21	0	16	3·9
8	40	42	53	47	28	52	50	2	0	47	4	0	4	3	16	37	36	60	60	34	60	44	15	5	60	0	60	60	60	59	60	18·3
9	00	60	60	55	45	60	9	37	19	60	59	0	11	0	26	49	53	60	60	55	60	52	28	5	60	55	60	60	60	60	60	23·3
10	60	60	60	48	60	60	19	35	20	60	59	4	9	11	39	60	53	60	60	60	50	45	41	40	60	60	60	60	60	60	60	24·9
11	60	60	60	60	60	60	24	15	17	60	45	10	58	0	50	60	60	60	60	55	60	58	44	29	52	60	60	60	60	60	60	25·6
Noon	60	60	60	60	60	53	60	39	30	60	54	3	50	58	60	60	60	60	60	60	36	60	60	43	38	60	40	60	60	60	55	27·3
13h	60	60	60	60	60	29	60	28	31	60	60	34	60	19	52	60	60	60	60	60	20	60	24	48	55	60	60	22	60	60	60	26·0
14	60	60	60	60	60	33	30	59	37	45	60	55	8	37	60	54	55	60	60	60	23	59	19	60	60	45	60	17	54	60	60	25·5
15	60	60	43	60	60	60	7	51	46	50	40	34	60	56	35	55	24	60	60	60	43	50	24	54	60	59	20	0	58	60	60	24·5
16	60	60	60	60	60	53	1	55	27	60	60	10	60	10	32	40	35	60	55	21	60	50	23	50	21	26	15	0	7	60	45	20·6
17	60	24	54	60	53	44	1	40	28	55	55	0	60	1	42	27	12	54	22	59	51	25	4	29	25	59	21	0	40	52	15	17·9
18	25	1	15	30	5	0	0	0	0	5	0	0	6	0	0	0	0	4	5	5	3	0	0	0	1	0	0	0	9	10	5	2·2
19	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 240·0 hrs. and the total possible sunshine was 345·2 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

MAY 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	22·4	0·7	20·4	0·7	21·8	1·1	21·8	0·9	21·6	1·3	23·0	1·0	21·5	1·2	22·8	2·6	Midnight
1h	21·9	0·8	20·5	0·8	21·2	0·8	21·7	1·0	21·3	1·2	22·9	1·0	21·8	1·1	22·9	2·7	1h
2	22·0	0·4	20·3	0·7	20·8	1·0	20·8	0·8	21·2	0·9	22·9	0·9	21·9	1·0	22·8	2·5	2
3	22·0	0·5	20·0	0·4	20·9	0·9	20·8	0·8	21·5	0·9	22·8	1·1	21·8	1·1	22·4	2·6	3
4	22·2	0·6	19·9	0·5	21·0	0·8	21·2	0·6	21·9	1·0	22·8	0·9	21·9	1·1	22·4	1·5	4
5	22·1	0·5	19·7	0·5	20·9	0·9	21·0	0·6	21·3	1·0	22·8	1·1	21·7	1·0	22·3	1·1	5
6	22·4	0·7	19·5	0·5	21·1	0·7	20·6	0·9	20·4	0·3	22·8	1·1	21·9	1·1	22·2	1·1	6
7	22·3	0·6	20·1	0·6	22·2	0·9	21·3	1·0	20·2	0·2	23·0	1·2	21·9	1·1	22·3	1·2	7
8	24·4	1·4	23·9	1·4	24·4	1·7	24·0	1·5	23·8	1·5	25·0	2·1	23·7	1·5	22·9	2·4	8
9	25·0	2·3	25·5	3·0	25·6	2·5	25·7	3·1	25·2	2·5	25·5	2·9	23·1	1·3	24·2	4·2	9
10	25·7	2·8	25·9	2·9	26·4	3·3	26·2	3·7	26·3	3·4	26·7	3·7	22·9	1·2	24·8	4·2	10
11	25·5	2·8	26·8	3·6	26·8	3·3	27·0	4·2	26·9	4·2	26·7	4·1	24·8	2·0	24·9	4·2	11
Noon	26·5	3·8	26·6	2·7	27·0	3·6	27·4	4·5	27·2	4·5	26·4	3·3	25·1	2·6	25·0	4·2	Noon
13	26·6	4·0	26·8	4·2	26·7	3·5	27·7	5·1	27·5	4·7	26·0	2·7	25·2	2·4	25·2	4·7	13h
14	26·8	3·9	26·7	4·4	27·2	3·8	27·6	4·8	27·2	4·6	25·0	2·0	23·0	0·9	24·9	4·1	14
15	26·4	3·7	26·7	4·2	26·7	3·5	27·4	4·6	26·9	4·0	26·1	3·5	23·3	1·5	24·9	4·4	15
16	26·0	3·6	26·1	3·6	26·0	3·0	26·5	4·1	26·6	4·1	25·6	3·1	23·7	2·0	24·6	4·4	16
17	25·4	2·8	25·0	2·7	25·4	2·7	25·7	3·6	25·9	3·3	23·5	1·3	22·9	1·5	23·5	3·9	17
18	24·0	1·9	24·0	1·9	24·2	1·7	24·0	2·2	24·5	2·1	23·4	0·9	23·1	2·3	22·7	3·0	18
19	22·7	1·3	23·0	1·5	23·5	1·3	23·0	1·7	23·7	1·8	22·8	1·0	23·1	2·6	22·6	2·8	19
20	22·0	1·0	22·2	1·2	23·0	1·1	22·0	1·6	23·8	1·8	22·4	0·9	23·1	2·8	22·5	2·6	20
21	21·7	1·0	21·8	1·1	23·1	1·2	21·8	1·4	23·7	1·4	22·1	0·8	23·1	3·0	22·3	2·5	21
22	21·3	1·0	21·3	1·0	23·0	1·0	21·3	1·2	23·8	1·3	22·0	1·0	23·1	3·0	22·0	2·4	22
23	21·2	1·1	21·8	0·9	22·7	1·0	21·3	1·1	23·2	1·0	21·3	0·9	23·1	2·9	22·0	1·7	23

MAY 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	21·9	1·8	22·7	1·2	22·9	1·5	21·9	1·4	21·9	1·3	21·9	1·1	21·8	1·3	22·7	0·5	Midnight
1h	21·5	1·7	22·5	1·1	22·9	1·4	22·0	1·5	21·9	1·5	21·5	1·1	21·5	1·2	23·0	0·6	1h
2	21·6	1·8	22·8	1·4	22·8	1·2	22·0	1·3	21·7	1·2	21·5	1·0	21·3	1·0	22·9	0·5	2
3	21·9	1·7	23·0	1·7	22·8	1·3	22·3	1·9	21·3	1·1	21·5	1·2	21·2	0·9	22·4	0·5	3
4	22·4	2·0	22·9	2·1	22·6	1·3	22·3	1·9	21·8	1·5	21·6	1·2	21·5	0·9	22·3	0·5	4
5	22·4	1·9	22·9	2·0	22·9	1·5	21·9	1·9	21·6	1·5	21·8	1·4	22·3	1·6	22·4	0·5	5
6	21·7	1·3	23·0	2·0	23·0	1·2	21·9	1·6	21·1	1·2	21·5	1·2	22·3	1·4	22·2	0·4	6
7	22·1	1·0	23·3	1·8	23·5	2·1	22·1	1·3	21·8	1·5	21·6	1·2	22·3	1·2	22·4	0·5	7
8	22·5	1·3	24·7	2·9	23·7	1·6	21·9	1·4	23·2	2·2	22·5	1·9	23·9	1·5	24·0	0·5	8
9	23·4	1·9	24·9	3·0	25·0	2·7	21·6	1·0	24·5	3·2	23·3	2·5	24·8	2·0	25·5	2·4	9
10	23·9	1·8	25·0	2·9	25·4	3·2	22·0	1·0	24·4	3·3	22·8	1·7	25·9	3·5	26·1	3·3	10
11	24·4	1·8	25·3	3·2	25·7	3·7	23·8	2·7	25·4	4·0	23·3	2·0	26·3	3·6	25·8	3·3	11
Noon	25·1	2·7	25·8	3·9	26·2	4·9	24·3	3·5	26·1	4·6	24·5	2·4	26·6	3·8	26·3	3·5	Noon
13h	24·4	2·3	25·1	3·3	26·3	4·6	25·5	4·4	26·3	4·5	24·5	2·4	26·9	4·0	26·4	3·3	13
14	24·9	2·8	25·1	3·2	25·4	3·5	25·1	3·9	25·2	3·7	25·8	4·0	27·1	4·0	26·7	—	14
15	25·5	3·0	24·8	3·1	25·0	3·6	25·0	3·7	25·6	4·1	25·6	4·1	26·3	3·6	26·5	3·6	15
16	24·5	2·4	24·9	3·6	25·3	3·8	24·2	3·1	25·2	5·0	25·2	3·5	26·0	3·3	25·8	—	16
17	23·8	2·0	24·1	3·1	24·6	3·7	23·5	2·7	24·5	4·1	24·6	3·2	25·3	2·7	24·8	—	17
18	23·1	1·4	23·2	2·4	23·5	3·1	22·7	2·1	23·0	2·7	23·5	2·3	24·5	1·7	23·9	—	18
19	23·0	1·6	23·0	2·1	23·5	3·1	22·2	1·7	22·7	2·2	23·0	1·7	24·0	1·1	23·1	—	19
20	23·2	1·9	22·9	1·6	23·7	2·9	22·0	1·4	22·6	1·6	22·7	1·4	23·9	1·1	22·9	—	20
21	23·1	1·6	22·9	1·5	22·6	2·0	22·0	1·4	22·4	1·3	22·0	1·5	23·9	1·0	22·8	—	21
22	22·9	1·4	23·0	1·5	22·3	2·0	21·0	1·2	23·0	1·5	22·0	1·4	23·5	0·8	22·7	—	22
23	23·1	1·4	23·0	1·5	21·3	1·5	21·1	0·9	21·8	0·9	22·0	1·2	23·1	0·7	22·7	—	23

Table XI *contd.*—**Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records**

(*To obtain temperatures on the Absolute Scale add 273.*)

MAY 1949

Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	22·5	—	20·7	—	21·3	—	21·6	—	19·1	—	20·5	—	19·7	—	19·8	—	Midnight
1h	22·4	—	20·5	—	21·3	—	21·6	—	19·0	—	20·4	—	19·6	—	19·7	—	1h
2	22·2	—	20·4	—	21·1	—	21·6	—	18·5	—	20·3	—	19·4	—	19·6	—	2
3	22·0	—	20·3	—	21·0	—	21·5	—	18·2	—	20·1	—	19·2	—	19·5	—	3
4	21·9	—	20·2	—	21·0	—	21·5	—	18·0	—	19·9	—	19·0	—	19·3	—	4
5	21·7	—	20·2	—	21·0	—	21·4	—	17·8	—	19·8	—	18·8	—	18·7	—	5
6	21·7	—	20·1	—	20·9	—	21·3	—	17·7	—	19·7	—	18·6	—	18·3	—	6
7	21·7	—	20·2	—	21·0	—	21·3	—	17·6	—	19·8	—	18·4	—	17·8	—	7
8	21·7	—	22·0	—	21·0	—	21·3	—	18·4	—	20·0	—	18·6	—	17·9	—	8
9	24·0	2·0	24·9	3·9	24·8	3·6	24·6	2·0	24·2	2·6	22·8	3·2	21·0	3·8	20·7	2·1	9
10	24·7	—	24·9	—	25·0	—	25·6	—	24·9	—	24·0	—	22·0	—	22·0	—	10
11	25·5	—	25·0	—	25·7	—	26·0	—	25·6	—	24·4	—	23·2	—	23·1	—	11
Noon	26·5	3·2	25·0	3·7	26·4	4·4	26·1	3·4	25·9	4·4	24·1	5·2	23·8	5·0	24·3	5·1	Noon
13h	26·2	—	26·4	—	25·8	—	26·4	—	26·6	—	24·1	—	22·0	—	25·0	—	13h
14	26·0	—	26·0	—	25·6	—	26·9	—	27·2	—	25·0	—	21·5	—	25·3	—	14
15	24·8	2·1	25·4	3·9	25·5	3·8	26·2	4·7	26·2	4·4	23·9	1·0	22·0	4·0	23·6	5·0	15
16	23·9	—	24·5	—	25·2	—	24·9	—	25·8	—	23·1	—	22·0	—	22·9	—	16
17	22·6	—	24·1	—	24·6	—	23·5	—	24·3	—	22·5	—	21·8	—	22·1	—	17
18	22·4	—	22·9	—	22·9	—	22·3	—	23·5	—	21·5	—	21·4	—	20·7	—	18
19	22·3	—	22·2	—	22·6	—	21·3	—	22·6	—	21·2	—	21·0	—	19·6	—	19
20	22·0	—	21·9	—	22·2	—	21·0	—	21·6	—	21·0	—	20·7	—	18·6	—	20
21	21·6	—	21·7	—	22·0	—	19·8	—	20·7	—	20·9	—	20·4	—	18·0	—	21
22	21·4	—	21·7	—	21·7	—	19·6	—	20·7	—	20·6	—	20·2	—	17·3	—	22
23	21·4	—	21·4	—	21·6	—	19·4	—	20·6	—	20·1	—	20·0	—	16·9	—	23

MAY 1949—*continued*

Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	16·2	—	17·5	—	18·8	—	18·4	—	21·3	—	19·6	—	20·5	—	21·0	—	Midnight
1h	16·0	—	17·4	—	18·7	—	18·3	—	21·2	—	19·5	—	20·6	—	20·8	—	1h
2	15·5	—	17·3	—	18·6	—	18·2	—	20·8	—	19·4	—	20·4	—	20·7	—	2
3	15·0	—	17·2	—	18·4	—	18·0	—	20·3	—	19·3	—	20·0	—	20·6	—	3
4	14·8	—	17·2	—	18·3	—	17·9	—	20·2	—	19·2	—	19·8	—	20·6	—	4
5	14·6	—	17·2	—	18·2	—	17·7	—	19·4	—	19·1	—	19·8	—	20·5	—	5
6	14·5	—	17·2	—	18·0	—	17·6	—	19·0	—	19·0	—	19·6	—	20·3	—	6
7	14·4	—	17·1	—	18·5	—	17·7	—	19·2	—	19·1	—	19·5	—	20·5	—	7
8	17·6	—	18·4	—	21·0	—	20·0	—	21·6	—	21·5	—	21·0	—	21·6	—	8
9	22·1	2·1	21·7	—	24·0	3·2	23·8	3·6	24·0	3·8	24·0	4·0	24·0	4·0	24·0	—	9
10	23·6	—	23·3	—	24·0	—	24·6	—	24·9	—	24·8	—	24·8	—	24·6	—	10
11	24·7	—	24·4	—	24·1	—	25·3	—	25·6	—	25·5	—	25·4	—	25·3	—	11
Noon	25·1	4·7	25·4	—	24·3	4·2	26·0	6·1	26·4	5·9	26·0	5·6	26·0	4·8	25·7	—	Noon
13h	26·3	—	26·0	—	26·0	—	26·6	—	27·0	—	25·8	—	26·0	—	25·9	—	13h
14	27·6	—	25·8	—	25·5	—	26·0	—	26·4	—	25·7	—	25·8	—	25·8	—	14
15	25·2	5·0	25·4	—	24·4	4·0	25·0	5·0	26·2	3·7	25·6	4·6	24·9	1·2	25·4	—	15
16	23·7	—	24·4	—	23·7	—	24·6	—	24·9	—	24·9	—	23·9	—	24·8	—	16
17	22·2	—	23·4	—	23·6	—	24·0	—	24·4	—	24·3	—	23·1	—	24·0	—	17
18	20·8	—	21·3	—	22·4	—	23·1	—	23·2	—	22·7	—	21·0	—	22·9	—	18
19	20·7	—	20·7	—	20·6	—	22·6	—	21·7	—	21·8	—	20·4	—	22·3	—	19
20	19·7	—	20·5	—	19·5	—	22·5	—	21·2	—	21·2	—	20·3	—	21·9	—	20
21	18·8	—	20·1	—	19·1	—	22·3	—	20·4	—	21·1	—	20·2	—	21·9	—	21
22	17·9	—	19·5	—	18·8	—	21·5	—	20·3	—	20·9	—	20·1	—	21·3	—	22
23	17·6	—	18·9	—	18·7	—	21·3	—	19·8	—	20·5	—	20·1	—	21·1	—	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during May, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per Second, using the factor 2·2

*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

MAY 1949

Day	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	07	1·1	08	1·3	12	1·9	10	2·1	12	2·1	10	2·1	10	1·6	10	4·7	10	3·4	08	5·9	08	4·4	11	3·3	08	2·7	10	2·9	09	1·8	10	2·3
1h	07	0·7	08	1·6	12	2·1	10	1·8	11	1·4	10	2·6	10	2·1	10	5·6	09	3·8	09	5·9	08	3·3	09	4·4	09	1·8	10	2·1	09	2·4	10	1·8
2	07	2·1	08	1·6	12	1·6	10	1·6	12	1·3	10	2·8	10	1·1	10	5·9	10	3·7	09	6·2	10	3·4	10	4·3	12	3·4	10	2·6	10	1·8	10	2·4
3	07	1·9	08	1·6	12	2·4	09	1·8	12	2·1	10	2·4	10	2·5	10	5·1	10	4·1	08	6·2	08	4·2	08	4·5	11	2·1	10	2·9	10	2·1	10	1·8
4	07	2·1	08	1·5	12	2·1	09	1·7	12	2·0	11	2·8	10	2·1	11	4·7	10	4·4	09	5·6	08	4·2	10	4·1	07	2·3	10	3·1	09	2·6	10	2·7
5	07	1·1	08	1·5	12	1·8	09	1·6	12	1·7	11	3·1	10	1·9	10	4·1	10	4·3	08	5·8	08	4·0	12	4·3	08	2·8	10	3·2	08	2·5	10	2·8
6	07	2·1	08	1·7	12	2·0	09	1·6	12	1·3	11	3·2	10	2·1	10	4·4	10	4·3	08	5·3	08	4·6	10	4·0	08	2·1	10	3·3	08	2·2	10	2·2
7	07	2·6	08	1·8	10	2·3	12	1·2	12	1·3	10	2·5	10	1·4	10	4·9	08	5·3	08	6·4	08	5·1	09	4·2	08	2·7	08	3·8	08	2·3	10	2·8
8	07	2·1	08	1·7	08	2·9	12	1·1	12	1·8	10	3·2	10	2·6	10	5·5	10	4·9	08	7·0	08	5·2	08	4·9	09	3·1	08	3·9	08	2·2	10	2·2
9	06	3·1	08	2·6	06	4·0	10	2·3	10	3·6	10	4·5	10	2·8	10	6·9	10	4·8	08	7·6	07	6·5	06	3·7	08	4·1	08	5·0	06	3·4	08	3·1
10	06	3·3	08	2·4	06	4·0	09	3·2	10	3·9	11	5·3	10	5·0	10	7·6	10	5·1	08	8·8	07	6·8	10	4·7	08	4·6	10	4·7	06	3·6	08	4·5
11	06	3·7	06	3·1	06	3·1	10	3·8	11	4·4	11	5·7	10	4·1	10	7·4	09	6·3	08	8·7	07	8·4	08	5·9	08	5·3	08	4·1	06	3·7	09	4·5
Noon	06	3·5	06	3·1	07	3·1	10	4·6	12	4·4	11	5·4	10	5·0	10	8·4	09	7·4	08	8·9	08	7·3	08	6·7	07	5·3	10	5·0	06	3·7	12	4·4
13h	06	3·4	05	3·1	10	3·1	10	3·7	10	4·4	10	5·2	10	5·4	10	8·2	08	7·9	08	7·8	07	6·9	08	6·2	08	5·3	10	3·9	06	4·0	09	4·5
14	06	3·6	06	2·8	07	3·8	10	3·6	11	4·3	10	4·4	10	6·5	10	7·8	08	7·6	08	7·3	07	6·4	08	5·2	07	5·1	10	5·2	05	4·2	09	5·1
15	06	3·4	06	2·2	06	3·6	10	3·4	11	4·8	10	5·4	10	6·1	10	7·1	09	7·1	08	7·5	08	7·0	08	5·2	07	4·9	08	4·7	05	3·9	10	4·8
16	06	3·8	04	2·4	08	3·3	10	4·0	12	4·4	12	5·2	10	5·3	10	6·9	09	6·9	08	7·7	07	6·1	08	5·2	08	5·1	06	4·4	06	3·7	10	3·9
17	06	2·9	06	2·4	08	2·9	10	2·9	10	2·5	10	3·0	10	5·3	10	4·5	08	6·9	08	6·3	07	6·3	08	4·3	08	5·4	07	3·7	06	3·0	09	3·9
18	08	2·0	06	1·4	08	2·1	12	1·7	10	1·7	10	2·5	10	5·6	10	3·4	09	6·6	09	5·5	08	5·1	08	4·4	08	3·9	08	3·0	06	2·3	10	3·0
19	08	1·4	06	1·3	08	2·0	12	2·2	10	2·0	10	2·0	10	6·3	10	3·7	08	6·8	09	4·9	08	4·9	08	2·6	08	3·1	08	2·7	07	2·0	10	2·9
20	08	2·0	06	1·8	09	2·1	12	0·9	10	2·4	10	1·0	10	6·0	10	4·4	09	6·1	10	5·5	08	5·5	08	3·0	10	3·1	09	2·1	10	2·1	10	2·6
21	08	1·7	06	1·7	09	2·4	12	1·9	11	3·2	10	1·2	10	5·4	10	4·4	09	6·4	09	5·6	08	5·2	08	4·3	09	2·4	09	2·0	10	2·2	10	4·1
22	08	1·8	09	1·6	09	2·0	12	1·6	10	3·4	10	1·4	10	5·7	10	4·3	08	5·9	08	5·0	08	4·6	06	2·6	09	3·1	09	2·3	10	1·8	10	3·3
23	07	1·6	11	1·5	09	2·4	12	1·4	10	2·9	10	1·1	10	6·1	10	4·4	09	5·8	08	5·0	10	4·2	08	2·9	09	3·6	09	1·9	10	2·5	10	3·8

MAY 1949—*continued*

Day	17d.		18d.		19d.		30d.		21d. *		22d.		23d.		24d. *		25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean
Hour	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	10	2·9	10	2·1	12	3·2	11	2·2	08	1·1	12	2·3	12	4·2	15	2·2	14	1·4	11	2·0	10	2·2	11	2·1	13	2·8	12	2·9	10	2·8	2·6
1h	10	2·7	10	2·1	10	3·1	11	2·4	09	1·4	12	1·8	12	3·8	14	3·5	14	1·9	11	1·8	10	1·2	11	2·4	13	2·0	12	2·1	10	3·3	2·6
2	10	2·9	10	3·1	11	3·0	06	2·5	08	1·1	15	1·5	12	3·4	13	3·5	14	1·5	11	1·3	10	0·7	11	2·4	13	2·6	12	2·4	11	3·4	2·6
3	10	3·1	10	3·6	10	3·3	06	2·3	08	1·5	15	2·2	12	3·3	12	2·5	14	1·7	11	1·2	10	0·8	11	2·0	13	2·2	12	2·2	10	2·5	2·7
4	10	3·8	10	3·6	10	3·3	10	2·5	11	2·3	14	2·3	12	3·4	12	1·3	14	1·8	11	1·8	10	1·4	11	2·1	13	2·1	12	3·2	11	2·7	2·7
5	10	2·4	10	3·0	10	3·5	10	2·3	11	1·8	08	1·3	12	4·3	12	1·1	14	1·7	11	2·2	10	1·8	11	2·1	13	2·0	13	3·4	11	2·1	2·7
6	10	2·4	11	3·6	10	4·0	10	2·3	11	1·8	12	4·9	12	3·5	12	1·7	14	2·4	12	2·8	14	1·2	11	2·5	13	3·1	13	3·1	11	2·6	2·9
7	10	2·1	10	3·3	10	2·8	10	3·1	11	2·4	13	3·9	12	2·9	13	1·5	14	1·8	12	0·7	11	2·2	11	2·1	13	2·1	12	3·6	10	2·6	2·8
8	10	2·7	10	3·3	10	3·1	10	3·3	11	1·3	12	6·8	12	4·5	13	2·3	14	1·5	12	0·7	10	1·8	12	2·0	13	1·6	12	2·5	10	2·7	3·1
9	10	4·0	10	5·2	10	5·2	09	4·1	12	1·5	15	5·6	12	5·7	04	1·5	14	1·9	12	2·0	10	2·5	11	3·2	13	2·6	11	4·1	09	4·5	3·9
10	08	5·1	09	6·6	10	5·1	07	4·8	14	2·4	14	5·2	12	7·9	d12	3·8	13	2·7	11	3·2	10	3·9	10	3·1	13	3·7	11	4·1	10	4·8	4·6
11	09	6·4	10	6·3	10	5·6	06	4·1	12	2·3	12	7·4	12	7·2	12	4·5	14	2·9	10	3·3	10	4·0	10	3·1	10	4·0	10	4·1	10	5·5	4·9
Noon	09	6·7	08	7·3	10	4·9	07	4·3	d22	2·5	12	9·0	12	7·3	15	4·9	14	2·9	10	3·6	11	3·8	10	3·4	12	3·4	09	4·1	10	6·2	5·2
13h	06	6·0	08	6·0	10	4·0	08	4·4	24	1·7	14	8·7	15	5·6	12	4·9	12	3·8	10	3·3	10	4·1	10	3·4	12	3·4	10	4·0	10	6·3	4·9
14	10	5·8	08	5·6	10	5·0	06	4·8	25	1·9	12	6·9	12	5·2	15	4·8	11	3·7	11	3·0	10	4·4	10	3·0	11	2·9	12	4·3	08	6·7	4·9
15	09	5·8	09	5·7	09	4·5	07	3·5	r12	4·3	12	5·9	14	6·4	12	5·2	11	3·3	10	2·8	13	4·5	13	1·6	11	3·4	12	4·7	08	6·9	4·8
16	08	4·3	08	5·2	10	4·1	10	3·9	12	4·4	12	5·9	13	5·2	13	4·5	12	3·3	11	3·2	13	4·1	15	0·8	12	3·1	12	4·9	10	5·5	4·5
17	10	4·8	10	5·0	10	3·1	08	3·3	15	4·5	12	5·2	13	3·9	13	2·8	12	2·4	10	2·9	11	2·7	14	3·1	12	3·3	12	4·7	10	4·8	3·9
18	08	3·7	10	4·5	10	2·9	08	2·0	14	2·0	12	4·4	13	2·7	12	1·1	11	2·4	10	2·6	11	1·9	14	1·8	12	3·1	12	2·8	10	4·3	3·1
19	08	4·1	10	3·9	10	2·7	08	1·9	14	1·1	12	4·4	14	2·2	12	1·1	11	1·8	12	2·6	11	2·1	14	2·4	13	2·2	12	2·8	09	3·9	2·9
20	08	3·8	10	3·5	10	3·0	08	1·6	18	1·0	12	4·6	14	1·8	12	1·1	11	2·1	12	2·5	11	2·3	13	3·0	12	2·6	12	3·6	08	3·6	2·9
21	10	2·1	10	3·9	10	2·1	08	1·4	14	3·0	12	4·8	14	3·1	12	0·7	11	2·2	12	1·2	11	2·0	13	2·6	12	2·5	12	3·8	07	5·9	3·1
22	10	2·3	10	3·3	10	3·0	08	1·3	13	3·3	12	5·6	12	3·1	12	1·0	11	1·1	12	1·9	11	2·0	13	2·7	12	2·2	12	3·3	08	4·7	2·9
23	10	2·3	09	3·3	11	2·1	08	1·1	13	1·3	12	3·3	14	3·9	14	1·5	11	2·2	12	1·9	11	2·0	13	3·3	12	2·5	10	3·3	10	3·0	2·8

Table XIII.—Wind Frequency (Number of Observations), May, 1949

Hour	Force (0–12)			Direction															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	1	30	...	...	...	1	7	12	9	1	1	...	...	...	...	...	...	...
9	...	5	26	...	...	1	4	8	10	6	1	1	...	...	...	...	...	...	...
15	...	10	21	...	...	1	3	11	6	9	1	...	...	...	...	...	...	...	...
21	...	3	28	...	...	...	1	10	8	10	2	...	...	...	...	...	...	...	...
Totals	...		...	...	...	2	9	36	36	34	5	2	...	...	...	...	...	...	...

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, May, 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	...	...	...	...	0·1	...	...	...	...	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	0·1	...	...	...	...	...	0·1	...	...	...	...	0·3	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
3	0·3	...	...	...	...	...	...	...	...	...	0·2	...	...	0·1	...	...	0·7	...	...	2·4	...	...	...	...	...	...	...	...	...	...	...
4	0·2	...	...	...	...	...	0·2	...	...	...	...	...	0·2	...	...	...	0·2	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...
5	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	0·2	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	0·3	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	0·7	...	...	...	...	0·6	...	0.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	1·4	...	1·6	...	...	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	0·1	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	0·5	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...
14	...	...	...	...	...	0·1	1·1	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	0·8	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
16	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	0·5	1·0	...	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	3·5
18	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5
19	...	...	...	...	...	0·2	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·7
21	...	...	...	...	0·2	...	...	...	...	0·2	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5
22	...	...	...	...	0.2	...	...	...	...	...	...	0·7	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	2·3
23	...	...	...	...	...	...	...	...	...	...	0·9	0·2	1·0	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	0·8
24	...	...	...	...	...	...	...	...	0·1	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for May, 1949

Day / Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	...	...	...	1·2	...	...	...	0·1	...	3·2	...	0·7	...	...	1·0	...	...	...	...	2·4	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	0·6	0·1	...	...	0·1	...	0·2	...	1·0	...	...	0·5	...	...	0.2	...	...	...	...	...	...	...	0·2	...	...	...
3	...	...	...	...	...	0·8	...	...	...	0·4	0·2	0·3	...	...	...	...	0·3	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	0·2	0·2		...	...	...	0·1	0·5	...	...	...	2·0	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	1·0	0·5	...	0·3	...	0·2	...	...	...	...	...	...	...	...	...
6	0·1	...	...	...	0·2	0·1	...	...	1·1	...	...	...	...	...	...	...	0·3	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	0·9	...	...	0·4	...	...	0·4	0·7	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...
8	...	...	...	...	0·3	0·6	...	...	0·6	...	...	...	0·6	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	0·3	0·2	0·8	1·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...
11	...	...	...	...	...	1·4	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...
Noon	...	...	...	...	...	1·0	0.5	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	0·6	1·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	...	...	...	...	...	...	...	1·1
14	...	...	...	...	...	0·8	2·5	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	0·6
15	...	...	...	...	...	0·1	0·8	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·6
16	...	...	...	...	...	0·4	1·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	0·2
17	...	...	...	...	...	0·1	0·9	...	0·4	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6
18	...	...	...	...	...	...	0·6	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·8
19	...	...	...	...	...	...	0·6	...	1·0	...	...	...	...	...	...	...	1·6	...	...	...	...	...	...	0·8	...	...	...	...	...	...	8·2
20	...	...	...	...	...	0·2	0·7	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	2·7
21	...	...	...	...	0·6	...	...	...	1·1	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2
22	...	...	...	...	...	...	...	...	0.5	...	...	0·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3
23	...	...	...	...	...	0·1	0·2	...	0·7	...	...	0·4	...	...	...	...	...	...	0·3	...	0·2	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	0·3	...	1·5	...	0·5	...	...	1·4	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, May, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	1·07	27·3	...	7
B. River	Pierre Fonds ...	...	0·52	13·2	4·43	2
	La Ferme ...	350	0·04	1·0	3·30	3
	Richelieu ...	...	2·30	58·4	...	3
	Mon Repos (Palmyre)	...	0·00	0·0	...	...
	Médine ...	..	0·13	3·3	...	1
	La Meque ..	..	0·08	2·0	...	3
	Albion ..	...	0·08	2·0	...	1
	Beaux Songes ...	...	...	...	...	...
	Clarens	...	...	...	...	...
	Mare-Longue ...	...	4·90	124·5	...	20
	Mon Désert ...	...	...	...	...	...
P/mousses	Botanical Gardens	325	0·97	24·7	4·57	13
	Solitude ...	175	0·85	21·6	3·62	3
	La Nicolière ...	...	2·60	66·0	9·63	19
	The Observatory	179	1·79	45·4	3·92	16
	California ..	...	2·32	58·9	...	...
Rivière du Rempart	St. Antoine ...	50	0·87	22·1	4.41	...
	Bel Mont ...	50	0·23	5·8	4·27	...
	Poudre d'Or ...	20	0·34	8·6	4·22	
	Mon Loisir ..	300	0.65	16·5	5·93	10
	Forbach ...	...	0·75	19.1	4·63	6
	Couroupa ...	...	0·42	10·6	7·06	3
	Labourdonnais	290	0·55	14·0	4·90	4
	Beau Séjour ...	300	0·61	15·5	6·13	5
	Mont Piton ...	680	1·18	30·0	5·64	5
	Ravensworth ...	...	3·57	90·4	...	8
	Mon Choix ...	700	0·74	18·8	5·18	4
	Antoinette ...	640	2·49	63·2	6·13	15
	Mon Songe ...	620	2·07	52·6	6·29	10
Moka	Bonne Veine ...	400	7·22	183·4	10·27	21
	Le Réduit ...	1,000	1·53	38·9	3·60	16
	Alma ...	1,460	5·57	141·5	10·15	21
	Mon Désert ...	1,450	2·95	74·9	...	12
	Hermitage ...	...	3·28	83·3	9·65	13
	Côte D'Or .	...	2·80	71·1	...	11
	Béga ...	...	0·59	15·0	...	7
	Mon Rêve ...	...	1·61	40·9	...	12
	Mont Pévril ..	...	1·86	47·2	...	12
	Minissy ...	1,150	1·90	48.3	5·30	11
Plaines Wilhems	Curepipe Gardens	1,840	6·64	168·7	9·58	22
	Aerological Station ..	1,393	3·24	82·2	7·75	22
	Mare-aux-Vacoas (G.E.)	1,850	6·81	173·0	13·23	27
	Mare-aux-Vacoas (Arn.)	1,830	7·45	189·2	12·74	27
	La Marie Filter Beds	1,700	4·58	116·3	8·48	20
	Réunion ...	1,420	2·82	71·6	6·46	13
	Phœnix ...	...	1·58	40·1	...	5
	Quatre Bornes...	...	0·46	11·7	...	5
	Bagatelle ..	1,250	2·69	68·3	5·31	16
	Pétrin ...	...	8·23	209·0	...	26
	Henrietta ..	...	1·39	35·3	...	13
	Tamarin-Falls ...	...	1·90	48·3	...	12
	Tamarin ...	...	0·10	2·5	...	1
	Moon ...	..	0·71	18·0	...	10

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches	Number of days
	La Pipe and Midlands Dam	...	11·10	281·9	...	23
	Highlands ...	1,300	3·34	84.8	6·11	16
	Trianon ...	950	1·03	26·2	4·00	9
	Bassin ...	..	0·29	7.4	4·80	5
	Ebène ...	630	1·33	33·8	...	12
Flacq	Mare Sèche ..	20	...	...	5·52	...
	Australia ...	...	0·87	22·1	...	...
	Union Régnard S.E.	600	2·69	68·3	7·66	19
	Constance La Gaieté	100	2·19	55·6	5·93	11
	Belle Vue (Allendy)	900	2·15	54·6	7·62	9
	Sans Souci ...	20	5·77	146·6	13·53	21
	Beau Champ G.R.S.E.	400	1·66	42·2	5·79	20
	Olivia ...	...	3·01	76·5	10·30	18
	Rich Fund ...	...	3·31	84·1	...	17
	Trois Ilots ...	...	1·42	36·1	13·65	13
	Belle Rive ...	400	3·75	95·3	14·83	19
G. Port	Rose Belle ...	850	5·63	143·0	14·93	26
	Union Park ...	...	6·71	170·4	...	26
	New Grove ...	650	3·65	92·7	...	12
	Deux Bras ...	...	4·60	116·8	...	6
	Astroea	...	5·46	138·7	...	24
	Mon Trésor ...	...	3·16	80·3	...	16
	Union Vale ...	...	1·46	37·1		13
	Beau Vallon...	..	2·27	57·7	...	11
	Mon Désert Carié	75	1·29	32·8	7·10	11
	Ste. Hélène ...	...	2·45	62·2	..	9
	Ferney ...	20	2·30	58·4	9·45	14
	Sauve Terre...	...	1·17	29.7	...	6
Savanne	Tivoli ...	1,300	5·61	142·5	13·67	22
	La Flora ...	1,050	6·13	155·7	14·06	21
	Riche Bois ...	650	3·99	101·3	8·92	19
	Britannia ...	700	4·60	116·8	10·55	21
	Terracine ...	...	2·62	66.5	...	18
	Savannah ...	200	1.97	50·0	7·87	15
	St. Aubin ...	300	1·76	44.7	6·75	10
	St. Avold ...	900	4·52	114.8	11·59	23
	Colmar ...	400	4·77	121·2	8·50	20
	Combo ...	...	4·49	114.0		20
	Union S.E. ..	...	2·85	72·4	7·17	13
	Fontenelle ..	320	3·84	97·5	7·24	17
	Choisy ...	...	...	..	7·11	...
	Beau Bois ...	...	4·34	84·5	...	19
	Bel Air ...	...	3·10	78·7	6·74	...
	St. Félix ...	...	3·65	92·7	...	...
	Bel Ombre ...	40	1·40	35·6	6·11	...
	Beau Champ B. du Cap ...	...	1·63	41·4	5·83	...
	Frédérica ...	...	1·88	47·8	6·84	...
	Ste. Marie ...	...	2·29	58·2	...	...
	Beau Climat...	...	7·43	188·7	...	19
St. Brandon	Met. Station...	...	4·26	108·2	...	18
Agalega	Met. Station...	...	4·03	102·4	...	20
Rodrigues	Oyster Bay ...	...	3·17	80·5	...	10
Chagos-Archipelago	Salomon Islands (Boddam).	...	4·06	103·1	...	7

Table XVI.—Observations of Pilot Ballons, month of May, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.02	083	15	097	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.50	090	12	074	07	105	04	097	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	07.55	082	17	073	15	128	13	137	21	112	04	...	...	...	...	...	...	...	...	...	...	...	...
4	09.05	130	07	137	09	137	09	090	07	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08.35	110	16	124	15	121	19	152	10	134	15	137	10	139	14	...	...	...	...	...	...	...	...
6	07.55	128	22	125	21	124	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	09.23	122	18	104	20	112	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	07.50	119	29	118	39	119	08	114	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	09.00	107	23	089	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	08.00	090	26	093	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	08.36	086	25	082	30	080	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	09.05	096	24	083	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	09.05	092	18	094	23	092	18	052	11	085	11	...	...	...	...	...	...	...	...	...	...	...	...
14	08.49	090	21	096	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	08.49	078	14	076	15	070	13	063	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	09.01	106	14	116	14	116	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	09.25	109	17	105	38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	08.44	104	21	100	25	098	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	07.48	112	21	096	30	095	31	116	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	08.55	084	17	088	14	088	09	099	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	09.00	129	08	119	10	151	11	172	10	172	06	...	...	...	...	...	...	...	...	...	...	...	...
22	09.25	150	13	106	09	088	07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.15	142	21	147	24	158	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	09.47	180	08	193	28	190	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	09.00	159	06	146	10	140	11	149	12	115	06	...	...	...	...	...	...	...	...	...	...	...	...
26	08.32	121	11	124	13	117	06	126	13	092	09	...	...	...	...	...	...	...	...	...	...	...	...
27	08.50	115	11	114	14	119	10	126	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08.52	124	09	134	08	274	13	309	12	312	27	313	12	287	16	269	15	237	10	...	...	...	...
29	08.20	150	09	177	09	214	04	306	12	301	21	...	...	...	...	...	...	...	...	...	...	...	...
30	08.55	124	15	144	20	154	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	07.38	126	21	113	20	126	06	116	04	165	10	274	26	...	...	...	...	...	...	...	...	...	...

C.1

VOL. XXXV PART VI

LIBRARY
AUG 17 1953
WEATHER BUR

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12s·6 E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

JUNE, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, JULY 1952. 3344/7/52—208

Table I.—Results of Magnetical Observations taken during the month of June, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
June						
1	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	—	.22344	.30331	—	44	16
12	—	312	338	—	106	13
13	—	297	340	—	63	20
14	—	—	340	—	—	19
15	—	—	337	—	—	12
16	15°30′2	341	332	4′6	31	14
17	29·4	342	331	7·0	35	16
18	29·6	322	332	7·4	32	16
19	29·9	325	335	3·8	36	10
20	29·8	328	332	5·6	38	26
21	29·9	324	333	7·0	23	14
22	29·5	333	333	3·8	66	17
23	29·4	326	333	3·4	46	17
24	29·4	334	334	5·8	33	16
25	29·4	324	334	4·0	59	20
26	29·3	330	330	3·8	37	20
27	29·4	329	331	3·4	31	20
28	29·4	327	330	4·7	42	25
29	29·6	320	332	4·0	38	20
30	29·8	323	333	4·2	55	14
31	—	—	—	—	—	—
Mean	° ′ 15 29·60	.22327	.30334	′ 4·83	45·3	7·2

Magnetic Disturbances—June, 1949

Gas plant under repairs. No Register from 1st to 10th.

12d. Moderately disturbed.

16d. Slightly disturbed.

18d. Slightly disturbed.

22d. Slightly disturbed.

25d. Slightly disturbed.

Quiet trace till the end of the month.

T= ·37665 : Mean Dip= 53°38′·73 : X= ·21525 : Y= −·059642 : Z= ·30334

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of June, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
7 9 32	15 31·63	2 9 25	·22329	7 9 40	53 38·13	.30338
14 9 21	15 32·50	7 9 12	·22317	14 9 30	53 39·25	.30342
21 9 43	15 31·87	14 9 52	·22324	21 9 54	53 37·50	.30337
28 9 09	15 31·75	17 9 36	·22354	28 9 18	53 38·63	.30336
		21 9 22	·22332			
		28 9 42	·22349			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

JUNE 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′		
Midnight	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	—	—	30·0	—	—	—	31·0	Midnight
1h										—	—	30·2	—	—	—	30·2	1h
2										—	—	30·0	—	—	—	30·0	2
3										—	—	—	—	—	—	30·0	3
4										—	—	—	—	—	—	30·0	4
5										—	—	—	—	—	—	29·9	5
6										—	—	—	—	—	—	29·8	6
7										—	—	—	—	—	—	29·6	7
8										—	—	—	—	—	—	30·0	8
9										—	30·0	—	—	—	—	31·2	9
10										—	30·2	—	—	—	—	32.0	10
11										—	30·0	—	—	—	—	31·6	11
Noon										—	30·4	—	—	—	32·0	32·0	Noon
13h										29·4	31·2	—	—	—	30·4	30·4	13h
14										28·0	30·0	—	—	—	28·4	29·8	14
15										27 2	29·0	—	—	—	28·0	29·0	15
16										27·6	28·0	—	—	—	27·6	27·4	16
17										28·6	28·0	—	—	—	29·0	28·8	17
18										30·2	29·8	—	—	—	30·0	30·2	18
19										30.4	30·0	—	—	—	30·6	30·6	19
20										30·6	30·0	—	—	—	30·8	30·8	20
21										30·2	30·0	—	—	—	31·2	31·0	21
22										30·2	30 6	—	—	—	30·4	30·8	22
23										30·0	30·2	—	—	—	30·6	30·2	23

JUNE 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′		′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	30·0	30·0	31·0	30·8	30·3	29·8	30 4	30·0	30·0	30·2	30·0	29·2	28·6	30·0	—	30·1	Midnight
1h	29·8	30·0	31·2	30·4	30·4	29 6	30·2	29·8	30·2	30·0	29·8	28·0	28·2	29·8		29·8	1h
2	29·6	30·2	31·0	30·6	30·4	29 8	30·2	30·0	30·0	29·8	29·2	28·6	29·4	29·7		29·9	2
3	29·4	29·0	31·0	30·8	30·5	29·9	30·1	30·0	29·8	29·7	29·8	29·2	29·6	29·6	—	29·9	3
4	28·6	29·4	30·6	30·2	30·2	30·0	30·0	29·9	29·7	29·4	30·0	29·0	29·5	29·4	—	29·7	4
5	28·8	29·6	30·4	30·0	30·6	30·0	29·8	29·8	29·2	29·6	27·6	27·4	29·2	28·2	—	29·3	5
6	29·2	29 8	30·0	29 8	30·2	30·0	29·7	29·4	28·0	29·5	28·0	27·6	28·4	28·6	—	29·2	6
7	29·0	29·9	29·6	29·4	29·8	29·6	28·0	28·0	27·0	27·6	30·0	29 6	28·8	29 9	—	29·1	7
8	29·2	30·0	29·4	29·8	30·0	29·2	27 8	28·2	27·6	26·4	30·8	31·2	30·4	31·4	—	29·4	8
9	30·0	31·4	29·8	30·4	30·8	30·0	29·2	30·0	28·8	28·0	30·0	32·0	31·6	31·6	—	30·3	9
10	31·0	32·4	30·4	31·6	32·4	31·2	30·0	31·6	30 8	30 0	29·8	31·4	30·4	31·4	—	31·1	10
11	32 4	32·0	30·2	30·4	32·4	30·4	29·8	31·8	31·0	30·0	29·7	29·4	29·6	30·6	—	30·8	11
Noon	31·8	30·0	30·0	30·0	31·6	29·8	30·8	31·2	30·4	29·4	27·8	28·8	28·0	28·8	—	30·0	Noon
13h	29·4	28·2	29·4	28·0	30·0	29·4	30 0	29·6	30·0	29·6	27·4	27.4	27·6	27·4	—	28·9	13
14	27·6	26·0	27·4	27·4	28·0	28·0	28·0	28·0	28·0	29 4	27·6	27·3	28·0	27·6	—	27 9	14
15	25·4	25·0	27·6	26·0	27·0	27·4	27.4	26·4	27·0	27·6	29·0	29·4	28·8	28·6	—	27·4	15
16	25·8	27·6	27·7	27·6	25·4	27·6	27·0	26·0	27·2	27·0	30·2	30·2	30·2	30·4	—	27·8	16
17	27·6	27·6	28·4	28·4	27·6	28·6	28 0	27·6	28·6	28·8	30·4	30·2	30·4	30·4	—	28·8	17
18	29 2	29·0	30·0	29·6	29·4	29·4	29·6	29·6	30 0	30·2	30·7	30·4	30 6	30·6	—	29·9	18
19	30 0	29·6	30·2	30·4	29·8	29·6	30·0	30·0	30·6	30·0	30 2	30·6	31·0	30·4	—	30·2	19
20	30·4	30·4	30·6	30·6	30·4	29·7	30·2	30·0	30·8	30·4	29·2	30·0	30·2	30·8	—	30·3	20
21	30·4	30 6	30·8	30·8	30·6	29·3	30·1	29·8	30 8	30 8	29·0	29·9	30·4	30·0	—	30·3	21
22	30·2	31·0	30·8	30·6	30·4	30·0	30·0	29·4	30·9	30·4	29·6	29·7	30 4	29·8	—	30·3	22
23	30·2	31·0	30·7	30·5	30·0	30·0	30·0	29·4	30·0	30·2	29·7	29 6	29·8	29·7	—	30·1	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JUNE 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	—	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	—	338	321	280	—	—	330	Midnight
1	—									—	339	322	277	—	—	332	1
2	—									—	340	324	282	—	—	333	2
3	—									—	343	327	283	—	—	334	3
4	—									—	346	330	288	—	—	339	4
5	—									—	347	331	298	—	—	340	5
6	—									—	350	335	284	—	—	341	6
7	—									—	355	337	290	—	—	350	7
8	—									—	359	351	302	—	—	355	8
9	—									—	362	356	311	—	—	361	9
10	—									—	360	350	320	328	—	352	10
11	—									—	360	338	329	327	—	350	11
Noon	337									—	359	340	340	330	337	349	Noon
13	328									354	357	339	324	321	329	341	13
14	327									348	350	329	317	318	326	333	14
15	320									352	341	310	300	310	323	332	15
16	308									349	340	300	290	308	321	338	16
17	309									344	341	280	288	—	322	340	17
18	310									340	342	250	286	—	326	337	18
19	311									338	339	252	287	—	339	336	19
20	311									336	330	254	288	—	340	340	20
21	312									337	322	270	285	—	338	338	21
22	311									338	318	277	287	—	327	340	22
23	310									339	320	275	290	—	332	340	23

JUNE 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	341	333	311	319	320	329	304	327	324	314	325	319	314	297	—	319	Midnight
1h	342	330	315	320	317	329	310	328	329	319	324	318	313	304	—	321	1h
2	340	324	317	320	318	333	313	327	323	319	328	320	319	310	—	322	2
3	350	330	318	321	320	336	318	328	328	320	324	325	329	312	—	325	3
4	351	327	325	322	319	338	319	329	330	321	320	329	330	317	—	327	4
5	352	322	329	325	320	340	322	330	327	325	325	330	328	318	—	328	5
6	353	329	330	329	321	342	326	331	336	329	329	330	329	320	—	330	6
7	354	337	333	336	327	350	331	334	340	336	334	339	334	330	—	336	7
8	359	339	334	340	329	360	346	339	347	349	342	342	332	339	—	343	8
9	360	339	337	339	330	364	350	344	352	342	350	343	331	340	—	345	9
10	358	335	339	335	332	363	347	350	353	339	337	352	336	340	—	344	10
11	359	339	346	340	330	362	350	352	344	350	341	342	335	342	—	345	11
Noon	347	337	340	342	321	361	349	354	343	351	350	349	332	352	—	345	Noon
13	332	320	339	350	319	353	332	348	340	343	342	337	320	348	—	338	13h
14	331	314	330	348	317	337	325	336	332	339	340	325	324	337	—	331	14
15	330	310	320	340	310	320	317	328	310	332	333	324	320	325	—	322	15
16	329	307	310	322	318	318	310	329	296	324	322	319	319	313	—	317	16
17	335	310	315	318	321	326	311	330	294	319	320	315	317	309	—	316	17
18	340	314	319	312	327	319	318	331	299	317	321	318	311	311	—	315	18
19	339	310	313	318	330	310	320	331	304	318	319	312	310	313	—	315	19
20	334	311	318	320	331	298	322	330	308	323	319	310	304	314	—	314	20
21	331	307	315	319	333	299	324	329	306	327	320	313	298	319	—	314	21
22	329	310	314	320	331	304	325	322	305	324	321	317	303	319	—	315	22
23	325	309	317	324	330	310	326	321	307	323	321	318	299	318	—	315	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JUNE 1949

+ ·30000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	Gas Plant out of order	—	333	335	344	344	340	337	Midnight
1h										—	332	334	344	343	338	337	1h
2										—	332	333	343	342	337	337	2
3										—	332	333	341	340	337	337	3
4										—	331	333	340	340	335	335	4
5										—	331	333	338	340	336	334	5
6										—	332	333	340	340	336	334	6
7										—	330	332	338	339	334	333	7
8										—	330	332	339	336	337	334	8
9										—	333	337	340	344	341	338	9
10										—	333	339	340	350	343	337	10
11										—	331	340	340	347	342	334	11
Noon										—	330	337	337	344	340	330	Noon
13h										-	328	337	333	342	337	326	13h
14										327	326	337	327	335	334	325	14
15										324	323	337	332	332	331	324	15
16										324	323	335	336	331	331	324	16
17										330	325	339	340	336	333	328	17
18										334	331	342	343	339	338	331	18
19										335	334	344	344	340	337	332	19
20										336	336	344	346	340	338	333	20
21										335	338	345	347	340	338	334	21
22										335	339	343	346	340	338	334	22
23										334	338	343	346	340	338	334	23

JUNE 1949—*continued*

+ ·30000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	335	333	338	337	334	333	336	334	335	335	333	332	333	337	—	336	Midnight
1h	335	333	338	337	335	333	334	334	333	334	332	331	333	336	—	335	1h
2	334	333	337	337	336	333	335	334	332	333	332	331	332	335	—	335	2
3	333	333	336	337	336	333	335	334	332	333	331	330	331	334	—	334	3
4	333	333	336	337	336	334	335	334	332	333	331	330	330	333	—	334	4
5	333	334	334	335	336	334	336	336	333	334	331	330	330	332	—	334	5
6	332	334	334	335	335	334	336	336	333	334	330	330	330	332	—	334	6
7	331	334	332	333	335	332	334	334	330	331	332	330	330	330	—	333	7
8	332	335	333	334	336	332	335	336	333	332	334	330	332	330	—	334	8
9	333	334	334	336	334	335	336	338	339	334	336	334	337	333	—	336	9
10	335	333	336	336	336	335	337	339	340	338	337	337	340	334	—	338	10
11	334	328	336	330	333	333	336	337	340	330	335	339	339	333	—	336	11
Noon	330	325	333	322	330	329	333	335	337	322	332	340	335	333	—	333	Noon
13h	324	322	332	314	325	323	328	327	327	320	324	325	326	331	—	328	13h
14	322	322	329	312	322	323	322	323	320	319	317	320	320	323	—	324	14
15	319	323	329	318	324	327	322	324	322	318	319	315	321	324	—	324	15
16	322	327	330	325	324	330	320	330	328	320	322	316	325	328	—	326	16
17	330	332	333	333	330	336	326	334	337	329	330	325	329	332	—	332	17
18	332	335	337	337	333	338	332	336	340	332	333	331	334	334	—	335	18
19	332	336	337	338	335	339	334	336	340	333	333	333	335	334	—	336	19
20	332	338	338	338	335	339	335	336	340	333	335	337	336	336	—	337	20
21	332	338	338	337	335	340	335	334	340	333	336	336	336	337	—	338	21
22	332	338	339	335	335	338	335	334	338	333	334	334	337	336	—	337	22
23	332	338	339	335	334	337	335	334	337	333	333	334	338	336		337	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of June, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
JUNE	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	969·6	19·6	1·2	17·7	89	20·3	90	5·4	6	17·9	19·8	21·4	18·3	21·5	17·6	3·9	0·5	5	9·2	84
2	967·2	20·2	0·8	18·9	92	21·8	70	6·7	8	18·2	19·2	20·1	19·2	21·5	18·0	3·5	15·9	135	—	—
3	965·1	21·1	0·2	20·8	98	24·6	340	2·7	8	19·2	20·6	23·6	20·5	23·5	19·2	4·3	32·1	175	3·4	37
4	968·3	23·4	2·0	20·3	83	23·8	360	0·9	6	19·7	23·0	23·5	20·2	24·5	19·2	5·3	5·1	35	8·8	81
5	971·0	23·1	2·2	19·7	81	23·0	70	5·4	4	19·6	22·6	24·5	20·5	25·0	9·0	6·0	0·2	5	10·4	96
6	970·8	23·1	1·7	20·5	85	24·1	100	1·8	6	19·3	22·9	22·5	20·4	25·2	19·0	6·2	9·2	55	2·3	22
7	970·3	23·7	2·8	19·3	77	22·4	Calm	Calm	4	18·7	22·8	23·9	19·5	24·4	18·0	6·4	0·0	0	10·5	97
8	970·9	21·9	2·1	18·6	82	21·4	110	2·2	5	18·6	21·5	22·4	19·0	23·3	18·0	5·3	2.6	20	9·4	87
9	971·8	21·1	2·9	16·4	75	18·7	90	5.4	7	18·0	20·5	20·4	18·2	22·2	17·6	4·6	11·9	100	8·6	79
10	971·4	20·2	4·0	13·2	64	15·2	120	5·4	1	17·2	19·5	20·9	17·8	21·2	16·2	5·0	1·9	10	5·6	52
11	970·4	19·9	0·9	18·5	92	21·3	90	4·9	6	17·0	19·4	21·0	19·6	21·6	16·7	4·9	26·4	145	4·4	41
12	972·6	19·8	0·6	18·9	95	21·8	110	2·2	6	18·8	19·3	20·8	19·2	21·6	18·4	3·2	19·8	250	1·3	12
13	973·4	19·8	3·1	14·5	71	16·5	105	6·7	2	17·1	19·2	20·8	16·4	21·4	16·3	5·1	0·0	0	10·2	94
14	972·8	20·9	4·3	13·5	63	15·5	90	3·6	4	15·2	20·0	20·8	16·3	21·6	14·8	6·8	1.0	5	9·3	86
15	972·2	20·0	3·8	13·4	66	15·4	110	8·9	2	16·2	19·3	20·5	17·3	21·3	16·0	5·3	3·7	35	10·1	93
16	972·1	20·2	1·8	17·3	84	19.8	110	8·1	6	17·0	19·6	20·5	18·4	21·6	16·9	4·7	1·5	20	4·6	43
17	971·2	19·7	1·3	17·6	87	20·1	70	4·9	6	17·7	19·3	20·9	18·5	21·5	17·4	4·1	1.4	5	2·9	27
18	970·4	20·2	2·2	16·6	80	18·9	Calm	Calm	6	18·3	20·0	21·3	17·6	23·0	17·9	5·1	0·0	0	5·2	48
19	970·2	21·4	2·5	17·3	78	19·8	110	1·3	7	17·2	20·8	21·0	18·3	22·2	16·8	5·4	0·2	5	6·2	57
20	971·7	19·5	1·4	17·2	87	19·6	110	7.2	8	17·7	19·0	19·4	17·5	19·9	17·6	2·3	31·7	185	0·6	6
21	973·1	18·8	0·9	17.3	92	19·8	120	8·9	8	17·3	18·4	17·9	16·8	20·3	17·0	3·3	49·9	320	2·6	24
22	973·3	18·7	0·8	17·4	92	19·9	155	11·2	7	16·7	18·3	18·9	17·2	19·5	16·7	2·8	37·5	295	6·6	61
23	974·1	17·5	1·0	15·8	90	17·9	140	8·9	8	16·9	17·3	19·9	17·5	19·8	16·9	2·9	36·9	400	8·1	75
24	973·7	17·7	1·2	15·7	88	17·8	100	9·4	8	17·3	·5	20·1	19·0	20·6	17·2	3·4	48·0	270	5·8	54
25	972·9	20·1	3·5	14·1	68	16·1	110	6·7	0	18·9	19·6	20·1	19·3	20·9	18·9	2·0	0·2	5	9·1	84
26	971·9	20·8	3·4	15·1	70	17·2	110	4·9	2	15·0	20·4	20·4	17·8	21·8	14·7	7·1	0·2	5	10·2	94
27	969·7	19·5	3·6	13·2	67	15·2	140	6·7	3	17·1	19·0	20·4	16·2	21·4	16·2	5·2	0·0	0	10·7	99
28	969·8	18·9	4·0	11·7	63	13·7	100	4·0	1	13·6	17·9	19·5	15·6	20·3	13·5	6·8	3·4	25	10·6	98
29	971·0	19·0	3·2	14·5	71	16·5	110	7·2	5	14·3	19·2	20·4	17·2	21·0	14·3	6·7	0·0	0	7·2	67
30	973·1	18·9	2·0	15·6	82	17·7	110	4·9	6	16·3	18·2	18·4	17·1	20·3	16·0	4·3	1·1	10	5·7	53
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean ...	971·2	20·3	2·2	16·7	80·3	19·2	—	5·2	4·9	17·5	19·8	20·9	18·2	21·8	17·1	4·7	342·3	2520	6·82	63·4
Average	971·2	19·9	2·2	16·2	79·4	18·4	—	4·6	5·6	—	—	—	—	21·9	15·9	6·0	102·2	1673	7·06	64·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Excess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	41·8 mbs.	Amount of Rain	—	251·6 mms.
Temperature of the Air	+	3·0 °C	Duration of Bright Sunshine	+	7·0 hrs
Vapour Pressure	—	— mbs	Mean of Maximum Temperatures	+	3·1 °C
Relative Humidity	—	— %	Mean of Minimum Temperatures	+	1·3 °C
Velocity of Wind	—	0·6 mps.	Absolute Maximum Temperature	+	2·5 °C
			Absolute Minimum Temperature	+	0·5 °C

Table VII.—Daily Results of Meteorological Observations made during the month of June, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation = 100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
JUNE	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1009·9	− 1·0	25·3	20·0	5·3	22·0	+ 0·7	3·1	17·0	− 0·6	74	− 5	19·4	18·2
2	1007·1	− 3·9	24·1	20·5	3·6	22·0	+ 0·8	2·0	18·9	+ 1·4	83	+ 4	21·8	18·7
3	1005·6	− 5·4	26·9	21·5	5·4	23·4	+ 2·2	1·6	21·0	+ 3·5	86	+ 7	24·9	19·9
4	1009·2	− 2·0	27·7	21·0	6·7	23·5	+ 2·4	1·7	20·9	+ 3·5	85	+ 6	24·7	19·5
5	1011·5	+ 0·2	26·9	20·2	6·7	23·3	+ 2·3	1·9	20·4	+ 3·1	84	+ 5	24·0	18·6
6	1010·7	− 0·7	27·3	20·2	7·1	23·0	+ 2·0	0·5	22·3	+ 5·2	96	+ 17	27·0	18·7
7	1010·6	− 0·9	27·3	18·3	9·0	21·8	+ 0·9	0·7	20·7	+ 3·7	94	+ 16	24·4	16·5
8	1011·6	0·0	26·0	17·3	8·7	21·5	+ 0·7	1·6	19·0	+ 2·1	86	+ 8	22·0	15·4
9	1012·6	+ 0·9	24·9	20·1	4·8	22·0	+ 1·2	3·1	17·0	+ 0·1	74	− 4	19·4	17·9
10	1012·1	+ 0·3	24·9	17·3	7·6	20·8	+ 0·1	2·9	14·2	+ 2·6	66	− 12	16·2	16·0
11	1011·5	− 0·4	25·1	16·0	9·1	21·3	+ 0·6	2·1	17·9	+ 1·1	81	+ 3	20·5	14·7
12	1013·8	+ 1·8	24·9	20·0	4·9	21·5	+ 0·9	1·7	18·8	+ 2·1	85	+ 7	21·7	18·2
13	1014·9	+ 2·8	24·2	16·7	7·5	21·1	+ 0·5	3·3	15·6	− 1·1	71	− 7	17·7	14·7
14	1013·7	+ 1·5	24·7	15·7	9·0	20·2	− 0·4	3·3	14·6	− 2·1	70	− 8	16·6	13·6
15	1013·4	+ 1·1	24·1	18·7	5·4	21·1	+ 0·6	3·2	15·8	− 0·8	72	− 6	17·9	17·2
16	1012·8	+ 0·4	24·6	20·0	4·6	21·3	+ 0·8	2·0	18·1	+ 1·5	82	+ 4	20·8	18·2
17	1012·0	− 0·5	25·1	20·5	4·6	21·9	+ 1·5	2.6	17·7	+ 1·3	77	− 1	20·3	18·5
18	1010·7	− 1·9	25·1	19·2	5·9	21·8	+ 1·4	2·4	18·0	+ 1·6	79	+ 1	20·6	17·6
19	1010·9	− 1·9	25·2	18·0	7·2	21·2	+ 0·9	2·0	18·0	+ 1·7	82	+ 4	20·6	16·1
20	1012·6	− 0·3	24·4	17·9	6·5	20·8	+ 0·5	1·8	17·9	+ 1·6	83	+ 5	20·5	16·0
21	1014·3	+ 1·3	23·3	19·0	4·3	20·6	+ 0·3	1·4	18·4	+ 2·1	88	+ 10	21·2	17·2
22	1014·8	+ 1·7	23·5	19·0	4·5	20·8	+ 0·6	1·9	17·7	+ 1·5	82	+ 4	20·3	17·3
23	1015·5	+ 1·3	23·1	18·7	4·4	21·0	+ 0·8	2·4	17·1	+ 0·9	78	0	19·5	16·8
24	1014·1	+ 0·8	23·7	19·9	3·8	21·5	+ 1·3	2·6	17·2	+ 1·0	77	− 1	19·6	18·0
25	1013·9	+ 0·5	23·9	17·8	6·1	21·1	+ 0·9	3·5	15·3	− 0·9	70	− 7	17·4	16·2
26	1012·3	− 1·2	24·8	16·0	8·8	20·5	+ 0·4	2·5	15·3	− 0·8	72	− 5	17·4	14·1
27	1010·6	− 2·9	24·1	18·2	5·9	20·9	+ 0·8	3·4	15·2	− 0·9	70	− 7	17·3	16·3
28	1010·5	− 3·1	24·4	14·0	10·4	19·3	− 0·8	3·1	13·9	− 2·2	71	− 6	15·9	12·0
29	1012·2	− 1·4	23·9	16·0	7·9	20·8	+ 0·7	3·4	15·1	− 1·0	70	− 7	17·2	14·2
30	1014·6	+ 0·9	24·3	15·8	8·5	20·6	+ 0·5	3·0	15·6	− 0·5	73	− 4	17·7	13·9
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	1012·0	− 0·4	24·9	18·4	6·5	21·4	+ 0·9	2·4	17·5	+ 1·0	78·7	+ 0.7	20·1	16·7
Average	1012·4	—	24·4	17·0	7·4	20·5	—	2·4	16·5	—	78·0	—	18·8	13·4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of June, 1949

On June 2nd a depression developed not far west of Mauritius. It moved south-south-west and on the 3rd was centred 200 miles south-south-west of Mauritius. Then it took a west-south-west and south-west course at considerable speed towards the south-south east of Madagascar. On the night of the 3rd-4th it recurved about 60 miles south-east of Fort Dauphin and moved south-east on the 5th and 6th. Considerable damage was caused in the Fort Dauphin Area.

It seems from the track and also from the appreciable and sharp fall of pressure at Fort Dauphin that this must be classed as a tropical cyclonic depression. Such an occurence in June is extremely rare and so is its formation in such a southerly latitude.

Mean pressure was somewhat below normal and was considerably below on the 2nd-3rd. Mean temperature was appreciably above normal, 0·9°C. Rainfall was 40% above the average and was well distributed. Sunshine was slightly below normal.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of June, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
JUNE	mins.	mms.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	0·6	25	2·7	8·3	75	4·1	+ 0·9	25·6	25·7	24·5	24·8
2	16·3	235	4·1	0·0	0	3·9	+ 0·6	25·6	25·6	24·5	24·8
3	8·6	125	3·6	5·3	49	2·8	− 0·5	25·6	25·6	24·3	24·7
4	2·3	30	2·1	7·8	72	2.6	− 0·7	25·6	25·7	24·4	25·2
5	0·2	10	3·3	10·2	94	2·8	− 0·5	25·6	25·7	24·4	25·2
6	0·1	10	2·8	4·2	38	1·6	− 1·7	25·6	25·7	24·5	25·3
7	0·0	—	1·9	9·1	83	2·2	− 1·1	25·6	25·6	24·6	25·3
8	0·1	5	2·4	9·7	89	2·6	− 0·8	25·6	25·5	24·6	25·4
9	8·9	140	4·0	10·2	94	3·5	+ 0·1	25·6	25·5	24·6	25·4
10	0·7	15	3·4	8·4	77	3·0	− 0·4	25·6	25·4	24·6	25·1
11	2·2	50	3·1	8·6	79	3·7	+ 0·3	25·6	25·5	24·5	24·7
12	7·4	200	3·4	6·0	55	4·3	+ 0·9	25·6	5·5	24·5	24·6
13	0·0	—	3·0	10·0	92	4·2	+ 0·8	25·6	25·6	24·3	24·6
14	0·1	5	3·9	9·0	83	3·0	− 0·5	25·6	25·5	24·7	24·5
15	2·4	120	3·9	10·3	94	3·8	+ 0·3	25·5	5·4	24·4	24·0
16	0·6	55	1.2	3·1	28	3·8	+ 0·3	25·5	25·3	23·9	23·8
17	0·0	—	2·8	2 8	26	3·5	0·0	25·5	25·3	23·7	23·9
18	0·0	—	3·4	4·9	45	2·4	− 1·1	25·5	25·3	23·7	24·0
19	0·0	—	3·2	5·2	48	1·8	− 1·8	25·5	25·1	23·7	24·4
20	3·5	100	2·2	1·6	15	3·8	+ 0·2	25·5	25·0	23·6	23·9
21	22·3	325	3·8	4·2	39	6·0	+ 2·4	25·5	25·1	23·6	23·9
22	6·7	145	2·7	8·5	78	5·4	+ 1·8	25·5	25·1	23·6	23·7
23	3·6	55	2·6	6·7	61	6·6	+ 3·0	25·5	25·0	23·6	23·8
24	3·9	50	5·0	8·5	78	6·8	+ 3·2	25·5	24·9	23·4	23·7
25	0·0	—	4·7	8·8	81	4·8	+ 1·1	25·5	24·8	23·3	23·5
26	0·0	—	3·0	10·2	94	3·1	− 0·6	25·5	25·0	23·3	23·5
27	0·0	—	4·3	10·4	95	3·5	− 0.2	25·5	24·9	23·5	23·4
28	0·2	15	3·4	10·5	96	3·3	− 0·4	25·5	25·1	23·4	23·3
29	0·0	—	3·9	1·2	11	4·1	+ 0·4	25·5	25·0	23·4	23·5
30	0·0	—	4·0	7·8	72	3·6	− 0·1	25·5	25·0	23·3	23·3
—	—	—	—	—	—	—	—	—	—		—
Mean	90·7 Sum	1715	3·3	7·05	64·7	3·69	+ 0·20	25·55	25·31	24·10	24·31
Average	64·9	1174	3·4	7·48	68·8	3·49	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of June, 1949

Element	*Highest*		*Date*		*Lowest*		*Date*	
Atmospheric Pressure	1016·6 mbs	at	09.00 hrs.	on 22nd	1004·1 mbs	at	05.00 hrs.	on 3rd
Temperature of the Air	27·7 °C	,,	15.30 hrs.	,, 4th	14·0 °C	,,	02.00 hrs.	,, 28th
Daily range of temperature of the Air ...	10·4 °C	,,	—	,, 28th	3·6 °C	,,	—	,, 2nd
Temperature ot the Dew Point	—		—	—	—	,,	—	,, —
Daily range of temperature of the Dew Point...	—		—	—	—	,,	—	,, —
Minimum on Grass	—		—	—	12·0 °C	,,	—	,, 28th
Relative Humidity	—		—	—	—	,,	—	,, —
Vapour Pressure	—		—	—	—	,,	—	,, —
Evaporation in 24 hours	5·0 mms	,,	—	,, 24th	1·2 mms	,,	—	,, 16th
Wind Velocity	9.4 m.p.s.	,,	12.00 hrs.	,, 24th	—	,,	—	—
Rainfall in 24 hours	24·8 mms ending		10.00 hrs.	,, 3rd	—	,,	—	—
Duration of sunshine	10·5 hrs.		—	,, 28th	0·0 hr.	,,	—	,, 2nd

Mean Day Temperature of Air 22·85°C Average 22·26°C Mean Night Temperature of Air 19·99°C Average 18·74°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39 9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunderstorm
8	6	4	2	—	—	—	—	—

Table VIII.—Barogram

JUNE 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	113	092	057	074	117	119	110	113	128	127	120	133	150	152	138	137	Midnight
1h	113	091	051	074	115	115	109	112	126	126	114	129	149	149	139	134	1h
2	109	083	049	074	114	112	104	109	126	122	110	128	149	146	132	129	2
3	103	077	047	073	111	110	101	107	121	119	109	127	149	141	131	127	3
4	101	075	043	073	110	109	103	107	121	120	107	127	149	137	130	128	4
5	098	073	041	072	110	109	104	108	121	121	107	129	145	135	129	128	5
6	100	073	047	073	112	111	106	109	127	124	109	130	149	141	129	129	6
7	105	072	051	084	115	113	111	113	129	129	111	135	152	143	131	131	7
8	109	081	053	091	123	116	113	119	131	131	114	141	159	148	135	134	8
9	112	083	063	094	129	120	121	125	140	132	121	147	161	153	142	141	9
10	109	079	062	097	128	116	117	128	141	132	122	149	162	149	142	141	10
11	102	081	059	095	121	111	112	120	135	129	120	143	158	146	140	135	11
Noon	094	074	053	092	115	105	107	113	130	124	113	141	152	141	131	130	Noon
13h	089	069	049	090	108	095	095	109	121	114	106	132	144	131	129	124	13h
14	087	061	045	087	105	092	092	106	115	109	101	129	138	124	127	115	14
15	087	058	047	087	105	089	089	102	114	108	101	129	135	121	123	117	15
16	090	055	049	091	106	089	089	107	114	109	103	130	133	120	126	117	16
17	091	057	053	094	108	093	094	112	117	109	109	133	138	123	128	119	17
18	092	059	055	097	111	100	100	114	121	112	111	141	141	126	129	121	18
19	095	065	061	106	116	108	105	123	124	113	119	143	149	130	134	128	19
20	099	066	069	113	123	109	111	129	128	118	125	149	151	133	139	129	20
21	101	066	072	116	123	111	114	131	129	121	129	152	154	137	143	130	21
22	101	065	077	119	123	113	117	132	132	122	131	152	157	139	144	130	22
23	100	063	077	119	121	112	117	129	128	127	132	151	154	139	141	129	23

JUNE 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	129	116	109	124	147	154	152	148	147	140	116	113	118	143	—	1012·5	Midnight
1h	129	111	109	123	146	151	149	144	142	139	112	111	114	144	—	1012·2	1h
2	123	109	108	117	139	148	141	136	135	132	109	109	111	141	—	1011·8	2
3	120	106	106	114	133	143	135	136	131	129	107	106	109	136	—	1011·6	3
4	116	107	100	112	129	143	140	131	132	128	099	107	109	135	—	1011·4	4
5	116	103	103	112	130	143	137	131	133	128	098	104	109	136	—	1011·4	5
6	118	104	108	118	131	149	144	132	137	128	099	101	110	141	—	1011·6	6
7	123	109	109	127	137	151	148	134	145	130	105	107	115	145	—	1012·0	7
8	131	111	111	129	147	155	151	146	149	133	110	109	121	150	—	1012·5	8
9	137	118	116	132	156	166	156	151	152	138	114	113	128	155	—	1013·1	9
10	131	120	115	132	154	163	159	153	151	137	116	111	130	154	—	1013·0	10
11	129	110	111	131	151	153	155	151	148	132	114	109	129	152	—	1012·6	11
Noon	121	107	109	120	143	151	150	148	143	129	110	103	124	150	—	1012.1	Noon
13h	111	099	101	114	133	142	145	136	134	114	101	094	115	147	—	1011·3	13h
14	108	093	098	112	131	135	139	132	129	109	093	091	113	141	—	1010·9	14
15	104	093	098	112	128	131	134	131	123	108	091	089	113	135	—	1010·7	15
16	108	093	099	121	131	132	134	132	125	109	092	090	115	135	—	1010·8	16
17	111	100	104	122	133	138	140	135	130	110	093	094	121	141	—	1011·2	17
18	112	104	109	129	145	142	143	140	131	110	099	095	127	146	—	1011·5	18
19	117	109	111	131	149	148	145	143	134	111	105	101	130	150	—	1012·0	19
20	120	112	116	136	150	151	149	147	143	114	110	109	136	153	—	1012·5	20
21	123	114	121	143	156	153	149	149	147	115	113	110	141	155	—	1012·7	21
22	122	114	123	149	160	154	149	150	149	117	115	115	146	155	—	1012·9	22
23	121	112	127	150	155	153	148	149	148	119	115	121	146	155	—	1012·9	23

Table IX.—*Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder*

JUNE 1949

Day / Hour Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	0	0	0	0	10	0	10	10	0	30	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10	15	5	0	—	1·7
8	35	0	0	0	60	10	60	55	5	55	5	25	60	25	60	25	15	0	25	0	0	10	5	5	60	60	60	60	60	30	—	14·5
9	60	0	0	50	60	5	60	60	50	60	10	10	60	35	60	40	5	0	0	0	5	50	0	10	60	60	60	60	60	60	—	17·5
10	40	0	5	60	60	10	60	60	60	60	10	10	60	60	60	55	30	30	30	0	10	55	45	0	60	60	60	60	55	60	—	20·4
11	45	0	5	60	60	30	60	60	35	60	40	20	60	60	60	55	50	60	50	0	40	45	60	50	60	60	60	60	30	45	—	23·0
Noon	60	0	5	55	60	35	60	60	60	60	45	0	60	60	60	50	10	45	20	0	35	40	60	50	60	60	60	60	40	10	—	21·3
13h	60	0	10	45	60	35	60	60	60	60	50	10	60	60	60	45	0	20	35	0	35	40	60	60	60	60	60	60	60	10	—	21·6
14	60	0	20	60	60	10	60	60	60	55	20	0	60	60	60	5	0	45	60	0	30	50	60	60	50	60	60	60	60	60	—	21·8
15	60	0	60	60	60	0	60	60	45	60	45	5	60	60	60	0	10	35	45	0	0	55	60	60	55	60	60	60	20	15	—	20·5
16	60	0	60	55	60	0	60	60	60	60	35	0	60	60	60	0	55	40	45	15	0	35	60	35	35	55	60	60	35	40	—	21·0
17	60	0	40	50	60	0	60	20	60	60	5	0	60	60	55	0	0	30	50	20	0	15	60	20	35	60	60	60	5	10	—	16·9
18	15	0	0	35	15	0	20	0	20	15	0	0	15	15	0	0	0	5	15	0	0	0	15	0	10	15	30	20	0	0	—	4·3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0.0

The Total Amount of Registered Sunshine was 204·5 hrs., and the Total Possible Sunshine was 327·2 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

JUNE 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	1	0	0	5	9	0	25	20	5	10	15	0	6	16	9	0	0	0	0	0	0	0	0	0	0	10	6	16	0	0	—	2·5
8	36	0	0	5	60	6	60	60	52	60	50	55	60	14	60	19	0	0	34	0	5	30	4	24	52	60	60	60	10	38	—	16·2
9	55	0	8	60	60	50	60	60	60	60	44	49	60	28	60	39	6	20	36	0	55	44	55	60	60	60	60	60	11	60	—	22·4
10	47	0	5	40	60	26	60	53	60	60	39	50	60	36	60	50	14	25	14	10	33	55	60	50	60	60	60	60	0	60	—	21·1
11	60	0	26	50	60	20	60	45	60	60	48	60	60	60	60	39	47	47	53	10	29	60	60	60	60	60	60	60	4	60	—	23·9
Noon	55	0	50	30	60	35	53	54	60	60	60	55	60	60	60	41	11	48	45	4	44	59	60	44	60	60	60	60	21	50	—	23·7
13h	48	0	41	43	60	21	54	60	60	60	40	40	60	60	60	0	33	39	19	0	35	60	0	55	49	60	60	60	4	36	—	20·3
14	60	0	41	45	60	0	9	60	60	46	50	34	60	60	60	0	14	6	0	15	45	60	0	60	45	60	60	60	0	55	—	18·8
15	45	0	58	60	60	1	46	60	60	60	56	20	60	60	60	0	23	25	2	35	11	60	31	60	60	60	60	60	14	45	—	20·8
16	38	0	55	60	60	29	60	60	60	10	48	1	60	60	55	0	21	25	37	4	0	38	60	60	51	55	60	60	9	40	—	19·6
17	49	0	30	60	50	60	58	52	60	10	60	1	46	60	57	0	0	55	55	17	0	44	60	37	31	60	60	60	0	20	—	19·0
18	2	0	5	11	12	5	1	0	15	10	1	0	7	25	15	0	0	0	16	0	0	0	10	0	0	6	20	16	0	0	—	3·0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0

The Total Amount of Registered Sunshine was 211·5 hrs. and the Total Possible Sunshine was 327.2 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

JUNE 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	20·1	—	20·9	—	22·2	—	22·1	—	20·8	—	21·2	—	19·6	—	19·4	—	Midnight
1h	20·1	—	20·9	—	22·0	—	22·0	—	20·7	—	20·9	—	19·3	—	19·1	—	1h
2	20·1	—	20·8	—	21·9		21·9	—	20·6	—	20·7	—	19·0	—	18·8	—	2
3	20·1	—	20·7	—	21·8	—	21·9	—	20·5	—	20·6	—	18·8	—	18·5	—	3
4	20·1	—	20·6	—	21·7	—	21·8	—	20·4	—	20·5	—	18·6	—	18·2	—	4
5	20·1	—	20·5	—	21·6	—	21·8	—	20·3	—	20·4	—	18·5	—	17·9	—	5
6	20·0	—	20·6	—	21·5	—	21·7	—	20·2	—	20·3	—	18·4	—	17·7	—	6
7	20·1	—	20·8	—	21·6	—	22·6	—	20·4	—	20·5	—	18·3	—	17·5	—	7
8	21·2	—	22·0	—	22·6	—	23·5	—	22·7	—	20·8	—	19·0	—	17·7	—	8
9	23·1	2·9	23·3	2·5	23·7	0·7	24·3	1·3	25·0	2·0	24·8	1·2	24·3	2·5	23·8	2·3	9
10	23·5	—	24·1	—	24·2	—	24·8	—	25·5	—	25·5	—	24·9	—	23·9	—	10
11	23·9	—	23·5	—	24·8	—	25·2	—	26·0	—	26·2	—	25·5	—	23·9	—	11
Noon	24·4	4·4	21·6	0·4	25·3	2·0	25·5	2·4	26·4	3·4	26·8	2·8	26·0	4·0	23·9	3·2	Noon
13h	25·0	—	21·8	—	25·6	—	25·9	—	26·4	—	26·9	—	27·3	—	24·3	—	13h
14	24·8	—	22·0	—	25·7	—	26·3	—	26·2	—	26·5	—	26·8	—	24·7	—	14
15	24·2	3·8	22·4	0·4	25·9	2·9	26·7	3·6	26·0	3·8	26·0	2·2	26·4	3·1	25·3	4·0	15
16	24·1	—	22·5	—	25·7	—	26·9	—	25·9	—	25·5	—	26·0	—	26·0	—	16
17	23·9	—	22·8	—	25·6	—	26·5	—	25·8	—	25·0	—	23·6	—	24·8	—	17
18	22·7	—	22·8	—	24·9	—	24·4	—	25·0	—	24·5	—	22·2	—	22·3	—	18
19	21·9	—	22·7	—	23·3	—	22·5	—	23·9	—	23·8	—	21·3	—	21·7	—	19
20	21·7	—	22·6	—	22·6	—	21·9	—	22·9	—	23·0	—	20·7	—	21·5	—	20
21	21·0	—	22·5	—	22·5	—	21·4	—	22·6	—	22·0	—	20·3	—	21·4	—	21
22	21·0	—	22·4	—	22·4	—	21·2	—	22·1	—	21·2	—	20·0	—	21·3	—	22
23	20·9	—	22·3	—	22·3	—	21·0	—	21·6	—	20·2	—	19·7	—	21·2	—	23

JUNE 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	21·0	—	19·9	—	19·1	1·1	20·8	1·4	20·3	1·6	18·7	1·7	20·0	2·0	20·5	2·0	Midnight
1h	20·8	—	19·5	—	19·5	1·2	20·6	1·3	20·0	2·1	18·7	1·7	19·5	1·6	20·5	1·9	1h
2	20·7	—	19·1	—	18·9	1·1	20·6	1·5	20·0	2·2	17·1	1·1	19·2	1·2	20·3	1·5	2
3	20·6	—	18·7	—	18·8	1·1	20·5	1·5	20·0	2·2	16·5	0·8	19·2	1·2	20·2	1·5	3
4	20·4	—	18·3	—	17·4	1·0	20·7	1·4	20·3	2·5	15·7	0·4	19·2	0·9	20·1	1·4	4
5	20·3	—	17·9	—	17·1	1·0	21·0	1·6	19·6	2·0	15·8	0·5	19·0	1·6	20·1	1·6	5
6	20·1	—	17·5	—	16·4	0·9	21·0	1·5	19·7	2·1	18·3	1·8	18·7	1·5	20·4	1·6	6
7	20·2	—	17·5	—	16·5	0·9	20·9	1·3	19·4	1·9	18·5	1·8	18·9	1·6	20·3	1·7	7
8	20·5	—	18·5	—	20·3	1·3	22·4	1·9	21·0	3·3	20·0	2·5	21·8	4·3	20·9	1·4	8
9	23·0	2·6	21·0	2·8	22·0	1·3	23·2	2·6	22·2	4·3	21·0	3·4	22·4	4·3	22·2	2·3	9
10	23·5	—	22·1	—	23·3	2·1	23·8	2·9	23·2	5·6	22·9	5·3	23·0	4·9	22·8	2·9	10
11	24·1	—	23·2	—	23·8	3·0	24·0	3·2	23·4	6·1	23·8	6·1	23·6	5·3	23·3	3·0	11
Noon	24·6	4·0	24·2	6·5	24·9	4·1	24·0	3·0	2·39	5·9	24·1	6·8	24·0	5·7	24·2	3·9	Noon
13h	24·9	—	24·9	—	25·1	3·5	24·0	3·2	24·1	5·7	24·7	6·9	24·1	5·6	24·0	4·0	13h
14	24·5	—	24·5	—	24·4	3·5	23·3	2·5	24·0	5·6	24·6	6·6	23·9	5·5	23·8	3·6	14
15	24·0	4·4	24·2	5·6	24·6	3·8	21·2	1·1	23·9	5·9	24·0	6·7	23·5	5·3	21·9	1·9	15
16	23·8	—	23·2	—	24·4	3·6	21·5	1·5	23·1	4·8	23·3	6·3	22·9	4·8	21·0	1·7	16
17	23·6	—	22·6	—	23·4	2·9	21·4	1·6	22·0	3·7	22·1	4·8	22·0	4·2	21·2	2·1	17
18	22·8	—	21·8	—	22·1	2·3	20·9	1·3	21·0	3·5	20·0	3·6	20·5	3·1	21·0	1·7	18
19	22·0	—	21·1	—	21·7	1·9	20·6	1·1	20·8	3·3	18·8	2·6	19·9	2·4	20·6	1·3	19
20	21·3	—	20·7	—	21·7	2·0	20·3	0·8	20·4	2·4	18·4	2·3	20·1	2·1	20·9	1·4	20
21	20·9	—	20·3	—	21·7	2·1	20·2	1·1	19·8	1·8	18·2	2·2	19·9	1·9	20·9	1·5	21
22	20·6	—	19·9	—	21·7	2·2	20·2	1·4	18·9	1·4	19.5	2·0	19·8	1·5	20·8	1·7	22
23	20·3	—	19·5	—	20·7	1·2	20·2	1·3	17·0	0·5	19·5	1·9	20·0	2·0	20·5	1·6	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

JUNE 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	20·4	1·5	20·4	1·9	19·4	1·2	19·0	1·0	20·4	1·4	20·4	2·1	19·6	1·2	20·3	0·7	Midnight
1h	20·7	1·7	20·5	1·6	19·3	1·2	19·0	1·1	20·4	1·4	19·6	1·3	19·6	1·2	20·8	1·3	1h
2	21·0	1·6	20·6	2·0	19·1	1·0	19·7	1·2	20·5	1·5	19·9	1·5	19·9	1·5	20·9	1·5	2
3	20·7	1·8	20·7	2·0	18·8	0·9	18·4	1·4	20·7	1·7	19·9	1·2	20·0	1·7	20·0	0·5	3
4	20·9	2·1	20·3	1·6	18·9	1·1	18·9	1·2	20·9	1·6	20·0	1·3	19·3	1·1	20·4	1·0	4
5	21·0	1·9	20·0	1·4	18·2	0·6	18·0	1·1	19·8	0·3	19·9	1·4	20·1	2·0	20·4	1·3	5
6	20·8	1·7	19·8	1·4	18·0	0·6	19·6	1·0	20·0	1·0	19·6	1·5	19·9	1·9	20·5	1·3	6
7	20·5	1·8	20·2	1·6	18·1	0·6	19·8	1·2	19·7	0·7	19·9	1·5	20·2	2·2	20·4	1·4	7
8	21·0	1·9	21·4	2·0	21·0	0·6	20·9	1·2	20·3	1·0	20·5	1·9	20·6	2·6	21·0	1·7	8
9	21·6	1·6	23·0	2·8	23·3	2·9	21·9	1·9	22·0	2·5	21·0	1·7	20·8	2·8	22·3	2·7	9
10	22·5	2·5	23·4	3·2	23·4	2·7	22·0	1·7	22·0	2·1	22·2	2·5	22·7	3·8	23·0	4·0	10
11	24·4	4·5	24·8	4·1	24·7	3·9	22·2	2·2	20·7	0.7	22·5	2·6	22·9	4·2	22·1	3·1	11
Noon	23·0	3·4	25·0	4·5	24·5	4·0	22·1	1·8	23·2	2·8	23·0	3·4	22·8	4·4	23·1	4·8	Noon
13h	24·6	4·8	25·0	4·4	24·7	4·0	22·0	1·7	22·7	2·3	23·0	3·3	22·9	4·5	23·3	4·4	13h
14	24·2	4·2	24·7	4·2	23·6	3·0	23·0	3·2	21·0	0·7	22·7	3·0	22·8	4·7	22·4	1·6	14
15	24·0	4·2	24·5	3·7	23·2	3·0	23·1	3·3	19·1	0·6	22·3	2·5	22·8	4·6	23·1	4·9	15
16	23·7	4·0	24·0	3·6	23·7	3·6	21·2	2·2	20·2	1·0	22·0	2·5	22·0	3·4	23·0	5·0	16
17	23·0	3·7	23·2	3·1	23·0	2·8	21·5	2·2	20·6	1·7	21·5	2·1	21·4	2·5	21·7	2·6	17
18	22·0	2·9	21·8	1·9	21·5	2·0	21·4	2·3	19·1	1·1	20·5	1·6	20·5	1·7	21·2	3·0	18
19	21·4	2·4	21·1	1·7	20·8	1·6	21·3	2·3	19·8	1·2	20·2	1·5	20·6	1·6	21·0	2·3	19
20	21·3	2·3	20·1	1·4	20·7	1·7	21·0	2·0	20·3	1·6	20·4	1·5	20·5	1·3	21·0	2·4	20
21	21·2	2·3	20·0	1·5	20·0	1·5	20·9	2·1	20·8	2·2	19·7	1·0	20·9	1·5	21·0	2·2	21
22	21·0	2·3	19·9	1·4	20·2	1·3	20·7	1·7	20·5	1·9	19·6	1·2	21·0	1·6	21·1	3·0	22
23	20·6	2·0	19·2	1·1	20·0	1·5	20·0	1·5	20·4	2·0	20·0	1·4	20·7	1·1	20·8	3·4	23

JUNE 1949—*continued*

Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	20·4	2·9	18·8	2·1	19·7	1·8	17·0	1·6	16·0	0·8	20·6	2·6	—	—	20·0	—	Midnight
1h	19·9	2.9	18·1	1·6	19·4	1·9	15·5	0·9	17·9	2·5	20·0	2·2	—	—	19·8	—	1h
2	20·7	3·6	17·0	1·5	19·3	2·0	14·0	1·0	17·8	2·3	19·9	2·1	—	—	19·6	—	2
3	20·5	3·1	16·9	1·4	19·7	2·3	15·6	1·0	18·0	2·7	19·9	2·2	—	—	19·6	—	3
4	19·9	3·2	16·0	1·1	19·9	2·3	17·2	0·9	18·4	2·8	19·8	2·3	—	—	19·5	—	4
5	19·5	2·9	16·3	1·3	19·5	2·4	17·3	0·8	18·7	2·8	19·6	2·0	—	—	19·3	—	5
6	19·9	3·3	17·4	1·4	19·3	2·4	17·5	1·1	18·8	2·9	19·3	1·7	—	—	19·4	—	6
7	20·5	3·5	17·9	0·9	19·6	2·6	17·4	1·0	19·0	2·6	19·5	2·1	—	—	19·6	—	7
8	21·0	4·0	21·0	2·1	21·2	3·5	18·9	2·1	21·2	3·5	21·1	3·1	—	—	20·9	—	8
9	22·3	5·1	22·6	3·1	22·7	4·8	21·0	4·1	22·1	4·0	22·4	4·0	—	—	22·6	—	9
10	23·1	4·7	23·6	4·1	23·2	5·3	22·1	5·1	22·5	4·4	22·4	4·4	—	—	23·3	—	10
11	23·3	3·5	23·8	4·5	23·9	6·0	22·8	5·1	23·0	4·9	23·4	4·8	—	—	23·8	—	11
Noon	23·7	5·0	24·7	5·1	24·0	6·1	23·1	5·8	23·6	4·7	23·8	5·3	—	—	24·1	—	Noon
13h	23·0	3·5	24·0	4·0	24·0	5·4	23·4	5·8	23·5	4·6	23·3	5·0	—	—	24·3	—	13h
14	22·7	3·9	24·3	4·6	24·0	5·5	23·0	5·9	23·2	4·5	23·6	4·9	—	—	24·0	—	14
15	23·0	4·8	24·2	4·7	23·8	5·1	23·0	5·5	23·2	4·7	23·3	4·9	—	—	23·8	—	15
16	22·7	4·3	23·3	3·8	23·0	5·0	22·3	5·1	22·5	4·4	22·5	4·4	—	—	23·4	—	16
17	21·6	3·1	22·7	3·3	22·0	4·0	21·2	4·5	21·9	3·8	21·8	4·0	—	—	22·8	—	17
18	20·8	2·8	20·9	1·9	20·3	2·6	19·0	2·9	21·2	3·2	20·5	3·2	—	—	21·6	—	18
19	20·9	2·9	20·0	1·8	19·8	2·3	19·1	3·0	20·9	2·9	19·3	2·6	—	—	21·1	—	19
20	20·7	3·3	19·3	1·5	18·9	1·8	19·2	3·3	20·9	2·9	19·0	2·3	—	—	20·8	—	20
21	19·7	2·6	18·2	1·3	18·6	1·6	19·3	3·7	21·0	3·0	18·0	1·8	—	—	20·5	—	21
22	18·6	1·9	19·6	1·3	18·2	1·6	18·2	2·8	20·7	2·7	16·6	0·7	—	—	2·03	—	22
23	18·0	1·6	19·9	1·6	18·6	2·0	17·0	2·0	20·9	2·9	15·8	0·3	—	—	20·0	—	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during June, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

JUNE 1949

Day	1		2		3 *		4		5		6		7 *		8 *		9		10		11		12		13		14		15		16	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	3·4	10	2·5	05	2·6	03	2·1	07	2·3	06	1·2	31	1·2	14	2·1	11	2·9	11	2·1	15	2·0	10	3·8	11	3·1	11	2·3	06	2·7	10	2·8
1h	10	3·3	10	3·0	04	4·1	32	2·7	07	1·9	06	1·6	30	1·3	14	1·5	10	2·3	11	3·6	15	2·1	11	3·0	11	4·4	11	1·4	08	3·8	10	4·1
2	10	3·5	09	4·0	04	3·2	01	2·2	07	2·0	06	1·5	30	1·4	14	1·3	10	2·8	11	2·7	15	1·9	10	2·4	11	4·6	11	2·0	09	2·3	10	2·8
3	10	3·6	10	3·6	02	3·8	01	1·9	07	2·7	06	1·5	30	1·9	14	1·8	10	3·6	11	2·5	14	1·6	10	2·8	10	3·3	11	2·2	07	4·1	10	2·4
4	10	4·0	10	3·6	02	4·6	01	2·0	07	2·4	06	1·4	30	1·6	14	1·9	10	3·9	10	2·5	15	1·7	10	2·7	09	4·4	11	1·7	07	2·9	10	2·4
5	10	3·4	10	3·6	02	3·1	01	2·5	07	2·9	06	2·1	d10	2·0	14	2·3	10	5·1	10	1·4	15	1·5	10	3·0	10	4·0	11	1·9	10	2·8	10	2·3
6	10	3·6	09	3·9	02	3·1	01	2·7	07	3·2	06	1·5	10	1·3	14	1·6	10	4·1	10	2·2	15	1·4	10	3·8	10	4.4	08	2·5	10	4·2	11	3·3
7	09	3·7	08	4·6	02	2·6	01	1·3	07	2·9	06	1·6	10	1·5	14	1·4	10	4.3	11	2·5	15	1·2	10	3·0	10	3·5	10	2·0	10	3·0	10	4·1
8	10	4·1	08	5·0	01	4·4	01	1·4	07	2·6	06	2·1	12	2·1	14	1·2	11	4·4	18	1·5	15	0·7	11	4·4	10	3·7	12	3·1	10	2·6	10	3·2
9	08	5·1	08	5·2	28	3·1	02	4·2	07	3·8	06	2·1	13	2·6	12	2·9	10	5·0	11	3·6	10	3·2	10	4·9	10	4·9	10	4·0	12	3·2	11	4·4
10	08	6·1	08	5·4	28	2·8	01	4·1	08	3·8	06	1·8	10	2·6	10	3·3	11	5·9	13	4·4	09	4·6	10	5·7	10	5·3	10	3·6	11	4·7	10	4·5
11	07	6·2	06	4·4	28	3·9	01	4·2	06	4·6	05	1·4	10	3·2	10	3·1	09	5·6	11	5·4	09	5·7	10	6·3	10	6·0	09	5·6	10	6·0	08	5·3
Noon	09	6·0	06	4·0	27	3·9	32	4·8	06	4·4	05	2·0	09	3·8	08	4·1	11	5·7	11	4·6	09	6·3	10	6·5	10	5·9	10	5·5	10	5·8	08	4·7
13h	08	5·4	06	4·1	28	2·5	32	3·9	07	4·8	05	2·0	10	3·5	08	4·3	10	5·0	10	4·2	10	5·7	11	5·7	10	6·2	10	5·8	10	6·4	08	5·8
14	08	5·8	06	4·0	26	2·9	01	3·9	06	4·4	04	2·0	d18	1·5	10	4·2	10	5·1	12	4·2	09	6·8	10	5·3	10	5·7	10	5·2	10	5·6	07	4·9
15	08	5·3	06	2·1	29	2·2	01	3·9	06	4·0	03	2·0	25	2·2	10	4·3	11	4·6	10	4·1	09	6·4	09	4·7	12	6·0	10	5·0	11	5·2	06	4·5
16	09	5·0	05	3·9	31	2·6	01	2·6	06	3·3	30	1·9	23	1·9	08	4·4	11	4·0	13	3·4	09	5·9	11	4·3	10	5·9	10	4·0	10	4·8	08	4·1
17	09	4·2	05	3·3	32	2·4	01	1·9	06	2·9	30	1·8	23	1·1	09	3·1	11	2·2	13	2·6	09	4·7	11	5·0	10	4·0	10	2·6	10	4·2	11	3·6
18	09	2·9	06	3·2	32	1·4	01	1·2	06	1·4	30	1·2	r13	3·0	09	2·5	11	2·9	13	2·0	09	4·8	10	4·5	12	2·9	10	1·6	10	2·7	11	5·0
19	10	2·4	06	3·8	32	1·1	06	2·1	06	1·5	30	0·6	13	2·4	09	2·4	11	0·6	13	3·1	10	4·1	10	4·7	12	2·9	10	1·8	10	2·2	10	1·7
20	10	3·0	06	3·6	32	1·1	06	1·2	07	1·1	30	0·6	14	2·1	10	2·0	11	0·9	15	2·0	10	4·1	10	5·1	12	3·8	10	1·8	10	3.2	10	4·7
21	10	2·6	05	3·7	03	1·7	06	1·4	06	2·2	30	1·2	14	2·6	10	1·6	11	1·3	14	2·6	10	3·8	10	4·4	12	2·4	10	1·8	10	2·6	10	4·5
22	10	2·2	04	4·3	03	1·8	06	1·4	06	1·6	30	1·1	14	2·6	10	2·1	11	1·1	14	1·8	10	3·8	10	3·9	12	2·3	11	2·6	10	2·9	10	3·3
23	10	2·6	02	4·3	03	1·5	06	2·6	06	1·6	30	1·1	14	2·2	10	2·7	11	1·8	14	3·2	10	3·4	10	3·6	12	1·7	10	2·5	10	3·1	10	4·0

JUNE 1949—*continued*

Day	17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	10	1·7	10	1·8	10	1·7	11	2·0	10	5·2	07	5·1	10	9·3	09	5·6	11	4·9	10	1·5	11	2·6	12	0·7	11	2·1	10	4·4	—	—	2·8
1h	10	2·3	10	1·3	10	0·9	11	1·4	10	4·4	11	3·6	10	6·0	08	7·0	10	4·4	10	1·4	11	2·4	12	1·3	11	4·1	10	3·1	—	—	2·9
2	10	3·3	11	3·3	10	1·1	11	1·4	10	6·3	10	3·1	10	7·7	08	6·7	10	4·4	10	2·5	10	2·9	13	1·8	11	5·4	10	3·8	—	—	3·1
3	10	2·7	11	2·4	10	1·8	11	1·2	10	4·4	10	4·2	11	7·5	10	5·3	10	4·6	10	2·6	11	3·6	13	1·8	11	3·9	10	3·0	—	—	3·1
4	11	4·1	11	2·5	10	1·7	11	1·4	10	6·2	10	5·6	10	5·7	09	7·1	10	4·0	10	2·6	11	3·4	13	2·1	11	2·3	10	3·5	—	—	3·2
5	10	3·5	10	2·2	10	2·1	12	1·6	10	5·1	10	4·1	10	6·4	09	5·9	10	3·8	10	3·7	11	4·5	12	2·2	10	3·3	11	3·8	—	—	3·2
6	10	2·9	10	2·2	10	1·5	12	1·7	10	6·1	10	4·4	11	5·3	09	7·4	10	3·9	10	3·7	09	4·2	12	3·5	10	3·1	10	3·5	—	—	3·3
7	10	3·5	10	1·8	11	1·3	12	2·3	08	6·0	10	5·0	11	6·2	09	7·4	10	5·0	11	4·4	10	4·7	12	1·9	11	3·2	11	2·7	—	—	3·3
8	09	4·4	10	3·5	11	2·3	10	2·7	09	5·4	10	4·2	11	6·5	10	7·4	10	4·3	11	4·4	10	4·0	11	1·8	12	3·0	10	3·4	—	—	3·5
9	07	4·1	10	2·7	11	0·8	10	3·5	08	6·2	10	5·3	11	6·5	09	7·5	09	5·4	11	4·2	10	4·0	11	2·3	11	2·1	10	4·9	—	—	4·1
10	10	2·3	10	2·4	11	0·7	10	3·2	09	6·4	10	5·9	11	7·6	08	8·6	10	6·8	11	3·9	11	5·9	10	4·2	12	5·1	11	5·5	—	—	4·6
11	06	5·6	10	3·2	11	2·7	11	6·8	09	4·2	10	7·1	09	8·1	09	8·3	11	6·7	11	3·8	11	5·1	11	5·8	11	5·3	10	6.3	—	—	5·2
Noon	07	4·4	08	3·8	08	3·1	10	7·0	08	8·4	10	6·3	09	8·6	10	9·4	10	7·0	10	3·9	10	5·0	12	5·2	12	5·1	10	6·6	—	—	5·4
13h	11	5·3	10	2·2	10	2·1	11	6·4	10	6·0	10	7·2	11	8·3	10	8·1	11	6·1	10	4·3	09	5·3	10	5·5	10	5·2	10	4·9	—	—	5·1
14	08	5·6	08	3·9	07	2·1	11	5·0	10	7·1	10	8·8	10	7·9	11	9·2	09	7·2	10	4·1	12	4·9	11	6·0	10	5·0	10	5·4	—	—	5·1
15	08	3·3	08	3·0	02	3·0	11	6·7	10	8·2	10	6·7	11	6·5	08	9·0	10	6·9	10	4·1	10	4·6	11	5·7	11	5·4	11	4·5	—	—	4·8
16	08	3·8	10	2·4	08	1·1	10	5·9	09	7·4	11	6·0	09	7·1	11	7·6	11	5·9	10	4·4	10	4·0	10	5·0	10	5·0	10	4·6	—	—	4.4
17	09	3·4	10	2·5	09	2·0	10	4·1	09	7·1	10	5·3	11	6·2	10	5·7	10	4·5	10	3·8	12	3·9	10	4·1	10	4·2	10	3·6	—	—	3.7
18	10	2·2	10	2·6	09	1·7	10	3·8	10	7·6	12	4·8	10	4·2	10	5·0	10	4·2	10	2·8	12	1·7	11	2·4	10	3·4	10	2·1	—	—	3·0
19	10	2·6	10	1·7	10	1·6	10	4·0	10	6·5	11	4·7	10	5·0	10	4·7	10	3·9	11	1·8	12	1·1	10	2·6	10	3·7	10	2·0	—	—	2·8
20	10	3·4	10	2·1	10	2·2	11	4·4	10	5·2	11	4·6	11	5·2	10	5·2	10	3·3	11	1·7	12	1·7	11	2·7	11	3·5	10	1·7	—	—	2·9
21	11	3·1	10	1·9	10	1·8	11	4·1	10	5·0	10	5·4	09	6·0	10	4·9	10	2·7	11	1·2	12	1·3	11	3·6	11	4·2	15	1·7	—	—	2·9
22	10	3·2	10	1·4	10	1·8	12	3·8	10	4·4	10	7·1	10	7·2	10	6·1	10	4·0	11	1·8	12	1·1	10	3·6	11	4·4	14	1·1	—	—	3·0
23	10	2·9	10	1·5	11	2·7	10	4·9	10	4·3	11	6·1	08	7·0	10	5·2	10	3·9	10	2·6	12	1·9	11	2·8	11	4·4	14	0·7	—	—	3·1

Table XIII.—Wind Frequency (Number of Observations), June, 1949

Hour	Force (0—12)			Directions															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	1	29	1	1	...	1	2	14	8	2	...	...	...	...	...	...	...	1
9	...	2	28	..	1	...	1	7	10	10		...	...	..	...	...	...	1	...
15	...	9	21	1	1	1	3	6	9	7	...	.	...	...	...	1	...	1	...
21	...	1	29	...	...	2	2	1	13	8	2	1	...	..	...	...	...	...	1
Total ...	...	...	...	2	3	3	7	16	46	33	4	1	...	...	...	1	...	2	2

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, June, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	0·1	...	1·3	0·6	...	...	...	..	1·2	...	...	...	..	...	0·2	...	...	...	...	..		...	...	0·7	...	..	...	...	...	...	...
2	...	...	5·0	1·6	...	...	...	...	3·2	...	..	..	...	...	1·0	...	..	...	..	...		0·2	...	0·2	...	.	...	...	...	...	...
3	...	...		...	...	...	..	...	0·6	...		...	...	...	0·4	...	..	...	...	...	...		...	2·1	...	...	...	...	...	...	...
4	0·5	...	0·1	...		...	...	...	1·0	...	...	...	...	..	0·5	...	...	...		...	...	1·4	2·7	0·2	...	...	...	...	...	...	...
5	...	...	0·2	..	...			...	1·7	...	...	...		...	0·3	...	...		...	...	7·0	0·2	...	0·7	...		..	0·1	...	...	...
6	...		...	...		...	..	...	...	...	...	...	...	...	...	...	.		...	0·4	1·2	0·1	0·3	...	...	..	...	0·1	...	...	...
7	...	...	...	...	...	...	..	..	1·2		...	0·8	...	0·1	...	...		...	...	...	1·8	0·1	...	...	...	...	...	...	...	...	...
8	...	.	0·2	0·1	...		...	...		...		...	...	...	...	...	...		...	0·6	1·6	...	...	..	...	...	.	...	...	...	...
9	..	...	1·3	..	...	...	...	.			...		...	...	...	...	...	...	...	...	0·5	0·1	...	..	...	...	..	...	...	...	...
10	...	0·1	0·5	...	..	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	0·2	...	...	...	...	...	..	...	...	...	...
11	...	5·6	...	...	...	...	...	.	...	...	0·4		...	...	...	...	...	...	...	...	0·6	...	...	...	..	...	...	...	...	...	...
Noon	...	2·4	...	...	..	...	...	...	...	...		...	...	...	..	...	...	..	...	0·2	0·8	...	...	...	..	...	...	...	...	...	...
13h	...	1·3	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1·4	0·6	...	...	...	...	...	..	...	...	...	...
14	...	...	...	...	...	...	...	...		...	0·4	...	...	...	...		...	...	..	...	...	...	...	..		...	..	.	...	...	...
15	...	1·7	...	...	0·1	..	...	...	...		0·1	1·8	...	...		...	...		...	..	1·1	0·1	..	...	...	..	...	...	...		...
16	...	...	...	...	...	...	..	...		.	...	0·2	...	...		...	...	...	...	...	5·1	...	...	...	...	...	...	..	...	...	...
17	...	...	...	...	...	...	...	...		.	..	..	...	...	...	...	...		..	...	...	...		...	...	...	...	..	..	..	...
18	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	...	...	0·1	0·6	0·1	...	...	...	...	...	.	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	0·3	...		...	0·3	...	...	...	...	0·6	...	...	..	...	...		...	...	...	...
20	...	...			...	...	...		...	...	0·1	2·7	...	...	...	0·2	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
21		...	...	.		0·1	...	...		...	...	0·6	...	...	...	...	...	...	...	...	0·5	2·4	...	..	...	..	...	...	...	...	...
22	...	0·3	...	...	...	...	.	...	..	...	...	...	...	...	...	0·1	...	...	...	...	...	1·3	...	...	...	..	...	...	...	...	...
23		3·5	...	...	0·1	...	...	...	..	...	0·8	...	...	...	...	...	...	...	...	0·5	...	...	0·4	...	...	...	.	...	...	...	...
24	...	1·4	...		...	...	...	0·1	.	0·7	0·4	...	...	..	...		...	...	...	0·3	...	0·7	0·2	...	...	...	...	...	...	...	...

Table XIV.*b*—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for June, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	...	...	0·8	1·5	...	0·2	...	...	0·5	0·4	1·5	...	...	...	1·5	...	...	...	...	0·2	1·5	0·8	2·0	6·5	...		...	...	...	0·2	...
2	...	..	6·9	0·6	...	...	...	...	1·6	...	...	...	...	...	1·8	...	...	...	...	...	1·8	0·8	5·2	10·0	...	...	...	...	...	0·2	.
3	...	...	...	0·6		...	...	...	3·0	0·5	...	0·1	...	...	0·4	0·1	.	...	...	...	0·7	2·4	2·7	6·2	...	...	...	0·7	...	.	...
4	...	...	1·2	0·9	.	...	...	...	3·8	...	...	0·2	...	...	...	...	...	...	...	..	0·5	0·8	1·2	6·3	...	...	...	1·9	0·1	0·1	...
5	..	0·3	0·9	1·5	...	...	...	.	1·4	...	...	...	...	0·1	...	...	...	...	...	...	0·8	1·4	1·5	4·0	...	...	...	0·1	...	..	...
6	0·5	...	...	...	0·2	...	...	...	0·4	...		...	...	...	...	..	...	...	...	0·2	6·2	1·9	0·6	5·4	...	...	...	0·7	...	...	...
7	...	...		...	...	...		0·2	0·1	...		0·2	...	...	...	0·2	1·0	...	...	0·8	6·0	4·2	1·6	2·2	...		...	...	...		..
8	...	...	5·5	...	...	...	...	.	...		1·0	3·3	...	...	...	..	0·2	.	...	...	1·2	0·2	1·5	...	...	...	..	...		...	...
9	...	...	8·9	...	...	...	...	...	...	...	5·6	0·6	...	...	...	...	...	..	...	...	5·6	...	0·2	0·6	..	...		...	...	...	...
10	..	...	0·8	...	...	...	...	...	...	...	2·0	0·7	...	...	...	...	...	...	...	1·3	1·3	...	0·2	0·1	...	...	...	...	...	...	...
11	...	...	4·0	...		...	...	. .	...	...	2·0	0·9	...	...	...	...	...	...	...	1·7	0·5	0·2	0·4	0·4	...	...	...	...		...	...
Noon	...	6·9	1·8	...	...	...	...	...	...	...	...	1·3	..	...	...	...	...	...	0·2	5·2	1·2	0·3	...	0·2	..	...	...	...	...	...	...
13h	...	1·4		...	...	...	...	...	...	...	0·7	2·3	...	...	...	...	0·2	...	...	11·8	0·8	0·7	...	...	...	...	...	...	...	...	...
14	...	1·8	..	...	...	1·0	...	...	...	...	2·7	4·6	...	...	.	...		...	...	2·8	1·4	0·2	...	...	...	...	...	...	...	...	...
15	...	...		...	...	5·2	...	...	...	...	0·1	1·9	..	...	...	...	..	...	...	...	3·8	0·5	...	...	...	...	..	.	...	...	...
16	..	1·2	...	...	...	1·3	...	...	...	...	1·5	0·8	...	...	...	...	...	...	...	...	1·8	0·4	...	0·4	...	...	..	...	...	..	...
17		...	...	...		1·5	...	1·5	...	...	1·9	1·2	...	...	...	0·3	...	..	...	1·0	2·5	1·8	...	0·1	...	...	...	...		...	...
18		...	...	...	...	...	...	...	...	...	0·8	0·7	...	...	...	...	...	.	...	2·2	0·9	0·4	...	0·3	...	...		...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	2·8	1·0	...	...	...	...	...	...	...	0·3	6·3	0·5	1·7	1·7	..	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	2·2	...	...	...	...	0·9	...	...	...	0·1	1·6	1·4	2·4	1·0	...		.	...	...	...	...
21	...		0·9	...	...		...	0·5	...		0·2	...	...	...	.	...	...	...	...	1·5	1·8	3·5	1·0	2·4	...	...	...		...	...	...
22	...	0·8	...	...	...	.	...	0·3	...	..	..	...	...	0·7	...	...		...	...	0·8	0·9	3·8	5·7	0·2	0·2	...		...		...	...
23		0·9	...	...	...	...	...	0·1	0·2	...	1·4	...	...	...	...	...	...	...	...	0·8	0·6	5·9	3·5	...	...	0·2	...	...	...	0·2	...
24	...	2·6	0·4	..	..	...	...	..	0·9	1·0	...	...	...	0·2	...	..	...	...	...	1·0	0·2	5·4	5·5	...	...	...	...	...	...	0·4	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, June, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Falls in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	5·12	130·0	—	12
B. River ...	Pierre Fonds ...	—	6·05	153·7	1·11	14
	La Ferme	350	2·76	70·1	1·35	11
	Richelieu	—	2·66	67·5	—	13
	Mon Repos (*Palmyre*)	—	1·70	43·2	—	6
	Médine	—	1·99	50·5	—	11
	La Mecque	—	1·86	47·2	—	10
	Albion	—	2·27	57·7	—	9
	Mare Longue ...	—	17.57	446 3	—	23
	Beaux Songes	—	3·80	96·5	—	11
	Clarens ...	—	1·95	49·5	—	7
	Mon Désert	—	2·15	54·6	—	9
P/mousses	Botanical Gardens ...	325	4·62	117·4	3·01	20
	Solitude ..	175	3·39	86·1	1·38	9
	La Nicolière	—	11·41	162·8	5·29	22
	The Observatory ...	179	3·57	90·7	2·41	20
	California ...	—	13·79	350·3	—	—
Rivière du Rempart	Saint Antoine ..	50	4·67	118·6	2·40	—
	Bel Mont ...	50	4·89	124·2	2·85	—
	Poudre d'Or	20	5·15	130·8	2·74	—
	Mon Loisir	300	6·67	169·4	3·91	15
	Forbach	—	5·31	134·9	2·55	12
	Couroupa .	—	5·08	129·0	2·43	11
	Ravensworth	—	9·43	239·5	—	12
	Labourdonnais	290	5·14	130·5	3·02	9
	Beau Séjour	300	5·80	147·3	4·05	15
	Mont Piton	680	7·49	190·2	4·53	12
	Mon Choix	700	6·73	170·9	4·36	12
	Antoinette ...	640	8·54	216·9	4·20	16
	Mon Songe	620	11·30	287 0	4·48	22
Moka ...	Bonne Veine ..	400	19·33	491·0	6·55	23
	Le Réduit	1,000	9·07	230·4	2·33	20
	Alma	1,460	17·86	453 6	7·82	24
	Mon Désert	1,450	10·66	270·8	—	17
	Hermitage	—	15·22	336·6	7·10	15
	Béga	—	6·59	67·4	—	13
	Côte D'Or	—	14·35	364.5	—	14
	Mon Rêve	—	10 06	255·5	—	14
	Mont Pévril	—	9·36	237·7	—	14
	Minissy	1,150	10·06	255·5	3·00	14
Plaines Wilhems	Curepipe Gardens ...	1,840	21·12	536·3	7 ·55	25
	Aerological Station ...	1,393	13·48	342·3	3·85	25
	Mare-aux-Vacoas (G. End.)	1,850	24·30	618·2	7·79	24
	Mare-aux-Vacoas (Arnaud)	1,830	23·21	589·5	10·62	25
	La Marie Filter Beds ...	1,700	18·42	467 9	6·01	24
	Réunion	1,420	15·43	391·9	4·60	18
	Phœnix	—	13·64	346·5	—	13
	Quatre Bornes ...	—	7·95	201·9	—	13
	Bagatelle	1,250	14·23	361·4	4·33	19
	Pétrin	—	22·82	579·6	—	26
	Henrietta	—	10·35	262·9	—	18
	Tamarin-Falls ..	—	12·26	311·4	—	16
	Tamarin	—	3·50	88·9	—	8
	Moon	—	7·91	200·9	—	17
	La Pipe Midlands Dam ...	—	24·37	619·0	—	24
	Highlands	1,300	17·67	448·8	4·78	19
	Trianon	950	10·83	275·1	2·71	15
	Bassin	—	7·28	184·9	·35	14
	Ebène ...	630	8·58	217·9	—	14
Flacq ..	Mare Sèche ...	20	—	—	41	—
	Australia	—	9·83	249·7	—	—
	Union Regnard S. E. ...	600	12·45	316·2	5·04	21
	Constance La Gaieté ...	100	8·94	227·1	4·18	16
	Belle Vue Allendy ...	900	9·11	231·4	3·74	15
	Sans Souci ...	20	22·57	573·3	10·46	21
	Beau Champ G.R.S.E. ...	400	7·42	188·5	4·10	20
	Olivia	—	7·42	188·5	6·03	20
	Rich Fund	—	10·68	271·3	—	17
	Trois Ilots	—	7·88	200·2	—	19
	Belle Rive	400	12·59	319·8	6·27	18
G. Port	Rose Belle	850	19·50	495·3	8·31	25
	New Grove ...	650	4·86	375·9	9 60	17
	Union Park	—	19·38	492 3	—	24
	Deux Bras	—	18·45	468·6	—	22
	Astroea	—	17·22	437·4	—	22
	Mon Trésor ...	—	7·67	194·8	—	16
	Union Vale	—	5·64	143·3	—	16
	Beau Vallon ...	—	5·88	149·4	—	16
	Mon Désert Carié ...	75	5·91	150·1	3·78	16
	Ferney	20	8·85	224·8	6·20	16
	Ste. Hélène ..	—	7·01	178·1	—	18
	Sauve Terre ...	—	6·35	161·3	—	11
Savanne	Tivoli	1,300	14·80	375·9	9·35	20
	La Flora ...	1,050	16·57	420·9	8·16	19
	Riche Bois ...	650	11·09	281·7	5·87	20
	Britannia	700	10·88	276·4	8·19	22
	Terracine	-	7·63	193 8	—	24
	Savannah	200	5·32	135·1	4·81	21
	Saint Aubin ...	300	6·27	159·3	4·94	21
	Saint Avold ...	900	9·81	249·2	7·72	20
	Colmar	400	12·63	320·8	6·79	20
	Combo	—	10·10	256·5	—	24
	Union Sugar Estate ...	—	8·46	215·9	3·37	22
	Fontenelle	320	8.28	210 3	4·61	23
	Choisy	—	—	—	3·18	—
	Beau Bois	—	9·92	252·0	—	26
	Bel Air	—	June-Aug.	10·59 (269·0m)	4·42	—
	Saint Félix	—	June-Aug.	10·14 (257·6)	—	—
	Bel Ombre ...	40	6·50	165·1	3·64	—
	Beau Champ B. du Cap...	—	6·25	150·8	2·79	—
	Frédérica	—	8 31	211.1	3·27	—
	Sainte Marie ...	—	6·20	157·5	—	—
	Beau Climat ..	—	21·42	544 8	—	20
St. Brandon	Met. Station ...	—	2·38	60·5	—	18
Agalega	Met. Station .	—	6·57	166·9	—	25
Rodrigues	Oyster Bay	—	1·67	42·3	—	15
Chagos Archipelago	Salomon Islands Boddam	—	4.35	110·5	—	4

Table XVI.—Observations of Pilot Balloons, month of June, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.23	10	19	09	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.14	10	23	07	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	09.40	31	12	33	18	34	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	08.35	01	14	36	11	33	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08.33	09	17	09	19	09	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	08.35	01	16	35	11	33	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	08·45	15	10	13	08	18	08	25	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	08.04	13	12	11	13	12	09	12	09	18	14	19	13	20	13	24	37	...	...	...	...	...	...
9	17.06	12	13	14	17	17	14	19	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	08.49	13	11	15	21	20	18	18	17	20	18	...	...	...	...	...	...	...	...	...	...	...	...
11	17.32	10	25	10	28	10	27	10	16	10	26	...	...	...	...	...	...	...	...	...	...	...	...
12	08.45	12	18	10	21	10	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	17.26	13	21	11	32	12	23	19	10	15	10	10	12	...	...	...	...	...	...	...	...	...	...
14	17.22	13	15	11	23	10	24	12	21	19	09	25	09	20	11	...	...	...	...	...	...	...	...
15	17.14	12	23	12	22	13	17	20	05	16	17	20	01	25	20	28	20	...	...	...	...	...	...
16	09.32	11	23	09	20	11	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	17.19	11	17	11	20	13	09	14	04	21	03	24	04	20	10	...	...	...	...	...	...	...	...
18	08.35	10	11	10	15	14	11	17	05	13	03	25	12	25	20	30	21	31	22	...	...	...	...
19	08.16	13	05	13	06	15	08	14	07	24	07	...	...	...	...	...	...	...	...	...	...	...	...
20	08.09	12	21	10	23	11	19	14	05	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08.35	11	26	10	26	11	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	08.40	12	32	12	24	11	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.43	12	36	11	26	11	30	11	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.38	11	34	11	44	11	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	09.40	11	38	09	24	09	25	08	26	11	16	...	...	...	...	...	...	...	...	...	...	...	...
26	08.14	13	10	11	21	10	23	09	25	09	26	...	...	...	...	...	...	...	...	...	...	...	...
27	08.38	12	18	13	28	15	28	13	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	09.50	12	18	12	22	10	17	07	17	10	26	13	16	17	10	16	09	13	11	25	13	28	34
29	08·34	13	15	12	24	07	02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	08·25	12	25	12	23	16	18	24	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.1

VOL. XXXV

PART VII

LIBRARY
AUG 17 1953
WEATHER BUREAU

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

JULY, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, JULY 1952. 3586/7/52—208

Table I—Results of Magnetical Observations made during the month of July, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination (Unit 1 γ)	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
JULY						
1	15°29'.3	·22323	·30332	5'.2	40	17
2	29.6	321	334	6.2	17	10
3	29.7	331	330	4.6	40	14
4	29.4	330	329	5.6	30	13
5	29.9	339	330	4.8	41	5
6	29.4	343	334	5.2	27	30
7	29.8	337	336	5.4	54	13
8	29.6	331	336	8.8	43	27
9	29.7	329	336	4.2	66	18
10	29.5	330	336	5.5	24	19
11	30.1	331	339	6.0	38	16
12	29.9	328	337	5.0	34	12
13	29.1	336	336	3.0	48	11
14	30.0	336	336	1.4	46	11
15	—	—	333	—	—	20
16	—	—	333	—	—	22
17	—	—	338	—	—	16
18	29.6	332	337	6.8	45	26
19	29.6	323	339	5.4	65	8
20	—	324	337	—	54	18
21	30.4	319	337	6.4	35	20
22	30.6	337	336	5.0	55	15
23	30.1	322	336	8.2	42	25
24	—	—	338	—	—	32
25	—	—	336	—	—	23
26	—	329	336	—	44	21
27	30.7	332	337	7.0	31	29
28	30.5	—	335	6.0	—	31
29	30.5	—	336	8.4	—	22
30	30.6	345	332	7.4	52	30
31	30.7	332	335	8.2	36	22
Mean	15°29'.93	·22331	·30335	5'.82	42.0	18.9

Magnetic Disturbances—July, 1949

3d. Slightly disturbed.
5d. Slightly disturbed.
6d. Slightly disturbed.
8d. Slightly disturbed.
9th Slightly disturbed.
12d. Slightly disturbed.
13d. Moderately disturbed.
14d. Slightly disturbed.
16d. Moderately disturbed.
17d. Slightly disturbed.
19d. Slightly disturbed.
22d. Slightly disturbed.
23d. Moderately disturbed.
29d. Slightly disturbed.
30d. Slightly disturbed.

T=·37668: Mean Dip=53°38'.49: X=·21529: Y=−·059672: Z=·30335

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of July, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° '	d h m		d h m	° '	
5 9 39	15 29.63	5 9 18	·22356	5 9 47	53 37.87	·30331
12 9 55	15 29.50	8 9 28	·22348	12 10 05	53 38.13	·30334
19 9 40	15 29.87	12 9 34	·22342	19 9 51	53 39.06	·30329
26 9 24	15 30.13	15 9 32	·22338	26 9 34	53 39.25	·30336
		19 9 19	·22342			
		26 9 55	·22348			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

JULY 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	30·0	29.9	29·9	29·8	29·9	28·2	29·8	30·4	30·2	30·0	30·0	30·0	30·1	30·0	30·0	—	Midnight
1h	29·8	29·7	29·6	29·7	30·0	28·0	29·6	30·8	30·3	29·9	29·8	29·8	30·0	30·4	—	—	1h
2	29·7	29·6	29·4	29·6	30·0	28·0	29·9	30·6	30·1	30·0	29·7	30·0	30.2	30·0	—	—	2
3	30·0	29·4	29·6	29·4	29·9	28·2	29·8	30·5	30·0	30·2	29·6	29·8	30·0	30·0	—	—	3
4	30·0	29·6	29·7	31·2	29·8	28·3	30·0	30·1	30·0	30·0	30·0	29·6	29·0	30·2	—	—	4
5	29·7	29·6	29·7	29·0	29·4	28·1	29·6	30·0	30·1	29·8	29·6	29·0	28·4	30·0	—	—	5
6	31·6	29·7	29·8	29·4	28·4	27·6	28·4	30·0	30·0	29·4	29·4	29·2	28·0	30·0	—	—	6
7	29·0	29·8	29·0	28·4	28·6	27·8	27·6	29·0	29·0	28·2	28·4	28·0	28·2	29·9	—	—	7
8	28·4	30·0	30.0	30·0	28·2	28.0	27·0	28·0	28·0	28·0	29·2	28·2	29·0	29·6	—	—	8
9	29·2	31·2	31·8	31·0	29·0	30·0	28·0	29·6	29·6	29·6	31·6	29·0	29·2	29·2	—	—	9
10	30·0	32·2	32·0	31·6	30 0	32·2	30·0	31·6	30·2	31·2	33·4	30·2	28·0	29·6	—	—	10
11	30·8	31·1	31·6	30·4	31·6	32·0	31·0	33·0	31·6	31·4	33·0	31·6	27·8	29·8	—	—	11
Noon	30·4	31·0	30·2	30.0	32·0	32·6	32·4	33·8	31·0	31·5	33·0	33·0	28·0	30·2	—	—	Noon
13h	29·0	29·8	29·2	29·0	33·0	30·2	32·0	31·0	29·0	30·0	30·6	32·0	28·2	30·4	—	—	13h
14	27·6	28·4	28·4	27·8	31·6	29·2	30·4	27·0	28·0	29·0	29·0	30·2	28·0	30·2	—	—	14
15	26·8	27·0	27·6	26·0	30·0	27·6	30·0	25·0	27·4	27·2	27·6	29·0	27·8	29·6	—	—	15
16	26·4	26·0	27·4	26·2	28·4	27·4	28·0	25·4	28·4	26·0	27·4	28·0	27·4	29.4	—	—	16
17	27·6	27·4	28·2	27·6	29·0	28·6	28·0	27·6	29·4	27·4	28·8	28·8	29·0	29·6	—	—	17
18	29·4	29·4	29·4	29·4	29·4	30·0	30 0	29·4	30·0	29·8	30·2	30·0	30·0	30·0	—	—	18
19	29·6	30·0	30·0	29·6	29·8	30·4	30·0	29·6	30·4	30·0	30·4	30·6	30·4	30·2	—	—	19
20	30·0	30·2	30·2	30·0	30·0	30·8	30·4	29·6	30·6	30·0	31·0	30·8	30·4	30·4	—	—	20
21	30·0	30·2	30·0	30.0	30·0	30·6	30·8	29·8	30·3	30·2	30·6	30·4	30·3	30·6	—	—	21
22	29·8	30·0	30·0	30·0	30·2	30·4	31·0	30·0	30·0	30·0	30·0	30·4	30·2	30·2	—	—	22
23	29·6	29·9	29·7	30·0	30·1	30·2	30·8	30·0	30·0	29·9	30·0	30·2	30·0	30·2	—	—	23

JULY 1949—*continued*

Day / Hour	17d	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	—	31·2	31·3	—	31·2	31·6	32·0	32·0	—	—	31·2	30·2	30·2	30·2	30·4	30·3	Midnight
1h	—	30·4	31·0	—	31·6	32·0	31·4	31·8	—	—	31·0	30·1	30·1	30·0	30·3	30·2	1
2	—	30·1	30·0	—	31·7	32·0	30.4	31·4	—	—	31·2	30·1	30·0	29·9	30·2	30·1	2
3	—	29·9	29·9	—	31·0	32·2	30·3	—	—	—	31·0	30·2	29·9	30·0	30·4	30·0	3
4	—	27·0	29·7	—	30·4	31·4	31·6	—	—	—	30·9	30·3	29·8	30·1	30·5	30·0	4
5	—	26·0	29·0	—	30·0	30·4	31·2	—	—	—	30·7	30·1	29·7	30·4	30·2	29·6	5
6	—	25·6	27·4	—	29·8	30·2	30·2	—	—	—	30·2	30·0	29·7	30·2	30·0	29·3	6
7	—	27·0	27·4	—	29·6	29·6	27·2	—	—	—	29·8	28·0	28·6	29·4	29·0	28·6	7
8	—	28·4	28·0	30·0	30·4	29·4	27·6	—	—	—	30·4	29·6	30·0	30·0	29·6	29·0	8
9	—	30·0	29·4	30·4	32·6	30·2	30·0	—	—	—	33·6	32·0	33·0	33·0	32·0	30·6	9
10	—	32·4	30·4	31·6	32·4	32·0	33·6	—	—	—	34·4	33·6	35·0	34·6	34·2	31·9	10
11	—	33·0	31·6	32·4	32·2	31·9	33·4	—	—	32·2	33·8	32·8	35·8	33.8	35·4	32·1	11
Noon	28·4	30·4	28·4	31·6	32·0	31·4	30·6	—	—	32·0	31·0	31·0	34·0	32·4	34·6	31·4	Noon
13h	29·0	30·0	27·8	30·0	30·2	30·4	28·0	—	—	31·6	29·8	31·4	29·6	30·0	32·0	30·1	13h
14	29·6	29·6	27·2	28·4	28·2	28·4	26·4	—	—	31·4	28·6	29·4	27·4	28·0	30·0	28·7	14
15	28·4	27·4	26·6	27·6	26·4	27·4	25·4	—	—	31·2	27·4	27·6	27·0	27·2	27·6	27·4	15
16	29·0	26·2	27·6	27·4	26·2	27·2	26·0	—	—	29·6	28·0	29·2	28·0	28·0	27·2	27·3	16
17	30·0	28·0	28·8	28·4	28·0	29·6	29·4	—	—	27·8	29·4	30·6	29·6	29·6	28·6	28·7	17
18	31·6	30·4	30·2	29·8	29·6	30·4	30·2	—	—	29·6	30·4	30·9	30·0	31·0	30·0	30·0	18
19	32·0	31·2	30·6	30·0	30·0	30 6	31·2	—	—	30·4	31·0	31·2	31·0	31·2	31·0	30·4	19
20	32·4	31·4	31·8	30·8	31·0	31·2	31·6	—	—	30·6	31·2	31·0	31·2	31·4	31·0	30·7	20
21	32·2	32·4	32·0	31 2	31·6	31·8	31·5	—	—	31·0	31·0	30·8	31·2	31·6	31·2	30·8	21
22	32·0	31·8	32·0	31·6	31·8	30·6	31·6	—	—	31·2	30·2	31·0	30·6	31·4	30·8	30·6	22
23	31·8	31·2	31·6	31·6	31·8	31·6	32·0	—	—	30·4	30·2	30·8	30·2	31·0	30·6	30·5	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JULY 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	318	316	320	321	326	333	334	322	317	324	324	314	329	320	—	—	Midnight
1h	319	317	322	322	329	334	335	324	320	325	225	313	342	322	—	—	1h
2	319	320	324	324	331	336	338	327	322	327	327	316	343	325	—	—	2
3	317	319	326	326	333	340	339	329	333	328	329	326	348	330	—	—	3
4	320	320	327	330	337	341	339	331	334	329	330	325	350	332	—	—	4
5	321	321	328	331	339	342	340	330	337	329	334	327	359	337	—	—	5
6	326	322	329	332	341	346	343	329	339	330	335	331	347	340	—	—	6
7	330	329	334	339	350	349	352	331	348	334	341	338	348	342	—	—	7
8	334	330	339	340	357	352	358	342	349	339	343	342	362	348	—	—	8
9	336	328	345	343	360	359	361	347	358	340	339	347	350	351	—	—	9
10	339	327	352	348	361	358	362	346	364	341	340	341	334	353	348	—	10
11	348	321	359	349	360	356	361	349	362	340	350	338	341	359	355	—	11
Noon	341	322	350	342	359	352	360	350	349	344	352	332	349	355	362	—	Noon
13h	328	323	340	330	350	359	352	350	332	338	348	330	347	360	363	—	13h
14	329	321	330	321	334	354	348	344	320	330	339	329	335	356	357	—	14
15	320	316	322	319	324	340	327	327	307	328	321	320	327	349	345	—	15
16	309	313	320	320	320	334	325	320	298	320	314	319	319	338	332	—	16
17	308	319	319	321	323	332	323	321	304	322	317	319	322	328	327	—	17
18	310	320	324	326	328	335	318	320	310	325	320	322	320	314	—	—	18
19	314	321	327	327	331	332	310	325	313	326	323	321	319	318	—	—	19
20	319	322	329	329	333	334	308	329	319	327	324	323	314	320	—	—	20
21	320	321	328	328	335	336	313	320	320	327	325	325	318	320	—	—	21
22	320	320	327	328	334	337	319	313	321	328	324	327	317	320	—	—	22
23	319	321	325	327	333	335	323	307	323	326	319	328	318	321	—	—	23

JULY 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	—	314	321	300	312	319	317	313	311	311	324	—	—	339	327	321	Midnight
1h	—	316	312	301	311	318	308	314	312	318	323	—	—	337	326	322	1h
2	—	315	316	304	311	319	309	316	—	322	325	—	—	338	328	324	2
3	—	314	311	306	312	319	310	317	—	321	327	—	—	341	329	325	3
4	—	319	321	312	311	320	315	321	—	320	329	—	—	342	334	328	4
5	—	322	317	319	312	321	328	323	—	329	330	—	—	346	335	331	5
6	—	327	316	324	318	322	330	—	—	330	332	—	—	349	339	332	6
7	—	335	321	330	319	329	331	—	—	337	334	—	—	355	342	337	7
8	—	347	324	337	322	331	328	—	—	345	342	—	—	367	352	343	8
9	—	352	347	339	327	337	349	—	—	349	341	—	365	366	350	347	9
10	352	359	343	338	329	345	348	—	—	346	340	—	360	364	340	347	10
11	358	358	358	339	330	352	340	—	—	337	338	—	355	380	341	349	11
Noon	359	357	360	340	335	358	329	—	—	352	340	—	350	364	339	347	Noon
13h	340	359	352	344	337	367	334	.	—	355	352	—	340	355	340	345	13h
14	344	349	359	354	333	373	335	—	338	334	348	—	343	349	339	340	14
15	331	338	345	352	329	370	330	—	330	324	337	—	341	339	329	331	15
16	312	330	320	343	324	360	324	—	320	319	324	—	339	331	320	323	16
17	290	329	321	330	318	350	320	315	317	317	331	—	341	328	316	322	17
18	289	328	311	314	302	341	310	319	318	319	327	—	347	334	321	321	18
19	297	322	305	309	303	335	310	320	314	320	229	—	348	332	327	321	19
20	298	318	300	308	310	330	307	319	312	323	328	—	347	333	326	321	23
21	300	319	298	303	311	329	308	312	313	322	327	—	348	336	328	321	22
22	310	319	296	308	313	329	309	304	309	321	326	—	347	334	318	321	21
23	312	320	295	311	319	320	311	301	308	325	325	—	343	329	319	321	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

JULY 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	335	334	334	332	331	332	335	339	338	338	339	340	339	340	338	338	Midnight
1h	335	334	334	335	331	333	335	339	338	337	338	340	337	339	338	338	1h
2	334	334	333	333	330	334	335	339	337	337	337	340	334	337	337	338	2
3	334	333	333	332	331	334	335	338	337	337	336	340	334	337	336	338	3
4	334	332	333	332	331	336	336	338	337	338	336	338	333	336	337	337	4
5	333	332	333	332	330	338	336	338	337	338	336	339	332	335	336	337	5
6	332	332	332	332	330	338	336	339	338	339	336	340	333	336	336	337	6
7	331	331	331	330	330	338	333	337	335	338	335	338	332	334	334	333	7
8	330	333	331	331	328	340	333	337	336	338	338	339	333	336	337	332	8
9	334	337	334	332	330	340	338	339	340	341	344	340	340	338	336	332	9
10	336	340	335	331	332	344	339	342	340	342	347	340	340	338	338	333	10
11	337	337	330	323	333	343	338	344	336	340	344	337	337	337	330	333	11
Noon	333	333	323	321	333	337	340	340	332	332	334	338	337	336	330	332	Noon
13h	330	332	321	320	330	321	334	323	328	325	336	331	333	330	327	327	13h
14	321	335	321	320	330	314	328	319	323	325	331	330	334	330	323	320	14
15	320	333	321	320	329	317	329	317	323	328	332	330	330	329	320	319	15
16	322	330	322	326	328	322	330	323	325	323	338	328	330	329	321	318	16
17	328	332	327	328	330	331	334	333	333	336	342	334	333	331	327	321	17
18	332	333	330	331	330	336	340	338	339	338	342	338	337	336	331	334	18
19	332	334	330	332	330	337	340	338	341	340	341	340	339	338	335	335	19
20	333	334	330	332	330	337	341	338	341	340	341	340	340	339	337	336	20
21	334	334	331	332	331	338	341	338	341	340	341	340	341	340	338	338	21
22	334	334	332	331	331	336	340	340	341	339	341	340	340	338	339	340	22
23	334	335	332	330	331	336	339	339	339	338	340	340	340	338	340	338	23

JULY 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	+ ·30000 (C.G.S. UNIT).																
Midnight	341	341	340	342	340	339	338	337	338	339	340	338	339	337	336	338	Midnight
1h	341	340	340	342	340	339	337	337	338	338	340	338	338	337	336	337	1h
2	340	340	340	340	340	339	335	336	337	337	339	337	337	336	336	337	2
3	340	339	338	340	340	339	336	335	337	338	338	337	336	336	335	336	3
4	338	338	338	340	340	338	335	335	336	338	338	336	335	335	335	336	4
5	338	339	338	339	339	338	336	336	336	337	337	335	334	335	334	336	5
6	337	339	338	340	338	338	336	337	337	338	338	335	334	334	334	336	6
7	334	338	337	339	337	334	332	336	337	337	340	335	332	331	332	335	7
8	336	337	336	340	340	335	337	340	340	340	348	340	338	331	337	336	8
9	338	342	338	340	344	340	346	350	347	344	349	344	344	337	338	340	9
10	339	346	340	337	340	341	344	354	349	343	343	348	348	338	348	341	10
11	339	341	338	330	337	340	343	349	345	337	332	343	344	331	348	338	11
Noon	340	340	337	326	325	335	330	342	345	332	326	335	337	326	338	334	Noon
13h	333	334	330	327	320	331	322	333	331	330	320	326	327	320	328	328	13h
14	327	330	333	324	324	328	321	327	327	327	320	317	326	318	326	325	14
15	328	330	334	328	333	326	323	322	327	324	327	320	329	320	327	325	15
16	330	320	335	334	389	330	329	327	326	323	332	323	332	323	331	327	16
17	337	330	340	338	340	332	338	336	328	331	338	330	335	330	331	333	17
18	340	337	343	340	340	337	340	339	332	338	339	334	336	332	334	336	18
19	341	338	342	340	340	338	340	340	334	340	340	336	336	333	336	337	19
20	343	338	344	340	340	338	340	340	334	340	340	338	337	335	336	338	20
21	343	340	344	340	340	338	340	340	336	340	340	338	336	336	336	338	21
22	343	338	344	340	340	338	340	340	336	340	340	339	336	337	336	338	22
23	341	339	344	340	340	339	338	340	338	340	340	339	336	336	338	338	23

Table VI.—Results of Meteveorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-lel) during the Month of July, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall		Duration of Bright Sunshine	Percentage of Possible Sunshine
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration		
JULY	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	973·3	18·7	2·5	14·5	77	16·5	110	8·1	3	16·8	18·2	—	—	20·7	15·4	5·3	6·8	70	8·7	80
2	973·1	20·0	3·5	14·0	68	16·0	100	5·4	5	—	—	—	—	20·7	15·0	5·7	11·0	140	7·8	72
3	974·3	18·1	2·5	13·8	76	15·8	110	8·1	4	—	—	—	—	19·7	15·7	4·0	0·3	5	9·3	86
4	973·6	19·1	3·0	13·9	72	15·9	100	3·6	8	—	—	18·4	16·0	19·8	15·5	4·3	0·3	5	2·5	23
5	971·6	19·5	4·2	12·0	62	14·0	130	2·2	5	15·7	19·0	20·0	14·7	20·6	15·3	5·3	0·0	0	9·4	87
6	971·1	19·4	4·2	11·9	62	13·9	110	5·4	0	13·8	18·7	20·2	15·9	20·7	13·2	7·5	0·0	0	10·6	98
7	972·2	19·2	2·5	15·0	77	17·1	90	5·4	6	14·7	18·5	19·4	13·7	20·4	14·3	6·1	0·0	0	9·9	91
8	970·5	19·3	2·6	14·9	76	16·9	110	4·5	6	13·2	19·0	20·4	14·9	20·9	12·0	8·9	0·5	5	7·6	70
9	971·7	19·5	3·6	13·2	67	15·2	120	5·4	4	14·5	19·3	20·0	16·9	20·5	14·5	6·0	4·6	40	9·3	86
10	972·5	19·6	2·7	15·1	76	17·2	100	8·9	4	16·8	19·3	20·7	18·7	21·6	16·3	5·3	0·7	5	10·3	95
11	973·3	21·5	1·6	19·0	86	22·0	80	6·7	4	18·5	20·7	22·4	19·6	23·3	18·2	5·1	0·7	5	9·7	89
12	973·2	21·6	2·1	18·3	82	21·0	70	6·7	2	19·4	21·4	21·9	19·4	23·2	19·2	4·0	0·5	5	8·6	79
13	973·0	20·7	2·8	16·1	75	18·3	100	4·5	6	17·2	19·8	21·2	17·2	23·3	16·4	6·9	0·0	0	10·0	91
14	972·4	19·4	2·3	15·5	78	17·6	110	4·5	3	17·2	18·6	20·6	16·2	21·6	16·1	5·5	15·7	230	7·5	69
15	971·3	16·9	1·3	14·7	87	16·7	120	8·5	8	15·8	16·3	18·4	—	19·4	15·5	3·9	22·8	335	6·3	58
16	971·3	19·1	2·3	15·2	79	17·3	100	8·5	1	—	—	—	—	20·0	15·1	4·9	0·0	0	9·3	85
17	971·7	19·5	3·4	13·6	69	15·6	95	2·2	6	—	—	19·5	14·7	21·5	14·8	6·7	1·2	15	7·3	67
18	972·1	18·9	4·0	11·7	63	13·7	110	5·4	2	14·2	18·6	19·4	16·4	20·5	14·0	6·5	1·9	15	9·9	90
19	972·0	17·4	2·1	13·8	79	15·8	130	8·9	5	15·9	16·9	17·9	15·6	18·4	15·3	3·1	12·6	170	9·8	89
20	972·7	17·4	2·6	12·8	74	14·8	110	5·4	6	14·1	17·0	17·4	14·9	19·8	14·1	5·7	0·0	0	7·3	67
21	972·5	16·9	1·0	15·2	91	17·3	105	2·2	8	13·6	16·2	19·8	16·9	20·0	13·3	6·7	6·6	70	7·0	64
22	973·0	19·7	2·0	16·4	82	18·7	90	6·7	6	16·2	19·3	—	—	20·5	15·2	5·3	4·9	55	9·1	83
23	973·7	19·2	1·9	16·0	82	18·2	100	2·7	6	—	—	—	—	20·6	15·3	5·3	2·9	25	8·8	80
24	974·2	18·9	2·0	15·6	81	17·7	145	6·3	5	—	—	—	—	20·0	15·4	4·6	2·7	20	7·7	70
25	974·9	17·3	1·2	15·3	88	17·4	125	6·3	7	—	—	19·4	16·2	20·3	15·3	5·0	2·0	15	9·7	88
26	975·1	17·4	1·8	14·3	82	16·3	110	5·4	6	16·0	16·8	18·8	16·4	19·3	16·4	2·9	4·9	55	6·6	60
27	974·8	18·4	1·9	15·1	82	17·2	130	5·4	6	16·2	18·0	17·9	15·7	19·5	15·8	3·7	8·6	110	7·5	68
28	974·2	19·2	3·1	13·8	71	15·8	100	5·4	5	15·4	18·4	20·4	16·6	20·6	14·8	5·8	2·2	15	8·6	78
29	973·1	19·9	2·7	15·4	76	17·5	110	5·4	4	15·8	18·8	19·9	16·6	21·1	15·8	5·3	3·0	40	8·1	73
30	972·9	20·2	2·8	15·5	74	17·6	110	4·5	3	16·2	19·5	20·6	16·3	21·1	15·9	5·2	0·0	0	10·5	95
31	972·8	19·6	3·1	14·3	72	16·3	110	4·5	5	16·3	19·0	19·8	16·9	20·5	15·8	4·7	7·5	100	9·0	82
Mean	972·8	19·1	2·6	14·7	76·3	16·8	—	5·6	4·8	15·8	18·6	19·8	16·4	20·6	15·2	5·4	124·9	1550	8·51	77·8
Average	972·4	19·0	2·1	15·4	80·0	17·5	—	5·1	6·2	—	—	—	—	21·0	15·1	5·9	126·6	2964	6·88	62·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	42·2 mbs	Amount of rain	—	88·8 mms
Temperature of the Air	+	3·1°C	Duration of Bright Sunshine	+	0·2 hrs.
Vapour Pressure	+	0·5 mbs	Mean of Maximum temperatures	+	3·2°C
Relative Humidity	—	11·7 %	,, Minimum temperature	+	1·7°C
Velocity of Wind	—	0·3 mps.	Absolute Maximum temperature	+	2·7°C
			Minimum temperature	+	0·3°C

Table VII.—Daily Results of Meteorological Observations made during the month of July, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
JULY	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1014·8	+ 1·1	23·7	18·2	5·5	20·4	+ 0·4	2·7	15·9	− 0·1	75	− 2	18·1	16·4
2	1014·7	+ 0·9	23·4	18·0	5·4	20·1	+ 0·1	2·0	16·8	+ 0·8	81	+ 4	19·1	16·2
3	1015·5	+ 1·6	23·0	18·8	4·2	20·3	+ 0·3	3·7	14·0	− 2·0	67	− 10	16·0	16·9
4	1014·4	+ 0·5	23·1	18·1	5·0	20·0	0·0	2·8	15·3	− 0·7	74	− 3	17·4	16·2
5	1012·2	− 1·7	23·8	15·0	8·8	19·4	− 0·6	3·2	13·9	− 2·1	71	− 6	15·9	13·2
6	1011·9	− 2·1	23·8	12·5	11·3	18·9	− 1·1	3·5	12·7	− 3·3	67	− 10	14·7	10·5
7	1012·9	− 1·1	23·3	13·2	10·1	18·8	− 1·1	3·0	13·6	− 2·3	72	− 5	15·6	11·3
8	1012·5	− 1·5	24·2	12·3	11·9	17·8	− 2·1	2·8	12·9	− 3·0	73	− 4	14·9	10·2
9	1012·4	− 1·7	23·9	15·7	8·2	20·1	+ 0·2	3·2	14·7	− 1·2	71	− 6	16·7	13·8
10	1013·5	− 0·6	24·6	19·0	5·6	21·5	+ 1·6	2·9	16·8	+ 0·9	75	− 2	19·1	17·0
11	1014·3	+ 0·2	26·0	21·0	5·0	22·9	+ 3·0	2·1	19·7	+ 3·8	83	+ 6	23·0	19·2
12	1014·3	+ 0·2	25·6	19·3	6·3	22·3	+ 2·5	2·1	19·0	+ 3·2	82	+ 5	22·0	17·4
13	1013·5	− 0·6	24·7	17·0	7·7	20·5	+ 0·7	2·8	15·8	0·0	74	− 3	17·9	15·2
14	1012·5	− 1·6	24·5	16·2	8·3	20·6	+ 0·8	2·9	15·8	0·0	74	− 3	17·9	14·3
15	1012·0	− 2·1	22·8	18·4	4·4	20·0	+ 0·2	2·8	15·3	− 0·5	74	− 3	17·4	16·6
16	1012·3	− 1·8	23·4	18·0	5·4	20·4	+ 0·6	3·2	15·0	− 0·8	71	− 6	17·1	16·0
17	1012·6	− 1·5	23·6	16·0	7·6	19·6	− 0·2	2·4	15·6	− 0·2	78	+ 1	17·7	14·2
18	1013·4	− 0·7	23·7	14·9	8·8	19·3	− 0·5	3·2	13·8	− 2·0	71	− 6	15·8	13·0
19	1013·3	− 0·8	22·0	18·0	4·0	19·5	− 0·3	3·2	14·0	− 1·6	71	− 6	16·0	16·2
20	1013·4	− 0·7	22·6	16·6	6·0	19·0	− 0·8	3·1	13·6	− 2·0	71	− 6	15·6	14·6
21	1013·2	− 0·9	23·8	15·2	8·6	19·6	− 0·2	2·8	14·9	− 0·7	74	− 3	16·9	13·4
22	1014·2	+ 0·1	24·0	17·8	6·2	20·4	+ 0·7	2·7	15·9	+ 0·4	75	− 2	18·1	15·9
23	1014·8	+ 0·7	24·4	18·0	6·4	20·5	+ 0·8	3·1	15·3	− 0·2	72	− 5	17·4	15·6
24	1015·7	+ 1·6	23·6	15·2	8·4	19·8	+ 0·1	2·7	15·3	− 0·2	75	− 2	17·4	13·2
25	1016·8	+ 2·7	24·1	16·9	7·2	20·2	+ 0·5	2·9	15·3	− 0·2	78	− 4	17·4	15·4
26	1017·0	+ 2·9	23·0	18·4	4·6	20·0	+ 0·3	2·7	15·5	0·0	75	− 2	17·6	16·2
27	1016·3	+ 2·2	23·1	18·4	4·7	20·1	+ 0·4	2·8	15·4	− 0·1	75	− 2	17·5	16·3
28	1015·5	+ 1·4	24·0	15·6	8·4	19·8	+ 0·1	3·0	14·7	− 0·8	72	− 5	16·7	13·4
29	1014·1	0·0	24·0	17·9	6·1	20·3	+ 0·6	2·2	16·7	+ 1·2	80	+ 4	19·0	16·0
30	1013·7	− 0·4	24·5	18·2	6·3	20·7	+ 1·0	2·9	15·9	+ 0·4	74	− 2	18·1	16·1
31	1013·3	− 0·8	24·5	17·0	7·5	20·5	+ 0·8	2·7	16·0	+ 0·5	76	0	18·2	15·0
Mean	1013·9	− 0·2	23·8	16·9	6.9	20·1	+ 0·3	2·8	15·3	− 0·4	74·1	− 2·8	17·5	15·0
Aver.	1014·1	—	23·7	16.5	7·2	19·8	—	2·5	15·7	—	76·9	—	17·8	13·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF JULY, 1949

Mean pressure was just below normal with no important departures while mean temperature was slightly higher than normal. Rainfall was short, 61% of the average, but was fairly well distributed. Sunshine exceeded the normal by 11·8°.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of July, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temparature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
JULY	mms.	min.	mm.	hrs.	%	m.p.s.	m p.s.	°C.	°C.	°C.	°C.
1	1·6	80	3·5	9·4	86	4·1	+ 0·3	25·4	25·0	23·3	23·2
2	16·1	135	3·9	9·1	83	4·1	+ 0·3	25·4	25·1	23·2	23·2
3	0·0	—	3·2	9·4	86	4·6	+ 0·8	25·4	25·0	23·3	23·2
4	0·0	—	4·0	1·9	17	2·9	— 0·9	25·4	24·9	23·3	23·0
5	0·0	—	3·0	7·5	69	2·3	— 1·5	25·4	25·0	22·7	23·0
6	0·0	—	5·0	10·5	96	3·2	— 0·6	25·4	24·7	22·7	22·9
7	0·0	—	3·8	8·8	81	2·9	— 0·9	25·4	24·6	22·6	22·8
8	0·0	—	3·0	6·6	60	2·8	— 1·0	25·3	24·6	22·5	22·8
9	0·5	25	3·2	9·9	91	4·7	+ 0·9	25·3	24·4	22·3	22·3
10	2·5	65	3·8	10·0	92	5·0	+ 1·2	25·3	24·5	22·3	22·3
11	1·0	70	2·6	9·9	90	3·8	0·0	25·3	24·3	22·3	22·7
12	0·8	10	3·8	8·0	73	3·4	— 0·4	25·3	24·2	22·4	23·5
13	0·0	—	3·3	5·9	54	2·5	— 1·3	25·3	24·3	22·6	23·4
14	1·0	5	3·8	9·2	84	3·7	— 0·1	25·3	24·4	22·6	23·3
15	3·4	130	4·0	6·7	61	5·4	+ 1·6	25·3	24·5	22·6	23·4
16	0·2	15	3·5	9·4	85	4·6	+ 0·8	25·3	24·3	22·6	22·9
17	0·4	5	3·8	8·2	75	2·7	— 1·1	25·3	24·4	22·6	23·0
18	0·0	—	3·5	9·9	90	3·2	— 0·6	25·3	24·3	22·4	22·7
19	7·1	130	5·1	8·9	81	5·3	+ 1·5	25·3	24·3	22·4	22·8
20	0·7	20	5·6	4·7	43	3·6	— 0·2	25·3	24·3	22·4	22·7
21	0·7	15	2·7	9·6	87	3·1	— 0·7	25·3	24·4	22·3	22·3
22	1·3	110	5·0	10·1	92	4·2	+ 0·4	25·3	24·4	22·2	22·4
23	0·2	10	3·6	10·3	93	3·5	— 0·3	25·3	24·2	22·1	22·5
24	0·0	—	3·7	9·1	82	3·6	— 0·2	25·3	24·1	22·1	22·6
25	0·7	20	4·6	9·9	89	4·5	+ 0·7	25·3	24·2	22·1	22·3
26	3·0	60	5·3	7·6	69	4·9	+ 1·2	25·3	24·2	22·0	22·4
27	1·0	30	3·1	9·2	83	5·0	+ 1·3	25·3	24·1	22·1	22·4
28	1·4	45	3·8	7·7	69	4·0	+ 0.3	25·3	24·1	22.0	22·3
29	2·5	70	4·1	7·5	68	3·8	+ 0·1	25·3	24·1	22·0	22·4
30	0·0	—	4·4	10·4	93	3·5	— 0·2	25·3	24·1	22·0	22.5
31	0·0	—	3·4	8·7	78	4·5	+ 0·8	25·3	24·2	22·0	22·7
Mean	Sum 36·1	Sum 1050	3·8	8·51	77·4	3·85	+ 0·07	25·32	24·43	22·45	22·77
Average	59·6	1281	3·6	7·57	68·6	3·78	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JULY, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1018·4mbs	at	10·00 hrs.	on 26th	1010.3 mbs	at	16·00 hrs. on	5th
Temperature of the Air	26·0°C	,,	12 50 hrs.	,, 11th	12·3°C	,,	03·00 hrs. ,,	8th
Daily range of temperature of the Air	11·9°C	,,	—	,, 8th	4·0°C	,,	— ,,	19th
Temperature of the Dew Point ...	—	,,	—	,, —	—	,,	— ,,	—
Daily range of temperature of the Dew Point	—	,,	—	,, —	—	,,	— ,,	—
Minimum on Grass	—	,,	—	,, —	10·2°C	,,	— ,,	8th
Relative Humidity	—	,,	—	,, —	—	,,	— ,,	—
Vapour Pressure	—	,,	—	,, —	—	,,	— ,,	—
Evaporation in 24 hours	5·6mms	,,	—	,, 20th	2·6mms.	,,	— ,,	11th
Wind Velocity	8·9mps	,,	14·00 hrs.	,, 15th	—	,,	— ,,	—
Rainfall in 24 hours	7·1mms ending 07 00 hrs.			,, 19th	—	,,	— ,,	—
Duration of Sunshine	10·5hrs.		—	,, 6th	1·9 hrs.	,,	— ,,	4th

Mean Day Temperature of Air 21·75°C. Average 21·57°C. Mean Night Temperature of Air 18·46°C. Average 18·15°C

NUMBER OF DAYS OF

Rainfall: mms. 0.1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 & over	Lightning	Thunderstorm
2	10	2	—	—	—	—	—	—

Table VIII.—Barogram

JULY 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	157	148	160	158	141	122	134	137	121	135	146	149	140	135	128	124	Midnight
1h	155	150	159	158	137	120	131	138	120	134	146	148	139	132	126	124	1
2	152	150	157	155	130	113	128	130	119	133	140	143	136	130	118	123	2
3	149	147	154	151	126	110	127	129	115	130	138	140	133	128	114	121	3
4	149	142	153	150	125	110	127	128	115	128	137	138	130	126	113	122	4
5	149	143	152	149	120	111	126	127	116	128	134	142	128	128	114	122	5
6	149	147	152	149	120	112	128	128	118	130	137	145	130	129	123	123	6
7	152	152	156	152	124	117	131	130	125	134	145	148	134	130	128	127	7
8	153	156	163	155	129	126	139	133	130	138	148	149	142	133	130	130	8
9	158	157	168	158	133	128	144	139	137	145	150	154	148	141	135	131	9
10	158	156	168	153	130	127	143	132	134	144	153	153	149	140	131	131	10
11	154	150	167	150	128	120	140	129	130	143	150	150	147	131	130	130	11
Noon	148	146	156	147	122	113	130	123	127	137	148	146	140	128	121	126	Noon
13h	141	138	148	138	111	110	124	114	120	129	141	137	131	120	111	114	13h
14	138	133	146	130	108	107	113	108	113	127	134	131	128	111	108	110	14
15	136	132	146	128	105	108	110	108	110	124	134	128	127	110	106	108	15
16	137	133	146	128	103	110	112	110	113	124	133	131	127	110	107	109	16
17	140	137	147	129	108	119	116	112	117	128	136	132	128	111	108	114	17
18	144	142	148	130	112	120	124	115	125	130	140	138	129	113	111	120	18
19	147	148	149	131	115	127	128	119	129	132	148	140	130	119	115	124	19
20	149	150	153	140	122	130	131	126	131	142	149	147	131	125	120	128	20
21	150	150	154	141	125	133	135	128	134	147	150	148	138	128	127	130	21
22	150	157	156	143	126	134	140	128	134	147	152	148	143	128	128	130	22
23	150	159	159	144	124	134	137	127	134	147	151	145	139	128	128	131	23

JULY 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	130	134	140	140	137	144	145	160	166	176	176	164	155	151	144	1014.5	Midnight
1h	130	133	134	140	132	142	144	151	164	174	171	163	154	145	142	1014·3	1
2	128	128	130	137	126	140	141	151	162	169	164	161	144	141	135	1013·9	2
3	124	128	130	132	123	140	140	148	160	166	164	156	142	135	131	1013·7	3
4	122	128	128	129	122	140	140	148	160	162	163	155	141	133	131	1013·5	4
5	124	128	127	129	122	140	142	150	161	162	162	156	141	133	132	1013·5	5
6	120	130	129	135	124	140	142	151	163	164	162	157	142	134	133	1013·7	6
7	128	133	131	140	134	142	147	155	169	167	164	161	144	140	136	1014·1	7
8	133	137	137	144	140	151	154	162	176	176	171	162	147	143	143	1014·6	8
9	141	146	144	152	141	156	159	166	181	181	172	167	152	151	145	1015·1	9
10	139	145	146	147	142	154	160	167	181	184	172	164	151	149	144	1015·0	10
11	132	139	137	142	140	150	154	164	180	182	169	162	145	143	136	1014·6	11
Noon	127	130	130	140	133	142	145	159	172	172	163	154	136	136	131	1014·0	Noon
13	115	125	128	126	122	136	140	150	163	164	160	145	131	130	136	1013·2	13h
14	110	120	122	123	119	130	136	143	160	162	156	140	123	123	121	1012·7	14
15	110	119	120	121	114	126	136	144	156	160	150	139	123	118	119	1012·5	15
16	111	122	121	122	120	126	140	147	159	162	149	141	125	119	125	1012·7	16
17	114	128	122	122	122	131	141	154	160	163	157	144	128	123	126	1013·0	17
18	119	131	128	124	131	137	144	158	163	164	158	147	131	125	128	1013·3	18
19	127	136	135	130	139	141	147	160	166	167	161	153	133	133	131	1013·7	19
20	129	144	140	134	141	145	154	162	174	173	162	156	143	138	132	1014·2	20
21	130	148	141	137	143	153	160	167	178	179	164	161	150	146	134	1014·6	21
22	134	148	142	138	147	151	161	174	180	180	165	162	151	146	135	1014·7	22
23	135	147	141	139	146	146	160	172	180	178	164	158	151	146	134	1014·6	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Recorder

JULY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	0	0	0	0	0	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	10	0	0	10	0	0·8
8	15	60	45	0	30	60	60	20	25	60	35	20	60	30	0	30	10	25	15	5	50	30	35	15	50	10	60	40	35	60	55	17·4
9	15	60	60	0	40	60	35	20	60	60	60	60	60	60	0	60	10	60	60	50	15	15	45	50	40	30	45	35	60	60	60	22·4
10	60	50	60	10	60	60	60	60	60	60	60	60	50	50	35	60	50	60	60	30	15	60	40	50	60	15	50	60	60	60	55	26·3
11	60	35	45	0	60	60	60	55	60	60	60	60	60	55	55	60	45	60	60	55	15	60	45	60	60	50	60	60	60	60	40	27·3
Noon	60	50	35	25	60	60	50	25	60	60	60	60	55	60	40	60	60	60	60	60	60	60	55	40	60	55	50	60	60	60	45	27·6
13	60	40	60	25	60	60	60	60	60	60	60	50	50	55	60	50	40	60	60	50	15	60	45	50	60	45	60	60	55	60	60	27·7
14	60	60	60	25	60	60	60	55	60	60	60	50	60	60	30	60	35	60	60	60	60	60	60	30	60	40	35	60	50	60	55	27·7
15	60	55	60	30	60	60	60	60	60	60	60	60	60	60	60	60	50	60	60	45	60	60	60	50	60	50	40	60	35	60	60	28.9
16	60	50	60	35	60	60	60	40	60	60	60	60	60	10	60	60	60	60	60	50	55	60	60	60	60	35	35	60	60	60	50	28·0
17	50	10	60	0	60	60	60	60	50	60	60	35	60	10	35	60	60	60	60	35	60	60	60	50	55	55	5	20	15	60	45	23·8
18	20	0	15	0	15	15	20	0	0	15	10	0	25	0	5	0	15	30	30	0	15	20	20	5	20	10	0	0	0	20	15	5·7
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 263·7 hrs. and the total possible Sunshine was 341·1 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

JULY 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	0	1	15	0	0	21	17	0	0	0	0	0	16	10	0	3	0	1	0	0	21	15	13	3	17	1	15	1	1	16	17	3·4
8	32	53	58	0	6	60	53	16	53	48	50	50	26	60	25	55	25	44	45	6	38	60	59	58	44	1	60	2	38	60	60	20·7
9	40	60	60	13	11	60	60	19	60	60	45	50	17	60	0	60	8	60	28	15	60	60	60	60	60	7	60	40	54	60	60	22·8
10	60	50	27	4	1	60	60	15	60	60	60	55	50	60	13	50	60	60	35	50	53	57	60	60	60	29	60	60	55	60	60	25·1
11	60	60	55	39	60	60	24	60	60	60	60	60	32	60	15	57	45	60	60	35	45	60	60	60	60	54	60	60	55	60	60	27·6
Noon	60	50	51	33	60	60	18	60	55	60	60	60	39	50	60	50	60	60	60	60	55	60	60	60	60	60	60	50	50	60	60	28·3
13h	60	60	44	14	60	60	50	50	60	60	60	60	2	60	56	58	60	60	60	45	60	60	60	60	60	60	58	60	60	60	60	28·3
14	60	60	60	5	60	60	55	60	60	60	60	58	17	60	55	58	56	60	60	25	60	60	60	58	60	60	47	60	36	60	60	27·9
15	60	55	60	2	60	60	57	60	60	60	60	58	39	60	60	55	60	60	60	30	60	60	60	45	60	60	60	60	16	60	40	27·6
16	60	46	60	0	60	60	58	15	60	60	60	31	58	55	60	60	55	60	60	19	60	60	60	32	60	60	55	45	26	60	27	25·7
17	60	34	60	1	55	55	58	35	53	58	60	0	44	17	52	50	60	59	60	0	60	55	58	44	54	58	33	15	60	60	15	22·7
18	15	15	16	1	10	16	15	7	16	14	11	0	11	0	6	5	6	8	5	0	5	1	5	6	0	5	5	8	0	11	0	3·8
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 263·9 hrs. and the total possible sunshine was 341·1 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

JULY 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	18·5	0·4	18·1	1·3	19·2	2·0	19·5	3·5	19·0	1·8	14·2	1·3	16·5	1·8	12·9	0·8	Midnight
1h	19·2	0·8	18·6	1·3	19·1	2·1	19·4	3·5	19·0	1·8	13·3	1·1	15·3	1·7	13·4	1·3	1h
2	19·2	1·0	18·7	1·0	18·0	1·5	19·1	2·4	18·6	1·5	12·5	1·0	16·2	1·5	12·5	0·5	2
3	19·3	0·9	18·3	0·7	18·9	2·7	19·0	2·4	18·4	1·3	14·2	1·2	17·1	1·3	12·3	0·5	3
4	18·9	1·0	18·7	0·9	18·8	2·5	18·4	1·6	18·8	1·7	16·0	1·3	18·0	1·8	12·6	0·6	4
5	18·9	1·0	18·6	0·7	19·0	2·3	18·3	1·6	18·1	1·1	15·9	1·5	18·0	2·2	12·6	0·6	5
6	18·6	1·0	18·4	1·3	18·9	2·2	18·1	2·2	16·6	0·6	15·0	1·0	17·1	1·7	12·7	0·7	6
7	18·6	0·9	18·1	0·9	19·0	2·6	18·3	1·7	16·7	0·7	15·6	1·4	17·0	1·6	14·0	1·0	7
8	19·4	1·6	19·0	1·5	20·4	3·7	18·7	2·1	18·8	2·2	19·0	2·6	19·0	2·6	16·6	1·5	8
9	20·8	3·1	21·6	3·3	21·7	3·9	20·3	2·9	20·2	3·0	21·2	4·5	21·9	4·6	19·2	2·9	9
10	23·3	5·4	22·0	3·5	21·2	4·1	20·5	2·8	21·4	4·3	22·6	5·7	22·7	5·1	21·6	4·6	10
11	22·9	5·1	23·0	4·0	22·4	4·7	21·9	4·5	23·0	6·1	23·3	6·3	22·3	4·7	22·9	5·4	11
Noon	23·3	4·9	22·3	3·4	22·7	5·0	21·9	3·6	23·7	6·8	23·7	6·5	22·9	4·9	23·6	6·2	Noon
13	23·5	5·5	23·0	4·6	22·4	4·7	22·6	4·1	23·7	7·1	23·7	6·8	22·8	4·9	23·8	6·5	13h
14	23·3	5·4	22·8	3·9	22·5	5·3	22·7	4·5	23·8	7·2	23·7	6·4	23·0	5·3	24·0	6·7	14
15	23·2	5·0	22·0	3·1	22·3	5·8	22·3	4·7	23·7	7·0	23·6	6·2	22·7	5·1	23·6	6·2	15
16	22·9	4·8	21·8	2·8	21·8	5·3	21·0	3·5	22·8	6·0	22·7	5·4	22·0	5·0	22·0	4·4	16
17	22·0	4·0	20·2	1·8	21·0	4·4	20·5	3·1	21·4	4·9	21·5	4·8	21·3	4·6	21·0	4·3	17
18	20·3	3·0	20·1	1·8	19·7	3·3	20·3	2·9	19·5	3·1	20·5	4·2	19·0	3·0	19·1	2·6	18
19	19·0	2·4	19·4	1·2	19·3	3·4	19·9	2·6	17·6	2·0	17·7	2·3	17·5	2·5	17·7	2·1	19
20	18·6	2·2	19·1	1·0	19·2	3·4	19·7	2·4	16·5	1·9	18·1	2·7	16·6	2·1	18·1	2·1	20
21	18·2	2·0	19·5	1·5	19·6	3·9	19·6	2·3	15·6	1·5	18·0	2·5	15·8	1·7	16·4	1·6	21
22	19·4	2·0	19·2	1·4	19·5	3·6	19·7	2·4	16·0	1·8	18·6	3·2	14·8	1·2	16·6	1·5	22
23	18·8	1·3	19·4	1·7	20·1	4·1	19·1	1·9	15·0	1·5	17·4	2·4	13·9	1·0	16·4	1·5	23

JULY 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	16·6	1·7	19·1	1·7	21·2	1·0	21·5	1·0	19·0	1·3	18·5	1·1	19·4	1·3	18·8	2·2	Midnight
1h	17·0	1·7	19·2	1·1	21·7	1·2	21·5	1·1	18·0	1·2	18·2	1·3	19·3	1·0	19·0	2·8	1h
2	17·9	1·9	19·0	1·4	21·7	1·2	21·1	1·0	17·7	1·1	16·8	1·1	19·0	1·0	19·0	2·9	2
3	18·4	2·7	19·2	1·8	21·3	0·8	21·6	1·2	18·1	0·8	16·2	0·7	19·1	1·2	19·0	2·9	3
4	17·3	2·1	19·8	2·4	21·1	0·7	21·0	1·1	18·3	1·3	17·4	0·9	19·2	1·2	18·2	1·6	4
5	16·5	1·9	19·5	2·1	21·4	0·9	21·1	1·0	18·4	1·4	17·9	1·3	18·8	1·4	18·4	1·8	5
6	16·4	1·9	19·7	2·3	21·5	0·9	21·1	1·1	18·4	1·4	16·8	1·0	18·8	1·4	18·2	1·6	6
7	17·0	2·3	19·7	2·3	21·3	0·8	20·7	1·0	19·2	1·6	16·5	0·8	18·4	0·9	18·5	1·9	7
8	19·9	3·6	21·2	3·1	22·3	1·3	22·5	1·7	21·3	3·0	21·0	2·1	19·1	1·6	19·5	2·4	8
9	21·8	4·7	22·7	4·2	23·2	1·9	23·7	2·7	22·4	3·4	22·6	3·7	19·0	1·3	21·0	3·0	9
10	22·6	5·3	23·1	4·7	24·6	3·2	23·9	2·9	23·0	4·2	23·1	4·2	21·0	3·2	21·8	3·2	10
11	22·9	5·4	23·6	5·0	25·1	3·5	24·8	3·8	24·0	4·9	23·7	4·6	20·5	2·9	23·3	4·4	11
Noon	23·3	5·6	24·0	5·4	25·5	4·1	25·4	4·3	24·3	5·4	24·0	5·3	22·0	4·3	22·3	4·1	Noon
13h	23·6	5·7	24·0	5·0	25·7	4·1	25·3	4·2	24·0	5·2	24·4	5·7	22·6	5·1	22·7	4·5	13
14	23·5	5·4	24·2	4·9	25·4	3·9	25·3	4·2	24·3	5·4	24·5	6·0	22·4	4·9	22·8	4·7	14
15	23·4	5·2	23·8	4·4	25·4	4·3	25·3	4·1	24·0	5·2	24·2	5·7	22·1	5·1	23·1	5·5	15
16	22·1	3·6	23·6	4·1	25·0	4·2	24·0	3·4	23·8	5·1	23·1	4·7	21·7	5·0	22·8	5·4	16
17	21·0	3·0	22·7	3·3	23·7	2·9	22·7	2·1	23·0	4·6	22·1	3·9	21·0	4·5	22·0	4·8	17
18	20·2	2·7	21·5	2·4	22·6	1·8	22·1	1·8	21·0	3·0	21·0	3·0	19·9	3·9	21·2	4·6	18
19	19·7	2·0	21·4	2·1	22·0	1·3	21·2	1·6	19·2	2·2	20·3	2·7	19·7	2·8	18·9	2·4	19
20	20·2	2·5	21·2	1·8	21·9	1·3	20·3	1·2	18·3	1·8	20·8	3·1	19·6	3·9	19·2	2·1	20
21	19·6	2·2	21·2	1·7	21·9	1·2	20·0	1·1	17·3	1·3	20·4	2·9	19·6	3·8	19·3	2·1	21
22	19·8	2·1	21·3	1·8	22·0	1·3	19·7	1·3	17·3	1·6	20·2	2·2	19·3	3·7	19·5	2·2	22
23	20·0	2·3	21·3	1·6	21·5	1·1	19·8	1·4	18·2	1·3	20·0	2·1	19·2	2·8	19·8	2·4	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(*To obtain temperatures on the Absolute Scale add 273.*)

MAY 1949

Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	18·8	1·8	17·6	1·3	18·6	1·8	19·0	3·7	17·0	1·4	18·7	1·2	19·2	2·4	17·8	1·3	Midnight
1h	19·8	2·3	17·1	1·1	18·6	1·2	19·1	4·4	16·4	1·5	18·4	0·9	18·6	1·9	18·2	1·3	1h
2	19·1	1·9	17·1	1·2	18·7	1·0	18·6	3·7	17·3	2·2	18·4	1·0	18·9	1·9	17·9	1·2	2
3	18·0	1·5	15·4	1·4	18·5	1·0	18·3	4·0	16·9	1·7	18·5	1·0	18·0	1·6	17·9	1·3	3
4	18·0	1·4	15·0	1·1	18·2	0·6	18·1	2·8	16·4	1·8	18·3	1·0	18·4	1·5	17·0	1·0	4
5	18·0	1·5	15·3	1·0	18·3	2·3	17·8	2·8	16·0	1·5	18·2	0·7	18·4	1·5	16·6	1·1	5
6	17·5	1·5	17·0	1·2	18·3	1·4	17·5	2·6	15·2	1·2	18·0	1·0	18·3	1·0	15·2	1·1	6
7	17·4	2·1	16·0	1·0	18·5	1·8	17·4	2·1	17·0	1·9	18·1	1·4	18·8	1·6	17·8	1·5	7
8	18·5	1·2	18·3	1·8	19·0	2·5	19·2	3·3	19·3	2·6	19·9	2·4	20·3	2·1	20·0	2·4	8
9	19·7	2·1	21·0	3·7	20·5	3·4	20·2	3·8	21·1	3·2	21·7	3·5	22·2	4·0	21·8	3·7	9
10	21·7	2·8	22·2	6·2	19·8	3·2	21·8	5·0	21·9	4·0	22·2	4·0	23·2	4·6	22·6	4·3	10
11	21·3	2·9	22·9	6·2	21·6	4·9	21·4	4·7	21·8	3·9	22·9	4·5	23·8	5·5	22·1	4·1	11
Noon	23·6	4·7	23·0	6·2	21·6	4·8	22·6	6·0	23·1	5·1	23·7	5·3	24·0	5·6	23·6	5·0	Noon
13h	23·3	4·5	23·6	6.2	21·6	5·1	22·2	5·2	23·7	5·8	23·9	5·3	24·4	6·1	23·0	4·6	13h
14	23·2	4·3	23·4	6·3	21·8	4·6	21·0	3·8	23·7	5·7	23·6	5·3	24·3	6·2	23·0	4·6	14
15	22·5	4·5	23·0	5·8	21·3	4·9	20·8	3·8	23·1	5·2	23·2	4·6	23·0	5·4	22·7	4·6	15
16	22·5	4·5	22·3	5·4	21·1	4·8	19·2	2·2	22·6	4·7	22·8	4·4	23·1	5·4	22·0	3·7	16
17	21·7	3·3	21·6	4·8	20·6	4·3	19·0	1·7	21·7	3·9	21·9	3·9	22·0	4·6	21·3	3·8	17
18	20·3	2·8	20·0	3·5	19·1	3·9	18·2	2·0	20·1	2·6	20·5	2·8	20·3	2·8	20·1	3·0	18
19	18·4	1·9	18·8	2·7	18·6	3·8	17·3	1·7	19·1	2·0	19·8	2·5	19·2	2·2	19·3	2·2	19
20	17·0	1·3	17·8	2·1	18·5	4·0	17·2	1·7	18·3	1·7	19·3	2·3	18·9	2·1	19·0	1·8	20
21	16·1	1.4	17·9	2·1	18·7	4.2	17·1	1·7	19·0	1·6	18·8	2·0	18·3	1·8	18·6	1·9	21
22	17·6	1·2	18·6	2·1	18·1	3·6	16·8	1·8	19·5	1·6	19·3	1·9	18·4	1·7	19·0	2·3	22
23	17·5	1·2	18·6	1·7	19·0	2·8	17·5	1·5	18·8	1·1	19·1	1·8	18·6	1·7	18·1	2·2	23

MAY 1949—*continued*

Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	18·0	2·4	19·7	2·8	19·2	2·2	18·3	1·5	18·9	1·8	19·0	1·3	18·7	1·9	18·4	1·7	Midnight
1h	17·7	2·2	18·8	2·5	19·2	2·4	18·1	1·2	18·3	1·3	18·8	1·5	18·5	1·6	18·3	1·7	1h
2	17·8	2·0	19·0	2·0	19·4	2·5	18·4	1·1	18·4	1·2	18.8	1·5	18·4	1·4	18·2	1·6	2
3	17·2	1·8	18·9	2·0	18·7	1·8	18·4	1·4	18·0	1·1	18·9	1·6	19·0	2·1	18·1	1·6	3
4	17·2	1·8	18·6	1·9	18·7	2·0	18·2	2·6	18·5	1·3	19·0	1·7	19·0	1·9	18·1	1·5	4
5	18·1	1·6	19·0	2·0	19·0	2·4	17·4	2·5	18·4	1·4	18·7	1·7	18·3	1·8	18·0	1·5	5
6	18·4	1·7	18·7	1·7	19·2	2·6	16·7	1·9	18·4	1·3	18·4	1·5	17·3	1·3	17·8	1·5	6
7	18·6	1·9	18·8	1·6	19·2	2·7	16·0	1·6	18·4	1·5	18·6	1·6	17·4	1·1	18·0	1·6	7
8	19·9	2·9	18·6	1·3	20·4	3·7	16·4	1·8	19·8	2·2	21·0	2·5	20·5	2·6	19·6	2·3	8
9	21·2	3·1	19·6	1·4	22·0	4·1	19·0	2·4	21·2	3·1	22·2	3·3	22·0	4·0	21·2	3·2	9
10	22·7	4·4	18·8	1·2	22·9	5·5	22·7	5·8	22·7	3·9	22·9	4·1	23·1	5·1	22·2	4·2	10
11	22·6	4·6	21·0	3·1	23·1	5·5	23·0	5·9	23·4	4·8	23·3	4·6	23·6	5·4	22·8	4·7	11
Noon	23·2	4·5	22·8	4·4	22·8	5·0	23·7	7·1	23·4	4·7	23·9	5·2	24·0	5·4	23·4	5·2	Noon
13h	23·4	4·8	22·6	4·8	23·0	5·0	23·7	6·1	24·0	4·7	24·3	6·1	24·5	5·9	23·5	5·3	13h
14	23·3	4·9	22·8	4·7	21·6	3·1	23·8	5·5	23·3	4·0	24·5	5·9	24·0	5·7	23·4	5·1	14
15	23·1	4·5	22·2	4·2	22·0	4·0	23·1	5·6	21·6	3·0	24·0	5·6	23·7	5·1	23·0	4·9	15
16	22·5	4·1	21·3	3·2	21·4	3·4	22·5	4·7	20·5	2·0	23·0	4·5	21·3	2·3	22·3	4·3	16
17	21·0	2·9	21·1	3·4	19·0	1·4	20·5	2·6	21·5	2·3	21·8	3·5	21·0	2·4	21·4	3·6	17
18	19·9	2·1	20·0	3·0	18·8	1·5	19·4	1·3	20·6	2·1	20·7	2·8	20·0	2·0	20·2	2·8	18
19	19·5	1·9	19·7	2·6	18·4	1·4	18·7	1·0	20·2	1·7	19·6	2·1	19·4	1·4	19·2	2·1	19
20	19·5	2·1	19·3	2·7	18·9	1·3	19·0	1·5	20·0	1·6	19·0	1·6	19·9	1·6	19·0	2·1	20
21	19·6	2·1	19·7	3·2	18·5	1·6	19·4	1·8	19·2	1·0	19·1	1·6	19·8	1·5	18·8	2·0	21
22	19·6	2·3	19·6	3·0	18·7	1·2	19·6	2·0	19·3	1·0	18·9	1·5	19·5	1·1	18·9	2·0	22
23	19·6	2·5	19·5	2·9	18·8	1·3	19·0	2·0	19·3	1·1	18·4	1·4	19·2	1·1	18·7	1·8	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during May, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24
The Velocities are given in Metres per Second, using the factor 2·2
*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

JULY 1949

Day	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	1·8	10	2·1	11	4·3	11	1·7	12	1·5	11	1·8	10	1·5	11	1·8	11	2·6	09	5·3	10	3·7	10	2·9	08	1·2	11	1·2	10	4·5	10	5·8
1h	10	3·2	10	3·1	10	3·6	11	1·7	12	1·5	11	1·5	10	1·8	11	1·7	11	2·4	05	4·2	09	4·1	10	3·6	08	1·0	12	1·9	11	4·6	10	5·5
2	10	4·1	10	2·4	11	4·4	11	3·0	12	1·4	11	1·2	10	1·9	11	2·1	11	2·8	11	5·7	09	3·8	08	2·7	08	1·2	14	1·6	10	5·0	11	4·9
3	09	3·7	10	2·6	11	4·2	09	2·2	12	1·7	11	2·1	10	2·1	11	2·5	11	3·6	09	4·1	08	4·4	08	3·2	08	1·4	14	2·2	11	5·8	11	4·3
4	10	4·5	10	2·6	11	4·0	11	1·2	13	2·7	10	3·1	11	3·7	11	2·7	12	2·6	08	4·9	08	3·5	08	3·2	08	1·9	10	2·1	11	5·6	09	3·2
5	10	3·7	10	4·5	10	3·4	11	0·8	14	2·9	10	4·3	10	2·3	11	2·3	12	2·5	09	4·2	09	4·1	10	3·1	08	2·0	10	3·4	11	5·0	11	3·4
6	10	4·1	10	3·6	11	4·2	10	2·3	14	2·2	10	1·8	10	2·5	11	2·0	11	3·3	08	4·4	09	3·3	09	2·8	09	1·4	10	2·8	11	5·7	10	3·9
7	09	3·7	10	2·1	11	4·1	11	3·3	14	1·6	11	2·6	10	3·0	11	2·2	11	3·2	10	3·8	09	2·9	09	1·6	08	3·0	11	2·1	09	6·0	10	4·1
8	10	2·4	10	2·1	11	5·1	07	2·0	12	1·7	11	2·4	10	2·3	11	1·8	11	3·8	10	4·9	09	3·4	09	2·9	10	3·7	11	2·2	11	6·0	10	5·0
9	10	4·1	10	3·5	11	6·5	11	2·8	14	2·4	11	4·4	08	3·1	11	4·1	12	4·1	09	6·0	08	3·9	09	4·4	10	3·7	11	3·9	10	5·3	11	6·4
10	09	6.6	08	5·5	10	5·8	08	3·3	13	3·8	11	5·3	09	4·9	10	3·8	10	5·7	08	6·7	08	4·1	09	4·3	11	4·3	10	6·3	11	5·8	09	7·2
11	10	6·8	08	5·1	10	5·6	10	5·1	10	3·7	11	5·4	09	4·1	11	3·5	11	6·5	09	7·1	08	5·7	07	5·1	10	4·5	10	4·3	10	5·9	10	5·0
Noon	10	6·4	08	5·4	09	6·4	12	5·7	11	3·3	09	4·2	08	5·3	10	4·0	10	6·3	08	7·1	07	5·7	07	6·2	11	4·8	11	6·3	11	8·4	09	6·7
13h	10	6·9	09	5·9	10	6·2	11	5·2	10	2·8	10	4·9	11	5·0	09	4·1	09	6·4	08	6·9	08	4·8	08	5·9	10	4·2	11	5·3	11	8·6	08	7·0
14	09	7·0	09	5·5	10	6·9	10	4·0	11	2·8	10	4·4	08	4·9	08	4·4	10	7·2	09	6·5	08	4·3	09	4·3	10	4·2	10	4·7	11	8·9	09	6·4
15	09	6·4	11	5·1	10	7·0	09	4·5	12	3·1	10	4·2	10	5·0	10	4·4	10	7·1	10	5·5	09	4·3	09	4·7	10	3·3	11	5·5	11	7·7	08	6·2
16	10	5·1	10	5·0	10	6·4	06	3·7	13	3·4	10	4·0	10	3·8	14	3·3	11	7·1	11	5·7	09	5·2	08	3·9	11	3·2	11	3·8	10	8·0	09	6·3
17	11	4·0	11	4·0	10	5·0	11	3·0	11	2·8	10	3·8	10	3·4	11	3·0	10	6·2	09	2·9	10	4·0	09	3·9	11	2·1	10	4·4	10	6·0	09	5·0
18	10	2·3	11	4·6	10	3·1	11	2·6	11	1·5	11	2·1	11	2·3	11	2·1	09	5·6	10	6·3	10	3·2	09	2·0	11	2·1	10	3·4	10	3·3	08	3·6
19	10	3·2	10	4·7	11	3·3	12	3·1	11	1·7	11	1·9	11	2·1	11	2·4	10	3·7	10	4·4	10	2·8	08	2·2	11	1·5	10	3·1	11	2·3	08	2·6
20	10	1·3	09	4·0	10	2·6	13	1·8	11	1·7	11	2·9	11	1·4	11	2·6	11	4·3	10	3·7	10	2·4	08	2·0	10	1·8	10	3·2	10	2·6	08	2·9
21	10	2·1	11	4·7	10	2·6	12	2·3	11	1·5	11	3·2	11	1·8	11	1·4	11	5·1	10	3·1	10	2·8	09	2·8	10	1·3	10	3·8	10	2·6	08	2.9
22	10	3·1	11	4·8	11	2·6	12	2·1	11	2·1	10	3·1	11	1·1	11	2·7	09	4·4	10	3·5	10	2·8	09	2·0	11	1·1	10	4·4	09	2·4	08	2·4
23	10	2·7	11	4·4	11	3·5	12	1·8	12	1·1	10	2·1	11	1·5	11	2·4	09	4·8	09	3·9	10	2·4	10	2·3	11	1·3	11	4·4	09	3·7	08	3·3

JULY 1949—*continued*

Day	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean
Hour	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	08	1·1	11	1·9	12	2·1	10	3·0	12	1·4	11	2·2	11	4·3	11	1·8	12	1·3	11	5·4	12	3·2	11	3·6	09	2·0	12	2·2	11	2·6	2·6
1h	08	3·1	10	1·4	11	3·2	10	2·4	11	2·0	10	3·0	10	3·6	11	2·4	10	2·9	11	4·2	12	2·9	11	3·0	10	4·0	10	2·9	11	2·7	2·9
2	08	2·6	08	1·3	08	3·4	11	3·4	11	2·9	10	3·6	11	2·9	11	2·6	11	1·9	11	3·9	11	3·9	10	3·3	10	2·2	11	2·6	11	1·8	2·9
3	11	2·7	15	2·0	10	4·4	11	2·6	11	2·3	10	3·3	10	3·2	11	1·7	11	2·5	11	3·7	11	2·6	10	2·1	10	3·1	11	2·2	11	3·3	3·0
4	11	2·3	15	2·1	11	3·7	11	3·2	11	2·1	10	4·2	11	2·9	11	1·1	11	1·9	11	3·2	13	2·2	10	3·0	10	3·4	11	2·8	12	4·0	3·0
5	11	2·3	15	2·5	11	5·9	11	3·5	11	2·1	11	4·1	10	3·1	11	1·5	11	2·7	11	3·5	12	5·1	10	1·7	10	2·7	11	2·2	11	2·9	3·2
6	11	2·0	12	2·9	11	6·1	11	3·6	11	2·1	11	4·3	10	3·6	11	1·0	11	2·7	11	3·8	12	4·7	10	2·7	11	2·7	11	2·4	11	2·4	3·1
7	11	2·1	12	1·1	10	4·6	11	2·0	11	3·4	10	2·5	10	4·0	11	3·2	11	3·5	11	4·4	11	4·9	11	1·9	10	3·1	11	2·7	11	2.1	3·1
8	11	2·2	12	1·8	12	4·9	10	4·0	11	3·0	10	3·1	11	2·9	12	3·5	10	4·1	11	3·8	11	3·9	10	2·7	10	3·2	11	2·2	11	2·3	3·2
9	11	2·6	10	2·8	11	5·9	11	3·1	11	4·1	10	4·1	10	4·8	11	3·6	09	5·9	09	4·0	12	5·6	08	3·3	08	5·0	10	3·8	11	4·1	4·2
10	09	2·1	11	5·0	10	7·3	10	4·8	11	3·5	09	5·6	09	4·7	11	5·5	11	7·3	09	5·3	11	7·3	08	6·8	09	5·3	10	5·7	11	5·6	5·3
11	08	3·9	10	5·5	11	7·8	09	5·7	11	4·2	10	5·8	07	5·4	11	5·2	09	6·7	10	6·8	11	7·5	08	6·8	11	5·1	09	5·5	12	5·7	5·5
Noon	08	3·9	11	6·0	12	7·2	11	6·0	10	4·3	10	6·7	10	5·5	11	6·9	12	7·0	10	6·7	11	7·0	08	7·3	10	6·2	11	4.9	10	6·5	5·9
13h	10	4·0	11	5·8	12	7·7	11	6·6	10	4·4	10	6·1	10	4·9	11	6·4	10	7·2	11	7·2	12	7·3	10	6·4	10	5·3	12	5·1	10	5·6	5·8
14	09	4·6	10	5·5	11	6·9	10	5·2	10	4·4	08	6·6	10	4·8	10	6·8	10	7·0	11	8·6	10	5·1	10	7·3	08	5·0	12	5·1	10	6·3	5·7
15	10	4·0	11	5·3	11	9·1	11	5·5	10	4·4	10	6·1	10	4·5	12	6·4	10	6·7	12	7·9	11	8·5	10	6·5	10	5·1	10	5·2	11	5·3	5·6
16	10	3·4	10	5·7	11	6·7	09	4·9	10	4·3	10	5·8	10	4·3	11	5·0	10	6·0	12	6·1	12	6·2	09	5.6	12	4·3	11	5·0	12	5·5	5·1
17	10	2·8	11	4·6	09	7·2	11	2·8	10	3·9	09	4·4	11	3·4	11	5·0	11	5·5	11	5·0	11	5·6	11	4·4	11	3·3	11	4·9	12	4·9	4·2
18	07	1·8	11	2·9	09	4·8	11	2·9	10	2·8	10	3·3	11	2·6	12	3·4	11	4·3	12	4·8	12	5·3	08	3·7	09	3·0	11	3·2	12	4·7	3·3
19	10	1·9	11	2·0	10	4·9	11	2·3	11	1·5	11	3·8	11	1·8	11	3·2	11	4·7	12	4·0	11	4·2	10	3·4	11	3·5	12	2·7	12	4·4	3·0
20	13	1·8	11	2·0	10	4·2	10	2·7	11	1·5	11	2·6	11	1·9	12	2·1	11	4·7	12	3·5	11	4·2	10	3·1	10	3·8	12	2·8	11	4·8	2·8
21	13	1·6	11	2·1	10	3·7	11	2·3	11	3·4	11	3·1	11	2·2	10	2·7	11	3·2	12	3·3	12	4·3	10	3·0	11	4·3	12	2·4	11	5·9	3·0
22	13	3·0	11	2·3	11	3·0	11	2.8	11	3·6	11	4·0	11	2·1	10	3·3	12	2·8	11	4·5	10	4·5	10	2·9	11	2·1	10	2·8	10	6·4	3·1
23	14	2·2	12	2·5	10	2·9	11	2·8	11	2·8	10	2·5	11	1·7	12	2·2	11	4·3	12	4·0	11	3·6	10	2·0	12	3·0	10	1·8	11	6·1	2·9

Table XIII.—Wind Frequency (Number of Observations), July, 1949

Hour	Force (0–12)			Direction															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	1	30	...	...	...	...	6	7	16	1	1	...	...	...	...	...	...	...
9	...	6	25	...	...	...	...	8	8	14	1	...	...	...	...	...	...	...	...
15	...	15	16	...	...	...	...	5	15	11	...	...	...	...	...	...	...	...	...
21	...	1	30	...	...	...	...	2	10	19	...	...	...		...	...	...	...	...
Totals	...	..	...	...	...	...	...	21	40	60	2	1	...	...	...	...	...	...	...

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, July, 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	0·3	0·3	.	...	...	...	..	...	...	0·2	...	...	...	...	0·7	...	...	...	0·3	...	...	0·3	...	...	...	...	...	..	0·2	...	...
2	0·4	0·3	...	...	...	...	...	...	...	0·6	...	...	...	...	1·3	...	...	...	1·0	...	...	...	...	...	...	...	...	..	1·3	...	...
3	...	1·7	...	...	..	...	...	...	...	1·7	...	0·4	...	...	0·1	...	...	...	0.3	...	...	...	0·2	..	...	...	...	..	...	...	...
4	0·5	0·1	...	..	...	...	...	...	...	...	0·6	...	...	...	0·2	...	...	...	3·4	...	...	0·2	...	...	...	...	...	...	...	...	...
5	...	2·2	...	...	...	...	...	...	...	..	...	...	...	...	...	0·2	...		1·9	...	...	0·5	...	...	...	...	...	...	...	...	...
6	0·4	...	...	...	...	...	...	...	...	...	0·3	...	...	...	..	...	...	..		...	...	0·3	...	...	...	0·2	...	...	...	...	...
7	...	0·2	...	...	...	...	...	...	...	...	0·1	...	...	...	0·8	...	...	...	0·2	...	...	...	...	...	...	0·4	...	...	...	...	...
8	...	...	..	...	...	...	..	...	...	...	...	...	.	...	0·3	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	...	0·2	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...
11	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...
Noon	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·1	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	0·1	...	...
17	...	0·2	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	0.2	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	0·3	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	0 3	...	...	...
20	...	0·4	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	0·6	0·1	...	...
21	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	0·2	...	0·3	..	...
22	...	0·6	...		...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	0·5	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	0·5	...	...	...	...	1·0	...	...	...	..	...	...	0·4	...	...	...	...	...	0·6	...	...	...	...

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for July, 1949

Day / Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	0·8	0·4	...	...	...	...	...	...	...	...	...	0·2	...	...	1·5	...	...	...	1·6	...	...	0·9	...	0·5	...	0·3	...	...	...	...	...
2	1·5	1.2	...	...	...	...	...	...	...	...	0·2	...	...	...	3·2	...	...	0·5	3·6	...	...	0·5	...	...	...	...	...	0·1	...	...	...
3	..	...	...	...	...	...	...	...	...	...	0·1	...	...	...	3·8	...	...	...	4·1	...	0·6	2·6	...	...	...	...	0·2	0·1	...	...	...
4	1·1	0.4	...	...	...	...	...	...	...	...	...	...	...	...	6·5	...	...	...	1·2	...	...	0·6	0·3	...	...	0·2	...	0·4	...	...	...
5	1·7	0.2	...	...	...	...	...	...	...	0·1	...	0·2	...	...	1·3	...	...	0·3	0·3	...	...	0·3	...	..	0·1	0·3	...	...	...	...	...
6	0·2	0.5	0·3	...	...	...	...	...	...	0·4	0·2	0·1	...	...	2·4	...	...	.	0·9	...	...	...	1·2	1·0	...	0·7	...	...	...	...	...
7	0·1	1.1	...	...	...	...	...	...	...	...	...	...	...	...	1·3	...	...	...	0·8	...	...	...	0·2	0.1	...	0·5	...	...	...	...	...
8	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	1·8	...	...	...	0·1	...	...	...	0·1	...	...	...	...	...	...	...	...
9	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	0·5	...	...	...	...	0·9	...	0·5	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	...	0·2	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...
Noon	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	0·1	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	0·4	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	0·9	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...
16	...	...	...	..	...	...	...	...	0·5	...	...	...	...	0·3	...	...	...	...	...	...	0·1	...	...	...	...	0·2	...	..	...	...	...
17	...	0·6	...	...	...	...	...	...	...	...	...	...	...	4·0	...	...	...	...	...	...	...	...	...	...	0·2	...	0·5	...	...	...	0·2
18	...	0·4	...	...	...	...	...	...	1·8	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	0·2	...	1·6	...	2·0	...	0·3
19	...	0·4	...	...	...	...	...	...	0·7	...	...	...	...	1·2	...	..	...	...	...	...	0·4	...	0·8	...	...	...	2·0	0·4	0·5	...	0·4
20	...	2.0	...	...	...	..	...	...	0·7	...	...	...	...	0·7	...	...	...	0·1	...	...	0·6	...	...	...	0·3	...	0·6	0·2	0·2	...	1·7
21	...	2·2	...	...	...	...	...	...	0·4	...	0·1	..	...	1·4	...	...	...	...	...	...	1 5	...	...	0·6	0.5	...	0·3	0·1	...	...	1·2
22	...	1·4	...	...	...	...	...	0·5	0.5	...	...	...	...	3·5	...	...	0·2	0·1	...	...	0·3	...	...	...	0·2	...	1·3	0·3	0·3	..	1·2
23	0·4	0·2	..	...	...	...	...	...	...	...	...	...	...	2·2	...	...	...	0·2	...	...	0·8	...	0·3	...	...	0·1	0·1	...	...	...	1·9
24	...	...	...	...	...	...	...	...	...	0·2	0·1	...	...	1·7	...	..	1·0	0·7	...	...	1·1	...	...	...	...	0·2	2·0	0·1	...	...	0.6

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, July, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	0·58	14·6	...	7
B. River	Pierre Fonds ...	...	1·77	45·0	1 14	8
	La Ferme ...	350	0·24	6·1	1·25	8
	Richelieu ...	...	0·71	18·1	...	9
	Mon Repos (Palmyre)	...	0·34	8·6	...	3
	Médine ...	...	0·28	7·1	...	2
	La Meque ...	..	0·23	5·8	...	2
	Albion ...	...	0·25	6·4	...	2
	Beaux Songes ...	...	0·50	12·7	...	1
	Clarens	...	0·44	11·2	...	1
	Mare-Longue ...	...	8·98	228·1	...	24
	Mon Désert ...	...	0·38	9·7	...	1
P/mousses	Botanical Gardens	325	1·70	43·2	3·21	22
	Solitude ...	175	0·95	24·1	1·44	5
	La Nicolière ...	...	4·05	102·9	4·89	22
	The Observatory	179	1·42	36·1	2·28	20
	California ..	...	4·80	121·9	...	...
Rivière du Rempart	St. Antoine ...	50	2·32	58·9	2.72	...
	Bel Mont ...	50	2·09	53·1	2·86	...
	Poudre d'Or ...	20	2·37	60·2	2·89	...
	Mon Loisir ...	300	2.52	64·0	3·54	14
	Forbach ...	...	1·92	48.8	2·08	8
	Couroupa ...	...	1·39	35·4	3·09	7
	Labourdonnais	290	1·79	45·5	3·10	10
	Beau Séjour ...	300	8·95	227·3	4·16	19
	Mont Piton ...	680	2·45	62·2	4·16	13
	Mon Choix ...	700	2·29	58·2	3·54	13
	Antoinette ...	640	3·01	76·5	3·96	15
	Ravensworth ...	...	3·30	83·8	...	10
	Mon Songe ...	620	3·79	96.3	4·23	12
Moka	Bonne Veine ...	400	7·36	186·9	7·60	24
	Le Réduit ...	1,000	3·41	86·6	2·50	20
	Alma ...	1,460	7·22	183·4	7·97	22
	Mon Désert ...	1,450	3 57	90·7	...	18
	Hermitage ...	...	3·69	93·7	7·32	16
	Côte D'Or ...	..	14·35	364·5	...	14
	Béga ...	...	2·00	50·8	...	12
	Mon Rêve ...	...	3·26	82·8	...	15
	Mont Pévril ...	...	3·10	78·7	...	15
	Minissy ...	1,150	3·41	86.6	3 20	15
Plaines Wilhems	Curepipe Gardens ...	1,840	9·24	234·7	8·17	24
	Aerological Station ..	1,393	4·92	124·9	4·50	24
	Mare-aux-Vacoas (G.E.) ...	1,850	11·31	287·3	11·28	25
	Mare-aux-Vacoas (Arn.) ...	1,830	11·99	304·5	11·21	27
	La Marie Filter Beds ...	1,700	6·64	168·7	6·75	19
	Réunion	1,420	5·53	140·5	5·15	19
	Phœnix	...	4·54	115·3	...	9
	Quatre Bornes... ...	...	2·40	61·0	...	9
	Bagatelle	1,250	5·31	134·9	3·96	19
	Pétrin	..	12·43	315·7	...	25
	Henrietta	...	3·63	92·2	...	18
	Tamarin-Falls	...	6·61	167·9	...	16
	Tamarin	...	0·80	20·3	...	2
	Moon	...	2·40	61·0	...	12
	La Pipe and Midlands Dam	...	11·16	283·5	...	21

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches	Number of days
	Highlands	1,300	5·61	142.5	4·49	19
	Trianon	950	2·78	70·6	2·73	12
	Bassin	..	1·99	50.5	2·14	13
	Ebène	630	2·74	69·6	...	16
Flacq	Mare Sèche	20	...	...	2·32	...
	Australia	...	3·44	87·4	...	...
	Union Régnard S.E. ...	600	5·03	127·8	4·83	18
	Constance La Gaieté ...	100	3·39	86·1	3·73	15
	Belle Vue (Allendy) ...	900	3·87	98·3	4·07	16
	Sans Souci	20	7·10	180·3	9·73	15
	Beau Champ G.R.S.E. ..	400	2·67	67·8	3·19	21
	Olivia	...	3·73	94 7	5·57	20
	Rich Fund	...	4·20	106·7	...	15
	Trois Ilots	...	2·42	61·5	...	19
	Belle Rive	400	6·00	152·0	6·43	17
G. Port	Rose Belle	850	7·98	202·7	8·40	25
	New Grove	650	5·80	147·3	8·48	9
	Union Park	...	9·42	239·3	...	25
	Deux Bras	...	5·56	141·2	...	15
	Astroea	...	6·19	157·2	...	19
	Mon Trésor	...	2·50	63·5	...	9
	Beau Vallon... ...	...	1·73	43·9	...	7
	Union Vale	...	2·44	62·0	...	15
	Mon Désert Carié ...	75	2·11	53·6	2·98	13
	Ste. Hélène	...	2·05	52·1	...	7
	Ferney	20	3·20	81·3	5·00	14
	Sauve Terre... ...	...	2·84	72.1	...	13
Savanne	Tivoli	1,300	6 64	168·7	9·38	20
	La Flora	1,050	7·96	202·2	8·67	19
	Riche Bois	650	3·77	95·8	6·92	18
	Britannia	700	5·54	140·7	6·45	21
	Savannah	200	1·84	46.7	3 86	13
	Terracine	...	3·16	80·3	...	23
	St. Aubin	300	1·45	36.8	4·53	12
	St. Avold	900	4·89	124.2	7·38	20
	Combo	...	4·53	115·1	...	21
	Colmar	400	5·79	147.1	5·27	20
	Union S.E.	...	2·67	67·8	3·95	18
	Fontenelle	320	3·94	100·1	4·55	20
	Choisy	...	...	..	2·90	...
	Beau Bois	...	5·36	136·1	...	22
	Bel Air	...	...	...	3·70	...
	St. Félix	...	...	...	...	...
	Bel Ombre	40	2·88	73·2	2·94	...
	Beau Champ B. du Cap ...	...	3·25	82·6	2·75	...
	Frédérica	...	4·11	104·4	3·50	...
	Ste. Marie	...	3·51	89·2	...	...
	Beau Climat... ...	...	8·95	227·3	...	19
St. Brandon	Met. Station... ...	...	2·68	68·1	...	21
Agalega	Met. Station... .	...	5·60	142·2	...	25
Rodrigues	Oyster Bay	...	1·44	36·5	...	12
Chagos-Archipelago	Salomon Islands (Boddam).	...	29·10	739·1	...	14

Table XVI.—Observations of Pilot Ballons, month of July, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.11	12	26	12	30	08	08	13	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.02	11	22	11	24	10	24	10	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08.08	13	35	12	39	11	28	06	10	08	13	...	...	...	...	...	...	...	...	...	...	...	...
4	08.00	11	24	10	24	11	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08.35	16	12	13	19	10	16	08	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	08.36	13	14	13	03	14	11	12	05	28	12	28	04	33	06	32	02	...	...	...	...	...	...
7	08.11	10	22	10	25	12	12	15	08	27	22	27	18	26	12	24	10	21	13	26	32	...	...
8	08.46	13	15	10	17	13	10	13	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	09.30	13	26	12	14	10	18	08	07	12	15	13	05	...	...	...	...	...	...	...	...	...	...
10	09.17	13	23	10	32	10	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	08.00	10	23	08	26	07	17	10	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	08.25	09	28	09	24	08	28	08	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	08.52	11	20	11	12	13	41	16	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	09.33	11	18	13	19	13	33	13	19	14	23	...	...	...	...	...	...	...	...	...	...	...	...
15	12.34	13	30	12	24	11	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	08.40	11	28	10	22	07	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	08.40	12	17	12	09	14	05	13	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	08.02	12	21	11	23	12	22	13	25	16	11	...	...	...	...	...	...	...	...	...	...	...	...
19	08·37	12	20	13	18	10	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	09.00	11	17	12	24	12	31	12	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08·15	11	18	06	15	07	19	09	17	11	08	...	...	...	...	...	...	...	...	...	...	...	...
22	08.40	11	18	11	21	10	20	09	11	13	11	...	...	...	...	...	...	...	...	...	...	...	...
23	08.20	09	22	09	27	09	23	08	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.35	13	12	13	22	11	23	11	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.40	12	21	12	28	12	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	08.50	11	14	11	27	11	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	08.30	13	26	12	24	11	27	11	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08·25	10	28	09	25	09	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	08.30	11	22	12	22	07	13	03	19	08	12	...	...	...	...	...	...	...	...	...	...	...	...
30	08.20	12	22	12	20	18	04	24	03	32	05	11	01	31	05	32	15	32	24	...	...	...	...
31	07·57	12	23	12	25	11	20	18	18	27	11	...	...	...	...	...	...	...	...	...	...	...	...

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Royal Alfred Observatory, Mauritius

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RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

AUGUST, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, SEPTEMBER 1952. 4744/9/52—208

Table I.—Results of Magnetical Observations taken during the month of August, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination (Unit 1 y)	Daily Range: Horizontal Force (Unit 1 y)	Daily Range: Vertical Force (Unit 1 y)
Aug.	° ′			′		
1	15 30·9	.22—	.30339	9·8	—	18
2	30·9	—	341	10·6	—	14
3	31·0	—	346	5·2	—	11
4	29·9	—	356	15·6	—	29
5	30·3	315	350	7·4	31	22
6	30·9	333	347	8·8	49	30
7	—	—	345	—	—	35
8	—	—	351	—	—	31
9	31·6	312	344	12·0	55	47
10	31·4	326	345	3·4	47	14
11	30·7	333	342	10·2	29	39
12	31·1	342	346	5·4	32	21
13	30·9	345	343	8·6	40	29
14	31·3	325	350	6·2	80	20
15	31·1	311	350	6·8	33	23
16	31·2	318	347	8·2	33	31
17	30·7	332	341	12·0	22	42
18	31·2	329	342	11·8	53	33
19	31·2	333	338	10·6	43	40
20	30·9	330	340	8·0	42	32
21	31·3	333	333	10·8	52	60
22	31·5	335	339	10·4	43	39
23	32·0	332	339	10·0	40	41
24	31·2	339	342	11·8	65	42
25	31·0	331	336	9·8	16	39
26	31·2	331	338	8·4	38	30
27	31·3	308	341	10·2	49	33
28	31·1	311	342	7·4	28	20
29	31·5	313	342	8·4	24	36
30	32·2	308	344	9·6	34	31
31	32·3	319	340	10·0	50	39
Mean	° ′ 15 31·17	.22326	.30343	′ 9·22	41·1	31·0

Magnetic Disturbances—August, 1949

No Register from 1d. to 4d. 12h.30

4d. Moderately disturbed.
5d. Moderately disturbed.
6d. Moderately disturbed.
8d. Slightly disturbed.
11d. Slightly disturbed.
13d. Slightly disturbed.
14d. Moderately disturbed.
15d. Slightly disturbed.
17d. Slightly disturbed.
18d. Slightly disturbed.
19d. Slightly disturbed.
27d. Slightly disturbed.
30d. Slightly disturbed.
31d. Slightly disturbed.

T = ·37672 : Mean Dip = 53°39′·28 X = ·21512 : Y = −·059737 : Z = ·30343

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of August, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
2 9 48	15 35·13	2 9 26	·22318	2 9 57	53 38·63	.30357
9 9 38	15 34·87	5 9 33	·22329	9 9 45	53 39·50	.30348
16 9 08	15 33·63	9 9 18	·22321	16 9 17	53 39·75	.30342
23 9 35	15 35·25	16 9 40	·22320	23 9 45	53 38·50	.30338
30 9 17	15 34·75	23 9 16	·22338	30 9 27	53 39·63	·30332
		30 9 50	·22321			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

AUGUST 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	30·4	31·0	32·0	31·2	33·8	31·8	31·4	—	31·6	32·6	31·0	31·6	31·8	31·6	33·4	32·0	Midnight
1h	31·0	30·8	32·2	30·4	33·2	30·8	30·4	—	31·8	32·8	30·8	31·5	31·6	31·4	34·0	32·0	1h
2	30·2	30·4	32·0	29·8	32·8	31·6	30·2	—	31·9	32·2	31·2	31·2	31·2	31·2	31·8	31·8	2
3	30·3	30·6	32·0	28·4	31·6	29·8	30·3	—	31·8	32·0	30·4	31·1	31·4	30·2	32·0	30·6	3
4	30 4	30·4	32·1	29·2	29·0	30·0	30·4	—	32·0	31·8	30·2	31·0	31·6	31·2	32·2	29·8	4
5	30·0	30·3	31·8	27·6	28·0	30.4	30·2	—	31·6	31·6	30·3	31·0	31·2	28 0	27 2	30·6	5
6	30·0	30·0	29·8	28·0	28·2	30·2	30·2	—	31·5	31·2	30·2	30·6	30·4	29·4	30·0	30·0	6
7	29·4	29·6	27·6	20·4	25·6	29·6	28·6	—	30·1	30·2	29·8	29·9	29·8	27·6	29·8	29·8	7
8	30·4	31·0	30·0	19·2	28·0	30·4	29·8	—	31·4	30·8	30·4	30·2	30·0	29·8	30·6	30·2	8
9	33·0	34·0	30·4	23·0	30·4	32·8	32·4	—	34·4	32·0	33·2	32·6	31·0	31·8	29·0	33·0	9
10	34·2	36·0	32·8	28·6	32·0	36·0	35·6	32·0	36·8	32·6	35·6	34·0	32·6	34·0	30.4	35·6	10
11	36·0	37·0	33·2	28·4	31·8	36·4	37·6	34·2	38·0	32·4	35·8	34·0	34·0	34·0	33·8	35·4	11
Noon	34·8	34·0	32·0	31·4	29·8	35·0	36·0	34·0	36·4	32.0	33·6	32·0	33·8	34·2	34·0	33·4	Noon
13h	30·2	30·0	30·4	32·0	26·4	32·0	31·6	31·6	30·0	30·0	31·4	31·6	32·4	34·0	31·2	31·0	13h
14	29·0	28·0	29·6	31·6	27·4	27·8	27·4	29·0	26·6	29·6	28 4	30·0	29·9	30·0	30·2	28·0	14
15	26·2	26·4	28·0	30·2	27·0	27·6	25·2	28·4	26·0	29·4	25·6	29·0	28·0	29·8	28·6	27·4	15
16	27·6	26·6	29·2	30·4	28·0	28·0	26·0	29·4	27·4	29·8	26·0	28·6	25·4	28·0	28·0	28·0	16
17	29·4	28·4	29·6	32·4	30·2	29·8	28·2	30·0	29·6	30·2	28·0	30·0	27·6	30·0	29·8	29·8	17
18	30·8	30·0	30·6	33·6	31·4	30·2	—	30·8	30.4	30·8	30·0	30·6	30.0	30·2	30·4	30·2	18
19	31·0	30·2	31·2	33·8	32·2	30,4	—	31·6	31·6	31·6	30·6	31·0	31·0	32·0	31·6	31·6	19
20	31·6	31·0	31·9	34·0	32·6	30·6	—	32·0	32·0	32·2	31·2	31·2	31·8	32·6	32·0	32·0	20
21	31·8	31·8	32·0	34·0	33·8	31·0	—	32·0	32·0	32·0	31·6	31·2	32·0	32·8	32·4	32·2	21
22	31·6	32·4	32·0	34·8	32·0	30·4	—	32·0	31·9	31·8	31·0	31·4	32·6	33·6	32·2	32·0	22
23	31·4	3·20	31·6	34·0	32·0	30·2	—	31·9	32·0	31·6	31·2	31·2	31·0	33·0	32 0	31·8	23

AUGUST 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′		′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	31·0	31·2	31·6	31·0	31·8	31·7	30 8	31·4	30·6	31·0	32·2	32·2	32·2	33·2	33·0	31·8	Midnight
1h	31·2	31·6	31·4	30·9	32·0	32·2	30 7	31·6	30·8	30·8	32·0	32·0	32·4	33·0	32·8	31·7	1h
2	31·0	31 0	31·2	30·8	32·0	32·0	30·8	31·8	30·4	30·7	32·1	32·0	32·6	33·9	32·6	31·5	2
3	31 0	31·0	30·2	30·6	31·9	31·8	31·2	31·9	30·2	30·2	32·2	32·4	32·4	33·2	32·6	31·2	3
4	30·9	30·9	30·4	30·4	32·0	30·4	31·4	31·8	30·3	30·1	32·0	32·2	32·2	32·8	32·4	31·1	4
5	30·8	30·6	29·6	29·0	32·1	30·2	31·2	31·0	30 2	30·2	31·8	32·0	32·4	32·4	33·0	30·6	5
6	30·0	30·2	30·0	30·0	31·6	30·0	31·0	30·2	30·0	30·0	31·2	31·6	32·0	32·0	32·4	30·4	6
7	29·0	29·2	29·8	28 8	29·4	29·0	29·6	28·6	29·9	29·6	31·0	30·4	31·2	32 6	32 0	29·3	7
8	29·4	30·4	30·8	30·4	30·0	30·4	30 8	30·0	32·2	30·2	32·8	30·0	32·0	34·0	33·2	30·3	8
9	32·0	35·0	34·0	31·8	32·0	33·6	34·0	34·0	35·4	32·4	34·0	33·0	33·8	34·2	35·6	32·6	9
10	35·0	36·0	36·0	34·0	34·8	36·0	37·2	36·4	36·2	34·6	36·2	34·0	34·4	35·6	36·2	34·6	10
11	36·4	37·8	37·6	35·6	36·8	37·8	39·0	38·0	36·0	35·6	35·8	33·8	34·0	36·4	37·0	35·4	11
Noon	34·2	34·0	36·0	34·0	35·6	36·2	38·0	35·6	34·6	34·6	32·0	31·4	33·8	36·0	36·6	34·1	Noon
13h	30·0	30·0	33·8	31·8	32·0	34·0	35 0	32·2	32·0	32 2	28·0	28·4	30·4	32·4	34.0	31·3	13
14	27·0	26·8	30·2	29·6	29·4	31·2	31·0	28·0	28·0	30·0	27·4	27·0	27·6	29·6	31·0	29·0	14
15	24·4	26·6	27·0	28·0	26·4	29·0	29·6	26·4	26·4	27·2	26·4	26·6	26·0	27 6	28·0	27·4	15
16	25·6	28·0	27·2	27·6	26·0	27·4	29·0	26·2	26 6	27·4	26·0	26·8	26·2	26·8	27·0	27·4	16
17	28·2	29·8	27·8	28·8	28·0	28·0	29 8	28·0	28 0	2[illegible]·6	28·0	28·8	28·0	28·0	27·8	29·0	17
18	30·4	30·0	29·6	30·4	30·6	30·0	30·4	30 6	30 4	3[illegible]·6	30·8	30 6	30·8	30·0	30·2	30·5	18
19	31·6	31·6	30·2	31·6	31·2	30·6	31·0	30·4	31·0	3[illegible]·8	31 2	31·8	31·9	30·4	31·6	31·3	19
20	31·8	31·8	30·8	31·8	31·4	30 8	31·2	31·6	31·6	3[illegible]·0	31·8	32·0	32·2	31·6	31·8	31·8	20
21	31·8	32·2	31·2	32·0	31·6	31·2	31·6	31·2	31·2	3[illegible]·2	32·6	32·2	32·4	31·8	32·0	32·0	21
22	32·0	32·1	31·0	31·8	31·[illegible]	31·4	31·2	31·0	31·0	3[illegible]·3	32·4	32·2	32 6	32·0	32 0	32·0	22
23	32·0	32·0	31·4	31·6	31·8	31·0	31·4	30·8	30·0	3[illegible]·0	32·2	32·4	32·4	32·2	31 9	31·7	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

AUGUST 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	318	—	—	—	308	319	320	—	308	310	321	332	339	337	300	308	Midnight
1	320	—	—	—	300	321	321	—	307	313	324	334	333	331	305	315	1
2	322	—	—	—	306	317	324	—	309	316	320	332	337	330	317	322	2
3	327	—		—	309	329	328	—	300	324	340	330	338	337	312	317	3
4	330	—	—	—	319	339	329	—	301	329	330	333	337	340	311	330	4
5	337	—	—	—	320	347	334	—	302	331	329	337	341	345	330	326	5
6	342	—	—	—	327	342	339	—	309	333	330	340	350	351	322	322	6
7	345	—	—	—	328	352	345	—	313	337	331	350	353	358	327	328	7
8	347	—	—	—	331	359	352	—	319	340	337	354	359	356	326	333	8
9	348	—	—	—	330	356	350	301	320	332	336	359	359	349	311	325	9
10	—	—	—	—	324	350	345	310	312	339	335	360	360	353	312	318	10
11	—	—	—	—	310	345	311	313	314	350	340	361	361	360	318	310	11
Noon	—	—	—	—	310	349	349	324	327	341	348	356	369	335	315	300	Noon
13	—	—	—	300	312	351	353	319	351	348	349	358	360	337	318	308	13
14	—	—	—	298	319	353	350	324	334	341	341	352	357	332	310	318	14
15	—	—	—	296	314	345	343	310	332	330	337	343	353	314	298	317	15
16	—	—	—	294	313	319	338	298	322	321	331	331	347	308	300	316	16
17	—	—	—	287	309	310	331	296	317	311	328	330	339	280	302	311	17
18	—	—	—	270	311	312	—	302	309	303	329	329	337	286	308	313	18
19	—	—	—	286	307	313	—	297	298	308	329	331	331	297	300	319	19
20	—	—	—	290	302	310	—	298	299	314	330	338	339	300	302	320	20
21	—	—	—	288	310	312	—	299	296	317	330	337	331	298	297	320	21
22	—	—	—	287	318	314	—	302	298	313	329	336	330	290	300	319	22
23	—	—	—	309	310	317	—	303	299	317	330	335	329	294	307	321	23

AUGUST 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	322	320	321	319	320	325	324	322	323	327	315	300	307	307	289	317	Midnight
1h	323	330	318	329	312	330	325	323	324	330	317	302	306	310	294	318	1h
2	325	329	322	324	318	332	326	325	326	333	320	305	305	300	303	320	2
3	327	330	336	325	321	331	329	327	329	335	318	306	310	306	309	323	3
4	334	334	330	330	325	338	330	328	334	336	320	311	312	309	312	326	4
5	339	337	329	332	328	341	331	329	335	338	327	312	317	317	314	329	5
6	340	340	338	338	330	340	332	330	337	339	335	318	319	318	322	332	6
7	338	350	343	345	335	345	342	339	338	342	330	328	326	316	330	337	7
8	342	356	341	352	342	352	349	348	339	318	327	328	328	315	338	341	8
9	330	357	348	342	348	354	346	352	338	351	320	325	321	324	339	339	9
10	337	348	349	333	352	350	332	356	336	351	319	323	323	322	337	337	10
11	334	342	348	335	349	352	335	358	334	347	311	313	314	317	330	335	11
Noon	333	347	353	347	364	360	348	369	338	343	300	309	311	314	330	337	Noon
13	331	342	358	344	360	359	356	384	334	338	286	308	309	319	325	338	13h
14	327	322	359	340	356	350	354	385	337	329	292	303	310	320	327	335	14
15	330	320	347	330	342	330	348	365	330	320	299	305	308	317	328	328	15
16	340	312	330	320	337	319	330	342	326	313	304	312	310	314	324	322	16
17	334	313	324	318	325	317	320	327	320	314	303	307	311	300	324	316	17
18	320	304	319	317	322	318	316	322	324	318	296	300	314	292	315	313	18
19	321	307	320	310	318	319	319	323	327	320	297	302	317	290	322	314	19
20	338	311	320	316	320	318	318	322	329	318	290	309	313	294	318	316	20
21	330	315	318	317	332	319	318	324	330	319	292	309	312	296	319	316	21
22	329	317	317	319	324	320	319	320	328	318	287	310	308	292	309	314	22
23	324	319	316	332	325	325	320	323	326	317	290	310	304	290	298	315	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

AUGUST 1949

+ ·30000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	338	340	347	350	351	350	349	352	353	350	346	350	350	346	355	352	Midnight
1h	339	340	347	350	352	350	348	351	352	347	345	349	349	346	355	353	1h
2	339	340	346	350	350	350	346	351	351	346	344	348	348	346	352	350	2
3	337	340	345	350	350	349	347	350	350	344	343	347	347	345	350	352	3
4	337	340	345	347	348	350	347	350	350	343	342	347	347	344	350	350	4
5	337	339	345	346	348	350	347	352	350	343	342	347	347	343	346	350	5
6	336	338	344	346	350	349	348	355	350	343	343	347	347	343	349	350	6
7	335	337	340	346	348	347	346	357	353	342	342	345	344	340	348	350	7
8	339	342	340	350	354	350	349	360	354	344	346	348	347	348	350	352	8
9	344	340	344	360	360	357	357	362	357	349	358	352	353	357	353	354	9
10	348	343	345	370	360	360	355	364	352	350	359	354	353	360	357	358	10
11	348	340	344	375	357	352	354	360	337	344	352	350	352	358	360	352	11
Noon	343	338	347	370	349	340	344	354	310	340	342	344	343	354	354	343	Noon
13h	338	334	339	363	338	330	327	338	310	340	336	340	335	351	346	335	13h
14	335	334	339	357	338	330	322	333	320	336	325	337	327	343	337	327	14
15	330	334	340	352	341	334	325	334	330	338	320	333	322	341	338	330	15
16	331	337	347	354	348	339	332	341	340	340	320	337	323	342	340	336	16
17	337	342	349	357	352	346	340	349	344	344	333	340	322	350	344	341	17
18	339	347	350	356	354	350	344	350	346	347	340	345	340	354	348	345	18
19	339	346	350	360	355	350	347	353	350	348	344	347	343	355	350	347	19
20	339	348	350	366	354	350	349	354	350	350	346	348	345	353	352	348	20
21	340	348	350	366	355	350	351	355	350	349	347	350	346	353	353	348	21
22	340	348	350	355	350	350	352	355	350	349	348	350	347	356	353	348	22
23	340	347	349	351	350	349	352	354	350	349	349	350	346	357	353	350	23

AUGUST 1949—*continued*

+ ·30000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	349	345	347	344	341	340	343	344	343	340	345	347	348	347	352	347	Midnight
1h	349	347	347	343	342	340	343	343	343	340	344	346	348	347	352	347	1h
2	349	345	348	344	343	340	343	343	342	340	344	345	348	350	351	346	2
3	349	345	345	345	343	340	343	343	342	340	343	345	347	349	350	346	3
4	348	345	347	345	343	341	343	343	342	340	343	344	346	348	350	345	4
5	347	344	347	345	345	342	343	343	342	340	344	343	346	348	350	345	5
6	346	345	347	346	344	343	346	344	342	340	343	342	345	348	350	345	6
7	345	343	346	344	342	342	342	341	343	340	343	341	343	348	348	344	7
8	347	347	350	348	346	347	345	347	348	342	350	345	347	352	350	348	8
9	352	353	350	350	348	350	347	351	351	346	350	347	350	352	352	352	9
10	358	352	349	352	348	355	354	360	344	350	354	350	354	355	350	354	10
11	350	346	340	347	343	350	353	357	340	350	349	350	351	336	327	349	11
Noon	333	326	328	336	330	338	336	348	332	340	339	344	345	350	338	341	Noon
13h	320	320	319	324	310	327	320	338	327	330	331	333	334	338	327	332	13h
14	316	324	313	320	294	318	313	323	320	321	328	330	324	327	318	327	14
15	320	330	310	320	288	316	314	318	312	320	321	330	318	324	313	326	15
16	326	340	315	326	297	320	320	321	313	322	324	330	320	324	319	330	16
17	333	341	324	333	316	331	329	333	322	330	331	337	329	333	327	337	17
18	340	345	335	340	330	340	336	340	332	338	338	342	338	340	337	343	18
19	342	346	339	340	334	341	340	342	337	338	340	344	340	343	339	345	19
20	343	347	341	341	337	344	341	344	339	341	343	344	341	346	340	346	20
21	343	348	343	342	339	345	343	346	340	343	346	345	343	348	341	347	21
22	343	347	343	342	340	346	344	346	341	343	346	347	346	350	343	347	22
23	344	348	344	343	340	346	345	346	342	344	346	347	347	351	347	348	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of August, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Cassella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
AUGUST	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	972·6	17·9	0·5	17·1	95	19·5	100	7 2	7	17·0	17·6	18·9	16·2	19·6	16·5	3·1	10·0	150	8·3	74
2	972·5	19·3	3·1	13·9	71	15·9	90	5·4	5	15·4	18·7	18·4	16·8	20·6	14·9	5·7	4·2	50	8·4	75
3	971·9	17·7	0·6	16·7	94	19·0	90	7·6	6	15·9	17·4	19·2	16·3	20·0	15·4	4·6	4·5	50	7·1	64
4	971 9	20·1	2·2	16·5	80	18·8	105	1·8	5	15·7	19·5	21·3	17·5	22·0	15·3	6·7	0·0	0	7·3	66
5	971·9	20·4	3·1	15·2	72	17·3	110	4·5	2	16·7	20·0	21·4	15·2	22·0	16·5	5·5	0·8	5	10·3	92
6	972·4	28·5	2·9	13 5	73	15·5	160	4·5	2	13·0	18·1	21·0	16·5	21·5	12·8	8·7	0·5	5	8·8	79
7	971·9	18·7	3·1	13·3	71	15·3	160	3·1	2	15·8	18·3	19·5	14·6	20·3	15·2	5·1	0·2	5	9·0	80
8	971·2	19·3	4.2	11·8	53	13·8	Calm	Calm	6	12·3	18·7	20·4	14·8	22·2	11·4	10·8	0.0	0	8·3	74
9	972·2	18·9	4·5	10·7	60	12·9	130	3·6	0	13·0	18·5	20·3	15·3	21·3	12·2	9·1	0·0		11·1	99
10	973·2	18·3	3·1	12·8	71	14·8	100	2·2	4	14·0	18·0	19·7	16·6	21·2	12·5	8·7	0·4	5	10·5	93
11	972·1	19·2	3·1	13·8	71	15·8	80	4·5	3	15·4	18·5	19·9	17·0	21·3	13·8	7·5	1·9	25	6·6	59
12	973·6	18·6	2·3	14·7	78	16·7	110	4·5	6	16·0	18·2	19·7	16·3	20·9	14·9	6·0	1·9	15	7·7	69
13	973·1	19·6	2·7	15·1	77	17·2	100	5·4	5	15·2	19·3	20·6	16·6	21·4	14·5	6·9	0·0	0	5·8	52
14	973·8	20·3	3·3	14·7	70	16 7	120	4·0	4	15·3	19·7	19·5	17·3	20·4	14·9	5·5	0·5	5	7·0	62
15	972·3	18·1	2 0	14·7	81	16 7	100	5·4	6	15·9	18·0	20·7	15·1	21·4	15·2	6·2	0·9	10	8·7	77
16	973·0	18·5	1·8	15·5	83	17·6	85	1·8	6	13·4	18·1	19·4	16·5	21·0	12·9	8·1	0·5	5	5·3	47
17	970·4	20·9	3·9	14·3	66	16·3	Calm	Calm	7	15·3	20·0	19·9	15·3	21·9	15·3	6·6	0.3	5	1·3	12
18	970·1	20·9	3·5	15·1	70	17·2	Calm	Calm	1	12·5	20·0	18·9	17·0	22·8	11·9	10·9	0·5	10	7·6	67
19	973·2	18·3	1·1	16·5	90	18.8	100	4·0	7	16·3	17·7	19 5	16·6	20·1	15·9	4·2	3·4	40	7·7	68
20	972·2	19·4	3·6	13·1	67	15·1	100	4.5	6	13·2	19·1	20·6	13·4	21·0	12·9	8·1	0·0	0	10·7	94
21	971·7	18·5	2·6	14.0	76	16·0	100	4·9	7	12·9	18·0	18 9	15·8	19·5	12·6	6·9	0·3	5	7·1	62
22	971·1	18·9	2·4	14·9	78	16·9	90	5·4	6	14·2	18·1	20·3	16·3	21·4	13·5	7·9	0·3	5	9·2	80
23	972.2	19·4	2·4	15·4	78	17·5	85	4·9	6	15·6	18 6	20·0	16·1	21·2	15·2	6·0	3·3	35	8·9	78
24	973·1	17 9	0·5	17·1	95	19·5	90	1·8	7	15·6	17·2	21·3	17·0	21·8	15·0	6·8	4·5	40	7·2	63
25	972·1	19 4	3·0	14·2	72	16·2	100	4·5	1	16·4	19·0	21·2	16·3	22·1	15·9	6·2	1·0	10	10·8	94
26	971·4	20·6	3·7	14·3	67	16·3	Calm	Calm	6	15·0	20·1	19·9	17·0	21·4	14·5	6·9	0·0	0	4·6	40
27	971·1	21·0	3.7	14 8	68	16·8	90	2·2	3	16·0	20·2	22·5	16·6	23·0	15·5	7·5	0·0	0	5·7	49
28	971·2	20·7	3 3	15·2	71	17·3	100	2·2	3	15·4	20·2	21·7	17·2	22·5	15·2	7·3	0·0	0	10·9	94
29	971·3	21·1	3·7	14 8	67	16 8	90	6·7	6	16·8	20 6	21·4	16·5	22·2	16·3	5·9	0·2	5	10·3	89
30	971·3	20·9	3 0	16·0	74	18 2	Calm	Calm	7	15·0	20·2	18·4	16·8	21·6	14·3	7·3	5·4	70	2·8	25
31	972·2	20·6	3·5	14·7	69	16 7	90	4·5	4	15·9	20·0	20 4	17·2	22 0	15·9	6·1	0·0	0	9·8	85
Mean ...	972·4	19·4	2·8	14·7	74·4	16 6	—	3·6	4·7	15·0	18·9	20·1	16·4	21·3	14·5	6·8	45.5	555	7·90	69·4
Average	972·7	18·9	2·3	14·9	78 0	16·9	—	5·2	6·0	—	—	—	—	20·9	14·7	6·2	109·4	2120	7·29	64·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

xcess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	41·6 mbs.	Amount of Rain	—	20·1 mms.
Temperature of the Air	+	3·5 °C	Duration of Bright Sunshine	+	4·2 hrs
Vapour Pressure	+	0 8 mbs	Mean of Maximum Temperatures	+	3·6 °C
Relative Hu idity	—	12·0 %	Mean of Minimum Temperatures	+	1·6 °C
Velocity of Wind	+	0·9 mps.	Absolute Maximum Temperature	+	4·0 °C
			Absolute Minimum Temperature	+	0·8 °C

Table VII.—Daily Results of Meteorological Observations made during the month of August, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation = 100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
AUGUST	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1013·4	− 0·7	24·1	17·2	6·9	20·5	+ 0·8	2·4	16·5	+ 1·0	78	+ 2	18·8	15·4
2	1013·2	− 0·9	24·0	16·9	7·1	20·0	+ 0·3	2·2	16·4	+ 1·1	80	+ 4	18·7	14·8
3	1013·0	− 1·1	23·3	17·8	5·5	20 0	+ 0·2	1·8	17·1	+ 1·7	83	+ 7	19·5	15·7
4	1012 8	− 1·3	25·1	18·0	7·1	21·1	+ 1·3	2·5	17·0	+ 1·6	78	+ 2	19·4	16·0
5	1012·9	− 1·2	25·2	16·5	8·7	20·7	+ 0·9	2·7	16·2	+ 0·8	75	− 1	18·4	15·0
6	1013·1	− 1·0	25·2	13·1	12·1	19·6	− 0·2	2·9	14·7	− 0·7	73	− 3	16·7	11·0
7	1012·6	− 1·5	24·1	12·6	11·5	18·7	− 1·1	3·1	13·3	− 2·1	71	− 5	15·3	10·8
8	1011·8	− 2·3	24·0	12·2	11·8	17·6	− 2·2	3·1	12·0	− 3·4	70	− 6	14·0	9·8
9	1013·3	− 0·8	25·2	13·5	11·7	18·5	− 1·3	3·3	12·6	− 2·8	69	− 7	14·6	11·5
10	1014·3	+ 0·2	24·1	13·0	11·1	18·4	− 1·4	3·1	12·9	− 2·5	70	− 6	14·9	11·0
11	1013·5	− 0·6	24·2	16 1	8·1	19·6	− 0·2	2·9	14·7	− 0·7	73	− 3	16·7	14·2
12	1014·4	+ 0·3	24·0	16·4	7·6	20·0	+ 0·1	2·6	15·7	+ 0·2	76	0	17·8	14·5
13	1014·5	+ 0·4	24·4	16·4	8·0	20·0	+ 0·	2·6	15·7	+ 0·2	76	0	17·8	14·6
14	1015·2	+ 1·1	24·1	14·0	10·1	19·5	− 0·4	2·8	14·7	− 0·8	74	− 2	16·7	12·0
15	1014·8	+ 0·7	24·4	17·0	7·4	20·5	+ 0·6	3·5	14·6	− 0·9	69	− 7	16·6	15·2
16	1013·3	− 0·8	24·2	15·4	8·8	19.8	− 0·1	2·7	15·3	− 0·2	75	− 1	17·4	13·4
17	1010·7	− 3·4	25·0	16·3	8·7	20·7	+ 0·8	2.9	15·9	+ 0·4	74	− 2	18·1	14·2
18	1011·2	− 2·9	25·7	14·8	10·9	20·0	0·0	2·5	15·8	+ 0·3	77	+ 1	17·9	12·9
19	1013·2	− 1·0	24·0	18·0	6·0	20·5	+ 0·5	2·9	15·7	+ 0·2	74	− 2	17·8	15·9
20	1013·0	− 1·2	24·5	15·7	8·8	19·4	− 0·6	3·4	13·5	− 2·0	69	− 7	15·5	13·7
21	1012·3	− 1·9	24·1	14·4	9·7	19·5	− 0·5	3·2	14·0	− 1·5	71	− 4	16·0	12·6
22	1011·9	− 2·4	25·3	15·9	9·4	20·1	0·0	3·3	14·5	− 1·1	70	− 5	16·5	14·0
23	1012·8	− 1·5	25·4	18·0	7·4	20·9	+ 0·8	3·0	16·0	+ 0·4	74	− 1	18·2	16·5
24	1013·4	− 0·9	25·8	18·4	7·4	21·1	+ 1·0	2·6	16·8	+ 1·2	76	+ 1	19·1	16·2
25	1012·7	− 1·6	26·3	18·3	8·0	21·4	+ 1·3	3·0	16·5	+ 0·9	74	− 1	18·8	16·0
26	1011·8	− 2·5	25·4	16·5	8·9	21·0	+ 0·8	2·6	16·7	+ 1·2	76	+ 1	19·0	14·7
27	1011·8	− 2·6	26·3	17·9	8·4	21·3	+ 1·1	3·2	16·0	+ 0·5	72	− 3	18·2	16·0
28	1011·9	− 2·5	26·8	15·6	11·2	21·3	+ 1·1	3·6	15·3	− 0·2	69	− 6	17·4	13·7
29	1012·3	− 2·1	25·8	18·5	7·3	21·4	+ 1·2	3·3	15·9	+ 0·4	71	− 4	18·1	16·3
30	1012·2	− 2·2	25·3	16·3	9 0	20·0	− 0·3	1·8	17·1	+ 1·5	83	+ 8	19·5	15·0
31	1013·2	− 1.2	25·6	17·0	8 6	20·8	+ 0·5	2·8	16·2	+ 0·6	75	0	18·4	15·4
Mean	1012·9	− 1·3	24·9	16·1	8·8	20·1	+ 0·1	2·8	15·3	− 0·2	74·0	− 1·6	17·5	14·1
Average	1014·2	—	23·9	16·5	7·4	20·0	—	2·8	15·5	—	75·6	—	17·6	13·2
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of August, 1949

Pressure was below normal on all days except five and the mean was 1·3 millibars below. Mean temperature was just above normal as was sunshine. Rainfall was low, only 41% of the average, but was fairly well distributed.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of August, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
AUGUST	mms.	mins.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	2·4	90	3·5	8·5	76	5·1	+ 1·4	25·3	24·3	22·0	22·6
2	3·1	90	5·1	7·9	71	4·0	+ 0·3	25·3	24·2	22·0	22·6
3	7·0	165	2·4	4·7	42	3·9	+ 0·2	25·3	24·1	22·4	22·6
4	0·1	5	3·0	7·4	66	3·2	− 0·5	25·2	24·1	22·4	22·7
5	0·0	—	5·6	4·3	38	2·6	− 1·1	25·1	24·1	22·1	23·1
6	0·0	—	2·7	10·4	93	2·6	− 1·1	25·1	24·2	22·5	22·9
7	0·0	—	4·8	10·4	92	2·5	− 1·2	25·2	24·3	22·5	23·0
8	0·0	—	4·0	9·0	80	2·3	− 1·5	25·2	24·4	22·5	22·6
9	0·0	—	3·5	8·2	73	2·4	− 1·4	24·9	24·1	22·4	22·5
10	0·0	—	4·2	10·2	90	2·8	− 1·0	24·9	24·2	22·5	22·6
11	0·5	20	5·0	10·8	96	2·6	− 1·2	24·9	24·1	22·5	22·5
12	1·1	10	3·4	7·3	65	3·2	− 0·6	24·8	24·1	22·0	22·6
13	0·0	—	4·5	7·4	65	3·5	− 0·3	24·7	24·1	22·0	22·6
14	0·0	—	4·2	4·4	39	3·1	− 0·7	24·8	24·1	22·0	22·4
15	0·0	—	4·2	7·2	63	4·0	+ 0·2	24·7	23·9	21·9	22·5
16	1·7	35	5·9	8·9	78	3·0	− 0·9	24·7	23·8	21·9	22·4
17	0·0	—	4·1	7·2	63	2·0	− 1·9	24·7	23·7	21·9	22·6
18	0·1	15	5·0	4·6	40	2·3	− 1·6	24·7	23·6	21·9	22·7
19	0·0	—	2·6	5·5	48	4·5	+ 0·6	24·6	23·7	22·0	22·7
20	0·0	—	6·0	10·2	90	3·1	− 0·8	24·6	23·6	22·0	22·6
21	0·4	15	5·4	9·6	83	3·7	− 0·3	24·6	23·6	22·0	22·4
22	0·0	—	4·8	8·8	77	3·9	− 0·1	24·6	23·5	22·0	22·5
23	0·0	—	5·2	7·3	64	3·6	− 0·4	24·6	23·6	22·0	22·6
24	1·1	10	4·3	9·7	84	3·8	− 0·3	24·6	23·5	22·0	22·7
25	0·0	—	6·6	8·2	71	4·1	0·0	24·5	23·7	22·0	22·7
26	1·4	25	4·7	10·5	91	3·1	− 1.0	24·6	23·4	22·1	22·9
27	0·0	—	5·3	5·0	43	2·6	− 1·5	24·6	23·4	22·2	23·2
28	0·2	5	4·0	6·6	57	3·1	− 1·0	24·4	23·7	22·3	23·5
29	0·0	—	5·6	10·7	92	3·6	− 0·5	24·4	23·8	22·3	23·6
30	6·2	155	4·5	9·7	84	2·6	− 1·5	24·4	23·7	22·3	23·5
31	0·1	10	3·1	8·4	72	3·8	− 0·3	24·4	23·8	22·4	23·4
Mean	25·4 Sum	650	4·4	8·03	70·5	3·25	− 0·64	24·79	23·88	22·16	22·77
Average	62·5	1342	4·0	7·57	66·6	3·89	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of August, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1016·2 mbs	at	09.10 hrs.	on 14th	1008·4 mbs	at	16.00 hrs.	on 17th
Temperature of the Air	26·8 °C	,,	13.00 hrs.	,, 28th	12·2 °C	,,	05.00 hrs.	,, 8th
Daily range of temperature of the Air ...	12·1 °C	,,	—	,, 6th	5·5 °C	,,	—	,, 3rd
Temperature of the Dew Point	—		—	—	—	,,	—	,, —
Daily range of temperature of the Dew Point...	—		—	—	—	,,	—	,, —
Minimum on Grass	—		—	—	9·8 °C	,,	—	,, 8th
Relative Humidity	—		—	—	—	,,	—	,, —
Vapour Pressure	—		—	—	—	,,	—	,, —
Evaporation in 24 hours	6·6 mms	,,	—	,, 25th	2·4 mms	,,	—	,, 3rd
Wind Velocity	8.2 m.p.s.	,,	13.00 hrs.	,, 19th	—	,,	—	—
Rainfall in 24 hours	9·4 mms ending		08.00 hrs.	,, 3rd	—	,,	—	—
Duration of sunshine	10·8 hrs.		—	,, 11th	4·3 hr.	,,	—	,, 5th

Mean Day Temperature of Air 22·28°C Average 21·78°C Mean Night Temperature of Air 17·97°C Average 18·05°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunderstorm
6	6	2	—	—	—	—	—	—

Table VIII.—Barogram

AUGUST 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	133	144	135	133	136	142	139	130	133	150	142	151	144	154	159	151	Midnight
1h	135	140	133	128	132	140	135	124	131	150	141	148	143	154	158	150	1h
2	133	133	130	122	125	138	128	120	127	149	140	142	142	153	153	145	2
3	131	132	125	121	121	133	121	114	122	145	131	141	141	152	150	140	3
4	131	131	123	121	119	129	120	110	122	142	127	142	141	151	146	140	4
5	125	131	123	122	120	129	120	110	121	141	125	142	142	151	146	140	5
6	131	131	125	123	123	130	121	115	122	142	126	144	143	155	149	142	6
7	133	133	130	126	129	132	122	120	128	144	134	152	149	160	151	144	7
8	141	134	133	132	135	139	128	122	138	152	139	158	151	161	154	151	8
9	144	142	139	140	140	140	138	130	141	158	141	159	152	162	160	151	9
10	145	143	139	141	140	142	140	128	142	159	141	160	154	162	160	147	10
11	140	135	134	138	139	140	135	122	141	153	138	154	154	159	153	140	11
Noon	133	131	131	130	131	131	126	118	136	142	129	148	152	150	144	132	Noon
13h	129	120	125	121	122	121	120	108	122	136	122	140	142	142	139	122	13h
14	118	119	120	117	120	114	118	106	121	129	122	132	140	140	135	118	14
15	115	118	120	115	118	112	110	103	120	124	120	130	137	139	131	115	15
16	122	116	120	119	120	116	111	103	120	126	122	131	133	140	134	117	16
17	124	120	122	120	122	120	118	106	122	128	126	132	139	141	140	120	17
18	129	128	129	122	125	122	120	111	130	135	133	136	140	143	141	121	18
19	132	131	130	128	129	128	121	119	140	141	140	140	141	148	143	122	19
20	137	133	135	135	135	137	128	122	144	142	144	143	142	154	153	124	20
21	142	139	137	140	140	140	133	130	151	144	146	148	153	158	155	125	21
22	150	140	139	140	142	141	136	133	152	145	151	148	155	160	154	126	22
23	149	139	135	140	142	140	132	134	153	146	150	147	154	160	152	125	23

AUGUST 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	122	108	129	140	128	129	128	140	141	131	120	122	131	130	139	1013·6	Midnight
1h	121	106	125	140	127	123	123	139	140	128	120	121	131	126	132	1013·4	1h
2	119	102	122	132	122	120	122	132	133	124	120	120	130	122	129	1013·0	2
3	112	101	121	131	121	115	120	129	128	120	118	120	123	120	124	1012·7	3
4	108	101	121	130	122	113	120	130	129	120	118	119	122	118	121	1012·5	4
5	110	102	124	131	121	114	121	131	129	120	118	120	121	118	122	1012·6	5
6	116	107	132	138	122	119	125	136	130	122	120	121	128	120	129	1012·9	6
7	118	115	140	140	127	122	131	142	133	128	122	122	131	122	137	1013·3	7
8	119	121	143	141	130	126	138	144	135	130	128	126	132	126	140	1013·7	8
9	118	122	144	144	134	131	142	150	138	130	129	132	133	130	142	1014·0	9
10	118	122	147	142	136	129	142	146	135	124	125	127	130	122	142	1014·0	10
11	112	119	142	140	131	124	139	141	131	120	120	121	123	121	140	1013·5	11
Noon	104	106	134	130	122	120	130	135	127	112	112	113	120	118	133	1012.8	Noon
13h	099	101	125	122	117	112	122	129	121	105	108	109	114	112	124	1012·1	13h
14	089	098	121	119	108	102	118	121	114	103	102	102	108	112	121	1011·6	14
15	085	098	121	114	103	101	114	120	108	103	102	101	106	106	120	1011·4	15
16	084	102	122	115	104	102	118	119	110	103	103	104	109	111	121	1011·5	16
17	093	104	125	118	112	106	120	120	112	106	106	111	113	114	122	1011·9	17
18	099	111	131	120	120	113	122	124	116	108	114	114	120	120	130	1012·3	18
19	101	117	135	121	121	120	124	133	120	113	120	120	121	122	136	1012·8	19
20	107	124	140	125	125	122	130	139	123	117	121	125	123	128	141	1013·2	20
21	110	130	142	127	132	126	140	141	129	120	124	130	132	134	143	1013·7	21
22	109	131	141	129	133	130	140	142	130	120	124	133	132	137	143	1013·8	22
23	109	130	140	129	132	131	140	141	130	120	124	130	130	139	143	1013·8	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder

AUGUST 1949

Day / Hour Ending		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	0	0	0	10	5	20	0	20	35	20	0	0	10	15	10	5	0	25	0	20	0	0	25	0	35	25	30	30	25	30	40	7·3
8	10	30	15	45	40	60	25	35	60	60	5	5	60	50	55	25	0	60	15	60	25	40	20	0	60	60	60	60	60	60	60	20·3
9	45	60	60	0	60	60	30	50	60	55	60	60	60	40	40	15	20	60	5	60	30	40	45	0	60	60	60	60	60	60	60	23·9
10	35	60	50	20	60	60	60	45	60	50	60	45	60	60	55	10	25	60	20	50	60	30	55	10	60	30	60	60	60	10	60	24·0
11	50	60	50	45	60	60	60	35	60	55	60	60	45	30	60	60	25	60	35	60	20	60	45	50	60	10	60	60	60	0	60	25·3
Noon	60	50	55	50	60	60	60	60	60	60	45	50	60	20	50	20	0	35	60	60	40	60	40	60	60	10	60	60	60	0	60	24·8
13h	60	30	50	60	60	60	55	45	60	60	60	45	5	25	60	30	0	30	60	60	30	60	55	60	60	35	10	60	60	10	60	23·6
14	55	30	30	60	60	60	60	55	60	60	10	60	5	40	60	20	0	30	60	60	30	60	55	60	60	0	0	60	60	0	60	22·0
15	55	60	60	60	60	60	60	50	60	60	15	50	5	50	50	25	0	0	60	60	55	60	60	60	60	0	0	60	60	0	40	22·6
16	55	55	45	50	60	30	60	15	60	60	45	30	5	30	10	35	10	30	60	60	60	55	50	60	60	25	0	60	60	0	40	21·2
17	60	60	10	10	60	0	60	60	60	60	30	60	30	45	50	60	0	30	60	60	60	60	50	40	60	20	0	60	40	0	30	21·4
18	15	5	0	30	30	0	10	30	30	30	5	0	5	15	20	10	0	35	25	30	15	25	35	35	15	0	0	25	15	0	15	8·4
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

The Total Amount of Registered Sunshine was 244·8 hrs., and the Total Possible Sunshine was 353·2 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

AUGUST 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	2	8	0	1	0	30	20	25	0	31	24	0	0	16	0	16	0	0	10	24	0	1	0	16	0	0	0	30	5	12	40	5·2
8	42	40	31	46	5	60	60	40	0	60	60	0	0	60	45	60	32	30	60	60	16	24	9	45	0	59	25	60	60	60	60	20·1
9	55	60	37	8	45	60	60	50	57	60	60	18	58	60	48	60	45	28	60	38	50	49	40	38	9	60	60	60	60	57	60	25·2
10	35	55	33	30	60	60	60	50	60	60	60	60	60	60	50	60	60	22	60	55	60	60	39	50	50	60	44	60	60	60	60	27·6
11	35	60	30	60	60	60	60	45	50	60	60	60	27	31	36	42	25	60	60	60	60	50	52	60	45	60	30	60	60	60	60	26·3
Noon	60	43	55	60	60	48	60	60	45	60	60	60	16	15	22	60	12	40	50	60	60	60	34	60	60	60	45	53	60	60	40	25·6
13h	39	50	50	60	15	60	60	60	35	60	60	55	50	15	25	60	40	0	24	60	55	58	60	60	60	60	60	37	60	60	45	24·9
14	50	49	15	55	10	60	60	60	60	60	60	25	55	0	49	45	55	0	0	60	60	60	60	60	60	60	25	35	60	60	35	23·4
15	60	18	30	45	0	60	60	60	60	53	60	60	55	2	40	45	40	18	0	60	60	43	60	60	60	60	12	1	60	60	33	22·2
16	60	42	0	44	0	60	60	40	60	24	55	45	44	3	35	54	60	39	0	60	60	50	55	60	60	60	0	1	60	40	10	20·7
17	59	54	1	26	0	55	55	35	60	50	60	55	52	0	50	36	32	40	2	60	60	50	26	45	50	60	2	1	60	49	27	20·2
18	12	0	0	9	1	9	9	15	7	30	32	0	29	0	30	0	28	0	4	15	35	20	5	30	36	29	0	0	35	1	36	7·6
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The Total Amount of Registered Sunshine was 249·0 hrs. and the Total Possible Sunshine was 353.2 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

AUGUST 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap,	Air	Excess of Air over Evap.	
Midnight	19·5	1·4	17·0	1·6	19·0	0·9	18·4	1·0	19·4	1·0	16·2	1·3	18·3	1·2	12·6	1·1	Midnight
1h	19·6	1·3	16·9	1·4	18·8	0·5	18·5	1·1	19·9	1·5	15·7	1·1	17·7	1·1	12·3	0·9	1h
2	19·7	1·3	17·0	1·4	19·0	0·6	18·5	1·1	20·0	1·6	16·2	1·1	18·4	1·2	12·3	0·9	2
3	19·7	1·3	18·2	1·5	19·2	0·6	18·6	1·3	19·4	1·4	16·6	1·4	16·9	1·2	12·3	0·9	3
4	19·7	1·2	18·1	1·1	19·2	0·8	18·4	1·1	19·2	1·3	15·9	1·4	16·0	1·0	12·3	0·9	4
5	19·9	1·3	17·4	0·8	18·6	0·9	18·4	0·9	19·0	1·4	15·0	1·3	16·0	1·1	12·2	0·8	5
6	19·4	1·2	17·8	1·0	18·5	0·9	18·3	0·9	19·2	1·6	14·4	1·1	17·4	1·1	12·5	0·9	6
7	19·3	1·2	18·0	1·0	18·7	0·8	19·0	1·0	19·9	2·2	13·8	0·8	17·3	1·4	12·8	1·0	7
8	20·6	1·7	19·7	1·6	20·0	1·2	20·8	1·7	20·3	2·3	18·7	2·4	20·2	2·7	15·7	2·7	8
9	22·0	2·6	21·5	2·6	21·0	0·5	22·0	2·3	22·0	3·3	20·2	3·3	21·8	4·2	20·8	5·0	9
10	20·6	1·5	22·0	4·0	21·2	2·3	23·3	3·6	23·5	5·0	22·4	4·6	22·4	5·1	22·6	6·0	10
11	21·4	2·2	22·9	4·4	22·0	4·0	24·0	4·4	23·9	5·2	23·2	5·3	23·4	5·9	22·8	6·2	11
Noon	22·7	3·4	23·2	4·8	22·4	3·1	24·5	5·3	24·4	5·5	23·9	5·5	24·1	6·5	23·4	6·5	Noon
13h	22·9	3·9	23·6	4·7	21·5	2·1	24·5	4·9	23·9	4·6	23·9	5·4	23·5	6·0	23·0	5·4	13h
14	23·0	3·8	23·0	4·2	21·7	2·7	24·5	4·7	23·6	4·3	24·5	5·9	23·0	5·5	23·9	5·7	14
15	23·0	4·2	21·2	2·3	21·6	3·1	24·4	5.2	23·6	4·6	24·3	5·7	23·0	5·9	23·5	5·8	15
16	22·5	4·5	22·1	3·7	21·7	3·3	23·7	4·4	23·1	4·8	23·7	5·3	22·4	5·5	22·9	5·3	16
17	21·6	4·3	21·5	2·8	21·3	2·7	23·1	3·8	21·7	3·7	22·2	4·2	21·0	4·7	22·3	5·7	17
18	20·3	3·3	20·5	1·9	20·7	2·2	21·2	2·6	20·2	2·5	21·5	3·6	18·9	3·4	19·4	3·5	18
19	19·3	2·5	20·0	2·0	19·9	2·8	20·2	1·8	19·3	1·9	20·2	2·4	16·1	2·5	17·7	2·5	19
20	19·1	2·3	20·0	2·0	18·9	1·6	20·5	2·0	19·1	1·8	19·8	2·0	14·8	2·0	16·6	2·0	20
21	18·9	2·0	19·1	1·1	18·3	1·5	20·4	1·9	18·7	1·5	18·8	1·7	13·8	2·2	16·8	2·2	21
22	18·8	1·8	19·3	0·9	17·8	1·3	19·9	1·5	18·0	1·3	18·7	1·2	13·4	1·8	15·8	1·8	22
23	18·7	3·0	19·4	1·0	18·2	1·3	20·0	1·4	17·2	1·3	18·8	1·4	12·8	1·3	15·4	1·6	23

AUGUST 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	14·6	1·4	15·0	1·4	16·4	1·0	18·1	1·5	18·1	1·4	17·6	1·6	17·6	1·5	19·0	3·0	Midnight
1h	14·0	1·0	14·8	1·1	16·9	0·7	18·0	1·8	18·2	1·7	18·0	1·7	17·0	1·3	17·4	2·4	1h
2	14·0	1·0	14·1	0·9	17·6	0·9	18·1	1·2	17·9	1·4	17·3	1·5	17·2	1·4	16·7	2·1	2
3	13·5	0·8	13·2	0·7	17·8	1·2	18·1	1·4	17·0	0·9	16·2	1·3	17·6	1·5	15·4	1·5	3
4	14·0	1·1	13·0	0·5	17·0	1·0	17·5	1·0	16·4	0·7	15·1	1·2	18·0	1·7	15·6	1·3	4
5	14·5	1·4	13·3	0·8	16·7	0·9	17·5	1·0	17·8	0·8	14·9	1·1	17·2	1·2	16·3	1·0	5
6	15·0	1·6	13·4	0·9	17·0	0·5	16·8	0·9	18·0	0·8	14·0	0·1	17·6	1·5	16·8	1·1	6
7	15·4	1·6	14·7	1·2	16·4	0·6	17·2	0·7	17·5	0·5	15·0	1·0	18·4	1·9	16·2	0·7	7
8	19·3	3·1	19·5	3·0	18·3	1·4	18·8	1·4	18·5	1·3	20·1	2·4	20·9	3·4	19·0	1·2	8
9	21·3	4·9	21·7	4·3	20·8	3·3	21·3	3·7	21·5	3·3	21·8	3·7	22·7	4·7	20·7	2·0	9
10	22·4	6·2	22·8	5·6	22·6	4·7	22·0	4·3	23·2	4·4	23·3	5·0	22·3	4·3	22·2	3·4	10
11	23·1	6·5	22·9	5·6	23·3	5·7	23·0	4·8	23·4	5·0	23·2	4·7	23·0	5·2	23·1	4·3	11
Noon	23·8	7·0	23·5	6·3	23·9	5·9	22·2	3·5	23·9	5·4	23·7	4·6	23·9	5·9	23·3	4·6	Noon
13h	24·0	6·4	23·8	6·7	24·0	6·7	23·9	5·3	22·3	4·0	23·0	4·3	24·0	6·4	24·1	5·5	13h
14	24·6	6·1	23·8	6·5	23·1	5·6	23·8	5·5	22·9	4·3	23·6	5·0	23·9	5·7	24·1	5·5	14
15	24·5	5·7	23·6	6·4	24·3	6·8	23·4	5·3	23·1	4·9	23·6	5·8	23·7	5·7	23·9	5·6	15
16	23·0	5·7	22·0	5·1	23·3	6·0	22·2	3·5	22·7	5·1	23·0	4·4	23·0	5·0	23·7	5·2	16
17	21·5	4·9	21·9	4·9	22·2	5·2	22·4	3·6	22·2	4·3	22·1	4·3	21·8	4·3	22·1	4·1	17
18	19·5	3·2	20·5	3·7	20·3	3·4	21·8	3·5	20·8	3·1	20·6	3·1	20·6	3·7	21·0	2·6	18
19	18·0	2·5	18·5	2·5	18·1	2·2	20·6	3·1	19·4	2·0	19·2	2·2	20·2	3·1	19·3	1·7	19
20	17·0	1·9	17·4	2·2	19·4	1·9	19·2	1·9	19·5	1·7	18·6	2·1	20·4	3·3	19·2	1·4	20
21	16·0	1·8	16·7	1·8	18·0	1·1	18·6	1·6	19·4	1·9	18·4	2·2	20·2	3·5	18·7	1·3	21
22	15·0	1·4	15·9	1·7	16·5	1·2	18·3	1·5	17·6	1·5	18·0	1·7	20·4	3·7	18·5	1·4	22
23	15·0	1·5	14·8	0·1	16·8	1·3	18·2	1·4	17·9	1·8	18.3	1·6	20·4	4·0	18·3	1·3	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

JUNE 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·0	1·7	18·4	1·4	18·8	1·5	18·2	2·6	15·9	0·9	16·4	2·0	18·0	1·5	19·4	1·7	Midnight
1h	19·0	1·5	18·4	1·3	18·4	1·8	17·8	2·5	14·7	1·0	17·1	1·7	18·7	1·4	18·9	1·4	1h
2	18·3	1·3	16·8	1·1	18·9	2·4	17·0	2·3	14·4	1·1	16·8	1·8	18·3	1·2	18·6	1·2	2
3	17·3	1·1	15·7	1·1	18·7	2·2	16·7	2·5	17·0	1·2	16·3	1·7	18·5	1·2	18·9	1·3	3
4	16·3	0·9	15·3	1·0	19·0	2·4	15·9	2·5	17·2	1·0	16·9	1·9	18·1	1·2	19·6	1·4	4
5	17·1	0·7	14·9	1·0	18·3	1·9	15·9	1·6	16·0	0.9	17·5	1·8	18·3	1·2	19·0	1·5	5
6	18·7	1·2	14·8	1·0	18·9	1·8	15·9	1·5	16·6	1·6	17·0	1·5	18·0	1·0	18·4	1·4	6
7	18·7	1·5	15·5	0·9	19·3	1·9	16·2	2·1	17·0	1·4	17·6	0·8	19·0	1·2	19·0	0·9	7
8	20·6	2·3	19·2	1·7	20·9	3·0	19·0	3·2	20·4	3·2	20·5	2·9	21·2	2·2	20·0	1·8	8
9	21·9	3·6	21·8	3·2	21·9	3·3	21·5	4·5	21·6	3·5	22·0	4·0	22·0	3·8	21·0	2·7	9
10	23·4	4·6	23·7	4·2	22·4	3·7	23·0	6·8	21·7	4·1	23·4	6·0	23·6	5·2	23·4	3·9	10
11	23·8	4·3	25·0	4·9	23·0	4·3	23·6	6·9	23·0	5·2	23·3	5·9	24·3	5·5	24·5	4·8	11
Noon	24·1	5·3	25·3	5·4	23·9	5·3	23·8	6·8	23·0	5·3	23·8	6·5	24·6	6·0	25·4	6·2	Noon
13h	23·4	5·1	23·3	4·0	24·0	5·1	23·9	6·7	23·8	6·2	24·2	6·9	24·2	5·3	25·3	5·8	13h
14	23·9	5·3	22·9	3·9	23·8	5·1	23·7	6·6	23·2	5·5	24·5	6·7	24·4	5·6	24·7	5·2	14
15	24·3	5·9	23·2	4·3	23·6	5·2	23·2	6·2	23·4	5·7	24·0	5·9	23·9	5·6	24·0	4·5	15
16	24·2	5·2	22·3	3·1	22·6	4·8	23·0	5·9	22·7	5·0	23·0	5·1	23·3	5·2	23·6	4·2	16
17	23·3	4·8	22·6	3·8	21·7	3·3	21·7	4·7	21·9	4·9	22·0	4·8	22·1	4·1	22·2	3·1	17
18	22·4	3·4	21·8	3·3	20·4	1·6	20·0	3·0	20·7	4·3	20·6	2·7	21·1	3·3	21·0	1·9	18
19	21·3	2·6	20·9	3·0	20·0	1·5	18·7	1·7	19·7	3·4	19·3	1·7	19·8	2·4	20·0	1·0	19
20	20·9	2·2	20·1	2·2	19·0	1·4	17·9	0·9	19·0	3·2	19·7	1·9	19·2	1·8	19·9	1·4	20
21	1·96	1·9	19·5	1·8	18·7	1·6	17·8	0·8	18·5	2·8	18·7	1·7	19·2	1·7	20·5	1·7	21
22	18·0	1·5	19·0	1·5	18·4	1·8	17·0	0·7	18·4	2·7	18·4	1·6	19·3	1·7	19·9	1·5	22
23	17·3	1·0	19·4	1·2	18·0	2·0	16·6	0·9	17·8	2·5	19·0	1·7	20·7	2·3	19·8	1·6	23

JUNE 1949—*continued*

Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	19·5	1·6	18·5	0·9	20·3	2·2	17·7	1·2	20·0	1·6	18·0	1·3	19·0	1·0	17·9	1·5	Midnight
1h	19·2	1·4	18·6	0·8	20·1	2·0	17·8	1·2	19·9	1·6	17·4	1·1	19·1	1·2	17·7	1·4	1h
2	19·3	1.5	18·1	0·6	20·0	1·9	17·2	1·0	19·9	1·5	16·9	1·0	18·5	1·3	17·5	1·3	2
3	19·3	1·7	18·1	0·7	20·0	1·9	17·2	0·9	19·4	1·4	16·7	1·0	17·7	1·3	17·3	1·3	3
4	19·7	1·9	17·2	0·7	18·7	1·4	16·8	0·9	19·4	1·7	16·4	0·9	17·9	1·4	17·1	1·2	4
5	19·3	1·9	16·9	0·6	17·9	1·3	16·2	1·1	18·7	1·3	16·4	0·9	17·9	1·3	16·9	1·1	5
6	18·8	2·0	18·3	0·5	18·2	1·3	15·9	1·0	18·6	1·5	16·5	0·6	17·7	1·3	17·0	1·1	6
7	19·5	2·5	18·7	0·6	18·6	1·3	16·0	0·7	19·0	1·5	18·5	0·9	19·2	2·1	17·5	1·3	7
8	22·0	3·9	20·0	0·8	22·4	3·3	21·5	2·5	22·0	2·8	22·3	2·7	21·8	3·3	20·1	2·3	8
9	23·2	5·0	23·0	3·4	23·6	4·5	22·5	3·8	23·0	4·7	23·2	3·7	22·9	4·3	21·9	3·7	9
10	24·4	5·8	23·7	4·4	24·6	5·8	24·0	5·3	24·0	5·8	23·0	3·5	23·7	5·1	22·9	4·6	10
11	25·5	6·8	24·0	4·8	25·2	6·0	25·2	6·5	24·1	5·6	22·9	3·3	24·0	5·1	23·6	5·2	11
Noon	25·4	6·5	24·0	5·2	25·9	6·5	25·9	7·0	25·4	6·4	23·7	4·1	23·0	4·5	24·0	5·5	Noon
13h	25·4	6·2	24·6	5·7	25·1	5·7	26·8	7·5	25·2	6·4	24·4	4·7	25·6	6·4	24·0	5·4	13h
14	25·5	6·1	24·4	5·5	24·7	5·5	26·2	7·1	24·6	5·9	22·0	2·3	23·4	4·3	23·8	5·2	14
15	24·8	5·4	24·0	5·1	24·0	5·1	25·7	6·8	24·7	5·5	23·0	3·3	23·8	4·7	23·7	5·2	15
16	23·7	4·3	23·3	4·2	23·7	4·8	25·0	6·5	23·7	4·7	20·6	1·0	23·0	4·2	23·0	4·7	16
17	22·7	3·3	22·5	3·5	23·0	4·2	23·4	5·0	23·0	4·3	19·7	0·7	22·1	3·9	22·1	4·1	17
18	21·1	1·7	21·3	2·7	21·6	3·4	22·7	4·6	22·1	3·5	19·8	1·0	21·0	2·9	20·8	3·0	18
19	20·1	0·7	20·9	2·3	20·6	2·7	21·7	3·8	21·0	2·7	19·8	1·3	20·2	1·9	19·7	2·3	19
20	19·4	0·4	21·2	2·3	19·0	1·9	21·7	3·8	19·5	2·0	19·8	1·2	19·8	1·5	19·2	1·9	20
21	19·2	0·4	20·9	2·0	18·4	1·2	21·4	3·3	19·2	1·8	19·8	1·3	19·9	2·0	18·8	1·8	21
22	18·8	0·7	20·5	2·0	18·5	1·6	21·3	3·3	18·9	1·7	19·0	1·3	19·6	2·0	18·3	1·7	22
23	18·3	0·6	20·7	2·3	18·0	1·3	21·2	3·2	18·5	1·4	19·6	1·2	19·3	1·9	18·2	1·6	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during August, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

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Day	1		2		3		4		5 *		6		7		8 *		9		10		11		12		13		14		15		16	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	11	6·4	10	2·0	08	3·2	10	2·4	11	2·8	14	1·3	15	1·5	11	2·5	11	2·1	07	2·4	12	2·2	09	2·0	10	2·4	11	3·0	10	1·7	10	3·0
1h	12	4·4	10	2·3	06	3·6	10	2·8	12	2·8	14	0·9	15	1·6	11	2·4	11	2·5	08	1·7	11	3·5	10	2·1	10	2·6	11	2·7	10	2·3	10	2·6
2	10	5·3	10	2·8	10	3·2	11	2·3	12	2·6	13	1·9	15	1·3	11	2·9	11	3·0	08	0·9	12	2·1	12	1·4	10	2·8	11	2·9	10	2·3	11	2·1
3	11	5·0	11	2·8	09	3·8	10	2·6	12	2·1	14	1·9	15	1·2	11	2·6	11	2·2	08	1·3	10	2·3	12	2·9	10	2·3	11	0·9	10	2·3	11	1·9
4	11	4·7	08	2·5	08	3·9	10	2·6	12	2·2	14	3·3	14	1·1	11	2·9	11	3·2	08	1·0	10	1·8	07	1·3	10	2·6	11	1·0	11	3·5	11	1·4
5	10	4·9	08	2·6	09	3·4	10	2·5	12	3·0	14	2·9	14	1·3	12	2·6	11	3·1	08	1·6	06	1·3	07	1·1	07	3·0	11	1·7	11	2·0	11	1·2
6	11	5·6	10	2·1	10	4·1	10	2·0	12	3·1	14	2·2	14	2·3	12	3·1	13	3·1	08	1·9	06	1·7	07	1·4	11	2.4	11	1·0	11	2·5	11	0·6
7	10	5·2	10	2·2	09	3·5	11	2·7	13	3·0	14	1·5	13	2·8	11	2·6	14	3·0	08	2·3	06	3·7	07	1·5	11	3·4	15	1·7	10	3·0	11	1·9
8	09	4·7	10	2·1	08	4·9	10	3·2	13	2·9	14	1·0	13	2·6	12	1·5	11	2·0	08	3·7	11	3·2	10	2·3	09	4·3	11	1·4	10	4·6	10	2·5
9	09	5·3	10	3·8	09	4·9	10	3·9	11	3·7	14	1·8	11	3·8	11	1·8	12	3·1	07	3·8	12	3·7	11	3·7	10	4·7	11	3·0	10	4·4	10	4·1
10	10	6·5	09	5·6	08	5·5	09	4·2	10	4·4	14	3·9	11	4·2	12	2·0	11	3·7	06	4·0	10	3·8	10	4·2	10	4·5	11	4·4	10	4·9	10	4·3
11	10	6·7	07	5·1	09	5·3	11	4·4	10	3·7	13	5·9	12	3·2	10	2·5	14	2·1	07	4·7	06	3·9	10	4·7	08	4·9	11	5·0	11	5·3	09	4·4
Noon	08	7·8	10	6·2	10	5·9	10	5·0	12	3·3	14	3·9	11	3·1	13	1·4	10	2·1	06	4·3	06	4·2	09	4·2	08	5·0	10	4·9	11	6·3	09	4·2
13h	10	6·5	09	5·7	09	6·4	10	5·1	d22	2·0	14	4·1	09	3·1	09	1·4	10	2·3	06	4·8	07	0·7	10	5·5	10	6·1	10	5·7	10	6·1	07	4·6
14	12	6·9	09	5·8	09	6·0	09	4·8	24	1·0	12	3·8	11	4·1	r22	2·8	06	3·2	11	4·6	08	3·4	08	5·1	11	5·4	09	6·1	09	5·9	06	4·2
15	09	7·4	05	4·4	10	5·3	11	4·6	r11	2·0	13	4·0	10	3·5	24	2·0	06	2·0	10	4·5	06	3·7	10	4·6	10	4·9	11	5·9	12	6·0	06	4·2
16	11	6·5	08	6·2	09	5·2	10	4·1	11	3·0	13	4·5	10	3·8	22	3·2	06	2·2	09	4·4	06	3·3	10	5·3	10	4·4	10	4·4	10	5·8	07	4·3
17	10	5·3	09	5·4	08	3·9	11	3·1	11	3·1	13	2·9	11	3·4	r14	2·1	08	4·3	10	3·7	08	3·1	11	4·1	10	4·1	10	6·1	10	5·7	06	3·4
18	10	4·4	09	4·5	10	2·3	11	2·4	11	3·1	13	2·5	11	2·1	11	2·0	09	2·9	11	3·0	08	2·0	10	3·7	10	2·5	10	3·3	10	3·2	07	3·3
19	10	3·7	09	5·0	09	2·8	11	2·2	11	2·1	13	1·9	11	2·1	11	2·5	10	0·6	11	1·9	08	1·6	10	2·5	11	2·6	10	2·1	12	3·4	08	2·8
20	10	2·8	09	4·3	10	2·1	11	2·5	11	3·5	13	1·2	11	1·8	11	2·2	10	1·1	11	1·6	08	1·8	10	3·0	11	1·5	10	1·8	11	3.1	08	3·0
21	10	3·8	08	4·7	10	1·3	11	2·1	12	2·0	13	1·2	11	2·6	11	2·4	10	0·7	11	1·8	06	1·5	10	3·0	12	1·6	10	2·2	10	3·5	09	2·2
22	11	2·8	09	3·9	10	2·1	11	1·8	r29	0·6	11	2·1	12	1·6	11	2·7	10	1·0	12	0·9	10	2·0	10	3·3	13	2·6	10	1·5	10	3·6	09	3·5
23	10	3·0	09	4·6	10	1·8	10	2·6	d08	1·6	10	1·0	11	2·5	11	2·2	10	2·2	11	1·7	09	1·4	10	3·1	11	3·1	10	2·1	10	3·2	09	3·1

AUGUST 1949—*continued*

Day	17		18 *		19		20		21		22		23		24		25		26		27		28		29		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	10	3·0	11	1·2	14	0·7	11	3·5	10	1·8	11	2·7	11	3·0	09	2·3	10	3·1	10	3·4	09	2·1	11	2·2	09	4·1	08	1·0	10	2·6	2·5
1h	10	2·2	11	0·9	13	1·5	11	2·3	11	2·2	11	2·4	10	3·3	09	2·6	10	3·2	10	2·8	09	3·4	11	1·8	10	3·2	10	2·6	10	3·6	2·5
2	11	2·4	11	1·8	11	3·0	11	2·8	11	2·1	11	2·1	10	2·9	10	2·2	11	3·8	10	2·9	08	2·2	11	2·6	10	3·1	11	2·1	09	3·3	2·6
3	11	1·7	11	1·5	11	3·0	13	1·9	10	3·2	11	2·1	11	2·9	10	2·1	11	4·0	10	2·1	08	2·1	11	2·4	10	3·2	11	1·8	09	3·4	2·4
4	11	1·9	11	2·1	12	2·5	13	2·8	08	2·1	11	2·5	11	2·3	10	3·1	11	3·9	10	2·9	09	1·5	11	1·7	10	3·3	11	2·2	10	3·0	2·5
5	11	1·8	11	2·1	12	1·9	10	2·2	08	2·1	11	3·1	11	3·5	11	2·6	11	3·2	11	2·4	10	2·8	14	1·3	10	3·2	11	2·0	10	3·5	2·5
6	08	2·3	11	2·1	11	3·3	10	2·1	11	2·8	10	2·7	11	2·1	11	2·1	10	3·5	10	2·8	11	3·0	14	2·4	10	2·2	11	1·9	10	3·4	2·5
7	10	2·1	11	2·1	11	3·1	10	2·1	11	2·6	10	2·5	10	2·4	06	3·1	10	3·1	09	1·4	12	1·7	11	2·2	10	2·8	11	2·0	10	3·5	2·6
8	09	3·2	11	1·2	12	4·4	10	3·1	11	2·3	10	3·1	10	3·2	10	3·2	11	4·8	13	1·9	09	3·2	11	1·8	10	3·4	11	1·7	10	3·9	2·9
9	10	2·3	r19	2·0	11	6·8	10	3·5	11	4·1	10	5·1	08	4·2	10	4·2	11	5·6	10	2·7	08	3·3	10	3·9	07	5·3	08	2·1	09	4·5	3·8
10	08	2·7	23	2·7	10	6·4	06	4·5	08	5·1	10	6·1	08	5·2	09	5·0	10	5·9	06	3·3	08	3·7	10	4·8	08	5·8	10	3·1	07	5·5	4·5
11	04	3·2	24	3·9	10	7·7	06	3·7	08	6·1	08	6·0	08	5·1	09	5·1	11	5·2	10	4·8	06	3·1	10	5·1	07	5·6	08	2.7	08	4·4	4·6
Noon	04	2·5	23	4·3	11	7·7	06	3·6	09	6·3	09	5·6	10	5·5	10	5·2	09	5·2	11	4·1	10	3·7	10	4·4	08	5·6	10	2·3	08	4·7	4·6
13h	07	1·5	22	4·8	06	8·2	10	5·1	10	6·3	09	5·5	11	6·0	10	5·4	11	5·1	10	4·1	08	4·0	11	4·2	06	5·9	06	4·5	10	4·9	4·7
14	06	1·7	22	2·9	08	7·5	10	5·8	10	5·8	08	5·4	09	5·5	09	5·7	10	5·3	10	2·3	08	3·1	10	3·0	05	5·5	05	4·0	08	5·0	4·6
15	06	1·3	d05	2·2	08	6·7	10	4·9	10	6·1	09	5·3	08	5·1	08	5·2	08	5·6	06	3·8	07	2·4	10	4·5	06	5·1	07	3·4	10	4·3	4·4
16	06	2·0	12	2·6	09	6·7	10	4·9	10	5·5	09	5·3	09	5·5	10	5·4	08	4·7	06	3·8	09	2·5	11	4·4	06	4·8	06	2·5	11	4·3	4.4
17	06	1·4	17	2·1	10	5·4	11	3·6	10	5·1	09	4·9	09	5·0	10	5·0	08	5·7	09	3·8	09	2·3	11	4·7	06	4·4	10	2·6	09	4·2	4.0
18	06	1·3	14	2·6	10	3·4	11	3·1	10	4·0	09	4·4	08	3·6	11	4·1	10	3·3	10	2·2	09	2·0	11	3·3	06	2·3	11	3·0	10	2·4	3·0
19	06	1·4	16	2·3	10	4·1	11	2·4	10	3·0	09	3·0	08	2·1	10	3·7	10	3·9	10	2·8	10	1·7	12	2·2	07	1·9	10	2·9	09	3·7	2·6
20	06	1·8	15	2·4	10	3·5	10	2·2	10	3·0	11	3·2	08	2·2	09	3·9	11	2·2	11	2·9	10	1·8	12	2·7	07	1·3	08	2·0	10	3·4	2·4
21	11	1·8	12	3·4	10	3·0	11	1·9	10	2·2	11	3·2	09	2·2	09	3·4	11	1·9	10	3·8	11	1·9	12	2·1	07	2·0	10	2·0	12	3·2	2·4
22	11	1·7	12	1·3	10	2·8	11	2·0	10	2·4	09	3·0	10	1·5	09	2·8	11	2·7	10	3·5	11	2·2	11	2·6	07	1·3	10	2·8	12	3·1	2·3
23	11	2·0	12	0·7	10	3·0	11	2·5	11	2·4	11	3·6	10	3·4	10	2·9	10	2·7	09	3·9	11	2·0	10	3·4	08	1·8	10	3·3	10	3·1	2·6

Table XIII.—Wind Frequency (Number of Observations), August, 1949

Hour	Force (0—12)			Directions															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	...	31	...	...	...	...	4	8	17	1	1	...	...	...	...	...	...	...
9	...	2	29	..	...	...	...	8	11	10	1	...	...	1	...	...	...	...	...
15	...	6	25	...		2	6	8	9	5		...	...	...	...	1	...	...	...
21	...	...	31	...	...	...	1	5	10	15	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	2	7	25	38	47	2	1	...	1	...	1	...	...	...

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, August, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...
2	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	..	...	...	...	...	0·1
3	0·2	...	1·0	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	1·6	0·6	1·9	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·4	...	..	...	...	...	...	...	...	...	...
5	...	...	0·9	...	...		..	...		...	...	...	..	...	...	0·4	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
6	0·1	0·1	...	...	..	...	...	...	...	...	...	...	...	...	...	0·4	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...
7	0·2	...	1·4	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	1·0	...	1·4	...	...	...	...	...
8	...	...	0·2	...	...	.	...	...	...	...	0·2	1·1	...	...	...	0·6	...	...	...	...	...	...	...	0·1	...	...	..	...	...	...	...
9	..	0·5	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...
Noon	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	..	...	..	...	...	..	...	...	...	...	...	0·1	...
15	...	...	...	...	...	..	...	...	...	.	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
17	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	4·0	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·1	...
20	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	..	...	...	...	...	...	0·1	...
21	..	0·7	...	...	.	...	...	...	...	...	0·3	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	0·3	0·3	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·1	...	...	...	...	...	...	...	...	...	...	...	..	...
24	...	0·8	...	0·1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...

Table XIV.*b*—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for August, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	0·6	...	0·6	...	...	...	0·2	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	0·4	...	1·0	...	...	...	...	...	...
2	0·5	...	0·7	...	...	...	...	...	...	...	0.4	...	...	...	0·1	...	0·3	...	...	...	...	...	...	...	...	...	...	...	0·2	..	...
3	0·5	0·5	0·2	...	..	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	0·3	...	0·3	...	...	...	...	...	...	...	...
4	1·6	...	0·4	...	.	...	...	...	...	...	...	1·2	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	..	...	...	...
5	3·0	...	0·1	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		0·8	0·1	...	...	...	...	...	...	...
6	0·7	0·1	0·8	...	0·4	...	...	...	...	...	...	...	...	...	0·4	..	...	...	...	...	...	0·3	..	...	...	...	...	...	...	...	...
7	0·3	...	0·7	...	...	...		...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...		...
8	0·6	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	0·6	...	...	...	0·1	0·5	...	...	...	...	...	...	...
9	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	..	..	1·3	...	...	...	...	...	...	...	..	...	...	...	...
10	0·8	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...
11	0·1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	..	0·7	...
Noon	...	0·1	0·5	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	1·4	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·6	...
16	0·4	...	...	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	...
17	...	...	...	...	.		...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...
18	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	0.2	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...
20	...	0·1	...	...	...	...	...	...	...	...	..	...	...	...	0·4	...	...	...	...	..	...	...	...	2·0	...	...	..	...	...	0·3	...
21	0·4	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	0·6	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	0·5	...	...	...	...	...	...	...
23	..	0·5	...	...	...	0·2	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	1·0	...	...	...	...	...	...	...
24	...	0·5	...	...	...	...	...	..	...	0·4	0·3	...	...	...	...	...	...	...	...		...	...	0·8	0·4	...	...	...	...	...	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, August, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Fall in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	0·55	14·0	—	7
B. River ...	Pierre Fonds	—	0·74	18·8	2·38	2
	La Ferme	350	0·87	22·1	1·25	3
	Richelieu	—	0·64	16·2	—	5
	Mon Repos (*Palmyre*)	—	0·80	20·3	—	1
	Médine	—	0·86	21·8	—	2
	La Mecque	—	0·70	17·8	—	1
	Albion	—	0·80	20·3	—	1
	Beaux Songes	—	0.92	23·4	—	1
	Mare Longue ...	—	4·94	125·5	—	24
	Clarens	—	0·55	14·0	—	1
	Mon Désert	—	0·62	15·7	—	1
P/mousses	Botanical Gardens ...	325	1·05	26·7	2·98	14
	Solitude ...	175	0·72	18·3	1·71	2
	La Nicolière	—	3·58	90·9	4·59	17
	The Observatory ...	179	1·00	25·4	2·25	14
	California	—	3·54	89·9	—	—
Rivière du Rempart	Saint Antoine ..	50	1·09	27·7	2·12	—
	Bel Mont	50	0·79	20·1	2·06	—
	Poudre d'Or	20	0·87	22·1	2·06	—
	Mon Loisir	300	1·22	31·0	2·78	8
	Forbach	—	1·50	38·1	2·29	3
	Ravensworth	—	2·72	69·1	—	5
	Couroupa	—	0·76	19·4	3·67	4
	Labourdonnais	290	0·91	23·0	2·76	3
	Beau Séjour	300	1·60	40·6	3·65	6
	Mont Piton	680	1·43	36·3	3·70	6
	Mon Choix	700	1·41	35·8	3·11	6
	Antoinette	640	2·10	53·3	2·12	12
	Mon Songe	620	2·24	56·9	3·97	4
Moka ...	Bonne Veine ...	400	3·98	101·1	8·48	16
	Le Réduit	1,000	1·41	35·8	2·55	17
	Alma	1,460	3·18	80·8	6·99	21
	Hermitage	1,450	2·06	52·3	9·64	11
	Béga	—	0·60	15·2	—	4
	Côte D'Or	—	2·15	54·6	—	6
	Mon Rêve	—	1·15	29.2	—	7
	Mont Pévril	—	0·77	19·6	—	6
	Minissy	1,150	1·24	31·5	3·25	7
	Mon Désert	1,450	1·47	37·3	—	14
Plaines Wilhems	Curepipe Gardens ...	1,840	5·35	135·9	8·09	12
	Aerological Station ...	1,393	1·79	45·5	5·40	22
	Mare-aux-Vacoas (G. End.)	1,850	6·42	163·1	10·68	19
	Mare-aux-Vacoas (Arnaud)	1,830	5·84	148·3	11·40	22
	La Marie Filter Beds ...	1,700	2·62	66·5	7·07	12
	Réunion	1,420	2·33	59·2	5·13	13
	Phœnix	—	0·72	18·3	—	2
	Quatre Bornes ...	—	0·43	10·9	—	3
	Bagatelle	1,250	2·62	66·5	4·08	15
	Pétrin	—	6·34	161·0	—	22
	Henrietta	—	1·30	33·0	—	12
	Tamarin-Falls ..	—	2·87	72·9	—	12
	Tamarin	—	0·05	1·3	—	1
	Moon ...	—	0·66	16·8	—	11
	La Pipe Midlands Dam ...	—	7·70	195·6	—	17

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Fall in mms.	Normal in Inches	Number of days
	Highlands	1,300	2·43	61·7	5·08	13
	Trianon	950	0·70	17·8	2·80	6
	Bassin	—	0·67	17·0	3·03	6
	Ebène ...	630	1·07	27·2	—	7
Flacq ...	Mare Sèche ...	20	—	—	2·40	—
	Australia	—	1·82	46·2	—	—
	Union Regnard S. E. ...	600	2·92	74·2	3·69	8
	Constance La Gaieté ...	100	1·57	39·9	3·27	5
	Belle Vue Allendy ...	900	1·82	46·2	4·32	7
	Sans Souci ...	20	6·13	155·7	9·17	14
	Beau Champ G.R.S.E. ...	400	2·11	53·6	3·64	16
	Rich Fund	—	2·51	63·8	—	8
	Olivia	—	1·60	40·6	6·01	9
	Trois Ilots	—	2·70	68·6	—	14
	Belle Rive	400	3·55	90·2	8·83	18
G. Port ..	Rose Belle	850	4·21	106·9	9·76	21
	Union Park	—	4·39	111·5	—	21
	New Grove ...	600	2·00	50·8	8·09	2
	Astroea	—	3·69	93·7	—	13
	Deux Bras	—	4·43	112·5	—	16
	Mon Trésor ...	—	2·01	51·1	—	9
	Beau Vallon ...	—	1·54	39·1	—	8
	Union Vale	—	1·59	40·4	—	12
	Mon Désert Carié ...	75	2·01	51·1	3·33	9
	Ste. Hélène ..	—	0·89	22·6	—	6
	Ferney	20	1·45	36·8	4·75	9
	Sauve Terre ...	—	1·90	48·3	—	9
Savanne	Tivoli	1,300	5·69	144·5	10·96	15
	La Flora	1,050	5·25	133·4	9·84	17
	Riche Bois ...	650	3·17	80·5	5·75	16
	Britannia	700	3·80	96·7	6·39	16
	Beau Climat ...	—	6·83	173·5	—	16
	Savannah	200	1·76	44·7	4·08	13
	Saint Aubin ...	300	1·20	30·5	4·30	12
	Saint Avold ...	900	4·74	120·4	7·80	17
	Colmar	400	4·34	110·2	5·23	16
	Terracine	—	2·27	57·7	—	16
	Union Sugar Estate ..	—	1·67	42·4	4·44	10
	Fontenelle	320	2·37	60·2	4·75	11
	Choisy	200	—	—	2·74	—
	Beau Bois	—	3·57	90·7	—	16
	Bel Air	—	—	—	3·68	—
	Saint Félix	—	—	—	—	—
	Bel Ombre	40	1·37	34·8	3·45	—
	Beau Champ B. du Cap...	—	2·19	55·6	3·49	—
	Frédérica	—	2·82	71.6	4·22	—
	Sainte Marie ...	—	2·81	71·4	—	—
	Combo	—	3·62	91·9	—	16
St. Brandon	Met. Station ...	—	0·62	15·7	—	17
Agalega	Met. Station .	—	1·41	35·8	—	22
Rodrigues	Oyster Bay	—	1·70	43·2	—	17
Chagos Archipelago	Salomon Islands Boddam	—	20·72	526·3	—	14

Table XVI.—Observations of Pilot Balloons, month of August, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p h.	Dir. °	Vel. m.p.h	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.17	11	32	10	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.40	11	16	10	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08.33	10	24	08	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	08.33	12	20	12	15	14	25	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08.33	12	18	13	10	24	02	26	03	03	03	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	08·40	14	20	13	15	03	01	12	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	08.11	13	08	11	12	07	09	19	05	10	08	24	06	30	10	...	...	...	...	...	...	...	...
9	08.36	13	02	14	08	36	08	13	11	28	02	23	10	22	09	...	...	21	12	27	11	24	08
10	08.20	10	19	11	20	07	23	09	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	08.25	09	15	08	21	07	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	08.36	12	16	09	18	09	22	11	19	23	03	...	...	...	...	...	...	...	...	...	...	...	...
13	08.40	12	25	10	24	07	10	04	10	30	04	...	...	...	...	...	...	...	...	...	...	...	...
14	07.53	13	17	13	21	12	20	12	13	23	06	...	...	...	...	...	...	...	...	...	...	...	...
15	08.35	11	11	12	23	13	13	16	04	12	10	...	...	...	...	...	...	...	...	...	...	...	...
16	08.08	09	15	06	16	08	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	08.45	08	11	05	07	36	08	05	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	08.28	23	10	20	10	19	10	19	15	24	12	...	...	...	...	...	...	...	...	...	...	...	...
19	08.15	12	22	11	28	08	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	08.45	13	12	11	20	10	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08.15	11	08	10	15	09	20	08	22	06	04	...	...	...	...	...	...	...	...	...	...	...	...
22	08.25	10	22	08	22	07	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.50	10	23	10	28	09	23	08	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.51	10	18	07	21	05	29	09	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.49	13	16	12	20	04	09	07	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	08.28	11	17	07	17	05	18	06	18	07	19	...	...	...	...	...	...	...	...	...	...	...	...
27	—	11	14	13	10	20	04	03	04	36	12	...	...	...	...	...	...	...	...	...	...	...	...
28	07.37	11	16	11	14	13	07	14	03	01	04	...	...	...	...	...	...	...	...	...	...	...	...
29	08.38	11	28	11	22	11	30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	08·40	10	04	08	08	07	12	08	14	11	14	24	14	31	26	27	28	...	...	...	...	...	...
31	08·05	10	21	08	23	11	22	18	14	14	16	...	...	...	...	...	...	...	...	...	...	...	...

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RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

SEPTEMBER, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, SEPTEMBER 1952. 5154/9/52—208

Table I—Results of Magnetical Observations made during the month of September, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
SEPT. 1	15°32·8′	·22311	·30343	8·4	50	27
2	31·3	312	345	9·0	62	29
3	31·0	310	347	9·2	71	36
4	30·9	328	344	11.2	41	33
5	31·5	336	345	11·2	45	36
6	31·4	332	348	8·0	47	30
7	31·1	342	344	6·4	62	37
8	31·9	340	341	8·2	56	45
9	31·9	342	337	6·6	31	42
10	31·5	358	335	7·0	53	43
11	31·6	343	340	4·7	65	29
12	32·8	314	349	6·0	106	20
13	—	324	346	—	63	38
14	32·1	327	347	12·0	67	24
15	32·4	340	344	10·4	43	27
16	31·9	339	338	8·0	34	41
17	32·4	345	342	10·0	33	20
18	32·5	—	340	11·4	—	31
19	32·8	—	338	11·4	—	35
20	32·9	—	338	10·4	—	39
21	32·5	355	338	9·4	45	29
22	32·6	346	341	8·4	69	26
23	32·7	345	340	12·0	54	46
24	32·1	347	342	12·0	51	23
25	32·3	313	347	8·6	80	38
26	32·5	314	345	9·0	47	44
27	32·9	328	349	10·2	48	10
28	32·5	340	340	8·2	23	33
29	32·3	348	348	7·6	47	19
30	33·6	335	348	13·5	43	41
31	—	—	—	—	—	—
Mean	15°32′·30	·22334	·30343	9′·26	53·2	32·4

T=·376,6: Mean Dip=53°38′·70: X=·21518: Y=−·059828: Z=·30343

Magnetic Disturbances—September, 1949

1d. Moderately disturbed.
2d. Slightly disturbed.
3d. Moderately disturbed.
4d. Slightly disturbed.
8th Slightly disturbed.
12d. Moderately disturbed.
14d. Slightly disturbed.
15d. Slightly disturbed.
18d. Slightly disturbed.
21d. Slightly disturbed.
22d. Slightly disturbed.
25d. Moderately disturbed.
26d. Slightly disturbed.
27d. Moderately disturbed.
30d. Slightly disturbed.

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of September, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
6 9 46	15 35·06	6 9 26	·22341	6 9 55	53 38·13	·30358
13 9 54	15 35·87	9 9 13	·22337	13 10 06	53 39·25	·30349
20 10 10	15 38·75	13 9 32	·22339	20 10 20	53 38·87	·30352
27 9 37	15 36·37	16 9 42	·22346	27 9 48	53 38·25	·30342
		20 9 48	·22356			
		27 10 10	·22332			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

SEPTEMBER 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	32·4	33·0	34·0	32·0	0·8	32·6	31·4	32·4	32·6	31·8	32·1	34·0	—	32·4	33·0	33·1	Midnight
1h	32·6	33·8	34·0	32·4	31·6	32·0	31·6	32·6	32·2	31·4	32·2	34·8	—	32·0	33·0	32·8	1h
2	32·5	35·0	33·0	33·0	32·0	32·0	31·2	32·8	32·0	32·0	32·4	35·0	—	32·0	32·8	32·6	2
3	33·6	34·0	33·0	32·8	32·2	31·9	31·0	33·0	32·0	32·2	32·2	35·4	—	31·8	32·0	32·2	3
4	33·2	33·0	32·8	31·6	31·7	31·7	30·9	32·6	31·0	32·0	32·4	35·6	—	32·2	32·8	31·6	4
5	33·0	32·2	32·2	31·0	30·0	31·0	30·8	32·4	31·2	31·2	32·0	35·8	—	32·6	31·2	31·2	5
6	32·0	31·0	30·4	29·8	29·6	30·0	30·0	31·6	31·4	31·0	31·6	36·0	—	32·4	32·0	30·0	6
7	31·0	29·0	29·6	28·4	28·0	28·0	29·4	29·6	31·0	29·6	30·0	35·4	—	32·8	32·2	30·6	7
8	32·2	29·4	29·5	30·0	31·0	29·8	31·2	30·6	32·0	30·8	31·4	35·6	33·0	34·8	34·0	32·2	8
9	34·6	31·6	30·2	33·0	34·0	34·0	33·0	33·0	34·0	32·8	31·6	37·6	34·4	37·2	36·4	34·0	9
10	37·8	33·8	31·0	36·0	37·6	36·0	34·4	35·0	35·0	34·0	32·0	39·8	36·0	38·0	37·6	36·0	10
11	37·0	32·6	34·0	37·0	37·2	35·8	34·0	37·0	35·6	35·0	33·0	40·0	36·8	37·0	36·4	35·6	11
Noon	35·0	32·0	34·2	34·0	35·0	35·0	32·8	34·0	34·0	33·0	32·0	38·0	35·6	35·0	34·6	34·0	Noon
13h	33·6	31·2	33·4	30·8	32·2	32·0	30·0	32·0	32·4	32·0	30·2	37·6	33·0	31·0	32·0	32·4	13h
14	31·0	29·8	29·8	29·0	27·0	30·0	28·0	30·4	30·0	30·0	29·9	37·4	38·0	27·0	30·0	31·2	14
15	30·0	27·6	28·0	26·0	26·4	28·0	28·6	29·0	29·0	28·0	29·0	36·2	28·0	26·0	27·2	29·0	15
16	29·4	26·0	25·0	25·8	28·0	28·4	29·0	28·8	29·2	28·2	28·9	34·4	28·2	26·2	27·4	28·0	16
17	29·6	27·0	26·4	27·0	30·0	29·0	30·2	29·2	29·6	29·0	29·2	36·0	29·6	27·6	29·0	29·2	17
18	30·4	29·0	28·8	29·0	30·4	30·6	31·0	30·6	30·8	30·9	30·9	37·6	31·6	30·0	31·2	31·0	18
19	31·2	30·0	29·6	29·2	31·0	31·0	31·4	31·6	31·6	32·2	31·9	39·6	32·0	31·0	31·6	21·2	19
20	32·4	32·0	30·8	30·0	32·2	31·2	31·6	32·0	32·0	32·0	32·2	40·0	31·6	31·6	31·8	32·0	20
21	33·4	32·2	31·6	31·0	32·0	31·6	31·2	32·2	32·2	32·2	33·2	38·0	32·0	32·4	32·3	31·8	21
22	34·1	32·2	32·0	31·2	32·4	31·8	31·4	32·0	32·4	32·0	33·4	37·0	32·0	33·0	34·0	31·9	22
23	34·0	33·6	31·2	31·6	32·4	31·7	31·6	32·4	32·2	32·0	33·6	36·0	32·2	33·2	33·0	32·0	23

SEPTEMBER 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	32·2	33·2	32·4	32·4	31·9	31·8	32·0	32·1	32·4	33·2	34·0	34·1	34·0	33·6	—	32·7	Midnight
1h	32·3	32·4	32·6	32·8	32·2	31·6	32·2	32·2	32·8	33·4	33·7	33·7	33·6	33·7	—	32·7	1
2	32·4	32·3	33·0	32·9	32·0	32·0	32·1	32·6	34·4	33·8	32·4	32·4	32·4	33·8	—	32·7	2
3	32·0	32·0	32·6	32·6	32·4	32·2	32·4	32·8	33·0	33·6	33·2	33·4	33·4	34·0	—	32·7	3
4	32·0	32·1	32·8	32·2	32·6	32·4	32·6	33·2	32·4	33·0	33·0	32·4	33·0	34·0	—	32·5	4
5	31·9	32·0	33·0	32·4	32·8	33·0	32·8	33·4	33·2	32·4	32·8	31·6	32·4	33·9	—	32·3	5
6	31·8	31·9	32·0	32·0	32·0	33·8	33·4	32·8	32·0	32·2	31·9	30·0	31·8	33·8	—	31·7	6
7	31·9	31·2	32·4	32·8	33·0	34·0	34·0	33·0	32·0	30·4	32·4	30·4	31·0	34·2	—	31·3	7
8	33·0	32·8	34·2	36·0	35·5	35·8	34·8	34·0	31·9	33·0	34·4	33·4	32·4	36·0	—	32·8	8
9	35·0	36·0	36·8	38·8	37·6	37·6	36·0	35·6	34·0	31·6	35·0	34·0	34·0	38·4	—	34·7	9
10	37·4	38·6	39·4	39·6	38·4	38·0	38·0	38·0	34·2	35·7	37·0	36·0	36·0	41·0	—	36·6	10
11	38·0	39·8	39·0	39·4	36·8	36·0	39·2	36·8	34·0	36·0	37·8	36·2	36·0	40·0	—	36·6	11
Noon	36·0	37·2	37·4	36·0	34·6	34·4	38·0	34·0	32·4	34·0	33·8	35·4	34·0	37·0	—	34·7	Noon
13h	34·0	33·0	34·0	33·6	32·0	31·0	35·0	30·0	29·0	30·0	31·6	32·4	31·2	32·4	—	32·1	13h
14	32·0	30·0	30·4	30·8	30·2	30·0	28·0	26·4	27·0	28·2	29·4	30·6	29·6	29·6	—	29·8	14
15	29·6	28·4	28·6	29·4	29·0	26·6	27·2	26·0	26·4	27·0	27·6	28·0	28·0	27·5	—	28·3	15
16	28·0	29·4	28·0	29·0	29·6	30·0	27·6	28·0	28·0	28·0	28·0	28·2	28·4	28·0	—	28·3	16
17	29·2	30·6	28·6	30·0	29·8	30·4	29·6	30·0	30·8	30·0	30·0	29·8	29·4	29·6	—	29·5	17
18	30·0	30·9	30·8	31·6	30·4	31·0	31·8	31·4	33·0	33·0	32·0	32·0	31·2	31·0	—	31·1	18
19	30·6	31·0	31·6	31·4	31·2	31·2	31·4	31·2	34·4	34·4	33·0	32·6	32·0	31·2	—	31·7	19
20	31·6	31·2	32·0	31·0	31·6	31·4	31·2	31·6	34·8	33·4	33·8	33·2	32·0	32·0	—	32·2	20
21	31·9	31·4	32·0	31·2	31·8	31·6	31·0	31·7	34·6	34·0	33·9	33·6	32·6	32·8	—	32·5	21
22	32·0	32·0	31·9	31·4	31·8	31·8	31·6	31·8	35·0	34·1	34·2	33·8	33·2	33·8	—	32·7	22
23	32·4	32·2	32·0	31·6	32·0	31·9	32·0	32·0	34·8	34·6	34·0	33·9	33·8	34·0	—	32·8	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

SEPTEMBER 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	292	296	279	317	336	328	335	313	325	348	340	317	282	318	321	329	Midnight
1h	300	304	287	318	331	329	336	319	331	349	337	314	302	319	326	330	1h
2	313	301	298	314	331	336	337	322	339	349	338	321	301	322	329	331	2
3	314	297	312	319	335	337	344	335	344	352	339	328	304	329	334	333	3
4	315	302	324	320	337	344	343	338	348	355	340	329	317	330	337	337	4
5	319	310	334	327	345	345	345	337	350	358	341	335	316	331	340	344	5
6	320	321	340	324	349	347	349	338	347	359	342	340	319	332	342	350	6
7	329	328	341	330	348	352	351	342	344	364	348	350	325	339	354	347	7
8	334	339	350	333	347	352	357	343	343	369	360	354	337	347	359	340	8
9	339	338	335	335	341	344	359	344	340	373	370	355	340	352	362	347	9
10	340	337	317	345	340	344	360	348	339	382	378	358	340	348	361	348	10
11	337	334	330	355	348	337	365	350	345	391	380	359	342	349	360	350	11
Noon	320	339	300	352	363	331	371	361	356	392	384	357	342	353	363	358	Noon
13h	321	332	319	350	355	325	376	369	341	389	370	362	345	354	359	351	13h
14	312	326	322	340	345	314	366	363	339	370	350	340	340	350	348	339	14
15	305	324	299	327	334	305	350	357	335	355	335	310	334	330	336	327	15
16	298	319	289	314	322	306	332	347	337	345	325	289	330	314	331	324	16
17	290	318	292	316	323	312	325	338	336	340	323	270	330	300	334	328	17
18	294	317	287	318	329	319	324	345	339	339	325	256	316	287	332	337	18
19	300	300	286	320	331	328	324	339	345	346	324	260	319	298	331	338	19
20	299	280	293	319	324	329	323	332	343	345	326	262	314	308	329	334	20
21	297	284	286	321	318	330	317	327	347	344	327	261	316	311	320	333	21
22	285	282	299	320	319	334	316	329	341	342	320	259	317	312	322	337	22
23	290	277	313	319	320	335	314	322	343	341	319	274	318	311	326	338	23

SEPTEMBER 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	336	—	—	—	348	343	326	338	340	297	318	329	330	344	—	323	Midnight
1h	342	—	—	—	345	341	324	337	340	299	322	333	331	342	—	325	1h
2	338	—	—	—	344	343	328	338	334	301	347	337	334	338	—	328	2
3	341	—	—	—	346	359	330	337	350	302	335	341	336	347	—	333	3
4	343	—	—	—	347	359	334	339	350	307	332	348	335	345	—	335	4
5	345	—	—	—	349	355	336	342	330	309	328	340	336	346	—	337	5
6	347	—	—	—	347	352	333	343	322	306	331	352	337	346	—	338	6
7	348	—	355	—	349	354	335	348	320	320	328	343	342	353	—	342	7
8	351	—	362	—	352	358	344	352	330	322	331	350	319	357	—	347	8
9	352	—	373	—	356	357	352	359	323	317	335	349	355	355	—	348	9
10	355	—	374	377	362	362	362	370	320	329	338	332	362	354	—	349	10
11	360	—	377	388	375	374	374	371	334	336	335	337	374	340	—	353	11
Noon	367	—	378	392	389	381	377	379	347	342	337	341	377	331	—	356	Noon
13h	359	—	370	393	384	370	378	368	342	330	328	352	370	339	—	353	13h
14	349	380	358	394	370	354	372	360	325	323	348	351	360	338	—	345	14
15	338	365	350	382	362	340	361	351	320	320	330	341	353	324	—	333	15
16	335	352	345	370	348	332	350	340	289	310	312	338	347	328	—	324	16
17	334	345	—	362	349	333	340	337	282	300	300	337	343	322	—	320	17
18	340	346	—	355	350	329	334	332	275	295	303	337	348	321	—	320	18
19	339	347	—	350	351	320	339	328	273	310	324	338	349	318	—	321	19
20	338	344	—	352	350	312	338	334	275	311	328	338	349	317	—	320	23
21	341	340	—	350	350	319	337	335	270	311	329	337	347	316	—	320	22
22	342	338	—	349	349	325	338	340	274	313	325	332	346	310	—	320	21
23	347	337	—	348	349	328	337	338	296	317	324	33	345	314	—	322	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

SEPTEMBER 1949

+ ·30000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	348	350	356	350	350	350	350	353	350	344	347	350	360	350	350	347	Midnight
1h	349	350	355	350	350	349	350	352	348	344	347	350	359	350	350	347	1h
2	348	350	352	350	349	349	349	350	347	343	347	350	357	350	350	348	2
3	348	350	351	351	349	348	348	350	346	343	346	350	356	350	350	347	3
4	348	350	350	350	348	347	349	349	344	342	344	347	354	350	350	346	4
5	347	349	349	350	347	347	348	340	345	342	343	347	353	350	350	347	5
6	345	348	347	350	347	346	349	348	346	342	343	346	354	350	350	344	6
7	344	346	346	350	345	345	348	346	345	340	340	343	353	350	351	344	7
8	347	348	348	356	353	354	352	350	349	343	342	346	357	352	350	347	8
9	351	350	353	354	358	363	353	353	349	344	343	350	360	352	351	350	9
10	353	351	357	354	360	363	353	355	346	345	344	353	357	350	353	350	10
11	347	349	360	347	352	358	347	350	340	344	343	352	352	347	350	344	11
Noon	338	342	350	336	342	349	330	340	324	334	339	348	340	339	340	326	Noon
13h	330	340	344	328	331	341	341	323	312	317	330	340	330	334	333	310	13h
14	327	333	330	324	324	337	316	312	308	306	322	342	322	328	328	309	14
15	326	328	326	323	324	333	317	310	311	302	321	340	322	330	326	310	15
16	330	327	324	326	330	335	323	318	314	310	325	340	327	337	330	320	16
17	335	333	331	331	338	339	334	326	320	320	330	344	334	345	336	327	17
18	341	340	342	340	343	344	342	334	330	330	337	353	341	351	340	336	18
19	343	344	348	343	345	346	346	339	337	337	340	354	343	355	341	338	19
20	345	350	350	347	347	348	349	341	340	339	342	357	344	350	342	341	20
21	347	350	352	349	350	350	350	346	343	341	347	358	346	350	346	342	21
22	350	351	354	350	350	350	351	347	342	342	350	360	348	350	348	343	22
23	350	356	351	350	350	350	352	348	344	343	350	360	349	351	347	343	23

SEPTEMBER 1949—*continued*

+ ·30000 (C.G.S. UNIT).

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	345	345	342	340	340	341	346	345	348	355	351	343	350	350	—	348	Midnight
1h	346	344	342	340	340	341	345	344	348	356	351	333	350	350	—	348	1h
2	346	344	342	340	340	341	344	343	346	354	351	327	350	350	—	347	2
3	345	345	342	340	340	342	344	343	345	353	350	320	350	350	—	346	3
4	345	346	342	340	340	341	344	343	344	352	350	324	350	350	—	346	4
5	345	346	343	341	341	342	345	343	348	352	350	338	350	350	—	347	5
6	345	346	343	342	343	343	345	343	347	352	350	350	350	350	—	347	6
7	346	350	345	340	347	347	349	345	350	353	351	350	350	350	—	347	7
8	350	351	350	352	350	350	352	350	351	358	353	351	355	358	—	351	8
9	350	351	351	353	349	349	356	349	351	357	350	351	357	362	—	352	9
10	350	347	351	352	342	344	351	350	352	358	347	353	359	366	—	352	10
11	348	334	346	341	333	340	340	350	350	353	345	350	354	360	—	348	11
Noon	340	325	335	330	333	335	333	340	340	338	346	340	350	345	—	338	Noon
13h	334	320	323	318	321	327	323	328	327	322	347	330	344	333	—	329	13h
14	332	324	317	314	322	324	310	327	322	314	348	327	340	325	—	324	14
15	330	330	316	320	326	328	310	331	327	316	350	328	340	329	—	324	15
16	330	337	320	326	329	331	321	336	337	326	350	332	340	335	—	329	16
17	340	337	328	331	334	337	332	340	347	334	350	333	341	340	—	335	17
18	340	340	336	338	338	340	340	342	350	343	350	341	346	346	—	341	18
19	341	340	338	339	338	342	341	343	352	348	350	342	345	347	—	344	19
20	342	340	340	340	340	347	343	344	358	347	349	343	346	349	—	345	20
21	342	342	340	340	341	349	345	346	360	350	344	347	348	351	—	347	21
22	343	342	340	340	340	348	346	346	360	350	343	348	347	352	—	348	22
23	343	342	340	340	340	348	346	347	358	351	343	350	348	354	—	348	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of September, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind: Direction	Wind: Velocity	Amount of Cloud (Scale 0—8)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
JULY	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	973·4	19·1	2·2	15·4	80	17·5	100	8·1	7	16·2	18·7	19·2	16.7	20·6	16·0	4·6	1·7	15	9·4	81
2	973·1	18·1	2·2	14·4	79	16·4	105	5·8	7	16·0	17.6	20·3	17·0	21·0	15·9	5·1	3·0	20	9·4	81
3	963·7	20·2	4·7	11·8	58	13·8	90	8·9	1	16·8	19·6	20·2	16.5	21·0	16·5	4·5	0·0	0	10·3	89
4	972·8	19·9	3·9	13·1	65	15·1	90	6·3	4	15·3	19·3	20·0	16·6	20·8	14·7	6·1	0·0	0	4·8	41
5	975·3	19·4	3·7	12·9	67	14·9	100	6·3	6	15·9	19·0	20·2	16·8	21·0	15·3	5·7	0·0	0	9·5	82
6	975.8	19·4	4·3	11·7	61	13·7	110	5·4	6	16·2	19·0	20·3	16·6	21·6	16·0	5·6	2·0	15	8·4	72
7	975·2	20·5	4·1	13·4	64	15·4	100	4·9	4	15·8	20·0	20·2	16·4	21·3	15·2	6·1	1·6	25	7·5	64
8	973·3	17·5	1·0	15·8	90	17·9	110	2·7	6	15·4	16·9	20·1	16·3	20·6	14·5	6·1	0·4	5	5·2	45
9	970·0	19·7	3·4	13·8	69	15·8	85	2·2	7	16·0	19·4	21·9	15·8	22·5	15·2	7·3	0·4	5	3·4	29
10	969·9	21·0	4·5	13·2	61	15·2	110	2.2	3	15·0	20·6	21·6	15·9	22·5	15·0	7·5	0·0	0	9·7	83
11	972·5	19·9	4·9	11·0	57	13·1	100	5·4	4	15·5	19·2	20·6	16·3	21·6	15·3	6·3	0·0	0	10·2	86
12	973·5	20·4	4·5	12·5	61	14·5	90	7·2	3	16·0	20·0	20·4	17·1	21·8	15·8	6·0	0·0	0	10·6	89
13	973·1	21·5	6·3	10·0	48	12·3	90	6·3	0	16·0	21·2	21·3	17·0	22·6	15·5	7·1	0·0	0	10·9	92
14	973·2	19·4	2·3	15·5	79	17·6	90	3·1	7	15·1	19·0	20·1	15·6	21·6	1·50	6·6	0·0	0	7·2	61
15	971·6	19·5	0·9	18·1	92	20·8	70	2·2	7	15·4	18·7	19·4	16·8	21·6	15·3	6·3	0·4	5	4·0	34
16	969·7	20.4	2·8	15·7	74	17·8	45	1·3	6	16.2	19·7	20·4	16·3	21·8	16·0	5·8	0·9	10	1·0	9
17	970·4	20·6	4·2	13·3	64	15·3	160	3·6	3	15·5	20.1	21·4	16·2	22·2	14·8	7·4	5·8	75	7·4	62
18	972·3	18·9	3·0	13·7	72	15·7	Calm	Calm	7	14·2	18·3	21·6	15·7	22·7	14·2	8·5	0·0	0	6·8	57
19	971·4	21·7	5·6	11·8	54	13·8	Calm	Calm	5	13·0	21·1	21·1	16·3	22·6	12·3	10·3	0·0	0	5·1	43
20	971·9	20·3	4·0	13·4	65	15·4	95	1·3	5	15·0	19·7	21·8	15·0	24·0	14·8	9·2	1·2	15	6·7	56
21	973·4	20·9	4·3	13·5	63	15·5	105	3·6	7	14·1	20·4	21·7	17·0	22·5	13·9	8·6	0·0	0	10·3	86
22	974·2	21·9	5·0	13·3	59	15·3	100	5·8	0	16·4	21·2	22·1	16.3	22·6	16·1	6·5	0·0	0	10·8	90
23	973·4	20·9	4·0	14·1	65	16·1	90	3·6	7	15.6	20·2	22·8	16·2	23·5	15·0	8·5	0·0	0	10·1	84
24	972·7	21·9	4·8	13·7	60	15·7	Calm	Calm	6	14·5	21·4	22·9	16·6	24·0	14·0	10·0	5·7	110	10·4	87
25	973·4	19·1	4·2	11·5	62	13·6	160	6·7	1	15·7	18·5	19·4	16·4	20·1	15·0	5·1	4·3	75	9·0	75
26	973·6	19·4	4·2	11·9	62	13·9	95	6·7	7	15·2	19·0	19·6	15·8	20·5	15·0	5·5	0·0	0	9·2	77
27	972·6	17·9	2·1	14·4	80	16·4	90	3·1	7	14·8	17·7	19·9	15·6	21·9	14·2	7·7	0·3	5	5·5	45
28	970·4	21·9	4·4	14·5	63	16·5	100	3·1	5	15·0	21·4	21·1	17·2	23·3	15·0	8·3	0·5	5	7·9	65
29	969·9	21·9	3·7	15·8	68	17·9	80	3·6	7	16·5	21·2	20·7	17·0	23·0	16·5	6·5	0·0	0	5·5	45
30	970·1	19·6	1·0	18·0	90	20·6	95	1·8	8	16·6	19·1	19·9	17·4	22·1	16·3	5·8	4·8	60	3·1	26
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	972·2	20·1	3·7	13·7	67·7	15·8	—	4·0	5·0	15·5	19·6	20·7	16·4	22·0	15·1	6·9	33·0	440	7·64	64·5
Average	972·0	19·8	2·6	15·6	76·4	17·7	—	5·0	6·6	—	—	—	—	21·9	15·3	6·6	95·0	1963	7·14	60·0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	42·3 mbs	Amount of rain	—	17·0 mms
Temperature of the Air	+	3·7°C	Duration of Bright Sunshine	+	16·6 hrs.
Vapour Pressure	+	0·2 mbs	Mean of Maximum temperatures	+	3·7°C
Relative Humidity	—	13·5 %	,, Minimum temperature	+	2·6°C
Velocity of Wind	—	1·3 mps.	Absolute Maximum temperature	+	3·0°C
			Minimum temperature	+	2·0°C

Table VII.—Daily Results of Meteorological Observations made during the month of September, 1949

Month and Day 1949	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above Average	Temperature of the Air: Daily Maximum	Temperature of the Air: Daily Minimum	Temperature of the Air: Daily Range	Temperature of the Air: Mean	Temperature of the Air: Excess above Average	Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point: Mean	Temperature of the Dew Point: Excess above Average	Relative Humidity (Saturation=100): Mean	Relative Humidity (Saturation=100): Excess above Average	Vapour Pressure	Minimum on the Grass
SEPT.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1013·9	− 0·5	25·2	18·1	7·1	20·9	+ 0·6	3·2	15·6	0·0	72	− 3	17·7	16·3
2	1014·2	− 0·1	25·5	18·5	7·0	21·2	+ 0·9	3·8	14·8	− 0·8	67	− 8	16·8	16·0
3	1014·5	+ 0·2	25·3	18·8	6·5	21·4	+ 1·1	4·6	13·5	− 2·1	61	− 14	15·5	16·4
4	1015·8	+ 1·6	24·3	17·6	6·7	21·0	+ 0·6	4·5	13·2	− 2·5	61	− 14	15·2	16·0
5	1017·0	+ 2·8	25·3	17·8	7·5	21·0	+ 0·6	4·4	13·4	− 2·3	62	− 12	15·4	16·3
6	1017·6	+ 3·5	25·2	19·5	5·7	21·2	+ 0·8	4·4	13·6	− 2·1	62	− 12	15·6	17·0
7	1017·2	+ 3·1	25·4	17·2	8·2	21·3	+ 0·8	4·3	14·0	− 1·7	63	− 11	16·0	15·4
8	1014·0	0·0	25·1	18·0	7·1	20·8	+ 0·3	3·6	14·7	− 1·0	68	− 6	16·7	16·0
9	1011·0	− 3·0	26·2	17·8	8·4	20·8	+ 0·3	3·7	14·6	− 1·1	67	− 7	16·6	15·4
10	1011·4	− 2·5	25·6	16·7	8·9	20·5	0·0	3·9	13·8	− 1·9	66	− 8	15·8	14·0
11	1013·9	+ 0·1	25·2	16·0	9·2	20·8	+ 0·2	4·1	13·8	− 2·0	64	− 10	15·8	14·0
12	1014·9	+ 1·2	25·7	18·7	7·0	21·5	+ 0·9	4·5	13·8	− 2·0	62	− 12	15·8	16·0
13	1014·1	+ 0·4	25·8	17·8	8·0	21·6	+ 1·0	4·5	13·9	− 1·9	62	− 12	15·9	16·0
14	1013·6	− 0·1	25·5	18·0	7·5	21·2	+ 0·5	4·3	13·8	− 2·1	63	− 11	15·8	16·3
15	1011·5	− 2·1	25·1	17·8	7·3	21·1	+ 0·4	2·6	16·8	+ 0·9	76	+ 3	19·1	16·0
16	1009·8	− 3·8	25·0	18·0	7·0	21·8	+ 1·0	4·2	14·8	− 1·2	64	− 9	16·8	16·3
17	1011·3	− 2·2	26·8	18·6	8·2	21·9	+ 1·1	4·2	14·9	− 1·1	64	− 9	16·9	16·9
18	1012·4	− 1·1	26·8	15·4	11·4	20·1	− 0·7	3·8	13·5	− 2·3	66	− 7	15·5	13·5
19	1011·9	− 1·6	25·3	14·3	11·0	19·5	− 1·4	3·2	14·0	− 1·9	71	− 2	16·0	12·1
20	1012·7	− 0·7	26·3	16·0	10·3	20·4	− 0·5	3·9	13·7	− 2·2	65	− 8	15·7	14·3
21	1014·8	+ 1·4	26·6	16·0	10·6	21·2	+ 0·2	4·3	13·8	− 2·2	63	− 10	15·8	14·3
22	1015·3	+ 1·9	26·2	18·1	8·1	21·9	+ 0·9	4·8	13·7	+ 2·3	60	− 13	15·7	15·4
23	1013·9	+ 0·5	26·1	18·0	8·1	21·9	+ 0·9	4·6	14·1	− 1·9	61	− 12	16·1	15·3
24	1013·7	+ 0·4	27·0	15·9	11·1	21·7	+ 0·6	3·4	16·1	+ 0·1	70	− 3	18·3	14·3
25	1014·0	+ 0·8	25·9	19·0	6·9	21·3	+ 0·2	4·3	14·0	− 2·0	63	− 10	16·0	16·4
26	1014·6	+ 1·4	24·6	19·2	5·4	21·5	+ 0·3	5·4	11·9	4·2	54	− 19	13·9	16·6
27	1013·3	+ 0·2	25·5	17·8	7·7	20·8	− 0·4	4·1	13·8	− 2·3	64	− 9	15·8	16·0
28	1010·9	− 2·1	25·4	17·1	8·3	21·5	+ 0·2	3·2	16·2	0·0	72	− 1	18·4	15·2
29	1010·5	− 2·4	26·9	19·8	7·1	23·1	+ 1·8	4·3	16·0	− 0·2	64	− 9	18·2	16·6
30	1010·9	− 2·0	25·5	19·0	6·5	21·7	+ 0·3	2·7	17·3	+ 1·0	76	+ 3	19·8	16·0
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	1013·5	− 0·1	25·7	17·7	8.0	21·2	+ 0·4	4·0	14·4	− 1·5	65·1	− 8·5	16·4	15·5
Aver.	1013·6	—	25·1	17.0	8·1	20·8	—	3·0	15·9	—	73·6	—	18·1	13·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF SEPTEMBER, 1949

Pressure varied considerably, being well above well normal on the 6th–7th and well below on the 9th and 16th. The mean value was just below normal. Mean temperature was 0·4° C above normal and sunshine was slightly above. Rainfall was low, 16·0 mm. or 45% of the average. It was well distributed.

Table VII *contd.*—**Daily Results of Meteorological Observations made during the month of September, 1949**

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temparature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
SEPTEMBER	mms.	min.	mm.	hrs.	%	m.p.s.	m p.s.	°C.	°C.	°C.	°C.
1	0·5	50	3·7	9·3	80	4·9	+ 0·9	24·4	23·9	22·4	23·3
2	1·5	50	4·8	10·8	92	5·4	+ 1·4	24·4	23·8	22·5	23·4
3	0·0	—	6·1	10·7	92	5·8	+ 1·8	24·4	23·7	22·4	23·2
4	0·0	—	6·3	3·6	31	4·2	+ 0·2	24·4	23·5	22·4	23·2
5	0·0	—	5·4	9·9	85	4·6	+ 0·6	24·4	23·5	22·4	23·0
6	0·9	15	5·5	6·8	58	4·8	+ 0·8	24·4	23·5	22·4	22·9
7	0·0	—	5·6	8·4	71	4·1	+ 0·2	24·3	23·8	22·3	22·9
8	0·8	20	4·8	6·2	53	3·6	− 0·3	24·3	23·7	22·3	23·1
9	0·0	—	5·5	6·0	51	2·8	− 1·1	24·3	23·7	22·3	23·0
10	0·0	—	5·0	8·5	72	3·1	− 0·7	24·3	23·7	22·4	23·1
11	0·0	—	5·5	10·5	88	3·8	0·0	24·3	23·7	22·3	23·1
12	0·0	—	6·1	10·2	86	4·7	+ 0·9	24·3	23·6	22·4	22·9
13	0·0	—	7·2	11·2	94	4·4	+ 0·6	24·3	23·5	22·4	22·9
14	0·0	—	5·6	5·4	45	3·5	− 0·2	24·2	23·3	22·4	23·3
15	2·0	80	3·7	4·0	34	3·2	− 0·5	24·2	23·2	22·5	23·4
16	0·0	—	5·2	1·9	16	2·1	− 1·6	24·2	23·1	22·5	23·4
17	1·0	50	5·2	10·3	86	3·8	+ 0·1	24·2	23·1	22·5	23·4
18	0·1	10	0·1	7·1	59	2·5	− 1·2	24·2	23·3	22·6	24·1
19	0·0	—	0.6	4·8	40	2·4	− 1·3	24·2	23·6	22·6	23·8
20	0·1	5	5·9	8·9	74	2·7	− 1·0	24·2	23·5	22·8	23·8
21	0·0	—	8·0	11·2	93	3·5	− 0·2	24·2	23·4	22·8	23·9
22	0·0	—	7·5	11·3	94	4·3	+ 0·6	24·2	23·3	22·8	24·1
23	0·0	—	7·6	10·8	89	3·1	− 0·6	24·2	23·2	22·8	24·2
24	0·0	—	6·1	8·6	71	2·7	− 0·9	24·2	23·1	22·9	24·4
25	0·3	15	6·5	10·8	89	5·5	+ 1·9	24·2	23·3	23·0	24·4
26	0·0	—	8·6	7·4	61	5·1	+ 1·5	24·2	23·4	23·1	24·5
27	0·8	30	8·3	6·4	52	3·6	0·0	24·1	23·3	23·1	24·5
28	6·6	105	6·2	10·5	86	3·0	− 0.6	24·1	23·2	23·2	24·6
29	0·0	—	7·5	8·8	72	3·1	− 0·5	24·1	23·3	23·2	24·6
30	1·4	25	6·6	5·6	46	3·7	+ 0·1	24·1	23·4	23·0	24.8
—	—	—	—	—	—	—	—	—	—	—	—
Mean	Sum 16·0	Sum 455	6·1	8·20	68·7	3·80	+ 0·03	24·25	23·45	22·62	23·64
Average	35·3	808	4·9	7·98	66·9	3·77	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF SEPTEMBER, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1019·3mbs	at	10·00 hrs.	on 6th	1008·2 mbs	at	19·00 hrs.	on 16th
Temperature of the Air	27·0°C	,,	13 00 hrs.	,, 24th	14·3°C	,,	06·00 hrs.	,, 19th
Daily range of temperature of the Air	11·4°C	,,	—	,, 18th	5·4°C	,,	—	,, 26th
Temperature of the Dew Point ...	—	,,	—	,, —	—	,,	—	,, —
Daily range of temperature of the Dew Point	—	,,	—	,, —	—	,,	—	,, —
Minimum on Grass	—	,,	—	,, —	12·1°C	,,	—	,, 19th
Relative Humidity	—	,,	—	,, —	—	,,	—	,, —
Vapour Pressure	—	,,	—	,, —	—	,,	—	,, —
Evaporation in 24 hours	8·6mms	,,	—	,, 26th	3·7mms.	,,	—	,, 1st
Wind Velocity	8·7mps	,,	10·00 hrs.	,, 1st	—	,,	—	,, —
Rainfall in 24 hours	7·4mms ending 06 00 hrs.			,, 28th	—	,,	—	,, —
Duration of Sunshine	11·3hrs.		—	,, 22nd	1·9 hrs.	,,	—	,, 16th

Mean Day Temperature of Air 23·23°C. Average 22·91°C. Mean Night Temperature of Air 19·20°C. Average 18·63°C

NUMBER OF DAYS OF

Rainfall: mms. 0.1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 & over	Lightning	Thunderstorm
7	4	1	—	—	—	—	—	—

Table VIII.—Barogram

SEPTEMBER 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	142	151	145	155	167	181	185	165	125	122	141	158	155	144	132	106	Midnight
1h	140	148	143	150	164	175	183	164	123	121	139	154	147	143	127	103	1
2	135	144	142	150	164	173	179	162	118	116	135	148	144	142	124	101	2
3	133	143	141	147	163	168	171	153	108	107	129	144	143	136	122	094	3
4	132	137	140	149	163	166	168	147	105	105	125	143	142	136	118	092	4
5	135	138	142	154	163	167	169	146	106	105	125	145	144	137	122	095	5
6	140	143	145	163	165	173	174	149	109	108	128	150	145	141	124	098	6
7	141	146	149	165	170	182	180	152	114	114	136	155	147	144	125	102	7
8	142	149	153	166	177	185	183	156	118	119	142	162	150	145	129	104	8
9	147	150	154	169	183	192	183	156	123	117	144	163	148	149	134	109	9
10	148	150	154	168	185	193	183	151	121	116	143	163	145	148	127	106	10
11	144	145	149	167	183	185	179	147	116	112	143	154	142	143	125	104	11
Noon	140	142	143	163	176	179	171	144	107	105	136	145	132	132	117	097	Noon
13h	135	135	138	151	167	172	165	135	104	103	135	144	125	124	105	086	13h
14	125	125	132	144	164	164	162	124	099	101	129	135	125	123	102	084	14
15	124	124	128	144	163	163	158	123	094	095	129	128	124	121	096	083	15
16	124	125	132	144	161	163	161	122	093	098	130	132	125	121	099	082	16
17	129	128	136	146	161	164	162	123	094	103	135	137	126	123	100	084	17
18	134	135	139	154	163	167	164	123	098	106	142	142	134	124	103	089	18
19	141	143	143	158	164	176	166	124	103	114	145	144	141	127	105	102	19
20	144	146	149	163	169	183	170	125	106	123	154	151	145	138	109	105	20
21	150	151	161	167	176	184	174	128	118	132	157	155	149	142	115	108	21
22	153	155	160	171	183	187	175	130	122	140	159	159	152	142	114	109	22
23	152	148	158	167	183	185	169	128	122	142	159	157	147	136	110	113	23

SEPTEMBER 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	109	135	123	125	144	163	156	144	142	149	150	135	107	115	—	1014.2	Midnight
1h	105	132	121	125	144	162	149	143	142	153	144	127	104	105	—	1013·9	1
2	103	131	115	122	142	157	144	142	136	149	142	123	103	103	—	1013·6	2
3	103	124	113	115	138	153	143	137	134	144	136	118	100	101	—	1013·2	3
4	103	123	113	115	136	151	142	137	133	143	135	116	098	102	—	1013·1	4
5	103	125	114	122	141	152	142	139	138	144	133	113	100	104	—	1013·2	5
6	107	135	123	124	143	156	143	143	143	147	142	114	103	105	—	1013·6	6
7	113	141	135	129	148	162	145	147	145	156	144	121	105	108	—	1014·0	7
8	118	144	128	136	155	164	147	152	161	163	145	124	111	112	—	1014·5	8
9	122	144	132	137	158	165	151	153	162	164	145	122	115	119	—	1014·7	9
10	133	135	126	137	160	164	147	149	151	161	143	115	114	111	—	1014·5	10
11	118	126	124	132	155	163	144	144	144	152	138	110	110	105	—	1014·0	11
Noon	108	122	121	124	149	151	138	139	140	145	129	103	103	104	—	1013·4	Noon
13	104	111	113	119	144	143	129	125	130	143	124	096	096	101	—	1012·7	13h
14	101	105	106	113	142	140	124	123	124	133	122	088	088	094	—	1012·1	14
15	097	105	105	110	135	134	122	115	123	128	115	085	085	095	—	1011·8	15
16	103	106	105	111	136	133	122	116	124	126	112	084	086	095	—	1011·9	16
17	104	110	105	115	140	137	123	122	124	128	116	088	094	101	—	1012·2	17
18	112	118	110	123	143	143	125	124	130	137	123	095	103	104	—	1012·7	18
19	121	123	119	128	149	145	130	127	137	143	125	103	107	114	—	1013·2	19
20	124	124	123	138	158	150	138	134	143	145	133	105	116	133	—	1013·8	20
21	130	128	128	144	163	159	144	142	147	152	138	114	121	126	—	1014·3	21
22	130	125	132	145	165	163	146	143	151	155	138	113	121	126	—	1014·6	22
23	130	123	127	145	164	162	145	143	150	152	135	113	120	125	—	1014·4	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Recorder

SEPTEMBER 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
		m.	m.	m.	m.	m.	m.	m.		m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	0	0	0	0	0	0	15	0	0	15	30	20	20	30	0	0	25	0	5	0	10	30	5	30	0	0	0	0	20	30	—	4·7
8	60	35	60	20	45	5	50	30	10	60	60	60	60	60	0	0	60	60	25	30	55	60	50	60	0	0	25	50	60	45	—	19·9
9	60	45	60	5	50	60	15	20	0	60	60	60	60	50	25	0	60	30	60	55	60	60	50	60	30	55	15	60	40	30	—	21·6
10	60	40	60	10	45	55	30	15	0	60	60	60	60	20	35	20	60	0	60	60	60	60	50	60	55	60	15	60	50	5	—	21·4
11	60	60	60	5	60	60	55	45	0	55	60	60	60	35	35	35	60	20	50	40	45	60	60	60	60	60	10	60	55	30	—	23·6
Noon	60	60	60	10	60	60	30	40	60	60	60	60	60	50	25	5	60	55	45	40	60	60	60	55	60	60	40	60	0	20	—	23·9
13	60	60	60	35	60	60	20	15	60	55	60	60	60	55	25	0	60	55	0	60	60	60	60	55	60	60	20	60	30	25	—	23·5
14	60	60	60	60	60	60	45	60	15	35	60	60	60	30	45	0	30	60	15	35	60	60	60	60	60	60	35	60	55	0	—	23·7
15	50	60	60	40	60	60	50	45	60	60	60	60	60	25	20	0	20	15	25	30	60	60	60	60	60	60	50	20	5	0	—	21.6
16	50	60	60	60	55	50	60	20	0	60	40	60	60	0	30	0	10	45	10	30	60	60	60	60	60	60	50	25	15	0	—	20·2
17	45	60	60	30	60	25	60	20	0	55	35	50	60	50	0	0	0	40	0	20	60	60	60	55	60	55	55	20	0	0	—	18·3
18	0	25	20	10	15	10	20	0	0	5	25	25	35	30	0	0	0	30	10	0	30	15	30	10	35	20	15	0	0	0	—	6·9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0

The Total Amount of Registered Sunshine was 229·3 hrs. and the total possible Sunshine was 358·2 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

SEPTEMBER 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	0	30	25	0	4	0	22	0	0	40	40	35	30	0	0	22	40	2	0	0	30	37	8	36	21	0	0	15	10	23	—	7·8
8	60	60	60	5	60	4	29	23	14	45	60	40	60	50	15	10	60	17	32	0	60	60	55	60	45	4	4	60	35	60	—	19·1
9	60	60	60	3	55	2	49	53	10	60	40	60	60	60	55	0	60	58	60	43	60	60	60	60	60	32	30	45	39	27	—	23·0
10	60	60	60	3	55	30	60	60	44	50	60	58	60	35	44	42	60	29	55	55	60	60	60	31	60	44	44	60	60	60	—	25·3
11	58	60	60	3	60	41	40	18	60	45	60	54	60	9	20	17	60	49	60	50	60	60	60	35	60	20	18	54	60	60	—	22·9
Noon	20	60	60	17	60	60	37	24	39	22	57	60	60	60	25	4	60	54	5	50	60	60	60	37	60	44	36	60	60	53	—	22·7
13h	60	60	60	16	60	60	58	54	60	50	60	60	60	34	15	2	60	60	4	60	60	60	60	27	60	53	15	60	60	10	—	23·6
14	60	60	60	20	60	60	28	60	60	16	60	60	60	6	43	0	60	60	29	60	60	60	60	54	60	60	60	60	60	1	—	23·4
15	60	60	60	29	60	60	52	40	50	25	42	60	60	4	3	1	60	55	25	60	60	60	60	57	60	60	60	60	60	2	—	22·1
16	60	60	60	53	60	43	53	8	19	60	45	56	60	3	20	6	45	10	20	60	60	60	60	57	60	60	42	60	60	4	—	21·2
17	47	60	50	49	45	40	60	32	0	60	60	50	60	30	0	9	54	11	0	60	60	58	60	39	60	53	55	60	20	29	—	10·5
18	12	22	25	16	16	8	16	0	5	35	45	20	40	37	0	0	0	20	0	35	45	42	42	25	39	16	20	39	1	6	—	0·0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—

The Total Amount of Registered Sunshine was 245·9 hrs. and the total possible sunshine was 358·0 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

SEPTEMBER 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·3	1·8	19·5	2·2	19·0	2·9	19·5	3·4	19·9	3·8	20·3	4·3	20·2	2·7	19·0	2·4	Midnight
1h	19·1	1·6	18·7	1·9	19·0	3·3	19·8	3·4	19·5	3·6	20·3	4·2	20·0	2·8	18·8	1·8	1h
2	18·9	1·6	18·9	1·9	19·0	3·3	18·8	2·7	19·5	3·6	20·4	4·2	20·0	2·9	18·1	2·0	2
3	18·9	1·0	19·1	2·1	19·0	3·0	18·2	2·5	18·5	2·9	20·2	3·8	19·8	2·8	18·5	2·2	3
4	18·4	1·0	18·9	1·9	19·9	2·9	17·8	2·6	18·5	3·0	20·0	4·0	19·8	2·8	18·8	2·5	4
5	18·6	1·1	18·9	2·3	19·6	3·4	18·5	3·2	18·1	2·5	19·9	4·0	18·7	2·9	18·4	3·0	5
6	18·4	1·4	18·9	2·4	19·0	3·5	19·7	4·3	18·0	2·9	19·7	3·8	17·2	2·4	18·5	3·1	6
7	19·0	1·6	20·1	2·8	20·4	4·0	20·4	4·3	19·0	3·3	20·1	3·6	20·6	3·5	18·6	1·7	7
8	21·0	2·8	21·6	3·9	22·0	5·3	21·5	4·8	22·1	5·2	21·7	4·4	22·4	4·8	20·4	2·7	8
9	23·1	4·5	22·4	4·8	23·0	6·0	22·4	5·0	22·2	5·1	20·7	2·3	23·9	6·4	22·5	4·9	9
10	23·9	5·3	23·0	5·3	23·6	6·2	22·8	5·8	22·9	5·3	21·3	2·9	24·2	6·9	22·7	5·3	10
11	24·0	5·7	24·1	5·8	24·0	6·5	22·9	5·3	23·9	6·7	22·5	4·5	24·7	7·0	21·8	3·6	11
Noon	22·7	4·1	25·5	7·3	24·6	7·1	23·6	5·9	24·2	6·7	23·7	6·3	24·3	6·0	21·1	2·8	Noon
13	24·4	6·4	24·0	5·7	24·3	7·0	23·7	6·3	24·0	6·3	24·1	7·6	24·4	7·3	23·7	5·7	13h
14	24·2	5·9	24·5	6·2	24·1	6·7	23·7	6·3	23·9	6·6	24·6	7·6	24·0	6·0	23·7	5·3	14
15	23·6	5·5	24·1	6·3	23·9	6·3	23·3	6·0	23·8	6·1	24·1	6·7	23.8	6·1	23·7	5·9	15
16	23·2	5·2	23·9	6·0	23·2	5·5	23·5	6·4	23·4	5·5	23·3	5·4	22·6	4·7	22·8	4·8	16
17	21.6	3·8	22·7	4·7	22·2	4·7	22·3	5·3	22·0	4·3	22·0	5·0	22·1	4·8	22·8	5·2	17
18	21·0	3·6	21·4	3·7	21·2	4·2	22·1	5·5	20·9	4·2	21·2	4·8	21·1	3·8	22·7	5·4	18
19	20·4	3·0	20·8	3·2	20·7	4·1	20·1	4·1	20·4	3·8	20·0	3·6	19·9	3·3	22·0	4·9	19
20	20·0	2·4	20·2	3·2	20·6	3·5	19·8	3·5	20·0	4·0	19·4	3·1	19·9	3·2	21·9	4·3	20
21	19·9	2·6	19·8	2·7	20·7	4·0	20·3	4·1	20·0	3·9	19·7	3·3	19·7	3·1	19·2	2·1	21
22	19·4	2·5	19·4	2·9	20·5	3·9	20·1	4·0	20·2	4·1	20·0	3·4	20·2	3·5	19·4	2·1	22
23	19·4	1·9	19·4	3·3	20·0	3·6	19·9	3·9	20·1	4·0	20·0	2·9	19·4	3·6	19·1	2·1	23

SEPTEMBER 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·2	2·0	18·1	2·2	18·4	2·2	20·7	3·8	19·7	3·3	20·1	3·2	17·8	2·4	20·4	2·8	Midnight
1h	18·7	1·9	17·0	1·6	18·3	2·0	20·5	3·8	19·0	2·6	19·8	2·7	18·8	2·2	20·0	2·6	1h
2	18·8	1·5	16·7	1·6	17·6	1·7	20·0	3·3	18·7	2·5	19·6	2·7	18·1	1·7	19·8	2·4	2
3	18·5	1·7	17·6	1·8	17·5	1·7	19·2	2·9	19·1	2·6	19·1	2·4	18·4	1·9	19·7	2·2	3
4	18·5	1·7	16·8	1·4	16·6	1·6	18·9	2·5	19·4	2·9	18·8	2·4	18·3	1·7	19·5	2·1	4
5	18·3	1·6	16·8	1·4	16·0	1·3	19·1	2·7	18·3	2·3	18·4	2·7	19·5	1·3	19·0	1·8	5
6	18·2	1·4	16·3	0·4	17·3	1·9	18·7	3·0	17·9	2·3	18.5	2·6	19·5	1·3	18·3	1·5	6
7	19·1	2·0	20·3	2·7	19·8	3·6	20·4	3·8	20·8	3·8	19·1	2·6	20·1	1·2	20·0	1·8	7
8	20·5	3·2	21·6	4·2	22·0	5·2	21·8	4·5	22·8	4·7	22·5	4·5	21·8	1·8	22·6	4·1	8
9	21·8	4·4	23·5	5·5	22·1	4·9	23·8	6·8	24·1	6·3	23·8	5·8	21·8	1·9	22·6	4·0	9
10	23·9	5·7	23·4	5·7	24·0	7·2	23·8	6·2	24·4	6·5	23·1	5·1	23·0	3·0	24·0	5·5	10
11	24·4	7·1	25·1	7·7	24·2	6·8	24·4	7·1	25·3	7·2	25·5	7·1	23·5	2·5	24·7	6·8	11
Noon	24·9	7·6	24·5	7·1	24·4	6·7	24·5	6·8	25·5	7·5	24·1	6·1	23·1	3·3	24·6	6·2	Noon
13h	25·4	8·1	24·3	6·9	24·2	6·6	24·2	6·4	25·4	7·0	23·8	6·0	24·5	4·6	24·7	7·3	13
14	25·7	7·7	23·8	6·5	24·4	6·6	24·3	6·5	25·2	7·0	23·6	5·8	23·0	3·0	25·0	7·6	14
15	23·8	6·2	24·4	6·9	22·8	5·0	23·8	5·7	24·4	6·7	22·7	5·5	23·8	4·1	23·9	6·6	15
16	23·0	5·4	24·0	6·1	23·7	6·1	23·1	5·3	23·8	6·4	23·0	6·2	21·8	2·3	2·43	6·4	16
17	21·9	4·4	22·3	4·9	22.3	5·5	22·2	5·0	22·8	6·1	22·5	5·9	22·3	3·7	23·1	6·0	17
18	21·2	3·7	21·1	4·2	21·2	4·3	21·3	4·7	21·5	4·8	21·0	4·7	21.8	3·1	22·3	5·0	18
19	19·8	2·7	19·2	3·1	20·1	3·7	20·8	4·1	20·4	3·8	19·2	3·6	21·1	3·1	21·8	4·1	19
20	19·5	2·7	18·8	2·8	19·6	3·4	20·7	3·8	20·1	3·4	19·9	3·6	21·1	2·8	21·7	3·8	20
21	18·6	2·4	18·5	2·6	20·5	4.6	20·1	3·6	20·0	3·1	20·0	3·5	21·1	2·9	20·9	3·3	21
22	18·7	2·3	18·2	2·3	20·8	3·7	20·0	3·4	20·0	2·8	20·3	3·3	20·8	2·9	20·6	3·0	22
23	18·5	2·7	18·3	2·3	20·8	3·6	19·8	3·1	19·9	2·4	21·7	5·7	20·4	2·7	20·4	3·1	23

Table XI *contd.*—**Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records**

(*To obtain temperatures on the Absolute Scale add 273.*)

SEPTEMBER 1949

Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	19·9	2·7	18·9	2·2	15·1	1·2	16·2	0·7	17·0	2·0	19·6	2·9	20·9	4·2	17·9	2·4	Midnight
1h	19·7	2·5	18·8	2·0	14·8	1·0	16·4	0·7	16·4	1·8	20·0	2·7	20·3	3·5	16·8	1·5	1h
2	19·1	2·3	18·6	1·7	14·7	0·9	16·3	0·6	16·8	1·8	18·9	2·4	20·1	3·1	16·3	1·1	2
3	18·6	2·1	18·3	1·8	14·5	0·8	16·1	0·6	17·1	1·6	19·2	2·1	19·8	2·8	16·2	1·1	3
4	19·3	2·2	17·6	1·6	14·4	0·7	16·3	0·6	17·4	1·7	19·0	2·4	18·8	2·2	16·0	1·0	4
5	19·8	2·4	16·7	1·2	14·4	0·7	17·2	0·7	17·9	1·9	18·6	3·0	18·4	2·0	16·0	1·0	5
6	19·5	2·5	16·0	1·0	14·3	0·6	17·3	0·6	18·0	2·1	18·1	2·5	18·0	1·8	15·9	0·9	6
7	21·4	3·6	15·4	0·9	16·1	0·1	17·8	0·4	20·9	3·4	21·1	4·4	21·1	3·2	20·0	3·0	7
8	22·6	4·6	17·5	2·2	20·7	2·8	21·7	3·6	22·8	5·0	22·8	5·5	23·1	4·8	22·3	4·6	8
9	23·5	5·3	21·8	5·0	23·0	5·4	23·3	5·7	23·7	6·2	24·5	6·3	24·6	6·2	24·5	6·1	9
10	25·0	7·5	23·4	6·5	24·5	6·3	24·1	6·6	24·2	6·2	25·1	7·1	25·3	6·6	25·0	5·7	10
11	26·4	8·8	24·4	7·5	25·3	6·8	24·9	7·0	25·6	8·0	25·6	7·4	25·4	6·6	26·2	6·0	11
Noon	26·2	8·6	25·3	8·2	24·1	6·1	25·3	7·9	25·7	7·6	25·5	7·3	25·3	6·8	26·2	5·8	Noon
13h	26·5	8·2	25·9	8·3	24·3	6·4	25·8	8·2	25·6	7·6	26·2	8·1	26·1	7·6	27·0	6·4	13h
14	25·6	7·1	26·8	8·4	24·3	6·3	25·3	7·9	25·8	7·7	25·4	7·5	25·7	7·2	26·8	6·1	14
15	25·4	6·7	25·8	6·9	24·8	6·8	25·7	8·4	24·6	6·4	25·1	7·7	25·2	6·8	26·5	5·7	15
16	23·1	4·3	24·7	6·1	24·2	5·3	24·5	7·4	24·0	6·0	24·1	6·5	25·0	6·5	26·1	5·6	16
17	21·0	2·6	22·7	5·8	22·6	5·1	23·1	6·3	23·0	5·3	22·9	5·6	24·3	6·1	24·3	4·7	17
18	20·1	1·7	21·0	4·4	21·4	4·7	21·3	5·0	21·7	4·1	22·0	4·6	22·5	5·1	22·9	4·0	18
19	20·0	1·7	18·8	2·9	20·0	3·4	19·4	3·7	20·8	3·7	21·1	3·8	21·0	4·2	21·7	3·2	19
20	20·0	2·1	17·6	2·6	19·8	3·3	18·9	3·2	20·2	3·2	20·3	3·7	19·9	3·6	21·7	3·4	20
21	20·0	2·4	16·8	2·1	17·7	2·0	18·3	2·8	20·3	3·3	20·2	3·5	19·0	3·1	21·5	3·5	21
22	21·9	4·9	16·1	1·7	16·9	1·4	17·2	2·2	19·8	3·3	19·6	3·3	18·8	3·0	21·4	3·6	22
23	21·9	5·2	15·2	1·2	16·5	1·2	16·9	1·9	19·5	3·2	20·9	3·9	17·9	2·4	20·7	3·1	23

SEPTEMBER 1949—*continued*

Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	20·3	2·9	19·6	3·2	20·5	5·4	19·1	1·4	20·7	2·3	20·1	2·0	—	—	19·2	2·7	Midnight
1h	20·0	2·7	20·1	3·7	20·6	5·2	18·8	1·2	20·5	2·2	19·7	1·9	—	—	19·0	2·5	1h
2	19·9	2·7	19·8	3·5	19·9	4·0	18·5	1·1	20·9	2·4	19·4	1·8	—	—	18·7	2·3	2
3	19·2	2·1	20·0	3·7	19·3	3·9	18·5	1·1	19·8	1·9	19·0	1·5	—	—	18·6	2·2	3
4	19·2	2·2	20·0	3·9	19·0	3·0	18·4	1·3	20·2	2·2	19·3	1·6	—	—	18·5	2·2	4
5	19·3	2·3	19·9	3·9	19·5	4·4	17·6	1·2	20·9	2·4	19·2	1·6	—	—	18·4	2·2	5
6	19·0	2·0	20·0	4·0	18·4	2·3	18·7	1·3	21·0	2·5	19·1	1·5	—	—	18·2	2·1	6
7	20·3	3·2	20·5	4·5	18·0	2·0	20·0	2·0	21·8	2·7	21·4	2·4	—	—	19·8	2·8	7
8	21·0	3·5	21·1	5·1	19·3	2·5	21·3	2·3	23·2	4·0	23·2	3·5	—	—	21·7	4·0	8
9	22·3	4·7	22·8	6·7	21·7	3·3	22·6	3·9	24·2	4·6	22·0	2·1	—	—	22·9	5·0	9
10	23·8	6·3	23·0	6·6	22·5	5·0	23·8	4·8	25·2	5·9	24·0	3·8	—	—	23·8	5·8	10
11	24·7	7·3	23·8	6·9	23·3	5·8	24·2	4·7	26·0	6·4	24·6	4·2	—	—	24·5	6·4	11
Noon	24·7	7·5	23·8	7·3	23·0	5·4	24·7	5·3	26·3	6·6	24·7	4·5	—	—	24·5	6·4	Noon
13h	24·8	7·6	23·9	6·9	23·4	5·7	25·1	5·7	25·9	6·1	23·7	3·4	—	—	24·8	6·7	13h
14	24·7	7·6	24·0	7·4	24·3	6·7	25·1	5·7	25·9	6·0	24·5	4·4	—	—	24·7	6·5	14
15	23·8	6·8	23·4	6·8	24·2	6·5	24·7	5·6	25·6	6·8	23·9	3·7	—	—	24·3	6·2	15
16	23·0	6·2	22·9	6·3	23·4	5·7	24·8	5·4	25·0	6·3	23·8	4·0	—	—	23·7	5·6	16
17	21·9	5·3	22·0	6·4	22·3	5·3	23·6	4·6	24·0	5·4	23·1	3·7	—	—	22·6	5·1	17
18	20·7	4·2	21·1	5·8	21·0	4·5	22·1	3·3	23·0	4·1	22·1	2·7	—	—	21·5	4·2	18
19	20·2	3·7	21·1	5·7	19·7	3·7	21·5	2·9	22·2	3·4	21·6	2·4	—	—	20·5	3·5	19
20	20·0	3·5	21·0	5·5	19·5	2·9	20·8	2·6	21·0	3·2	21·0	2·2	—	—	20·2	3·3	20
21	19·8	3·3	21·0	5·5	19·0	2·6	20·3	2·3	21·1	2·7	20·7	2·0	—	—	19·8	3·0	21
22	19·4	3·0	20·8	5·6	19·6	2·5	19·8	2·2	20·7	2·3	20·6	1·8	—	—	19·7	3·0	22
23	19·4	3·0	20·3	4·2	19·2	1·9	20·0	2·2	20·6	2·2	20·8	1·8	—	—	19·6	3·0	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during September, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per Second, using the factor 2·2.

*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

SEPTEMBER 1949

Day	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir	Vel.
Midnight	10	2·5	10	5·2	09	4·7	11	4·4	08	4·2	10	5·3	11	3·0	12	2·4	11	1·1	12	2·1	13	2·3	11	3·7	10	2·5	10	3·7	10	2·1	07	2·7
1h	10	2·4	10	4·4	09	4·7	10	3·1	08	4·2	09	5·2	11	3·0	09	2·7	11	1·9	12	2·3	08	1·2	11	3·0	10	3·8	10	3·7	10	2·2	07	2·0
2	11	2·8	10	3·8	09	4·8	10	2·4	08	2·9	09	6·1	11	2·3	09	2·2	08	2·8	12	2·4	08	0·7	11	3·0	10	3·1	12	3·4	10	2·0	07	1·8
3	10	3·0	10	4·5	10	4·8	10	2·0	08	3·2	08	4·4	10	2·4	10	3·1	08	2·7	12	2·4	08	1·1	11	3·0	11	2·4	12	3·6	10	2·0	07	1·4
4	09	2·3	10	4·5	10	4·9	11	2·4	08	2·3	10	4·8	10	2·3	12	2·2	10	1·2	12	2·2	14	1·2	11	2·5	10	2·6	11	2·4	10	1·5	07	1·6
5	10	2·3	10	4·5	09	4·3	10	2·1	08	1·4	08	5·4	10	2·0	12	3·4	10	3·1	11	2·5	08	1·4	11	2·8	10	2·1	11	2·4	10	1·8	07	1·4
6	10	2·9	10	4·0	09	4·1	09	3·0	09	2·8	09	5·0	10	2·3	11	1·8	13	1·7	11	3·1	10	2·1	10	2·8	10	2·2	11	3·0	10	1·1	06	1·8
7	10	3·7	11	4·3	08	5·1	09	3·2	10	1·9	08	4·2	10	2·8	10	3·4	13	2·0	11	1·5	10	1·8	10	2·5	10	3·6	11	2·0	10	1·4	06	1·6
8	08	4·5	10	5·3	09	7·1	08	4·4	10	3·9	07	4·2	10	4·0	12	3·0	12	3·2	11	3·2	10	3·5	10	4·4	10	4·4	12	4·2	08	3·1	06	2·8
9	09	5·0	10	7·0	09	8·3	08	5·9	10	6·1	10	3·5	08	5·7	09	4·4	12	3·1	10	3·9	10	5·5	10	6·9	10	6·0	11	6·2	06	4·5	06	2·4
10	10	8·7	11	7·5	08	8·0	08	5·9	09	6·1	08	4·7	08	5·7	09	5·3	10	3·9	11	3·3	09	6·5	08	7·3	08	6·0	11	4·5	06	4·2	06	3·0
11	10	7·5	09	7·5	08	8·5	06	5·6	08	6·2	11	6·3	11	5·8	10	4·8	06	4·2	11	4·3	10	6·4	08	7·2	08	6·3	08	4·8	06	4·3	05	3·0
Noon	10	5·9	10	7·1	10	8·1	09	6·2	08	6·0	09	7·2	10	6·1	12	5·1	08	3·7	11	5·0	11	6·2	10	7·1	10	6·0	10	4·8	07	4·9	04	3·1
13h	11	6·9	12	7·8	10	7·4	08	5·8	08	5·9	11	6·8	09	5·8	12	5·3	10	3·9	10	4·4	12	6·3	09	7·2	10	6·2	08	4·9	06	5·1	08	3·5
14	10	7·8	10	7·3	10	7·8	10	6·3	11	6·6	08	6·6	10	6·1	10	5·8	08	3·3	10	4·7	10	6·2	09	7·2	08	6·9	10	5·6	06	5·0	06	3·2
15	11	7·7	11	7·3	10	7·3	08	6·1	10	6·5	11	6·1	10	6·7	09	6·1	11	3·8	11	4·1	10	5·7	10	6·5	09	6·3	11	4·3	05	4·9	06	2·9
16	10	7·7	12	7·1	09	7·2	10	5·9	08	6·8	08	5·8	10	6·3	10	4·9	10	3·8	09	4·6	10	7·1	10	6·6	09	6·9	09	4·6	05	3·7	06	2·2
17	11	6·5	11	6·9	11	6·1	08	5·4	09	6·0	10	5·1	08	5·8	10	4·7	11	3·2	11	4·9	09	4·4	09	6·4	10	5·8	10	4·4	06	4·0	07	1·4
18	10	4·4	11	4·4	09	5·3	09	4·4	11	4·9	10	3·8	10	4·4	10	4·1	12	3·2	12	3·3	11	4·5	10	5·5	10	5·0	10	2·5	07	3·2	07	2·7
19	10	4·7	11	4·4	10	4·9	09	3·9	09	4·4	12	2·8	09	3·3	10	2·5	11	2·6	12	2·0	10	2·6	10	4·4	10	3·0	10	1·7	08	3·5	07	1·1
20	10	4·9	11	4·8	10	6·6	09	3·0	05	4·3	12	3·0	09	2·5	11	2·7	11	2·1	12	1·6	10	3·5	10	4·0	10	2·9	11	1·7	06	3·0	07	1·1
21	10	4·0	11	4·0	10	4·1	09	4·4	10	4·4	12	3·2	09	3·6	11	1·9	11	2·1	12	2·2	11	3·1	11	3·5	10	3·1	10	2·0	06	2·5	07	1·1
22	10	3·7	10	3·3	11	3·8	09	3·3	11	4·5	11	2·9	10	3·3	11	1·7	11	2·3	12	1·8	11	3·7	11	3·5	10	3·4	10	2·7	07	3·1	10	1·9
23	10	4·1	10	4·0	11	3·1	08	2·0	09	5·0	11	2·8	09	2·4	11	1·3	11	2·3	13	2·0	11	3·5	10	2·4	11	3·8	10	1·8	07	2·3	11	0·9

SEPTEMBER 1949—*continued*

Day	17d.		18d. *		19d. *		20d.		21d.		22d.		23d.		24d. *		25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean
Hour	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	12	2·5	11	2·7	11	2·1	12	1·9	10	1·6	10	2·2	08	2·2	10	3·3	12	3·2	10	3·3	10	4·8	05	2·5	07	1·7	10	2·6	—	—	2·9
1h	13	1·2	11	2·9	11	2·1	12	1·8	10	1·3	10	2·2	08	2·3	10	2·2	12	3·3	09	3·3	09	4·1	04	1·4	07	2·3	10	2·1	—	—	2·7
2	12	1·6	11	2·1	11	2·1	12	1·7	10	1·6	10	3·0	08	2·2	10	2·3	11	3·6	07	3·5	09	4·5	13	1·5	08	1·8	11	1·5	—	—	2·7
3	12	1·7	10	3·8	11	2·4	12	1·9	10	1·6	10	2·1	08	2·5	10	2·3	11	4·4	06	3·2	08	4·1	10	2·2	08	1·5	11	2·1	—	—	2·7
4	12	2·1	10	2·8	12	2·7	12	1·6	10	1·5	09	2·3	08	2·7	10	2·5	12	3·5	08	3·4	09	2·1	07	2·5	08	2·7	11	2·9	—	—	2·5
5	12	1·1	10	2·2	12	1·9	11	2·3	10	1·6	09	2·9	08	2·3	10	2·4	12	4·6	08	4·4	08	3·1	07	2·1	07	2·0	11	2·9	—	—	2·6
6	14	1·5	10	1·3	12	2·2	07	2·1	10	1·9	09	3·4	08	1·8	10	1·8	12	4·9	09	4·8	10	3·4	07	2·4	07	1·8	11	2·1	—	—	2·6
7	15	2·3	10	1·1	12	1·8	07	1·9	10	2·1	09	2·2	09	2·2	10	1·8	14	7·2	10	3·5	09	3·6	09	1·8	07	2·5	11	3·3	—	—	2·7
8	14	3·2	11	2·3	13	2·2	07	1·1	11	3·7	09	3·4	09	1·8	10	1·2	12	6·8	10	5·7	10	3·7	10	3·1	07	3·4	10	3·4	—	—	3·7
9	14	5·6	10	3·4	12	2·7	08	3·0	11	5·0	08	5·7	06	3·5	d19	2·1	12	5·8	10	6·1	09	4·1	07	4·1	06	4·3	09	3·9	—	—	4·8
10	13	6·1	09	3·0	11	2·2	10	3·4	09	5·7	08	5·8	06	5·7	23	3·1	11	7·8	08	6·9	08	4·8	07	4·7	07	4·7	08	4·4	—	—	5·3
11	11	4·6	10	3·2	d19	2·3	11	3·1	10	5·9	09	6·3	05	5·4	24	3·4	12	7·2	08	6·7	07	4·6	06	4·7	06	4·3	08	4·6	—	—	5·3
Noon	12	6·0	07	2·8	24	3·2	06	4·3	08	4·3	06	5·9	06	4·9	26	3·9	11	6·1	10	6·6	07	4·6	09	4·9	08	4·4	07	5·4	—	—	5·3
13h	12	5·1	11	2·4	21	3·1	07	4·1	08	4·6	08	6·9	06	4·9	28	3·6	12	8·2	09	7·0	09	4·4	06	4·4	06	4·4	07	4·3	—	—	5·4
14	12	4·4	r24	3·6	24	3·2	10	4·2	09	3·3	08	6·7	08	4·4	02	3·9	11	7·6	11	7·9	10	5·1	05	4·4	06	3·3	08	5·3	—	—	5·5
15	12	5·9	26	3·9	23	2·5	08	3·6	10	5·6	08	6·6	07	4·1	02	3·3	11	6·9	09	6·5	10	4·8	05	4·7	05	5·0	07	5·0	—	—	5·4
16	12	5·1	28	2·2	d01	2·6	08	4·5	10	5·7	08	6·9	05	4·5	12	3·0	12	6·9	11	6·3	09	5·1	06	3·8	06	4·1	08	4·4	—	—	5·2
17	11	6·2	d11	3·1	06	2·2	08	3·7	10	5·4	08	6·3	06	3·6	15	3·7	10	7·0	12	5·6	09	4·5	06	3·6	06	3·3	09	6·2	—	—	4·9
18	10	5·7	11	2·4	08	2·3	08	4·0	09	5·2	08	5·9	07	3·1	14	3·6	11	6·0	10	4·8	10	3·2	06	2·9	08	2·7	08	5·3	—	—	4·1
19	10	5·7	11	1·8	09	1·4	09	1·8	10	4·4	09	3·8	10	2·3	14	2·2	10	4·6	10	4·8	11	2·4	06	1·8	09	2·6	09	4·2	—	—	3·2
20	10	4·2	11	1·6	12	3·0	09	1·9	10	3·3	09	4·7	08	2·8	14	2·4	10	4·4	11	3·8	11	1·9	06	1·8	10	3·0	10	4·0	—	—	3·1
21	12	2·6	11	1·7	12	2·6	10	2·6	10	2·8	09	3·2	07	1·6	14	2·3	10	4·4	11	4·7	11	1·5	06	2·4	10	3·0	10	2·5	—	—	2·9
22	10	3·9	11	1·8	12	2·7	10	1·6	10	2·6	09	2·5	09	1·9	13	2·4	10	4·3	09	4·4	11	2·7	07	2·7	10	2·7	10	3·3	—	—	2·9
23	10	3·3	11	2·1	13	2·3	10	2·0	10	2·4	09	2·7	09	2·1	11	3·3	11	3·6	08	5·5	11	1·4	07	2·2	10	2·5	10	3·4	—	—	2·8

Table XIII.—Wind Frequency (Number of Observations) September. 1949

our	Force (0-12)			DIRECTION															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	...	30	...	...	...	1	8	12	9	...	...	...	...	...	...	...	...	...
9		13	17	...	...	...	4	10	9	5	1	...	...	1	...	...	...	...	...
15	...	16	10	...	1	3	1	8	7	8	...	...	...	...	...	1	1	...	...
21	...	...	30	...	...	...	2	5	10	12	1	...	...	...	...	...	..	...	...
Totals	...		..	...	1	3	8	31	38	34	2	...	...	1	...	1	1	...	...

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, September. 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	0·7		...	...	...	..	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...
2	...	0·1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	0·1	...	...	...	...	...	...	...	...	...	0·7	...	...	...
3	...	1·7	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	0·3	...	...	3·9	...	...	...
4	0·2	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	0·3	...	...	...
5	0·1	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	..	...	...	...
6	...	...	...	...	...	...	..	...	...	...		...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...
7	...	...	...	...	...	...	...	0·2	...	..	...	...	...	...	0·3	...	...	...	..	0.1	...	...	...	...	...	...	...	..	...	...	...
8	...	...	.	..	...	...	..	...	...	...	...	...	.	...	0·8	...	...	...	...	...	...	...	...	...	...	...	0·7	..	...	...	...
9	..	...	...	...	...	0·3	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
10	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...
11	...	...	...	...	..	...	...	...	...	...	...	...	...	...	0·2	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	..	...	...	...	...	...	..	...	...
14	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·2	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...
17	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	0·1	...	...	...	...	...	...	..	...	...	..	...	...	0·2	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	..	...	...	...	.	...	...	..	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...		...	...	...
20	0·1	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...	..	...
22	...	...	..	...	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
23	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	..	...	...	...	...
24	0·1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...		...	...	...	...	...	0·1	...	...	...	...

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for September. 1949

Day / Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	0·1	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	.	...	...	...	...	...
2	0·2	0.2	...	...	...	...	0·1	...	...	...	..	...	...	...	...	...	...	..	...	...	...	..	...	...	1·9	...	...	0·5	...	...	...
3	0·2	0·5	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	..	...	...	. .	...	...	...	...	0·2	...	...	..	...	...	...
4	..	0.2	...	...	...	...	...		...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	0·4	..	...	...	...	...	...
5	0·6	0.9	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	0·7	...	...	...	...	...	...
6	...	0.2	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	.	...	0·3	...	...	...	...	...	...	0·3	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.4	...	...	...	...	...	...
8	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...
10	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	.	...	...	...	...	...	...	0·1	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	..	...	...	...	...		...	...	0·2	...
13h	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	...	...	...	...	...	1·0	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9	...
15	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·1	0·3	...	...	...	...	...	...	...	...	...	...	..	...	...	...
16	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	...	...	..	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	0·2	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...
20	...	0·7	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	0·1	...	...	...	..	...	...	...	...	1·0	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...
22	0·2		...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	..	...
23	...	...	..	...	...	1·5	..	0·3	...	...	...	...	...	...	...	0·4	.	...	...	...	...	...	...	1·3	...	...	...	..	...	...	...
24	...	..	...	...	...	0·3	0·1	...	...	...	...	...	...	...	...	..	...	...	...	...	..	...	...	1·2	...	...	...	...	...	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, September, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	0·13	3·2	...	4
B. River	Pierre Fonds Ltd.	...	0·55	14·0	1·01	2
	La Ferme ...	350	0·15	3·3	0·75	3
	Richelieu ...	...	0·10	2·4	...	4
	Mon Repos (Palmyre)	...	0·10	2·5	...	1
	Médine ...	..	0·30	7·6	...	2
	La Mecque ...	..	0·27	6·9	...	3
	Albion ...	...	0·15	3·8	...	1
	Mare-Longue ...	...	2·88	73·2	...	18
	Beaux Songes ...	...	0·10	2·5	...	1
	Clarens	...	0·20	5·1	...	1
	Mon Désert ...	...	0·20	5·1	1·78	1
Pamousses	Botanical Gardens	325	0·54	13·7	1·78	8
	Solitude ...	175	0·10	2·5	0·81	1
	La Nicolière ...	...	1·24	31·5	3·28	10
	The Observatory	179	0·63	16·0	1·40	12
	California	...	1·04	26·4	...	...
Rivière du Rempart	St. Antoine ...	50	0·26	6·6	1.17	...
	Bel Mont ...	50	0·16	4·1	1·15	...
	Poudre d'Or ...	20	0·28	7·1	1·24	...
	Mon Loisir S.E.	300	0·40	10·2	1·85	6
	Forbach ...	...	0·45	11·4	1·20	1
	Ravensworth ...	...	0·86	21·8	...	3
	Couroupa ...	...	0·12	3·0	1·36	1
	Labourdonnais	290	0·24	6·0	1·61	1
	Beau Séjour ...	300	...	...	2·20	...
	Mont Piton ...	680	0·54	13·7	2·27	3
	Mon Choix ...	700	0·75	19·1	1·84	2
	Antoinette ...	640	0·70	17·8	2·19	5
	Mon Songe ...	620	0·32	8·0	2·49	3
Moka	Bonne Veine ...	400	3·01	76·5	5·26	13
	Le Réduit ...	1,000	0·68	17·3	1·50	11
	Alma ...	1,460	2·67	67·8	4·73	16
	Mon Désert ...	1,450	0·80	20·3	...	7
	Hermitage ...	14,50	0·76	19·3	4·62	6
	Béga ...	..	0·27	6·9	...	4
	Côte D'Or ...	...	0·30	7·6	...	1
	Mon Rêve ...	...	0·52	13·2	...	5
	Mont Pévril ...	...	0·52	13.2	...	5
	Minissy ...	1,150	0·57	14·5	2·25	5
Plaines Wilhems	Curepipe Gardens ...	1,840	2·38	60·4	5·60	17
	Aerological Station ..	1,393	1·30	33·0	3·40	15
	Mare-aux-Vacoas (G.E.) ...	1,850	2·90	72·7	7·13	13
	Mare-aux-Vacoas (Arn.) ...	1,830	3·01	76·5	7·14	15
	La Marie ...	1,700	2.02	51·3	4·10	15
	Réunion ...	420	1·01	25·7	...	8
	Phœnix ...	...	0·60	15·2	...	2
	Quatre Bornes...	...	0·58	14·7	...	6
	Bagatelle ...	1,250	1·01	25·7	2·69	7
	Pétrin ...	..	3·95	100·3	...	17
	Henrietta ..	...	0·95	24·1	...	19
	Tamarin-Falls ...	...	1·60	40·6	...	8
	Tamarin ...	...	0·70	17·8	...	1
	Moon ...	...	0·64	16·3	...	6
	La Pipe and Midlands Dam	...	2·95	74·9	...	12

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches	Number of days
	Highlands ...	1,300	1·26	32·0	3·09	7
	Trianon ...	950	0·85	21·6	1·70	6
	Bassin ...	..	0·23	5·8	1·36	3
	Ebène ...	630	0·50	12·7	...	6
Flacq	Mare Sèche ...	20	...	...	1·03	...
	Australia ...	...	1·04	26·4	...	...
	Union Régnard S.E.	600	1·74	44·2	2·63	8
	Constance La Gaieté	100	1·04	26·4	1·69	
	Belle Vue (Allendy)	900	0·79	20·1	2·69	4
	Sans Souci ...	20	2·40	61·0	5·83	13
	Beau Champ G.R.S.E.	400	0·60	15·2	1·71	9
	Olivia ...	...	1·07	27·2	3·15	6
	Rich Fund ...	...	1·30	33·0	...	8
	Trois Ilots ...	...	0·82	20·8	...	11
	Belle Rive ...	400	1·52	38·6	4·13	12
G. Port	Rose Belle ...	850	2·69	68·3	5·98	17
	Union Park ...	...	3·49	88·6	...	16
	New Grove ...	650	2·50	63·5	...	4
	Astroea ...	...	2·37	60·2	...	9
	Deux Bras ...	...	2·27	57·7	...	11
	Mon Trésor ...	...	1·07	27·2	1·0	5
	Beau Vallon...	...	1·11	28·2	...	7
	Union Vale ...	...	0·62	15·7	...	6
	Mon Désert Carié	75	0·97	24·6	1·53	7
	Ste. Hélène ...	...	1·12	28·4	...	6
	Ferney ...	20	1·70	43·2	2·60	7
	Sauve Terre...	...	0·67	17·0	...	4
Savanne	Tivoli ...	1,300	1·87	47·5	...	9
	La Flora ...	1,050	2·08	52·8	8·51	10
	Riche Bois ...	650	1·48	37·6	5·38	10
	Britannia ...	700	1·30	33·0	3·78	10
	Beau Climat...	...	2·50	63·5	...	10
	Savannah ...	200	1·15	29·2	4·63	6
	St. Aubin ...	300	6·96	24·4	1·96	5
	St. Avold ...	900	1·48	37·6	2·70	10
	Colmar ...	400	1·59	40·4	4·61	10
	Union S.E. ...	...	1·31	33·1	3·03	5
	Fontenelle ...	320	1·32	33·5	2·23	9
	Terracine ...	...	1·69	42·9	..	11
	Choisy ...	200	...	..	2·95	...
	Beau Bois ...	...	1·04	26·4	2·60	8
	Bel Air ...	...	0·65	16·5	...	3
	St. Félix ...	...	1·20	30·5	...	7
	Bel Ombre ...	40	0·78	19·8	19·3	3
	Beau Champ B. du Cap ...	...	0·34	8·6	1·95	4
	Frédérica ...	...	0·63	16·0	2·36	3
	Ste. Marie ...	...	0·28	7·1	...	3
	Combo ...	...	1·33	33·8	...	10
St. Brandon	Met. Station...	...	1·02	25·9	...	20
Agalega	Met. Station...	..	2·51	63·8	...	14
Rodrigues	Oyster Bay ...	...	0·96	24·4	...	14
Chagos-Archipelago	Salomon Islands (Boddam).	...	14·44	366·8	...	18

Table XVI.—Observations of Pilot Ballons, month of September, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08.47	12	30	11	41	11	30	11	29	..	..	...	...	...	...	...	...	...	...	...	...	...	...
2	08.43	12	36	11	31	12	16	10	20	11	23	...	...	...	...	...	...	...	...	...	...	...	...
3	08.10	11	26	11	28	11	14	05	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4		Ballons not available			...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...
9	08.59	12	13	09	18	08	16	09	05	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10		Ballons not available			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	08.40	09	05	07	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17		Ballons not available			...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.51	09	35	09	14	09	14	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
24		Ballons not available			...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	09.06	08	15	09	15	07	12	07	13	...	...	...	...	...	...	...	...	...	...	...	...	..	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

OCTOBER, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY J. ELIEL FÉLIX, GOVERNMENT PRINTER, NOVEMBER 1952. 5902/11/52—208

Table I.—Results of Magnetical Observations taken during the month of October, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal and Vertical Force (C.G.S. Units)		Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
Oct.	° ′			′		
1	15 33·0	.22340	.30351	9·0	40	18
2	31·5	342	346	7·0	42	33
3	33·1	342	352	8·0	51	27
4	32·0	339	349	7·4	98	24
5	32·3	311	353	10·0	38	30
6	32·5	323	349	12·2	69	37
7	33·0	306	357	10·0	121	26
8	34·3	282	—	7·2	55	—
9	33·2	—	—	9 0	—	—
10	32·9	—	—	12·2	—	—
11	—	319	355	—	48	36
12	—	333	357	—	61	22
13	33·5	344	353	11·4	94	32
14	33·1	—	364	9·0	—	23
15	33·4	—	—	8·8	—	—
16	34·0	268	—	8·4	46	—
17	34·0	306	—	9·0	18	—
18	33·8	308	363	12·8	24	42
19	33·2	317	366	14·4	83	29
20	34·5	323	365	10 0	43	29
21	33·6	334	366	9·8	75	22
22	33·3	343	358	9·2	45	35
23	33·4	325	359	12 4	62	43
24	34·1	331	364	7·4	57	24
25	33·1	343	359	8 4	36	28
26	32·5	349	359	9·2	47	20
27	33·7	358	358	12·0	168	35
28	32·9	294	369	6·0	63	10
29	34·5	308	365	9 4	39	22
30	33·8	333	357	10·2	34	41
31	33·1	351	360	7·4	51	27
Mean	° ′ 15 33·32	.22324	.30358	′ 9·56	59·6	28·6

Magnetic Disturbances—October, 1949

1d. Slightly disturbed.

3d. Slightly disturbed.

4d. Moderately disturbed.

5d. Slightly disturbed.

6d. Slightly disturbed.

7d. Slightly disturbed during first half and at $12^h\ 05^m$ started a moderately disturbed period ending at $01^h\ 45^m$ on 8^d. The Range was 125γ.

8d. Slightly disturbed.

11d. Slightly disturbed.

14d, Very disturbed period starting at $01^h\ 10^m$ and ending at $22^h\ 10^m$ on 16^d. The range was over 170γ.

18d. Slightly disturbed.

19d. Slightly disturbed.

23d. Moderately disturbed.

24d. Slightly disturbed.

26d. Slightly disturbed.

27d. Moderately disturbed.

28d. Slightly disturbed.

30d. Slightly disturbed.

T= ·37682 : Mean Dip= 53°40′·25 X= ·21506 : Y= −·059865 : Z= ·30358

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of October, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
4 9 55	15 34·63	4 9 36	·22359	4 10 06	53 39·63	.30364
11 9 45	15 36·13	7 9 48	·22348	11 9 55	53 40·37	.30367
18 9 57	15 39·63	11 9 26	·22329	18 10 08	53 39·87	.30371
25 9 12	15 35·87	14 9 44	·22352	25 9 22	53 40·13	.30363
		18 9 36	·22319			
		25 9 44	·22352			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

OCTOBER 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′		′	′		′	′	′	′	′		
Midnight	34·8	33·0	32·4	33·4	33·2	34·4	34·4	38·4	36·6	34·8	34·4	--	33·8	33·4	32·0	34·8	Midnight
1h	34·2	33·2	32·9	33 6	32·4	34·2	36·0	34 2	36·5	34·2	34·2	--	33 9	33·0	34 0	35·0	1h
2	34·0	33·4	33·8	33 8	32 3	33·8	35·0	36·4	36·1	33·8	34·0	—	34·0	33·2	36·8	34·2	2
3	34 0	33·6	33·9	33·7	32·1	33·9	34·2	36·8	35·8	32·4	33 9	—	33·4	32·4	31·6	36·0	3
4	33 8	33·4	34·0	33·6	32·0	33·9	34·0	36 0	36·0	30·6	33 7	—	33·6	32·0	32·8	38·0	4
5	33·7	33·0	33·9	33·5	31·6	34·0	33·9	33·0	36·2	30·0	33·6	—	34·0	33 0	33 6	34·8	5
6	33·0	32·7	33·6	33·2	31·8	33·8	33·4	32·2	31·6	30·4	33·2	—	34·2	33·8	34·8	35·4	6
7	32·4	34·0	33·0	33·0	33·6	34·2	34·0	34 4	30 4	32·0	33·4	—	35·6	34·8	33·6	34·2	7
8	34·0	32·0	34·8	34·0	34·2	36·0	34·0	35·4	32·8	35·4	33·8	—	37·0	36·0	34·0	35·0	8
9	35·8	34·0	36·0	34·8	34·4	38·0	35·9	36·2	35·4	37·0	35·6	—	38·0	36·6	36·0	34·0	9
10	38·0	34·0	37·6	34 2	37·0	38·2	36·0	36 4	36·0	38·0	37·0	36·0	39·0	37·0	35.8	34·2	10
11	37·0	33·0	37·4	32·0	35·6	36·0	33·2	36·0	36·0	38·2	37·8	35·0	38·0	36·0	34·0	35·0	11
Noon	34·0	31·2	36·0	30·2	34·2	32·0	30·0	34·0	32·6	35.0	37·0	32·0	36 4	33·6	35·0	33·0	Noon
13h	31·2	28·0	33·4	29·4	31·6	29·6	27 0	31·9	30·0	32·0	34·2	28·0	32·0	31·2	32·0	31·0	13h
14	29·0	27·0	30·2	28·0	28·2	28·0	27·2	31·4	27·6	28·0	31 2	27·0	28·0	30·0	28·0	29·6	14
15	29·6	27·2	29·8	27·4	27·0	27·0	27·8	31·2	27·8	26·0	28·0	28·0	27·6	28·0	29·6	29·8	15
16	30·0	28·0	29·6	28·0	28·0	26·0	28·4	32 0	28·8	28·2	—	30·0	28·0	31·0	32·0	31·0	16
17	30·4	29·0	30·0	29·9	29·6	28·0	31·4	33·6	30.4	30·4	—	31·9	29·6	31·2	31·6	33·6	17
18	32·0	29·8	30·6	29·6	31·0	28·4	32·0	34·2	31·2	32·8	—	33·0	31.6	31·4	34·0	34·0	18
19	31·9	30·6	31·0	31·8	32·0	30·4	31·2	34·2	32·8	33·2	—	32·9	32·8	31·6	32·0	34·8	19
20	32·0	31·0	31·9	31·9	32·4	31·0	34 0	34·8	34·2	33·6	—	33·2	32·8	31·8	35·0	34·6	20
21	32·2	31·2	32·4	32·2	33·4	32·0	35·4	34·2	34·2	34·0	—	33 4	33·6	33·6	34·0	34·8	21
22	32·6	31·8	32·5	32·8	33·6	33·0	35·6	34·0	34·4	34·4		33·6	34·0	34·8	33·6	34·2	22
23	32·5	31·9	32·7	33·6	33·8	33·6	37·0	34·2	34·0	34·2	—	33 7	33·6	36·0	33 8	34·0	23

OCTOBER 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′		′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	34·6	34·2	34·6	35·0	36 2	34·0	34 8	37·2	34·2	34·0	34·1	36·0	36·0	34·2	34·2	34·6	Midnight
1h	33·0	34·4	35·0	35 2	36·0	34 6	37 0	35·6	34·1	33·8	33·9	34·4	34·4	34·4	34·0	34·4	1h
2	33·8	34 0	35·0	35·0	36·0	34·5	32·0	35·0	33·6	33·9	33 2	36·0	34 0	34·0	33·8	34·3	2
3	33 4	34·8	34·8	35·2	35·6	34·8	35·4	35·2	33·9	33·8	33·4	32·4	33·8	34·2	33·6	34·1	3
4	33·2	35·0	35·0	35·4	35·4	34·6	36·0	35·4	34·0	34·0	33 6	32·0	34·0	34·4	33·4	34·1	4
5	34·0	34·2	34 2	35·2	35 0	34·0	37·0	36·0	34 2	33·6	34 0	32·5	34·4	34·8	33·2	33·9	5
6	32·4	34 0	34 0	35·4	35·6	34·0	36 0	36 0	35·0	33·4	35·0	30·0	34·6	36·0	33·6	33·8	6
7	33 6	35·0	35 0	37 2	37·0	36·0	37·6	34·0	35·4	34·2	36·0	30 4	37·6	38 2	33 8	34·5	7
8	36·0	37 6	37·2	39·0	36·0	37·2	38 0	33·0	34·8	35·6	37·6	32·8	39·4	39·2	35·6	35·6	8
9	37·6	39·6	39·4	40·0	37·4	36·8	37·2	35·4	36·0	35·4	37·4	34·4	39·6	37·6	36·4	36·6	9
10	39·0	39·8	39·0	39·6	35 6	35·4	36 0	36·0	36 0	34·4	36·0	35·4	38 0	36·2	36·2	36·7	10
11	38·6	39·6	38·0	36·0	33·6	33·0	33·6	35·2	35·6	33·0	35·0	35·6	37·4	34·2	35·0	35·5	11
Noon	38·0	36·0	34 2	34·0	32·0	30·8	30·0	34·0	32·0	30·2	32·4	35·4	35·6	32·4	33·2	33·4	Noon
13h	34·0	32·0	29·0	31·0	29 0	28·8	27 6	31·9	29·0	27 6	29·6	34·2	32·2	30·2	30.2	30·6	13h
14	32·0	28 0	26·0	30·0	27·6	28·0	25·6	29·8	27 6	26·4	26·4	33·0	30·2	29·0	29·6	28·6	14
15	30·0	27·6	25 0	30·6	28 0	29·6	25·8	31·0	27·8	27·6	27·2	32·8	30·4	29 4	29·0	28·5	15
16	30·4	28·0	27 0	31·6	30·8	31·8	28·0	31·0	29 6	29·0	29·0	33·0	31·2	29·9	30·0	29·6	16
17	32·2	30·2	29·0	32·0	31·6	32·0	31 9	32·8	31·6	31 0	32·0	34 0	33·0	31·8	32 0	31·2	17
18	33·0	32·0	31·0	33.0	32·4	32·2	32·0	33·2	33 0	33·0	34·0	34 8	33·8	32·6	32·8	32·3	18
19	33 2	32·6	31·6	33·2	33·2	32 6	32·4	33·8	33·2	32·6	33 0	34·6	33·4	33·0	33·2	32·6	19
20	33·6	33·2	32·4	33·0	33·4	33 0	32·6	33·9	33·0	33·1	34·0	34·8	33·6	33·2	33·0	33·1	20
21	33·2	33 0	33·0	32·0	33·2	33·2	33·4	34·2	33·6	33·2	35·2	35·0	33·8	33·4	33·4	33·5	21
22	34·6	33 6	33·6	34·0	33·6	33·6	34·2	34·6	34·0	33 6	38·4	35·4	34·0	33·9	32·4	34·0	22
23	34·0	33·8	34·4	34·6	33·8	33·8	36·0	34·8	34·2	34·0	36·8	35·2	34·6	34·0	33 0	34·2	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

OCTOBER 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	322	334	331	334	310	308	314	252	—	—	317	318	324	322	362	245	Midnight
1	340	337	332	331	313	312	324	280	—	—	324	320	323	352	250	260	1
2	330	339	330	335	314	329	321	274	—	—	324	329	329	359	248	270	2
3	332	338	336	337	313	324	329	280	—	—	328	332	332	360	274	261	3
4	337	345	337	338	312	325	341	284	—	—	329	327	338	361	262	244	4
5	342	349	338	339	325	326	345	287	—	—	330	330	337	360	264	258	5
6	344	347	342	340	322	328	347	289	—	—	327	338	338	354	265	264	6
7	348	338	347	358	331	327	350	290	—	—	331	340	340	358	271	267	7
8	347	339	350	356	329	328	358	291	—	—	330	354	343	359	271	262	8
9	348	340	351	357	328	324	350	289	—	—	327	367	350	360	273	267	9
10	344	348	356	365	332	329	351	292	—	338	328	370	358	360	280	269	10
11	347	358	365	378	318	331	347	293	—	340	320	370	367	366	260	273	11
Noon	349	367	377	376	314	351	346	299	—	344	324	360	387	352	252	274	Noon
13	352	370	365	382	302	353	340	304	—	345	325	342	392	330	246	270	13
14	362	360	360	384	301	351	320	300	—	350	327	330	389	310	—	260	14
15	348	347	340	370	298	353	300	307	—	336	331	314	375	280	—	258	15
16	338	334	327	344	294	339	272	290	—	330	334	309	364	258	—	259	16
17	332	328	326	310	298	312	260	274	—	334	320	310	350	250	—	260	17
18	331	329	328	286	304	309	252	262	—	337	299	319	346	248	—	264	18
19	330	330	332	294	307	305	248	254	—	333	288	322	339	240	—	273	19
20	334	331	336	308	297	284	237	267	—	311	386	321	312	250	—	278	20
21	335	330	337	312	299	286	242	274	—	313	392	321	298	—	—	283	21
22	333	331	336	311	302	296	241	272	—	312	310	320	304	—	—	289	22
23	334	331	335	307	307	312	249	273	—	314	303	318	318	—	—	290	23

OCTOBER 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	294	309	315	309	310	328	320	382	330	330	344	275	299	330	331	312	Midnight
1h	299	310	317	310	317	328	336	308	332	332	348	286	300	335	332	318	1h
2	306	311	319	313	337	332	352	322	338	333	350	294	305	337	333	322	2
3	307	303	322	317	335	334	331	321	344	337	349	299	307	332	338	323	3
4	308	313	323	328	329	336	333	322	350	337	352	318	309	331	342	326	4
5	312	315	325	323	330	339	334	324	352	342	351	310	310	330	343	328	5
6	308	319	331	322	333	338	332	324	354	345	351	330	314	329	341	330	6
7	306	320	336	327	334	340	328	339	356	350	353	336	313	327	359	333	7
8	307	317	341	324	336	343	324	330	358	357	354	328	308	324	359	333	8
9	305	316	344	323	347	348	326	334	360	370	390	310	302	335	365	336	9
10	300	313	350	322	349	352	329	320	359	374	430	307	305	348	379	340	10
11	308	311	360	330	365	360	334	310	357	373	440	301	307	350	382	343	11
Noon	310	308	358	338	377	370	339	305	359	377	435	290	313	351	379	346	Noon
13	308	307	340	347	371	373	339	314	355	373	430	284	316	352	370	343	13h
14	309	313	320	344	363	364	344	319	350	368	422	283	304	348	364	339	14
15	310	311	300	335	345	352	325	321	340	355	407	281	300	332	360	330	15
16	298	304	290	330	327	340	307	323	334	348	390	279	292	324	357	320	16
17	300	298	277	304	320	338	313	318	328	342	350	273	290	325	348	311	17
18	306	296	283	308	307	339	319	319	329	335	325	275	298	318	341	308	18
19	299	298	284	317	319	340	322	320	329	336	320	277	304	322	339	309	19
20	308	296	288	320	311	343	312	318	324	337	311	278	312	327	340	308	20
21	310	299	290	324	302	341	317	327	327	338	285	272	314	332	331	308	21
22	311	303	294	321	310	336	305	328	337	337	272	279	319	330	338	310	22
23	302	312	295	310	323	335	390	329	329	345	273	280	329	331	336	311	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

OCTOBER 1949

+ ·30000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	356	352	352	350	356	357	357	—	364	—	360	362	358	358	—	—	Midnight
1h	352	352	353	351	354	357	357	—	363	—	360	362	358	356	—	—	1h
2	353	352	352	351	354	357	357	—	362	—	359	360	358	355	—	—	2
3	353	352	352	351	354	352	354	—	—	—	358	360	357	354	—	—	3
4	353	352	352	351	354	352	354	—		—	357	360	357	354	—	—	4
5	353	352	352	351	355	352	353	—	—	—	357	360	357	355	—	—	5
6	352	351	351	352	351	353	353	—	—	—	358	361	357	357	—	—	6
7	352	354	352	352	356	354	353	—	—	—	359	364	361	360	—	—	7
8	355	353	360	353	361	358	357	—	—	—	361	367	362	364	—	—	8
9	356	352	361	353	361	360	364	362	—	—	370	364	362	370	—	—	9
10	360	351	369	352	361	361	362	350	—	—	359	367	362	368	—	—	10
11	360	343	351	347	364	356	353	349	—	—	347	358	360	360	—	—	11
Noon	353	333	359	340	362	348	350	350	—	360	340	352	350	360	—	—	Noon
13h	347	321	343	332	354	331	344	353	—	349	334	345	337	354	—	370	13h
14	342	322	342	332	346	330	346	357	—	339	335	346	330	356	—	367	14
15	345	330	344	337	337	329	350	362	—	334	336	349	330	364	—	365	15
16	346	338	347	345	334	324	351	367	—	340	341	350	337	373	—	372	16
17	346	342	348	350	340	329	358	370	—	349	351	350	345	377	—	—	17
18	350	345	350	354	343	339	362	372	—	351	357	350	350	374	—	—	18
19	350	349	349	356	348	346	368	370	—	350	360	351	350	374	—	—	19
20	350	350	350	355	351	350	370	370	—	355	360	353	353	374		—	20
21	350	350	350	356	354	356	370	370	—	357	365	356	359	374	—	—	21
22	351	351	350	355	358	360	370	368	—	360	363	357	360	374	—	—	22
23	351	352	350	356	357	360	366	367	—	360	362	358	357	374	—	—	23

OCTOBER 1949—*continued*

+ ·30000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	—	371	368	370	370	368	370	372	366	363	364	371	370	366	361	363	Midnight
1h	—	370	368	370	368	367	358	372	364	363	362	370	370	366	361	362	1h
2	—	371	368	369	367	366	363	365	363	362	362	370	369	364	361	361	2
3	—	371	368	369	364	364	364	366	362	361	362	368	369	366	363	361	3
4	—	372	369	370	364	365	365	366	362	361	362	368	370	366	363	361	4
5	—	373	369	370	367	365	366	366	363	361	363	368	370	367	367	361	5
6	—	373	370	370	368	366	368	368	363	361	364	367	370	370	368	362	6
7	—	373	372	373	371	370	368	370	365	360	364	367	372	372	369	363	7
8	—	372	372	372	372	371	366	370	367	364	366	372	372	373	370	365	8
9	—	370	372	370	370	362	370	372	368	367	362	374	370	366	363	365	9
10	—	369	372	370	367	354	359	374	366	361	353	372	370	360	362	363	10
11	—	368	370	361	360	344	360	371	360	360	350	370	362	352	359	358	11
Noon	372	350	358	351	357	336	348	363	353	357	344	369	358	344	353	352	Noon
13h	367	337	344	344	350	337	329	356	350	354	341	368	352	335	348	343	13h
14	362	331	340	347	351	344	330	350	343	350	341	368	350	332	343	342	14
15	360	333	350	351	357	351	337	351	340	348	338	364	352	334	347	344	15
16	364	343	362	358	365	352	347	356	347	350	341	366	359	340	351	349	16
17	370	354	369	364	368	353	354	358	357	347	351	370	367	349	358	354	17
18	370	361	372	368	370	356	357	360	360	360	358	370	366	355	360	358	18
19	370	364	371	367	369	359	359	360	360	361	360	370	366	358	360	359	19
20	370	367	372	367	368	360	361	361	360	360	363	370	364	359	360	361	20
21	370	370	372	367	370	363	366	363	362	360	373	370	365	360	363	363	21
22	372	370	373	368	371	363	370	365	362	364	373	370	366	360	363	363	22
23	372	368	373	369	370	366	372	364	363	365	373	371	367	361	362	363	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of October, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Ca ella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
OCTOBER	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	971·3	21·7	3·4	16·1	71	18·3	75	5·4	5	17·2	21·0	22·4	17·5	23·0	16·9	6·1	0·5	10	8·6	71
2	971·9	21·5	4·3	14·2	63	16·2	75	5·4	3	17·0	20·9	22·2	17·3	23·5	16·9	6·6	0·0	0	9·8	80
3	971·7	19·5	0·7	18·4	94	21·2	55	6·7	7	16·6	19·1	20·0	18·0	22·2	16·3	5·9	0·8	10	3·5	29
4	972·2	22·1	4·2	15·1	65	17·2	60	3·6	3	17·4	21·8	23·0	18·2	24·2	17·1	7·1	0·8	5	7·8	64
5	973·1	21·4	3·3	16·0	71	18·2	70	6·3	4	18·0	21·0	21·9	18·3	22·4	17·6	4·8	2·8	35	10·4	85
6	973·3	20·2	3·3	14·6	70	16·6	80	4·9	5	1·65	19·4	20·9	17·0	22·2	16·5	5·7	1·8	10	7·8	64
7	973·2	19·3	1·8	16·3	83	18·5	80	5·4	7	16·2	18·9	18·9	17·3	21·0	16·0	5·0	1·2	20	6·6	54
8	972·5	20·7	4·8	12·2	59	14·2	80	6·7	3	16·5	20·2	22·4	17·4	22·6	16·2	6·4	1·9	25	10·6	86
9	972·2	18·8	2.3	14·9	78	16·9	80	8·5	7	17·0	18·6	20·7	16·3	21·1	16·8	5·3	10·7	130	7·8	63
10	972·1	19·4	4·1	12·1	63	14·1	70	6·3	6	15·2	19·0	19·8	16·8	21·3	14·0	7·3	0·4	5	6·9	56
11	971·1	18·4	1·5	15·9	85	18·1	70	4·0	7	15·4	17·9	18·9	16·0	20·7	15·2	5·5	6·3	70	6·0	49
12	970·8	20·1	3·7	13·7	67	15·7	55	4·0	3	15·0	19·9	20·9	16·2	22·7	14·8	7·9	0·1	5	7·0	57
13	969·7	22·1	4·2	15·1	65	17·2	Calm	Calm	5	15·1	21·8	23·0	16·9	24·4	15·0	9·4	0·0	0	8·8	71
14	969·1	21·9	4·3	14·7	64	16·7	Calm	Calm	6	12·9	21·2	19·9	18·0	24·0	12·9	11·1	1·1	10	3·3	27
15	968·5	23·2	4·3	16·1	65	18·3	Calm	Calm	3	16·9	23·0	24·2	18·7	24·9	16·1	8·8	0·0	0	9·1	73
16	969·7	20·9	4·3	13·5	63	15·5	110	1·3	7	16·9	20·3	23·9	19·1	24·4	16·0	8·4	0·0	0	4·5	36
17	970·2	21·7	5·8	11·3	52	13·4	95	0·9	4	16·8	21·3	22·1	18·2	24·0	15·5	8·5	0·0	0	8·8	71
18	971·0	21·9	3·6	16·0	69	18·2	110	2·2	4	17·2	21·6	21·9	18·0	24·0	16·9	7·1	1·2	20	6·4	52
19	971·5	22·9	5·0	14·5	59	16.5	110	0·9	4	16·2	22·5	25·8	19·2	25·7	15·6	10·1	0·0	0	8·9	71
20	972·7	22·2	4·3	15·0	64	17·1	120	2·2	4	15·8	22·0	23·7	18·1	24·5	15·0	9·5	0·0	0	10·4	83
21	973·2	19·4	0·9	17.5	89	20·0	125	5·4	7	18·0	19·2	20·8	17·7	21·0	17·3	3·7	7·5	125	2·7	22
22	971·9	20·4	2·5	16·2	77	18·4	105	5·4	5	16·2	20·0	22·0	17·0	22·2	14·9	7·3	0·0	0	8·3	66
23	970·6	21·3	5·4	11·7	54	13·7	90	2·7	5	17·0	21·0	23·2	17·6	23·2	15·3	7·9	0·0	0	5·3	42
24	970·9	20·2	4·1	13·0	64	15·0	Calm	Calm	8	17·5	19·8	22·4	15·9	22·6	17·0	5·6	0·0	0	0·4	4
25	972·8	21·5	3·8	15·2	68	17·3	100	4·5	4	13·0	21·3	19·0	17·2	22·8	12·9	9·9	4·3	85	6·2	49
26	973·4	20·2	4·5	12·2	60	14·2	100	5·8	5	16·1	20·2	20·5	17·0	21·6	15·8	5·8	0·0	0	11·5	91
27	973·1	20·5	5·0	11·6	57	13·7	90	4·0	6	16·9	20·1	20·9	16·7	22·1	16·8	5·3	0·0	0	5·6	44
28	972·3	18.4	1·1	16·6	89	18·9	70	6·7	8	14·8	18·6	22·4	16·9	23·0	14·8	8·2	1·0	15	3·8	30
29	971·0	23·0	5.6	13·4	55	15·4	Calm	Calm	5	15·9	22·5	22·0	17·9	23·2	15·1	8·1	0·0	0	4·9	39
30	971·7	22·3	5·4	13·0	56	15·0	110	6.7	6	16·8	22·1	23·6	17·9	24·0	15·0	9·0	0·1	5	8·7	68
31	969·8	23·4	5·4	14·2	56	16·2	Calm	Calm	7	14·3	23·0	23·3	17·9	24·5	14·3	10·2	0·0	0	6·3	49
Mean ...	971·5	21·0	3·8	14·5	97·6	16·6	—	3·7	5·3	16·2	20·6	21·8	17·5	23·0	15·7	7·3	42.5	585	6·99	56·3
Average	971·0	21·3	3·2	16·2	73·5	18·4	—	4·1	6·5	—	—	—	—	23·4	16·1	7·3	71·8	1221	7·62	61·1
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Excess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	41·5 mbs.	Amount of Rain	—	27·1 mms.
Temperature of the Air	+	3·5 °C	Duration of Bright Sunshine	+	9·9 hrs
Vapour Pressure	+	0·5 mbs	Mean of Maximum Temperatures	+	3·4 °C
Relative Humidity	—	12·1 %	Mean of Minimum Temperatures	+	2·0 °C
Velocity of Wind	+	1·2 mps.	Absolute Maximum Temperature	+	2·2 °C
			Absolute Minimum Temperature	+	1·3 °C

Table VII.—Daily Results of Meteorological Observations made during the month of October, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
OCTOBER	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1012·2	− 0·6	26·6	19·5	7·1	22·2	+ 0·8	2·9	17·5	+ 1·2	75	+ 2	20·0	17·6
2	1012·7	− 0·0	27·1	19·3	7·8	22·3	+ 0·9	3·1	17·3	+ 1·0	73	0	19·8	17·3
3	1012·5	− 0·2	25·8	18·1	7·7	21·9	+ 0·4	2·1	18·6	+ 2·2	81	+ 8	21·4	16·2
4	1013·4	+ 0·8	27·0	19·6	7·4	22·8	+ 1·3	2·8	18·3	+ 1·9	76	+ 3	21·0	17·8
5	1014·3	+ 1·8	26·6	20·2	6·4	22·5	+ 0·9	2·6	18·3	+ 1·9	77	+ 4	21·0	18·0
6	1014·1	+ 1·6	26·6	19·0	7·6	21·9	+ 0·3	3·1	16·9	+ 0·5	73	0	19·2	17·2
7	1013·9	+ 1·5	25·8	18·3	7·5	21·4	− 0·3	3·5	15·6	− 0·9	69	− 4	17·7	16·5
8	1013·1	+ 0·8	26·3	18·6	7·7	22·0	+ 0·3	4·6	14·2	− 2·3	61	− 12	16·2	16·7
9	1013·2	+ 1·0	25·3	18·9	6·4	21·5	− 0·3	3·3	16·0	− 0·6	71	− 2	18·2	16·9
10	1012·5	+ 0·4	25·3	18·1	7·2	21·6	− 0·2	4·6	13·7	− 2·9	61	− 12	15·7	16·2
11	1011·6	− 0·4	24·6	18·0	6·6	20·8	− 1·0	3·3	15·3	− 1·3	71	− 1	17·4	16·0
12	1011·1	− 0·9	25·8	17·6	8·2	21·7	− 0·2	3·8	15·4	− 1·3	67	− 5	17·5	15·8
13	1010·1	− 1·8	26·6	16·8	9·8	22·2	+ 0·3	3·7	16·1	− 0·6	68	− 4	18·3	14·9
14	1009·5	− 2·3	27·4	15·7	11·7	21·2	− 0·8	3·0	16·3	− 0·5	73	+ 1	18·5	13·2
15	1009·8	− 1·9	27·9	16·7	11·2	22·0	0·0	3·3	16·6	− 0·2	72	0	18·9	13·7
16	1010·5	− 1·1	27·3	17·3	10·0	22·3	+ 0·2	4·0	15·7	− 1·2	66	− 6	17·8	14·0
17	1010·9	− 0·6	26·7	18·3	8·4	22·1	0·0	4·3	14·9	− 2·0	64	− 8	16·9	15·0
18	1012·0	+ 0·6	26·5	18·6	7·9	22·4	+ 0·2	4·0	15·8	− 1·2	66	− 6	17·9	15·4
19	1012·3	+ 0·9	27·4	17·2	10·2	22·3	+ 0·6	3·9	15·9	− 1·1	67	− 5	18·1	15·6
20	1013·4	+ 2·1	27·5	16·1	11·4	21·7	− 0·6	3·8	15·4	− 1·6	67	− 5	17·5	14·2
21	1014·0	+ 2·7	25·8	17·2	8·6	21·3	− 1·0	2·5	17·2	+ 0·1	78	+ 6	19·6	14·6
22	1012·7	+ 1·5	25·7	16·9	8·8	21·7	− 0·7	4·7	13·6	− 3·6	60	− 12	15·6	14·5
23	1011·1	0·0	26·6	19·1	7·5	22·7	+ 0·2	5·2	13·8	− 3·6	57	− 15	15·8	17·2
24	1011·7	+ 0·6	25·8	16·6	9·2	22·0	− 0·5	4·7	14·0	− 3·4	61	− 11	16·0	15·0
25	1013·6	+ 2·6	27·0	14·2	12·8	20·8	− 1·8	3·1	15·7	− 1·6	72	0	17·8	12·3
26	1014·7	+ 3·8	27·0	19·0	8·0	22·2	− 0·4	6·0	11·6	− 5·7	51	− 21	13·7	17·0
27	1014·0	+ 3·2	25·7	17·9	7·8	21·8	− 0·9	5·6	11·9	− 5·5	53	− 19	13·9	16·0
28	1011·6	+ 1·9	27·0	16·6	10·4	21·1	− 1·6	3·9	14·5	− 2·9	66	− 6	16·5	14·2
29	1011·7	+ 1·0	25·4	17·0	8·4	21·2	− 1·6	3·3	15·7	− 1·8	71	− 1	17·8	15·0
30	1011·0	+ 0·4	26·7	16·1	10·6	21·3	− 1·5	3·0	16·4	− 1·1	74	+ 2	18·7	14·2
31	1009·7	− 0.9	26·6	15·6	9·0	21·8	− 1·1	3·5	16·1	− 1·4	70	− 2	18·3	13·8
Mean	1012·3	+ 0·6	26·4	17·7	8·7	21·8	− 0·3	3·7	15·6	− 1·3	68·1	− 4·2	17·8	15·6
Average	1011·7	—	26·8	18·0	8·8	22·1	—	3·3	16·9	—	72·3	—	19·2	14·9
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of October, 1949

Pressure was mainly above normal, appreciably above on the 26th and 27th and +0·6 mb. in the mean. Mean temperature was slightly below normal and sunhine was 11% below. For the fourth successive month rainfall was less than half the average, being only 15·4mm. or 38% It was well distributed.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of October, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
OCTOBER	mms.	mins.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	0·7	35	5·1	5·9	48	4·4	+ 0·8	24·1	23·3	23·4	24·7
2	0·0	—	5·6	10·8	88	3·9	+ 0·3	24·1	23·4	23·4	24·7
3	0·0	—	6·6	5·0	41	3·9	+ 0·3	24·1	23·3	23·4	24·9
4	0·0	—	5·8	9·3	76	4·0	+ 0·4	24·1	23·4	23·4	24·8
5	2·4	45	6·6	10·5	85	4·9	+ 1·3	24·1	23·3	23·5	25·0
6	1·6	50	7·2	8·4	68	4·8	+ 1·2	24·1	23·3	23·5	25·0
7	1·7	50	7·6	8·3	67	4·8	+ 1·3	24·1	23·2	23·5	25·0
8	0·1	5	6·6	10·6	86	4·4	+ 0·9	24·1	23·1	23·6	25·0
9	1·5	40	3·2	6·7	54	5·0	+ 1·5	24·1	23·2	23·6	24·9
10	0·0	—	7·8	10·0	81	4·9	+ 1·4	24·0	23·2	23·5	24·5
11	2·8	115	6·1	4·4	35	4·5	+ 1·0	24·0	23·1	23·5	24·7
12	0·8	45	5·9	10·8	87	3·1	− 0·4	24·0	23·2	23·5	24·5
13	0·0	—	6·8	7·7	62	2·3	− 1·2	24·0	23·1	23·4	24·6
14	0·0	—	6·4	4·1	33	1·8	− 1·7	24·0	23·1	23·5	24·8
15	0·0	—	4·6	6·5	52	2·3	− 1·2	24·0	23·1	23·5	24·7
16	0·0	—	6·1	6·6	53	2·5	− 0·9	24·1	23·0	23·6	24·6
17	0·0	—	7·6	4·5	36	2·9	− 0·5	24·0	23·9	23·6	25·0
18	0·0	—	6·1	10·2	82	3·1	− 0·3	24·0	23·9	23·7	24·7
19	0·0	—	6.1	10·4	82	2·8	− 0·6	24·0	22·8	23·7	24·9
20	0·0	—	7·6	9·9	79	3·1	− 0·3	24·0	22·8	23·8	25·1
21	2·5	55	7·3	7·8	62	4·3	+ 0·9	24·0	22·8	23·8	24·9
22	0·0	—	6·2	7·2	57	3·4	0·0	24·0	22·7	23·8	24·8
23	0·0	—	8·6	7·2	57	2·8	− 0·6	24·0	22·7	23·9	24·7
24	0·0	—	7·0	0·5	4	1·9	− 1·5	24·0	22·9	23·9	25·5
25	0·6	35	5·5	7·6	60	4·1	+ 0·7	24·0	23·0	24·3	25·1
26	0·0	—	6·6	11·4	90	4·9	+ 1.5	24·0	22·9	23·9	25·0
27	0·0	—	7·6	5·0	39	3·8	+ 0·4	24·0	22·8	23·9	25·4
28	0·6	10	7·7	6·6	52	2·8	− 0·6	24·0	22·7	23·9	25·0
29	0·0	—	7·2	2·6	20	2·1	− 1·3	24·0	22·5	24·0	25·1
30	0·1	10	3·9	5·7	44	3·3	− 0·1	24·1	23·1	23·9	24·6
31	0·0	—	7·5	4·3	34	2·9	− 0·5	24·2	23·6	23·9	24·8
Mean	15·4 Sum	495	6·5	7·31	58·5	3·54	+ 0·07	24·04	23·05	23·67	24·87
Average	40·4	770	5·9	8·18	65·5	3·47	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of October, 1949

Element	*Highest*		*Date*	*Lowest*		*Date*
Atmospheric Pressure	1016·0 mbs	at 09.00 hrs.	on 26th	1007·9 mbs	at 15.16 hrs.	on 31st
Temperature of the Air	27·9 °C	,, 12.00 hrs.	,, 15th	14·2 °C	,, 06.40 hrs.	,, 25th
Daily range of temperature of the Air ...	12·8 °C	,, —	,, 25th	6·4 °C	,, —	,, 5th & 9th
Temperature of the Dew Point	—	—	—	—	,, —	,, —
Daily range of temperature of the Dew Point...	—	—	—	—	,, —	,, —
Minimum on Grass	—	—	—	12·3 °C	,, —	,, 25th
Relative Humidity	—	—	—	—	,, —	,, —
Vapour Pressure	—	—	—	—	,, —	,, —
Evaporation in 24 hours	8·6 mms	,, —	,, 23rd	3·2 mms	,, —	,, 9th
Wind Velocity	8.7 m.p.s.	,, 15.00 hrs.	,, 5th	—	,, —	—
Rainfall in 24 hours	2·9 mms ending	01.00 hrs.	,, 6th	—	,, —	—
Duration of sunshine	11·4 hrs.	—	,, 26th	0·5 hr.	,, —	,, 24th

Mean Day Temperature of Air 24·10°C Average 24·60°C Mean Night Temperature of Air 19·56°C Average 19·77°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunderstorm
6	6	—	—	—	—	—	—	—

Table VIII.—Barogram

OCTOBER 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	123	128	131	133	147	149	148	141	139	139	127	125	113	096	095	107	Midnight
1h	119	127	126	128	142	147	148	136	135	134	123	123	107	094	092	105	1h
2	111	125	124	125	138	143	146	124	128	129	122	116	105	092	089	103	2
3	107	125	125	124	132	138	143	127	126	127	118	111	100	089	088	101	3
4	107	125	124	124	137	138	142	127	127	128	118	112	100	091	090	102	4
5	112	126	127	125	137	138	140	127	127	131	120	111	103	096	097	105	5
6	116	128	127	126	143	142	143	128	129	133	124	115	105	101	104	107	6
7	122	135	130	129	147	146	144	134	134	135	125	119	107	104	107	111	7
8	124	139	134	138	150	148	145	137	137	136	125	123	110	105	109	112	8
9	127	139	134	139	154	152	147	139	143	136	126	125	110	105	109	115	9
10	131	138	129	140	149	149	147	137	140	133	122	123	109	105	106	110	10
11	128	133	125	136	147	146	144	133	133	128	113	112	106	099	099	107	11
Noon	123	125	119	129	144	145	136	127	129	126	107	107	097	097	090	102	Noon
13h	117	119	113	125	137	137	127	125	129	120	102	105	088	090	089	094	13h
14	113	114	107	123	132	132	124	120	125	111	096	096	085	086	086	088	14
15	111	108	106	123	128	127	121	119	121	106	094	089	084	084	085	093	15
16	117	108	107	125	129	127	122	120	120	107	095	091	085	083	085	095	16
17	118	109	114	127	136	128	125	125	124	108	103	095	088	083	086	097	17
18	125	118	124	135	143	132	129	127	126	115	106	103	094	085	095	101	18
19	128	126	126	145	146	139	137	131	133	119	114	106	103	086	104	107	19
20	136	130	130	147	149	145	144	138	137	125	120	111	105	096	107	110	20
21	139	137	138	151	158	147	146	145	141	127	125	118	107	099	110	116	21
22	138	137	138	151	155	148	145	145	145	127	126	119	107	105	114	118	22
23	133	136	135	149	153	148	144	144	144	129	126	117	105	103	114	117	23

OCTOBER 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	109	120	129	136	145	147	125	118	133	149	153	138	129	124	111	1012·9	Midnight
1h	107	118	126	133	138	145	121	113	127	147	147	133	125	114	107	1012·5	1h
2	106	115	123	127	135	137	117	112	127	145	145	129	119	109	105	1012·2	2
3	104	109	119	127	131	133	113	108	127	143	143	128	116	108	103	1011·9	3
4	105	108	120	128	131	134	109	107	127	145	144	127	116	108	104	1012·0	4
5	107	113	124	130	133	134	112	108	129	146	144	128	116	108	105	1012·1	5
6	113	121	126	139	137	135	114	114	137	150	145	135	120	113	106	1012·5	6
7	119	125	128	145	144	136	118	118	141	156	145	136	124	124	107	1012·9	7
8	121	126	128	146	147	142	120	121	143	156	146	136	125	122	106	1013·1	8
9	123	127	132	147	149	144	124	125	145	160	148	136	126	123	106	1013·3	9
10	118	127	127	145	147	139	118	125	144	153	148	135	120	121	105	1013·0	10
11	110	125	125	138	145	131	112	118	136	147	145	127	115	108	103	1012·5	11
Noon	107	121	121	133	143	125	105	113	133	145	139	125	109	107	096	1012.0	Noon
13h	099	118	114	126	137	117	101	109	128	137	132	118	106	101	087	1011·4	13h
14	094	110	106	119	127	109	095	107	125	133	127	111	106	094	084	1010·9	14
15	091	107	105	116	126	107	090	105	126	127	124	107	105	087	079	1010·6	15
16	092	107	104	111	125	106	093	105	127	131	125	107	105	091	079	1010·7	16
17	095	108	106	118	127	107	097	107	130	139	127	108	105	096	084	1011·0	17
18	104	115	113	126	136	113	103	116	136	144	129	115	107	104	086	1011·6	18
19	108	124	124	134	144	121	107	123	140	148	134	125	113	109	091	1012·2	19
20	118	127	129	144	147	125	113	126	146	153	142	127	124	117	097	1012·8	20
21	124	133	137	147	152	127	117	130	149	158	145	128	127	122	097	1013·2	21
22	125	134	139	147	153	128	124	134	150	158	146	133	129	124	098	1013·4	22
23	124	135	138	146	149	127	118	134	151	156	145	132	127	120	094	1013·2	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder

OCTOBER 1949

Day / Hour Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	15	17	0	0	5	5	5	30	0	5	0	30	35	35	0	0	0	10	15	0	0	0	0	0	45	28	0	5	60	0	35	6·3
8	60	60	15	60	55	20	10	60	0	50	15	60	60	60	55	0	10	60	60	35	0	15	10	0	60	60	30	60	60	32	60	19·9
9	60	60	35	60	60	60	55	60	5	50	20	60	50	60	60	15	40	60	60	60	5	25	0	0	55	60	30	32	60	60	50	22·8
10	60	60	25	60	60	60	45	60	45	45	35	60	35	35	60	20	55	60	60	50	20	50	40	5	60	60	60	5	60	60	35	24·1
11	60	60	25	60	60	25	55	60	60	50	10	60	58	5	60	40	60	60	60	60	15	50	15	0	45	60	15	0	40	40	20	21·5
Noon	60	60	25	60	60	35	40	60	60	60	20	60	60	0	55	60	60	15	60	60	10	40	20	0	30	60	30	35	5	45	45	21·5
13h	60	60	10	60	60	45	55	60	35	40	60	60	30	5	30	60	60	30	55	60	5	50	60	5	35	60	60	60	5	40	0	21·9
14	60	60	15	17	60	50	55	60	45	35	60	30	35	0	60	32	60	35	55	60	15	60	50	0	12	60	35	12	0	40	5	19·5
15	20	15	25	15	60	42	30	60	60	50	60	0	35	0	60	5	60	10	60	60	50	45	60	0	17	60	15	5	5	25	50	17·5
16	42	60	30	47	60	48	35	60	60	10	50	0	30	0	60	35	35	20	15	60	20	60	55	15	15	60	25	5	0	60	10	18·0
17	17	60	5	30	60	60	10	40	60	5	30	0	60	0	45	0	35	15	20	60	15	60	10	0	10	60	10	0	0	60	20	14·3
18	0	15	0	0	25	20	0	25	35	15	0	0	40	0	0	0	55	10	15	60	5	40	0	0	0	60	25	10	0	60	45	9·3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

The Total Amount of Registered Sunshine was 216 6 hrs., and the Total Possible Sunshine was 387·8 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

OCTOBER 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	4	0	0	0·2
7	35	13	10	36	6	0	4	23	0	3	0	47	37	60	50	0	8	60	60	8	5	0	14	0	60	35	0	21	40	0	56	11·5
8	60	55	31	60	48	32	47	48	57	14	58	60	60	60	60	6	60	60	60	60	56	0	44	0	60	60	14	30	28	10	60	22·6
9	60	60	60	60	50	50	48	60	25	60	50	60	54	60	60	60	50	60	60	60	34	0	47	0	60	60	30	22	57	14	60	24·9
10	60	60	60	60	60	45	50	60	54	60	17	60	12	48	60	60	20	60	35	48	33	2	0	0	60	60	5	9	24	43	44	21·2
11	43	60	40	60	60	60	55	60	40	60	9	60	8	7	60	60	16	60	45	55	57	57	55	0	55	60	40	14	0	48	10	21·9
Noon	43	60	36	60	60	60	50	60	44	60	50	60	17	0	60	60	2	20	60	60	20	60	20	0	55	60	45	58	0	4	0	20·7
13h	24	60	39	60	60	53	60	55	25	55	0	60	49	13	15	10	16	20	60	55	36	60	43	9	20	60	60	45	2	4	2	18·8
14	21	60	0	60	60	60	60	60	13	60	6	60	60	0	6	26	24	30	60	60	40	55	25	0	15	60	60	60	0	25	2	18·8
15	3	60	15	12	60	60	60	60	16	60	18	60	60	0	18	25	4	60	60	60	58	40	54	0	8	60	35	60	0	58	0	19·1
16	4	60	8	22	60	60	39	60	48	60	22	58	45	0	0	60	1	60	60	60	45	35	25	0	10	60	4	44	0	60	2	17·9
17	0	60	0	45	60	21	24	60	45	58	35	37	45	0	2	5	45	60	50	45	60	60	58	0	34	60	4	3	0	50	0	17·1
18	0	42	0	20	46	4	0	30	36	48	0	25	16	0	0	24	21	58	15	25	25	60	44	18	21	50	3	28	0	24	20	11·7
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0·1

The Total Amount of Registered Sunshine was 226·5 hrs. and the Total Possible Sunshine was 387.6 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

OCTOBER 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	20·4	1·9	21·0	0·7	18·5	0·8	20·8	0·7	21·1	0·8	2·00	0·5	20·3	2·8	20·5	3·7	Midnight
1h	20·7	2·4	20·1	0·6	18·2	0·8	20·2	0·6	21·0	0·7	19·8	0·6	19·8	2·8	19·8	3·2	1h
2	19·9	1·9	19·7	0·7	18·5	0·8	19·8	0·7	21·1	0·7	19·4	0·7	19·3	2·7	20·0	3·3	2
3	19·7	1·8	19·3	0·6	18·4	0·8	19·7	0·7	21·1	0·7	19·8	0·8	18·5	2·1	20·3	3·7	3
4	19·8	1·8	19·7	0·6	18·6	0·8	19·7	0·7	20·6	0·6	19·6	0·8	18·3	2·0	19·1	2·8	4
5	19·9	2·0	19·4	0·7	19·0	0·7	19·7	0·7	20·9	0·9	19·2	0·8	18·3	1·8	18·6	2·5	5
6	20·0	2·0	19·6	0·6	19·2	0·6	19·9	0·7	20·8	0·8	20·0	1·0	19·0	1·6	18·9	2·6	6
7	21·5	2·5	22·1	2·9	21·9	0·7	22·0	2·6	21·4	0·7	20·2	0·6	22·2	3·7	21·1	3·6	7
8	23·6	4·0	23·4	4·0	22·0	1·0	23·6	4·1	22·3	0·7	22·2	2·2	20·8	2·0	22·9	5·4	8
9	24·4	4·9	24·8	5·5	2·41	3·9	25·0	5·3	24·0	5·0	23·1	4·0	22·8	3·8	24·1	6·2	9
10	25·5	5·5	25·2	6·3	24·5	4·5	26·0	6·1	25·0	5·5	24·1	5·2	21·7	2·7	24·6	7·3	10
11	25·0	4·8	25·0	6·8	24·7	4·9	26·0	6·0	25·4	6·1	24·5	5·6	25·0	5·9	25·4	7·8	11
Noon	25·5	5·4	25·9	6·6	24·6	4·4	27·0	6·9	28·8	6·7	25·6	6·3	23·7	4·3	25·8	8·0	Noon
13h	25·7	5·4	26·1	6·9	24·0	3·4	26·1	5·9	25·9	6·8	25·8	6·3	24·7	5·5	25·7	7·9	13h
14	25·2	5·2	25·8	6·8	24·2	4·3	26·2	6·2	25·8	6·4	25·0	6·3	24·8	6·0	26·3	9·3	14
15	23·9	3·7	25·7	7·1	24·3	4·5	25·3	5·4	25·4	6·5	24·9	5·8	22·0	3·4	25·4	7·5	15
16	21·6	2·1	25·0	6·3	24·0	4·7	24·7	4·9	24·7	4·7	24·5	5·7	23·0	4·5	24·5	6·2	16
17	22.4	2·5	23·9	4·6	23·5	3·1	23·7	3·4	23·8	2·9	22·7	4·3	22·1	3·9	23·5	5·5	17
18	21.7	2·3	22·1	2·4	22·6	0·9	22·6	1·0	22·1	1·2	21·9	3·4	21·9	4·1	22·1	4·1	18
19	21·5	2·6	21·1	0·8	21·9	0·8	22·2	0·6	21·1	0·7	21·2	3·1	21·3	4·3	20·8	3·2	19
20	21·2	2·1	20·4	0·8	21·8	0·9	22.0	0·6	21·1	0·8	21·1	2·8	20·9	3·4	20·7	3·0	20
21	21·2	1·2	20·0	0·6	22·0	0·9	22·1	0·8	20·6	0·9	21·0	2·7	21·0	3·4	19·8	2·4	21
22	21·3	0·9	19·5	1·0	21·7	0·9	21·6	0·9	20·2	0·8	20·5	2·5	21·0	3·3	19·5	2·0	22
23	21·3	0·9	19·7	0·8	21·4	0·9	21·1	0·8	20·1	0·7	20·2	2·3	21·0	3·7	19·6	1·9	23

OCTOBER 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·8	1·9	20·2	2·2	18·8	2·2	20·3	2·9	19·5	1·6	17·5	1·5	19·4	1·6	20·1	1·8	Midnight
1h	19·9	1·7	19·6	1·8	19·0	2·3	19·0	1·9	19·4	1·7	17·0	1·2	18·3	1·7	19·2	1·7	1h
2	20·0	1·9	20·4	2·7	18·7	2·6	18·9	1·9	19·0	1·4	16·4	1·2	17·8	1·3	19·4	1·6	2
3	19·9	1·9	19·6	2·1	18·7	2·1	18·7	1·7	18·2	1·4	16·0	1·1	17·2	0·4	18·7	1·8	3
4	18·9	1·1	18·1	0·7	18·0	1·3	18·5	1·6	17·1	1·0	15·8	1·1	17·7	1·3	18·0	1·5	4
5	19·3	1·4	18·6	1·3	18·2	1·3	18·0	1·2	17·0	1·2	15·7	1·0	16·8	1·1	18·0	1·4	5
6	19·4	1·4	18·5	1·3	18·2	1·1	18·0	1·2	16·8	1·0	16·6	1·2	17·4	0·8	18·3	1·3	6
7	20·5	2·2	21·0	3·9	20·0	2·7	21·2	3·9	21·8	2·3	21·3	2·9	22·0	2·4	21·3	2·5	7
8	21·5	2·9	22·9	5·9	21·7	3·8	22·4	4·7	23·6	3·9	23·9	4·8	23·8	4·0	23·6	4·6	8
9	22·8	3·8	23·1	6·2	22·1	3·7	23·8	5·7	24·9	4·6	25·8	6·4	25·4	5·5	24·7	5·3	9
10	23·3	4·5	24·5	7·7	22·2	4·2	23·9	5·5	25·3	6·6	26·3	6·7	26·3	6·5	25·3	6·4	10
11	24·1	5·5	25·3	8·4	23·0	5·2	25·3	7·2	25·4	5·4	25·6	5·6	26·4	6·4	26·4	7·7	11
Noon	24·7	6·4	24·7	7·0	23·9	6·1	25·0	6·4	27·9	7·1	25·0	5·0	27·9	7·6	26·3	6·3	Noon
13h	21·9	3·6	24·6	7·2	23·0	5·3	25·0	6·5	28·4	7·7	24·7	5·0	25·4	4·9	27·0	6·8	13h
14	24·2	5·9	24·0	6·4	23·1	5·1	25·0	6·8	26·9	6·8	24·0	4·6	26·1	5·5	26·4	6·7	14
15	24·0	5·7	24·0	6·3	22·0	3·6	25·8	7·0	26·6	7·5	23·6	3·6	24·2	4·6	26·9	7·0	15
16	23·9	5·6	23·5	6·5	22·8	4·4	23·9	5·5	25·9	6·5	23·9	3·5	24·1	4·6	25·9	6·2	16
17	22·7	4·5	22·8	6·5	22·0	3·8	23·8	5·2	24·6	5·3	23·8	3·3	23·8	4·2	24·5	4·9	17
18	21·9	3·8	21·8	5·5	21·4	3·7	22·1	3·8	23·7	4·3	23·0	2·9	23·2	3·8	23·3	4·6	18
19	21·1	3·0	21·2	4·6	21·0	3·4	21·3	3·3	22·6	3·6	22·1	2·4	21·8	2·4	22·3	3·8	19
20	21·1	3·0	21·1	4·5	20·0	2·4	21·0	2·7	21·6	2·7	21·1	2·2	21·8	2·5	21·0	3·1	20
21	20·7	2·6	20·2	4·6	20·1	2·6	20·7	1·2	20·1	2·2	20·0	1·7	20·9	2·3	19·6	2·6	21
22	20·5	2·5	20·7	4·1	20·7	3·2	20·0	1·6	19·2	1·0	20·2	1·7	20·2	2·1	19·8	2·8	22
23	20·4	2·4	19·0	2·4	20·5	3·0	19·9	1·8	18·2	1·8	19·4	1·4	20·3	2·0	19·3	2·7	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

OCTOBER 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·6	2·6	19·6	2·3	19·2	2·2	19·1	1·9	17·4	1·4	19·2	2·0	20·5	3·9	21·5	4·3	Midnight
1h	18·5	2·1	19·1	1·7	19·6	2·6	18·4	1·7	12·2	1·2	20·2	3·0	20·2	3·5	21·1	4·1	1h
2	19·3	2·2	19·4	1·8	19·4	2·3	18·0	1·6	17·3	1·2	19·4	2·4	20·2	3·5	21·0	3·9	2
3	19·0	2·5	19·0	1·8	18·7	2·2	16·8	1·2	17·4	1·1	19·2	2·3	20·3	3·5	20·9	4·2	3
4	18·8	2·5	20·3	2·1	17·8	1·9	16·2	0·7	18·2	1·5	17·8	1·3	20·0	3·0	20·4	3·7	4
5	19·0	2·2	19·6	1·6	17·6	1·6	16·2	0·7	20·2	1·5	17·8	1·3	19·4	2·5	20·4	3·7	5
6	19·3	2·0	19·9	1·6	18·3	1·6	17·1	1·0	20·7	1·2	19·0	2·4	20·4	3·3	20·5	3·2	6
7	22·1	3·8	23·2	3·7	22·8	3·5	22·0	3·1	21·6	1·6	21·1	4·4	23·1	5·5	21·8	4·2	7
8	24·9	6·9	24·9	6·1	24·4	5·0	24·0	5·0	23·0	2·6	22·0	5·3	23·9	6·5	22·9	5·4	8
9	25·3	7·5	24·7	5·8	24·6	5·1	24·4	5·4	22·3	1·9	22·7	5·7	23·6	5·9	22·9	5·0	9
10	25·2	7·3	25·8	6·4	25·0	5·6	25·3	5·7	23·6	3·1	24·1	6·8	24·4	6·7	23·1	5·6	10
11	25·4	7·0	25·8	6·2	26·3	6·7	26·3	6·5	24·0	3·6	24·6	6·8	25·0	6·6	24·5	6·8	11
Noon	25·0	5·9	25·7	5·8	26·7	7·1	26·2	6·5	24·5	4·1	25·0	7·3	25·8	6·8	24·4	6·1	Noon
13h	26·7	7·7	25·0	6·0	26·4	6·6	26·4	6·5	22·9	2·4	24·8	7·1	25·0	6·8	24·8	6·3	13h
14	25·3	6·7	25·8	6·7	26·8	6·8	27·0	7·1	24·2	4·1	24·4	6·3	25·4	7·3	25·0	6·3	14
15	25·3	6·6	25·4	6·2	25·9	6·1	26·5	7·2	23·5	3·5	24·0	6·7	25·0	7·2	25·2	6·3	15
16	24·5	5·8	25·3	6·3	25·3	5·6	25·9	6·6	23·9	4·4	24·1	6·8	24·5	6·9	24·9	6·1	16
17	24·0	5·5	24·4	5·8	24·0	4·5	24·3	5·9	22·6	3·5	23·2	6·1	24·1	7·1	24·4	5·8	17
18	22·1	4·0	23·0	4·1	23·0	4·0	22·8	4·4	21·1	2·6	22·1	5·2	23·1	4·8	23·9	5·8	18
19	21·1	3·3	21·6	3·1	21·4	2·9	21·2	3·5	21·1	2·8	20·3	3·8	22·5	4·1	22·7	5·2	19
20	20·3	2·8	20·8	2·8	21·0	2·6	20·6	2·9	21·1	2·8	20·7	3·8	22·3	4·2	20·3	4·0	20
21	20·1	2·6	20·4	2·6	20·9	2·6	20·0	2·6	21·0	2·7	21·4	4·8	22·2	5·3	18·7	3·2	21
22	19·8	2·4	19·8	2·4	20·0	2·3	19·3	2·4	21·0	3·1	21·1	3·9	22·0	5·1	18·0	2·7	22
23	19·4	2·1	19·6	2·3	19·6	1·9	18·2	2·3	20·1	2·7	21·2	4·6	21·6	3·6	17·7	2·5	23

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Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	16·5	1·7	20·1	3·3	20·2	4·8	17·8	2·6	18·5	2·0	19·0	1·9	17·5	1·6	19·5	2·2	Midnight
1h	15·7	1·1	20·0	3·3	20·3	3·9	17·0	2·3	19·2	2·2	19·0	2·0	16·9	1·8	19·1	2·0	1h
2	15·4	1.0	20·0	3·3	20·6	4·6	17·3	2·1	20·2	2·7	18·0	1·4	16·5	1·6	19·0	1·9	2
3	15·2	1·0	19·0	2·5	20·3	4·4	17·7	1·6	18·9	2·3	17·0	1·4	16·0	1·4	18·7	1·9	3
4	14·9	0·9	19·2	3·1	20·1	4·0	16·6	1·3	18·2	2·0	16·4	1·2	16·1	0·9	18·3	1·6	4
5	14·6	0·9	19·1	3·1	20·7	4·8	17·0	1·1	17·6	1·5	16·4	1·1	16·8	0·8	18·4	1·6	5
6	14·3	0·8	19·3	3·3	21·0	5·6	17·6	1·2	17·7	1·5	17·0	1·0	19·0	1·7	18·8	1·7	6
7	19·4	2·6	21·9	5·6	21·8	5·5	21·0	2·6	22·2	3·2	19·2	1·6	22·6	3·4	21·5	3·0	7
8	23·7	3·7	23·3	6·9	22·8	5·5	22·6	4·3	23·9	4·8	22·0	4·0	24·0	4·6	23·1	4·3	8
9	25·4	6·4	24·4	7·8	23·0	6·0	23·4	4·2	24·0	5·7	23·7	4·9	26·3	7·3	24·1	5·3	9
10	25·5	6·5	25·0	8·0	23·4	6·6	21·7	2·5	23·8	5·2	25·6	6·5	25·7	6·1	24·5	5·7	10
11	26·7	7·1	25·3	8·0	24·2	7·3	25·0	5·6	23·2	4·5	25·2	5·9	25·6	5·7	25·2	6·3	11
Noon	25·7	5·7	25·9	8·2	24·7	7·7	25·6	6·6	24·4	5·7	24·4	4·9	26·0	6·4	25·5	6·3	Noon
13h	25·8	5·8	25·9	8·2	25·0	8·2	26·1	7·3	24·1	5·5	26·7	7·1	25·5	5·8	25·3	6·2	13h
14	25·1	5·1	25·5	8·0	25·0	7·7	26·3	8·0	23·6	4·9	25·7	6·0	25·0	5·0	25·3	6·3	14
15	23·2	4·5	24·7	7·5	24·0	6·9	25·7	7·4	23·5	4·7	25·6	5·8	25·1	5·5	24·7	5·8	15
16	22·3	3·9	24·2	7·1	23·7	6·9	24·4	7·0	23·0	4·0	24·9	4·9	24·3	4·4	24·2	5·4	16
17	21·7	3·5	23·0	6·0	22·9	6·8	23·7	6·5	22·0	3·2	23·5	3·1	23·9	4·5	23·4	4·7	17
18	21·9	3·7	21·8	5·3	22·1	5·5	22·4	5·2	22·0	3·3	22·1	1·6	23·1	3·5	22·4	3·7	18
19	21·8	3·7	20·7	4·8	21·4	5·5	20·9	4·3	19·9	2·4	21·3	0·8	22·7	3·2	21·5	3·1	19
20	20·8	3·1	20·3	4·3	20·2	5·1	19·9	3·5	19·3	2·0	21·7	1·4	21·6	2·6	20·9	2·8	20
21	20·4	3·1	20·5	4·4	19·4	4·5	18·3	2·4	20·0	2·3	20·4	1·3	20·9	2·0	20·5	2·6	21
22	20·4	3·3	21·0	4·3	19·1	4·0	18·3	2·3	20·0	2·4	19·4	1·5	20·2	1·8	20·2	2·5	22
23	20·2	3·3	21·3	5·3	18·6	3·4	18·8	2·3	19·2	2·2	18·2	1·6	19·9	1·7	19·8	2·3	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during October, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

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Day	1		2		3		4		5		6		7		8		9		10		11		12		13 *		14 *		15 *		16 *	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	09	3·1	08	3·5	10	1·4	08	2·8	08	5·0	10	2·8	10	3·7	09	4·1	12	3·6	09	4·1	12	2·3	09	4·1	06	1·8	13	1·8	14	1·9	11	1·5
1h	09	3·2	09	2·8	10	1·9	08	3·6	08	4·5	10	2·3	10	2·7	11	2·8	11	2·3	09	3·1	12	3·0	09	3·4	12	2·9	12	1·8	14	1·5	11	2·2
2	10	2·6	09	3·3	10	1·7	08	3·6	08	3·7	10	2·5	10	2·3	10	3·6	11	2·8	09	3·8	10	3·2	10	1·9	12	1·4	12	2·3	08	1·2	10	1·6
3	10	4·0	09	3·0	10	1·5	08	4·0	08	3·6	10	2·8	10	2·1	11	3·4	11	3·8	09	3·8	11	3·2	10	2·0	12	2·2	12	1·9	10	1·9	10	1·4
4	10	4·1	09	3·3	10	1·5	08	3·9	09	4·4	09	2·9	10	1·9	11	2·9	11	3·6	09	3·1	11	3·8	12	3·3	12	1·3	12	2·4	10	1·1	10	1·7
5	10	3·2	09	3·7	10	2·1	08	4·3	08	3·4	10	2·4	10	1·7	10	3·9	10	3·9	09	3·1	08	4·3	12	2·3	12	1·5	12	2·2	10	0·9	10	1·7
6	10	4·4	10	2·8	10	2·0	09	3·5	08	4·5	08	3·6	10	3·7	10	3·4	09	4·4	10	2·2	07	2·7	12	2·2	12	2.2	12	2·7	10	1·8	11	1·3
7	10	4·2	10	3·1	07	4·3	09	3·2	08	4·4	10	3·6	10	3·6	11	4·1	08	5·1	10	4·0	11	2·2	11	3·6	12	1·7	12	1·0	10	1·7	12	2·0
8	09	6·3	08	4·9	07	4·3	08	4·0	08	6·0	09	4·3	10	5·1	09	6·7	08	6·2	08	6·5	09	5·6	08	4·2	07	2·1	12	0·9	08	3·0	12	4·4
9	08	5·4	08	6·1	06	6·5	08	5·2	09	6·8	09	6·9	10	6·0	09	6·6	08	6·9	09	6·9	08	5·3	06	4·2	04	1·8	14	1·3	10	3·2	11	4·7
10	08	7·8	08	5·7	05	6·1	07	4·2	08	6·3	09	7·2	06	6·0	09	6·8	10	8·0	08	7·3	08	6·3	06	4·1	04	1·8	r23	2·8	10	2·9	11	4·2
11	07	5·5	07	5·1	05	5·8	06	5·2	08	7·2	10	6·4	09	7·1	09	6·6	10	8·3	09	6·0	07	6·1	06	3·7	31	3·1	22	2·5	08	4·3	07	3·4
Noon	05	5·7	08	5·2	07	5·8	06	3·7	07	6·3	10	6·3	08	7·2	08	6·7	09	7·3	08	6·6	09	6·0	07	4·4	26	3·4	25	2·2	09	4·0	d22	3·4
13h	06	5·7	08	5·3	06	5·6	07	3·8	09	6·4	10	6·9	09	6·4	11	5·6	11	6·2	08	6·7	09	6·6	06	3·8	20	3·5	26	1·8	d19	2·7	25	3·1
14	07	5·0	05	4·6	06	5·4	08	5·2	10	5·1	08	6·8	09	8·4	10	5·8	09	5·8	08	7·1	09	6·0	06	4·4	26	3·6	21	1·8	18	2·9	23	3·1
15	09	4·7	06	5·2	08	5·4	06	4·2	09	8·7	08	6·7	08	7·0	10	5·8	10	5·5	08	5·5	10	5·6	06	4·2	25	3·3	22	2·4	11	3·1	23	4·0
16	10	3·9	09	5·4	06	4·6	06	3·9	10	6·1	09	6·7	09	6·3	10	5·7	08	5·9	09	7·1	08	6·0	06	4·0	25	3·6	23	1·9	06	3·1	24	3·1
17	07	4·2	09	4·8	07	4·5	09	4·5	08	6·5	C8	5·9	10	6·2	10	5·2	09	5·8	10	6·2	11	4·6	06	3·9	25	3·1	23	1·8	d14	2·4	26	1·7
18	06	3·2	10	3·3	07	4·3	08	4·2	09	5·3	10	6·4	10	5·7	10	4·8	08	4·8	09	5·1	08	4·4	06	2·8	24	2·2	21	1·0	13	2·8	d10	2·2
19	07	4·0	11	1·8	08	4·0	10	3·8	10	3·7	09	5·2	11	4·3	11	2·3	08	4·2	09	4·3	11	4·2	07	1·4	18	2·0	21	1·7	10	1·8	11	2·5
20	08	3·6	10	3·3	08	3·2	09	3·7	10	2·8	09	5·4	11	3·7	12	3·1	08	4·0	08	4·2	08	4·8	08	1·9	16	1·5	21	0·6	11	1·5	12	1·6
21	08	4·0	10	2·5	08	3·5	08	4·1	11	2·8	10	4·0	11	3·7	10	3·6	10	4·4	09	3·5	08	3·3	12	2·4	16	1·4	21	0·6	11	1·8	12	1·4
22	08	4·0	10	2·9	08	3·6	09	3·2	11	4·1	10	4·4	10	4·1	12	2·2	10	4·6	08	4·6	08	3·9	13	2·7	15	2·6	r12	2·0	11	1·8	12	1·8
23	08	3·0	10	2·1	08	4·3	10	4·1	10	1·2	10	4·0	08	4·8	12	1·3	09	3·5	11	3·2	09	3·6	12	1·7	12	1·9	12	1·3	11	1·2	14	1·9

OCTOBER 1949—*continued*

Day	17		18		19		20		21		22		23		24 *		25		26		27		28		29 *		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	14	2·5	11	2·2	10	1·3	12	2·3	10	0·6	08	2·2	09	1·8	10	1·2	14	2·2	11	3·9	12	3·1	09	1·6	12	3·3	11	1·6	10	2·3	2·6
1h	13	2·1	11	2·5	10	2·7	11	2·3	10	0·7	08	3·1	09	1·3	12	1·1	14	2·3	11	3·3	12	3·1	09	1·8	11	2·1	11	1·9	10	1·7	2·4
2	13	1·6	11	2·4	11	2·5	12	2·7	10	0·7	08	2·0	08	1·8	12	1·1	14	2·6	12	3·7	10	3·1	09	1·8	11	1·7	11	1·7	10	1·5	2·3
3	13	2·0	12	1·7	11	2·1	12	2·2	10	0·7	08	1·8	11	2·4	14	1·3	14	2·3	12	3·7	10	2·3	09	1·6	12	1·8	11	2·2	10	1·7	2·4
4	13	3·3	12	2·2	11	1·8	12	1·5	10	0·8	08	1·9	11	2·9	14	2·1	14	1·4	11	3·4	10	2·2	09	1·5	12	2·2	11	2·3	10	1·4	2·5
5	13	1·8	12	2·3	11	2·3	12	2·6	10	1·8	08	2·0	11	1·8	14	2·2	14	1·4	12	3·4	10	3·1	09	2·4	11	2·3	11	2·1	11	1·5	2·5
6	13	1·2	12	2·8	11	1·8	12	1·8	10	4·5	08	2·3	11	2·0	16	1·4	14	1·7	12	3·2	09	3·7	09	2·1	11	1·6	10	2·0	10	1·8	2·6
7	13	1·9	10	3·2	11	1·9	11	2·9	09	5·2	06	3·9	07	3·1	14	1·1	14	1·4	11	3·8	10	4·7	09	2·7	11	1·8	10	2·8	10	1·7	3·0
8	12	3·3	10	4·1	09	3·6	10	3·7	10	5·0	08	4·5	08	3·5	12	1·9	09	5·5	10	4·9	11	5·6	10	2·7	10	2·9	14	2·6	10	5·5	4·3
9	10	3·7	10	3·4	06	3·4	08	4·0	10	5·9	06	5·0	07	4·1	10	3·3	09	4·8	12	6·3	09	6·4	09	4·9	07	2·3	10	4·3	10	4·0	4·8
10	06	3·2	09	3·8	08	3·2	08	4·4	08	6·2	06	5·9	06	4·1	11	2·5	11	4·9	11	6·7	08	5·6	08	3·5	07	2·7	11	4·4	09	4·4	4·9
11	11	4·0	08	4·3	06	4·1	10	4·4	11	5·5	05	5·8	07	5·0	08	2·4	08	5·4	10	7·0	09	5·0	10	4·2	12	1·9	10	4·7	11	3·4	5·0
Noon	10	4·2	06	4·5	06	4·4	10	4·3	11	6·1	07	4·6	05	4·4	08	2·5	12	5·4	11	7·3	08	4·9	06	4·4	09	1·9	11	4·4	09	3·8	4·9
13h	09	4·6	07	5·0	07	4·3	08	5·3	10	7·1	08	4·9	07	3·9	10	3·2	10	4·9	09	7·3	07	4·6	06	3·7	09	2·6	12	4·4	09	4·3	4·8
14	11	3·8	08	4·1	07	4·4	09	5·8	11	7·2	10	4·5	07	4·1	10	1·5	10	5·6	10	7·1	10	4·8	06	4·9	d19	1·7	09	5·4	08	4·4	4·8
15	10	3·2	07	4·2	06	4·5	11	5·0	09	7·2	08	4·4	06	3·0	r27	2·1	12	5·7	10	7·5	10	5·8	06	4·4	21	2·3	08	5·8	06	3·4	4·8
16	11	4·0	08	4·3	05	3·7	10	5·4	09	6·6	10	4·7	08	3·2	22	2·5	12	6·6	10	6·6	10	4·4	10	3·2	r12	1·0	10	5·7	10	4·1	4.6
17	11	3·4	08	4·2	06	3·2	10	4·4	08	6·6	06	4·3	06	5·5	25	1·7	11	5·9	10	6·8	09	4·3	10	3·1	11	1·6	08	5·7	07	3·5	4.3
18	12	3·5	09	3·2	07	2·8	10	3·1	08	5·3	09	3·9	07	2·3	25	1·6	11	5·1	10	5·4	09	4·6	10	2·1	11	1·8	08	4·4	09	3·7	3·7
19	11	2·0	09	3·1	07	2·2	10	1·8	08	4·0	10	2·6	06	2·9	29	1·0	11	5·8	10	4·2	09	3·5	10	2·1	11	1·7	09	2·9	09	3·2	3·0
20	11	2·3	09	2·0	08	1·8	10	1·4	08	3·5	10	1·6	06	2·4	d06	1·9	11	5·4	10	3·3	09	3·0	11	2·1	11	2·0	10	2·3	10	1·9	2·8
21	11	2·5	09	2·1	11	1·5	11	1·3	08	3·9	08	2·7	07	2·0	10	1·5	11	4·1	10	3·0	09	2·1	11	1·8	12	2·8	10	2·2	10	1·8	2·8
22	11	2·2	09	2·3	12	1·7	11	1·0	08	3·1	08	1·4	09	1·3	10	1·8	11	3·9	10	3·3	09	1·6	11	2·6	12	1·9	11	1·8	10	2·5	2·7
23	11	2·4	09	2·2	12	1·9	11	0·6	08	3·2	09	2·0	10	1·4	10	1·7	12	3·3	10	3·0	09	1·6	11	1·1	12	2·0	10	1·8	10	2·2	2·4

Table XIII.—Wind Frequency (Number of Observations), October, 1949

Hour	Force (0—12)			Directions																
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...	...	31	...	...	...	...	6	10	13	2	...	...	...	...	...	...	...	...
9	...	11	20		...	1	4	15	8	2	1	...	...	...	...	...	...	...	...
15	...	11	20	...		...	7	10	6	3	.	..	...	1	1	2	...	1	...
21	...	...	31	...	...	...	...	10	8	11	...	1	...	1	...	...	...	...	...
Total ...	...	...	...	...	...	1	11	41	32	29	3	1	...	2	1	2	...	1	...

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, October, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...			...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...
2	...	...	.	...	...	...	...	...	.	...	...	...	...	...	...	...	..	...	...	...		...	...	...	...	..	...	...	...	...	...
3	..	...		...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...
4		...	...	...	1·2	0·4	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	...	...	...	...
5	...	...		...	...	0·1		...	0·9	...	0·8	...	...	...	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...
6	...	...	...	...	0·2	0·2	0·1	...	...	...	0·4	...	...	...	...	...	...	.	...	0·1	..	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	0·2	...	0·4		1·1	...	...	...	...	...	.	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...
8	...	..	...	...	...	0·4	0·8	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·1	...
9	..		...	...	...	...	0·4	...	...	..	...		...	...	...	...	...	...	...	0·8	...	.	...	...	...	...	...	...	...	...	...
10	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1·1	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	.		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	.	...	0·1	...	...	...	...	...	...	...	...	...	...	..	...	...		...	...	...	..	...	...	...	...	...	...
13h	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...		...		...	...	...	...	...	...	...	..	0·1		...	...	..	...	...	...	...	...	...	...
15	...	...	...	...	...	..	0·1	...	...		...	...	...	...	..	..	...	.	...	...	...	...	..	...	...	...	...	...	...	...	...
16	0.2	...	...	...	...	...	..	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	0·2	...	...	...	...	...	...	...	. .	..	..	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...
18	0 3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...		...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	0·1	...	...	...	..	...	...	..	...	...	...	...
20	...	...		..	...	...	...		...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
21	.	..	...	...	..	...	...	...	0·2	...	0 1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...
22	...		...	...	...	...	..	0·1	...	...	...	0·5	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	...	...	...	...	...
23		..	...	...	1·0	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...
24	...		...	...	...	...	...	...	...	...		0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Table XIV*b*.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for October, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	...	...	..	...	0·4	...	...	0·2	0·6	...	0·4	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
2	...	...	...	...	0·5	...	...	...	0·6	...	0.5	...	...	...		...	...	...	...	...	...	...	...	...	...	..	...	0·3	...	..	...
3	..	...	.	..	0·9	0·8	...	...	0·6	...	0·8	...	...	...	...		...	1·2	...	...	0·2	...	...	...	...	...	...	0·5	...	...	...
4		...	...	...	..	0·6	...	...	0·1	...	0·6	...	...	...	...	...	.	...	...	...	0·7	...	...	...	...	...	...	..	...	...	...
5		...	...	.	0·7	0·3	...	..	1·9	...	0·5	0·1	...	...	...	...	...	...	...	...	1·3		...	...	...	...	...	...	...	...	...
6	...			...	...	...	...	...	0·1	...	0·5	...	...	...	...	..	...	...	...	...	1·0	...	...	.	...	...	...	...	...	...	...
7		...	..	...	...	...		...	1·5	...	0·2	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	0.1	..
8	...	...	0·6	...	...	...	0·5		3·4	..	0·1	...	...	...	...	...	...		...	...	0·6	...	...	...	...	..	...	...	.	...	...
9		...	.	...	...	...	...	...	0·2	...	0·8	...	...	...	...	..		..	...	...	0·4	...	...	...	...	...	.	0·2	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	0·3	...	...	...	...	...	...	...	...	...	...
11		...		...		...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...		...	...
Noon	...	...	...	...	...	...	0·2	...	...	...	...		...	...	...	...	...	...	...		.	...	...	...	...	...	...	...	...	...	...
13h	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...
14	0·5	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	..	...	...	...	0·4	...	...	...	...	...	...	...	...	...	..
15	...	...		...	...	...	0·1	...	...	...	..	...	..	0·9	...	...	...	...	...		...	...	...	...	0·3	...	..	.	...	...	...
16	...	...	...		...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...			..	...	...	...	0·2	...	...	...	...	...	..	...	...	...	0·4	...	...	...	0·3	...	...	...	.	...	...
18		...	...	0·5	...	...	...	...	...	...	0·3	...	...	0·2	...	...	...	..	...	...	0·1	...	...	...	0·4	...		...	...	...	...
19	.	...	...	...	...	...	...	0·2	...	...	0·3	...	...	...	...	...	...	...	...	...	0·3	...	...	...	0·9	...	...	...	...		...
20	...		...	...	...	0·1	...	...	1·7	...	0·3	...	...	...	...	...	...	...	...	..	0·2	...	...	...	1·3	...	..	...	...	...	...
21	...	...	...	0·1	...	...	...	1·2	...	..	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	0·2	...	...	...	...	...	...
22	...	...	...	0·2	0·3	...	...	0·2	...	..	0 5	...	...	...	...	...		...	...	...	...	...	...	...	0·4	...		...	.	...	...
23	..		...	...	...		...	0·1	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...
24	...	...	...	...	...	...	...	..	...	0·4	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, October, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Fall in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	0·33	8·4	—	7
B. River ...	Pierre Fonds	—	0·28	7·1	1·83	1
	La Ferme	350	0·20	5·1	1·20	3
	Richelieu	—	0·37	9·3	—	6
	Mon Repos (*Palmyre*)	—	0·13	3·3	—	1
	Médine	—	0·24	6·1	—	1
	La Mecque	—	0·15	3·8	—	1
	Albion	—	0·08	2·0	—	1
	Beaux Songes	—	—	—	—	—
	Clarens	—	—	—	—	—
	Mare Longue ...	—	2·77	70·4	—	15
	Mon Désert	—	—	—	—	—
P/mousses	Botanical Gardens ...	325	0·58	14·7	2·09	11
	Solitude ...	175	0·32	8·1	1·18	3
	La Nicolière	—	1·59	40·4	2·07	18
	The Observatory ...	179	0·61	15·4	1·67	12
	California ...	—	—	—	—	—
Rivière du Rempart	Saint Antoine ..	50	0·22	5·6	1·48	7
	Bel Mont	50	0·14	3·6	1·68	3
	Poudre d'Or	20	0·24	6·1	1·74	3
	Mon Loisir S.E. ...	300	0·63	16·0	2·28	6
	Forbach	—	0·39	9·9	2·06	3
	Couroupa	—	0·05	1·2	1·86	1
	Labourdonnais	290	0·20	5·1	2·01	4
	Ravensworth	—	1·72	43·7	—	6
	Beau Séjour	300	0·55	14·0	2·49	6
	Mont Piton	680	0·47	11·9	2·52	3
	Mon Choix	700	0·75	19·1	2·27	5
	Antoinette ...	640	1·33	33·8	2·33	11
	Mon Songe	620	1·52	38·6	2·53	4
Moka ...	Bonne Veine ...	400	3·43	87·1	5·05	12
	Le Réduit	1,000	1·36	34·5	3·75	12
	Côte D'Or	—	1·75	44·5	—	6
	Alma	1,460	3·60	91·4	4·68	15
	Mon Désert	1,450	1·26	32·0	—	8
	Hermitage	—	1·92	48·8	3.66	10
	Béga	—	0·47	11.9	—	6
	Mon Rêve	—	1·47	37·3	—	11
	Mont Pévril	1,150	0·94	23·9	—	11
	Minissy	1,450	1·65	41·9	—	11
Plaines Wilhems	Curepipe Gardens ...	1,840	4·00	101·6	4·64	16
	Aerological Station ...	1,393	1·67	42·5	2·65	17
	Mare-aux-Vacoas (G. End.)	1,850	3·12	79·2	5·87	16
	Mare-aux-Vacoas (Arnaud)	1,830	5·11	129·8	5·79	19
	La Marie	1,700	2·97	75·4	3·60	14
	Réunion	1,420	2·25	57·2	2·97	12
	Phœnix	—	—	—	—	—
	Quatre Bornes ...	—	—	—	—	—
	Bagatelle	1,250	2·05	52·1	2·01	11
	Pétrin	—	3·99	101·3	—	14
	Henrietta	—	1·51	38·4	—	14
	Tamarin-Falls ...	—	1·85	47·0	—	11
	Tamarin	—	0·30	7·6	—	1
	Moon	—	0·72	18·3	—	9
	La Pipe Midlands Dam ...	—	3·68	93·5	—	15
	Highlands	1,300	2·44	62·0	3·25	11
	Trianon	950	—	—	1·86	—
	Bassin	—	0·56	14·2	2·00	7
	Ebène ...	630	1·00	25·4	—	10
Flacq ...	Mare Sèche ..	20	—	—	2·16	—
	Australia	—	0·73	18·5	—	—
	Union Regnard S. E. ..	600	1·34	34·0	2·39	13
	Constance La Gaieté ..	100	0·46	11·7	2·21	4
	Belle Vue Allendy ..	900	0·59	15·0	2·70	5
	Sans Souci ..	20	3·35	85·1	5·51	15
	Beau Champ G.R.S.E. ..	400	1·39	35·3	2·32	14
	Olivia	—	1·56	39·6	4·15	10
	Rich Fund	—	1·31	33·3	—	9
	Trois Ilots	—	1·66	42·2	—	12
	Belle Rive .. .	400	2·77	70·4	5·11	14
G. Port ..	Rose Belle	850	2·47	62·7	6·19	17
	New Grove ...	650	0·65	16·5	—	2
	Union Park	—	2·76	70·1	—	16
	Deux Bras	—	3·34	84·8	—	2
	Mon Trésor ..	—	1·24	31·5	—	5
	Astroea	—	2·33	59·2	—	13
	Union Vale	—	0·83	21·1	—	4
	Mon Désert Carié ...	75	1·34	34·0	2·80	6
	Ferney	20	1·10	27·9	3·50	10
	Beau Vallon ...	—	0·43	10·9	—	3
	Sauve Terre ..	—	1·20	30·5	—	2
Savanne	Tivoli	1,300	2·29	58·2	5·69	11
	Ste. Hélène ..	—	0·61	15·5	—	4
	La Flora	1,050	2·75	69·9	5·28	14
	Riche Bois ...	650	1·94	49·3	4·08	14
	Britannia	700	2·15	54·6	4·35	14
	Savannah	200	1·37	34·8	2·79	8
	Saint Aubin ..	300	1·95	49·5	2·75	10
	Saint-Avold ...	900	2·12	53·8	4·33	13
	Colmar	400	2·40	61·0	3·35	14
	Terracine	—	1·42	36·1	—	10
	Union Sugar Estate ..	—	1·32	33·5	2·31	9
	Fontenelle	320	1·74	44·2	2·92	11
	Choisy	200	—	—	2·30	—
	Combo	—	2·08	52·8	—	12
	Beau Bois	—	2·55	64·8	—	14
	Bel Air	—	—	—	—	—
	Saint Félix	—	—	—	—	—
	Bel Ombre .. .	40	0·98	24·9	2·22	4
	Beau Champ B. du Cap...	—	0·80	20·3	2·15	3
	Frédérica	—	1·13	28·7	2·76	5
	Sainte Marie ...	—	0·78	19·8	—	3
	Beau Climat ..	—	3·31	84·1	—	15
St. Brandon	Met. Station ...	—	0·84	21·3	—	11
Agalega	Met. Station .	—	2·23	56·6	—	17
Rodrigues	Oyster Bay	—	1·17	29·6	—	13
Chagos Archipelago	Salomon Islands Boddam	—	12·88	327·2	—	10

Table XVI.—Observations of Pilot Balloons, month of October, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	Balloons not available																						
2	...	11	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	10	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	12	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	12	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	14	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	13	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	13	02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	09.20	10	19	09	29	07	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Balloons not available																						
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	08.38	13	15	08	09	07	08	09	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Balloons not available																						
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	08.35	10	29	09	27	08	26	07	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	08.18	09	08	08	20	08	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08.38	10	06	08	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.45	12	06	12	20	12	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	07.55	13	18	11	15	10	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	08.37	12	20	10	13	10	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08.40	09	15	06	10	05	08	09	08	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	08.35	09	21	10	10	13	10	05	02	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	09.25	11	12	11	14	10	10	14	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	08.20	11	12	05	06	04	12	07	04	23	10	...	...	...	...	...	...	...	...	...	...	...	...

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VOL. XXXV PART XI

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AUG 17 1953
WEATHER BUREAU

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

NOVEMBER, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY H. F. KELLY, ACTING GOVERNMENT PRINTER, MARCH 1953. 1203/3/53-208

Table I—Results of Magnetical Observations made during the month of November, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination (Unit 1 γ)	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
Nov.	′			′		
1	15°33·2	·22323	—	11·6	178	—
2	34·1	298	—	12·0	103	—
3	·	332	—	—	69	—
4	33·9	343	·30361	12.6	54	33
5	33·1	341	360	13·8	50	28
6	34·1	342	361	10·0	28	23
7	33·9	350	358	13·4	63	30
8	33·4	341	348	14·6	45	68
9	32·6	354	351	13·8	77	37
10	32·6	334	354	16.6	58	37
11	34·0	313	361	12·0	55	10
12	34·0	315	359	9·8	48	27
13	—	—	363	—	—	12
14	—	—	—	—	—	—
15	34·3	327	361	8·0	67	33
16	33·3	327	361	8·8	62	21
17	32·7	346	358	10·6	46	17
18	33·7	355	358	3·2	41	20
19	34·7	344	355	12·8	141	43
20	34·0	281	364	16·2	48	25
21	35·2	297	—	10·9	31	—
22	35·6	316	363	14·2	53	26
23	33·6	342	—	13·0	68	—
24	33·3	327	362	12·6	45	27
25	34·2	337	363	10·0	40	12
26	34·6	345	357	9·0	32	36
27	34·1	337	—	6·8	52	—
28	34·5	342	361	6·2	15	18
29	33·9	323	367	9·2	84	11
30	35·0	294	369	8·2	64	16
31	—	—	—	—	—	—
Mean	15°33′·90	·22330	·30360	11′·11	61·3	26·5

Magnetic Disturbances—November, 1949

1d. Moderately disturbed.
2d. Moderately disturbed.
3d. Slightly disturbed.
5d. Slightly disturbed.
9th Slightly disturbed.
11d. Slightly disturbed.
12d. Slightly disturbed.
15d. Slightly disturbed.
17d. Slightly disturbed.
18d. Slightly disturbed.
19d. Moderately disturbed period starting at 10^h 05^m and ending at 04^h 40 on 20^d. The range was 127γ.
20d. Slightly disturbed.
22d. Slightly disturbed.
23d. Slightly disturbed.
27d. Moderately disturbed.
29d. Slightly disturbed.
30d. Moderately distturbed.

T=·37688: Mean Dip=53°40′30: X=·21511: Y=−·059918: Z=·30360

Table II.—Results of the Absolute Determinations of the Magnetic Elements made during the month of November, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
8 9 44	15 37·63	4 9 34	·22338	8 9 53	53 40·25	·30358
15 9 32	15 37·06	8 9 24	·22356	15 9 40	53 41·13	·30364
22 9 08	15 39·87	11 9 38	·22317	22 9 20	53 39·87	·30363
29 9 54	15 35·13	15 9 12	·22338	29 10 05	53 40·13	·30367
		22 9 43	·22314			
		25 9 22	·22347			
		29 9 35	·22337			

Table III.—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

NOVEMBER 1949

15° +

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	34·0	38.2	36·2	34·2	33 2	34·0	33·9	34·1	33·1	33·9	33·5	34·3	35·2	—	34·0	35·9	Midnight
1h	34·2	37·6	35·6	34 0	33·4	33·2	33·7	33·9	33·0	33·0	33·9	34.2	36·0	—	34·8	35·8	1h
2	34 0	37·0	35·8	33·2	33·6	33·6	33·8	33·7	33·2	33·2	34·0	34.0	34·8	—	34·7	35·7	2
3	34·3	36·4	35·9	34·4	33·8	33·2	33·9	33·8	33·6	33·4	33·2	34·2	34·0	—	34·2	35·6	3
4	34·5	36·0	—	35·2	35·4	32·9	34·4	34·0	34·0	34·0	34·0	3·46	33·0	—	34·0	35·2	4
5	34·8	35·6	—	36 0	35 6	32·0	35 8	34·4	34·2	35·0	33·9	35·6	34·0	—	35·0	36·4	5
6	34·2	35·4	—	37·0	35·8	32·4	38·0	38·0	36·0	36·0	35·4	36·0	33·9	—	35·2	36·0	6
7	35·0	36·0	—	39·4	38·0	36·0	40·8	41·0	39·2	38·4	3·86	37·0	34·8	—	36·8	36·6	7
8	36·0	39·0	—	40·0	40·8	28.0	4·10	41·6	40·0	40·0	39·6	38·0	35·4	—	38·0	36·2	8
9	36·4	38·2	—	39·0	38·0	39·0	39·0	40·0	38·4	39·0	38·0	38·2	34·4	—	37·2	34·4	9
10	34·4	35 4	—	36 0	34 4	39·6	36·0	36·4	35·4	36·0	36·2	37·0	34·2	36·0	36·4	32 8	10
11	32 4	32·0	—	32·4	31·2	39·0	34·2	33·2	31·6	32·0	34·4	34·0	3·39	34·2	35·4	30·6	11
Noon	30·0	30 0	—	29.6	28·6	36·2	31·0	31·2	28·0	26·4	34.0	32·0	32·4	32·2	33·0	29·0	Noon
13h	27·6	27·6	—	27·4	27·0	34·0	28 4	28·0	26·4	23·4	30·0	29·6	31·0	30·0	31·0	27·8	13h
14	26·4	27·0	28·0	27·6	27·4	30·2	27 6	27·0	26·2	24·0	27·6	29·0	30·0	29·9	30·0	29·0	14
15	27·4	28·0	29·6	28·6	27·6	29·6	28·0	27·4	27 0	26·0	27·8	28·4	30·4	29·8	30·6	29·6	15
16	29·0	30·0	31·0	31·0	28·0	31·6	30·0	28·0	27·6	28·0	29·0	29·4	31·0	30.4	32·0	30·4	16
17	31·6	31·8	32·0	33·0	30 0	33·4	32·0	30·2	30·4	31·6	31·6	30·6	32.4	31·6	33·0	32·0	17
18	33·6	32·9	33·0	33·2	32·0	33·8	33·6	32·2	32·0	34·0	34·0	33·8	34·0	32·0	33·2	33·0	18
19	33·8	3·42	33·2	33·6	33 0	33·2	33·2	32·8	32·2	33·2	34·2	34·4	33·6	32·4	33·6	33·2	19
20	34·0	35·6	33·6	33·9	34·0	33 4	33·4	32·4	32·4	33·4	36·0	34 0	33·8	33·0	34·4	33·4	20
21	33·2	34·4	33·8	33·0	34·1	33·0	33 6	32·6	32·6	33·0	35·6	35·2	—	33·8	35·4	33·6	21
22	37·0	35·2	33·9	33·2	34·0	33 2	33·8	33·0	32·8	33·2	35·6	36·0	—	34·0	35·6	34·0	22
23	38·0	36·0	34·2	33·2	34·2	33·4	34 0	33·2	33·0	33·4	34·6	35·0	—	34·2	3·58	34·1	23

NOVEMBER 1949—*continued*

15° +

Day / Hour	17d	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	3·50	34·0	3·39	37 6	34·9	37·4	34·9	35·6	33·9	35·0	34·6	34·9	35·1	38·0	—	34·9	Midnight
1h	352·	34·1	34·2	36 4	35·0	36·4	34·2	35·0	33·8	34·9	34 2	34·8	35·0	35·0	—	34·6	1
2	35·4	34·0	34·6	36·0	35·2	36·0	34·4	34·2	33·7	34·4	34·4	34·6	35·0	36·0	—	34·5	2
3	35·0	33·9	35·6	36·0	35·6	36·4	35·0	34·4	33·8	34·8	34·8	34·9	35·2	35·2	—	34·6	3
4	35.2	34·2	36·0	33·8	36·0	37·0	35·2	34·8	34 0	35·0	35·2	3·50	35·4	35·2	—	34·8	4
5	35·4	34·4	37·4	35·6	37·0	37·6	35·4	35·6	34 4	34·9	35·6	3·56	36·0	36·4	—	35·4	5
6	36·4	34·0	38·8	39 8	37·2	39·8	36·3	36·4	35·0	35·2	35·4	36·4	34·8	37·2	—	36·2	6
7	37·6	35·0	40 8	40·8	38·4	42·0	38·0	37·0	37·2	36·0	36·0	37·6	33·6	37·0	—	37·8	7
8	36·4	35·2	40·2	41·2	39·8	43 0	39·0	38·6	39·6	37·4	36·4	37·0	37·4	36·8	—	38 8	8
9	35·0	35·0	37·6	37·6	39·9	41·2	38·4	38·0	39·0	37·6	37·0	37·2	36·4	37·4	—	37·9	9
10	32·4	34·9	34·2	33·6	38·0	40·0	37·4	36·0	38·0	38·0	35·0	36·0	34·2	36·4	—	35·9	10
11	30 0	34·2	30 4	29·6	34·0	36 0	36·0	34·4	36·4	39·2	34·0	35·6	34·0	35·8	—	33·8	11
Noon	29·0	33·6	29 6	28·0	30·4	32·2	31·0	30·0	34·9	37·6	32·8	34·8	32·6	34·0	—	31·5	Noon
13h	27·6	32·0	28·0	25·0	29·4	2·96	27·0	28·0	31·6	34·2	34·4	33·0	31·6	33·8	—	29·4	13h
14	27·0	32·0	38·0	25·6	29·0	28·8	2·60	26·0	30·0	31·6	30·2	32·0	28·8	32 6	—	28·4	14
15	29·0	33 0	28·4	27·6	29·6	30·4	26·4	26·4	29·6	30·2	30·4	31·4	28·6	30·0	—	28 8	15
16	29·6	34·0	31·8	30 0	32·0	32 0	28 6	28·0	30·8	30·6	31·2	31·6	29·0	29·8	—	30·1	16
17	30·4	35·0	33·6	32·4	34·0	33·6	31·0	31·0	32·4	31·6	31·9	32·0	30·4	34·0	—	32·0	17
18	31·2	33·6	34·0	35·0	35·6	34·0	33 2	33·0	33·0	33·4	32·9	32·8	32·0	34·8	—	33·3	18
19	31·6	32·0	34 8	35 6	36·0	33 9	33·4	33·2	33·6	33·0	33·8	33·6	33·6	35·2	—	33·6	19
20	32·0	32·2	37·4	35·0	36·0	34·2	33·6	33·2	33 2	33·2	34 0	33·8	33·8	34·0	—	33·9	20
21	32·4	32·4	37·2	35·2	36·2	34·2	33·8	33·8	33·4	33·6	34·6	34·0	35·6	36·4	—	34·1	21
22	33·0	32·6	37·2	35 3	37 2	35·2	33·9	33·4	34 0	34·0	34·8	34·8	36·4	34·4	—	34·5	22
23	33·2	33·8	37·0	35·0	37·8	35·0	34 8	33·6	34·8	34·4	34·4	35·0	37·8	35·0	—	34·8	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

NOVEMBER 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	345	234	293	324	340	337	346	324	331	330	332	320	311	—	321	290	Midnight
1h	348	260	312	340	344	336	350	328	332	330	325	329	317	—	322	299	1h
2	349	280	322	352	349	334	351	331	334	331	320	338	308	—	317	300	2
3	348	289	330	340	351	331	349	335	338	338	325	337	311	—	318	318	3
4	352	295	338	334	354	340	352	334	342	337	332	323	314	—	329	321	4
5	352	302	332	340	355	350	347	325	345	339	344	319	315	—	328	317	5
6	353	310	327	338	352	351	346	336	340	330	337	317	311	—	326	320	6
7	354	317	328	337	348	354	337	331	331	332	336	322	312	—	332	334	7
8	365	323	329	336	352	357	324	340	332	338	332	329	313	—	331	338	8
9	385	330	325	325	359	345	340	360	360	340	320	334	320	—	335	342	9
10	387	322	329	349	358	340	358	369	380	352	310	324	330	360	344	349	10
11	383	330	332	368	357	339	365	365	408	368	294	327	329	359	354	352	11
Noon	382	337	352	378	355	338	370	362	394	360	292	318	333	355	359	348	Noon
13h	370	331	362	373	359	344	386	369	393	350	290	310	329	338	358	342	13h
14	378	313	361	367	348	349	387	363	387	332	292	300	327	320	350	330	14
15	354	307	344	358	338	343	380	350	385	328	289	302	320	319	343	329	15
16	325	298	338	340	330	339	352	340	380	324	298	300	314	312	330	328	16
17	290	289	334	327	317	330	338	333	360	320	307	299	308	314	329	322	17
18	250	262	325	328	322	329	337	332	349	310	308	302	300	308	329	320	18
19	239	260	322	334	309	335	338	334	342	313	300	301	—	297	324	323	19
20	249	287	326	327	318	347	336	333	340	334	297	311	—	290	312	325	20
21	215	289	327	338	314	348	337	332	333	328	320	305	—	304	297	327	21
22	209	283	328	332	319	347	338	332	335	329	310	290	—	313	292	331	22
23	217	281	328	338	328	345	339	331	332	330	310	300	—	320	294	332	23

NOVEMBER 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	332	341	353	252	284	289	319	325	320	330	341	339	341	286	—	359	Midnight
1h	336	346	358	254	283	301	321	323	323	332	360	342	340	310	—	324	1h
2	338	348	361	263	287	312	322	320	325	338	358	341	342	309	—	328	2
3	339	344	364	267	290	312	326	321	328	340	349	340	343	307	—	329	3
4	340	351	361	272	294	319	329	323	329	341	347	339	349	306	—	332	4
5	338	351	360	274	298	319	329	324	330	339	345	337	340	307	—	332	5
6	337	351	359	280	303	317	330	326	332	347	352	339	356	310	—	333	6
7	338	353	357	279	305	313	328	337	335	348	358	349	347	317	—	334	7
8	338	354	356	278	302	310	332	339	337	349	353	350	348	318	—	335	8
9	352	359	357	274	308	311	340	337	349	352	352	347	348	320	—	339	9
10	367	363	370	280	309	319	354	339	359	362	350	340	338	318	—	344	10
11	370	368	400	286	310	324	370	348	360	362	347	343	340	300	—	349	11
Noon	378	370	385	292	314	332	380	354	359	354	348	349	332	310	—	350	Noon
13h	377	373	390	299	300	340	387	351	357	352	340	352	328	292	—	349	13h
14	362	367	384	300	298	342	383	339	350	354	328	349	332	300	—	344	14
15	348	355	370	296	296	320	370	324	340	350	319	347	320	300	—	336	15
16	336	332	352	290	295	318	355	319	327	343	314	343	312	270	—	326	16
17	333	340	340	287	297	311	344	312	323	338	318	341	309	264	—	320	17
18	336	360	330	284	299	312	338	309	328	339	317	339	298	256	—	316	18
19	339	360	310	283	290	310	335	313	330	340	318	337	290	258	—	314	19
20	340	358	284	284	287	307	330	312	332	341	327	338	289	262	—	315	23
21	339	359	273	282	286	309	328	311	331	340	308	339	274	274	—	313	22
22	339	351	271	284	292	318	324	316	336	337	317	340	272	282	—	313	21
23	339	357	259	285	291	316	327	318	334	339	325	340	280	279	—	314	20

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

NOVEMBER 1949

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
								+ ·30000 (C.G.S. UNIT)									
Midnight	363	—	—	369	361	362	360	362	358	358	359	361	361	—	364	367	Midnight
1h	362	—	—	368	361	360	360	362	358	357	359	360	361	—	366	368	1h
2	362	—	—	364	360	361	360	361	357	338	360	360	361	—	366	368	2
3	363	—	—	366	360	362	361	361	357	357	359	360	362	—	366	368	3
4	364	—	—	367	361	363	361	363	357	359	360	361	361	—	366	369	4
5	364	—	—	369	363	364	363	365	358	360	359	361	363	—	367	370	5
6	365	—	—	371	363	363	367	371	360	362	360	363	364	—	368	370	6
7	367	—	—	371	369	371	373	375	364	369	364	366	367	—	372	368	7
8	360	—	—	370	371	370	370	370	367	368	367	369	368	—	376	368	8
9	358	—	362	370	364	370	360	357	362	361	364	370	368	—	370	363	9
10	352	368	360	360	358	370	354	346	352	353	362	368	367	370	367	357	10
11	350	361	360	350	352	370	344	334	340	341	363	364	363	368	360	352	11
Noon	340	357	353	342	348	362	345	320	336	335	364	360	362	360	355	352	Noon
13h	337	353	350	338	343	355	343	310	330	332	360	350	359	351	347	349	13h
14	340	356	352	342	346	350	343	307	331	337	357	344	358	351	343	349	14
15	340	364	357	350	350	348	347	312	333	345	358	343	356	354	346	350	15
16	350	370	360	358	353	350	353	323	340	351	360	347	356	360	351	355	16
17	360	—	363	363	362	354	360	336	347	357	361	351	360	362	353	360	17
18	370	—	366	364	364	356	361	345	350	359	360	357	364	361	357	361	18
19	—	—	367	363	367	357	360	347	350	357	360	359	361	361	356	360	19
20	—	—	368	362	367	358	360	350	351	356	364	360	362	365	360	360	20
21	—	—	367	362	365	360	360	353	353	356	360	360	366	367	363	360	21
22	—	—	368	361	366	360	362	357	354	358	361	362	365	364	367	361	22
23	—	—	368	362	364	361	362	358	357	359	363	364	365	364	367	361	23

NOVEMBER 1949—*continued*

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
								+ ·30000 (C.G.S. UNIT).									
Midnight	360	360	360	370	—	370	367	364	365	363	360	363	361	371	—	363	Midnight
1h	360	358	359	370	—	370	366	363	364	363	360	362	361	370	—	363	1h
2	360	359	359	370	—	370	366	363	364	363	360	362	362	371	—	363	2
3	362	360	360	370	—	370	366	364	364	363	363	363	363	371	—	363	3
4	363	360	360	370	—	370	—	365	365	363	362	365	363	372	—	364	4
5	364	360	361	370	—	370	—	367	365	365	363	367	366	373	—	365	5
6	365	360	366	368	—	369	—	370	368	367	363	370	361	372	—	366	6
7	361	362	370	368	—	369	—	370	368	370	365	371	366	370	—	368	7
8	359	363	364	366	—	368	—	370	368	370	367	370	370	372	—	368	8
9	352	364	350	364	—	370	—	367	370	370	—	363	370	370	—	365	9
10	351	364	340	362	370	360	360	366	370	368	—	366	370	364	—	361	10
11	350	361	327	358	359	359	350	360	366	363	—	366	370	360	—	355	11
Noon	348	350	327	353	350	350	340	350	360	352	—	360	368	358	—	350	Noon
13h	348	344	328	347	347	344	338	344	359	340	—	354	363	358	—	345	13h
14	357	350	334	345	350	344	341	343	359	334	—	353	361	359	—	346	14
15	360	354	341	352	354	350	348	360	358	337	—	356	363	359	—	349	15
16	362	360	351	360	360	354	354	364	360	340	364	356	364	366	—	354	16
17	361	360	358	366	365	361	300	360	362	349	364	357	367	374	—	358	17
18	360	357	358	370	367	363	360	362	361	354	363	358	367	374	—	360	18
19	360	355	359	370	366	362	360	361	359	353	363	358	369	374	—	360	19
20	359	356	366	370	368	363	360	361	359	355	364	358	370	373	—	361	20
21	360	357	370	368	370	364	362	362	361	359	367	359	372	374	—	362	21
22	359	358	370	368	370	367	363	364	363	360	366	359	372	374	—	363	22
23	359	360	370	368	370	368	366	364	363	360	365	359	372	374	—	363	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of November, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3h	9h	15h	21h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Casella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
Nov.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs	%
1	966·8	23·5	5·1	15·0	59	17·1	Calm	Calm	6	16·9	23·0	24·1	16·2	26·1	16·7	9·4	0·0	0	7·2	57
2	965·8	23·2	4·8	15·2	61	17·3	Calm	Calm	7	15·4	22·9	20·4	17·9	24·8	14·9	9·9	10·2	75	5·0	40
3	967·9	22·1	2·5	18·1	78	20·8	85	0·5	6	17·2	20·9	19·8	18·0	22·4	16·9	5·5	15·6	170	1·7	14
4	970·7	21·9	2·8	17·4	76	19·9	85	4·0	7	17·1	21·4	20·4	18·1	22·6	17·0	5·6	8·1	100	5·1	40
5	970·0	22·5	4·4	15·2	64	17·3	110	3·6	3	17·3	22·0	23·1	16·5	23·7	17·0	6·7	0·0	0	11·9	93
6	969·7	20·8	2·5	16·7	78	19·0	90	1·8	7	14·5	20·6	21·2	17·9	22·7	14·5	8·2	0·7	5	4·6	36
7	971·1	22·3	4·8	14·2	60	16·2	90	2·7	7	17·5	22·0	23·4	17·9	23·8	17·3	6·5	0·0	0	11·4	89
8	971·4	23·3	5·4	14·2	56	16·2	70	3·1	3	16·7	22·9	23·9	18·4	24·4	16·6	7·8	0·4	5	8·4	65
9	969·6	20·6	1·9	17·5	83	20·0	70	3·6	7	18·0	20·4	22·6	17·4	24·0	17·9	6·1	1·0	10	1·6	13
10	968·2	23·9	4·4	16·8	64	19·1	70	0·9	6	17·0	23·6	23·4	19·6	26·5	17·0	9·5	0·0	0	3·4	27
11	967·0	26·4	6·0	16·8	56	19·1	Calm	Calm	6	16·7	25·6	22·9	18·9	27·2	16·3	10·9	0·3	10	5·5	43
12	969·4	20·7	2·4	16·8	78	19·1	115	8·9	5	17·5	20·5	20·6	17·7	22·6	17·3	5·3	3·3	55	11·0	85
13	970·9	20·5	1·6	18·0	86	20·6	110	8·1	7	17·3	20·0	19·4	19·0	22·1	17·1	5·0	5·7	105	10·9	84
14	970·8	21·6	1·3	18·6	83	21·4	110	3·6	7	18·0	21·3	22·9	19·1	24·1	18·6	5·5	19·7	175	5·2	40
15	970·7	21·9	1·5	19·6	87	22·8	110	3·1	6	18·8	21·0	20·9	18·0	24·0	18·8	5·2	1·3	10	6·5	50
16	969·7	22·5	4·9	14·2	60	16·2	65	5·4	2	16·5	22·1	21·4	18·5	23·7	16·5	7·2	0·3	0	8·7	67
17	968·3	21·4	1·7	18·7	85	21·6	Calm	Calm	7	18·3	21·0	22·9	18·0	25·2	18·0	7·2	8·6	115	0·8	7
18	967·5	25·3	4·8	17·7	63	20·3	Calm	Calm	5	16·4	24·8	23·4	19·0	26·0	16·4	9·6	0·2	0	7·3	56
19	968·3	24·9	5·5	16·0	58	18·2	Calm	Calm	6	17·2	24·6	26·8	18·5	27·0	17·0	10·0	0·0	0	10·9	83
20	968·8	20·5	1·0	18·9	90	21·8	Calm	Calm	1	15·3	20·1	27·6	19·1	27·8	15·2	12·6	0·0	0	11·5	88
21	968·8	24·4	4·7	16·8	63	19·1	Calm	Calm	2	17·4	24·0	24·4	18·4	27·2	16·9	10·3	0·0	0	8·7	67
22	967·9	23·9	3·7	18·0	70	20·6	70	4·0	3	17·6	23·4	25·8	20·6	27·4	17·4	10·0	0·0	0	8·0	62
23	966·0	24·8	4·5	17·7	65	20·3	55	2·7	6	17·8	24·1	25·0	19·1	27·5	17·3	10·2	0·0	0	8·1	62
24	966·3	24·9	4·5	17·8	65	20·4	70	2·7	5	17·6	24·2	25·8	17·8	27·6	17·2	10·4	0·0	0	10·8	83
25	967·2	24·9	4·8	17·3	63	19·8	70	5·4	5	17·9	24·0	26·0	19·4	27·0	17·6	9·4	0·0	0	11·3	87
26	966·4	26·0	7·1	14·2	48	16·2	35	2·7	1	17·2	25·2	26·8	17·9	27·4	16·5	10·9	0·0	0	11·8	90
27	966·0	26·3	5·2	18·1	61	20·8	Calm	Calm	5	16·7	24·8	24·6	19·5	27·2	16·5	10·7	0·5	5	5·7	44
28	966·1	26·4	5·0	18·6	62	21·4	70	0·5	7	18·5	26·0	22·7	18·7	27·6	18·5	9·1	6·5	110	4·0	31
29	966·9	25·6	3·5	20·3	73	23·8	85	1·3	6	18·2	25·2	22·7	20·3	27·6	18·0	9·6	0·8	15	6·0	46
30	968·0	23·7	2·6	19·6	78	22·8	90	3·1	4	19·0	23·2	24·5	19·5	26·5	18·9	7·6	0·6	5	10·9	83
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	968·4	23·3	3·8	17·1	69·1	19·6	—	2·4	5·0	17·2	22·8	23·3	18·4	25·4	17·0	8·4	83·8	970	7·46	57·7
Average	968·4	23·1	3·3	17·8	72·8	20·4	—	3·9	5·2	—	—	—	—	25·2	17·8	7·4	120·5	1056	7·40	56·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

EXCESS OF CERTAIN ELEMENTS AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	+	40·9 mbs	Amount of rain	—	25·3 mms
Temperature of the Air	+	3·4°C	Duration of Bright Sunshine	+	41·3 hrs.
Vapour Pressure	+	1·2 mbs	Mean of Maximum temperatures	+	3·2°C
Relative Humidity	—	9·7 %	,, Minimum temperature	+	1·9°C
Velocity of Wind	+	1·4 mps.	Absolute Maximum temperature	+	4·5°C
			Minimum temperature	+	0·8°C

Table VII.—Daily Results of Meteorological Observations made during the month of November, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evaporation Temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
Nov.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C
1	1006·8	− 3·7	28·7	18·6	10·1	22·5	− 0·4	3·2	17·3	− 0·2	72	0	19·8	16·4
2	1006·9	− 3·6	28·0	16·5	11·5	21·5	− 1·5	2·6	17·2	− 0·4	76	+ 4	19·6	14·5
3	1008·7	− 1·7	27·0	19·2	7·8	21·7	− 1·3	2·0	18·6	+ 1·0	82	+ 10	21·4	17·3
4	1011·2	+ 0·8	26·2	18·1	8·1	22·1	− 1·0	2·3	18·5	+ 0·8	80	+ 8	21·3	16·2
5	1010·5	+ 0·2	27·0	17·8	9·2	22·3	− 0·8	3·3	16·9	− 0·8	71	− 1	19·2	15·8
6	1010·3	0·0	25·5	15·3	10·2	21·2	− 2·0	2·3	17·4	− 0·4	79	+ 7	19·9	13·2
7	1011·9	+ 1·7	27·1	19·0	8·1	22·9	− 0·4	3·8	16·8	− 1·1	68	− 4	19·1	17·0
8	1012·0	+ 1·8	27·3	18·6	8·7	23·0	− 0·3	4·1	16·3	− 1·6	66	− 6	18·5	16·6
9	1010·1	0·0	26·0	19·5	6·5	22·5	− 0·9	3·2	17·3	− 0·7	72	0	19·8	17·4
10	1008·0	− 2·0	28·2	18·0	10·2	23·9	− 0·5	3·0	18·2	+ 0·2	75	+ 3	20·9	16·0
11	1007·7	− 2·3	27·8	18·8	9·0	23·4	− 0·1	2·9	18·8	+ 0·7	75	+ 3	21·7	16·3
12	1010·2	+ 0·2	27·0	20·9	6·1	22·7	− 0·8	3·1	17·8	− 0·3	74	+ 2	20·4	18·6
13	1011·4	+ 1·5	26·7	20·6	6·1	22·6	− 1·0	2·5	18·7	+ 0·6	79	+ 7	21·6	19·6
14	1011·3	+ 1·4	27·6	21·4	6·2	23·6	0·0	2·4	19·9	+ 1·8	80	+ 8	23·2	19·5
15	1011·3	+ 1·4	27·3	21·0	6·3	23·1	− 0·6	2·0	20·0	+ 1·8	83	+ 11	23·4	19·0
16	1009·9	+ 0·1	27·0	19·6	7·4	22·8	− 0·9	3·4	17·4	− 0·8	72	0	19·9	17·4
17	1008·3	− 1·5	27·8	19·1	8·7	23·0	− 0·8	2·8	18·5	+ 0·2	76	+ 4	21·3	17·2
18	1008·2	− 1·6	28·4	18·8	9·6	23·9	+ 0·1	3·8	17·9	− 0·4	69	− 3	20·5	16·3
19	1008·5	− 1·2	29·3	17·9	11·4	23·8	− 0·1	4·1	17·3	− 1·3	67	− 5	19·8	15·3
20	1009·2	− 0·4	30·7	17·0	13·7	24·1	+ 0·2	4·1	17·6	− 1·0	67	− 5	20·1	15·0
21	1009·0	− 0·5	29·0	18·0	11·0	23·8	− 0·2	3·9	17·6	− 1·1	68	− 4	20·1	15·1
22	1007·5	− 1·9	28·7	19·1	9·6	24·3	+ 0·3	3·9	18·1	− 0·6	68	− 4	20·8	16·5
23	1006·0	− 3·3	31·4	18·6	12·8	24·5	+ 0·4	4·0	18·2	− 0·6	68	− 4	20·9	16·3
24	1007·0	− 2·2	30·8	19·0	11·8	23·9	− 0·3	3·7	18·0	− 0·9	69	− 3	20·6	17·9
25	1007·5	− 1·6	31·0	18·8	12·2	23·9	− 0·3	3·3	18·7	− 0·2	73	+ 1	21·6	16·9
26	1006·8	− 2·1	32·3	18·6	13·7	24·8	+ 0·5	4·3	18·1	− 0·9	66	− 6	20·8	16·3
27	1006·3	− 2·5	31·8	18·7	13·1	23·9	− 0·5	2·9	19·3	+ 0·2	75	+ 2	22·4	16·7
28	1006·5	− 2·2	31·8	20·1	11·7	24·9	+ 0·4	3·6	19·4	+ 0·2	71	− 2	22·5	17·7
29	1007·8	− 0·8	30·7	20·4	10·3	23·9	− 0·6	2·3	20·4	+ 1·2	81	+ 8	24·0	17·9
30	1008·3	− 0·2	29·4	21·0	8·4	24·6	0·0	3·4	19·4	− 0·1	73	0	22·5	19·1
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	1008·8	− 0·9	28·6	18·9	9·7	23·3	− 0·4	3·2	18·2	− 0·1	73·2	− 1·1	20·9	16·8
Aver.	1009·7	—	28·4	19·6	8·8	23·7	—	3·4	18·3	—	72·1	—	21·1	16·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

GENERAL WEATHER CONDITIONS DURING THE MONTH OF NOVEMBER, 1949

Mean pressure was 0·9 mb below normal and pressure was below normal on most days, particularly so on the 1st, 2nd and 23rd. Temperature was below normal from the 1st–17th and then about normal, the mean being −0·4°C. Sunshine was normal. Rainfall was 31% above the average but evenly distributed, 69% being recorded on two days, the 4th and 29th.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of November, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temparature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
NOVEMBER	mms.	min.	mm.	hrs.	%	m.p.s.	m p.s.	°C.	°C.	°C.	°C.
1	0·0	—	6·2	5·8	46	2·2	— 1·2	24·2	23·9	23·9	24·9
2	6·4	100	6·5	5·8	46	1·7	— 1·7	24·1	23·9	23·9	25·0
3	1·9	20	2·8	4·9	38	2·6	— 0·8	24·1	23·7	24·3	24·9
4	16·1	160	7·3	9·8	77	4·6	+ 1·2	24·1	23·5	24·0	25·1
5	0·0	—	5·7	8·9	69	3·3	— 0·1	24·1	23·4	24·0	25·2
6	0·3	5	4·8	4·1	32	3·2	— 0·2	24·2	24·1	24·1	25·0
7	0·2	10	7·3	12·4	96	3·6	+ 0·2	24·2	24·0	24·0	25·0
8	0.0	—	8·5	10·6	82	3·6	+ 0·2	24·2	23·9	24·2	25·4
9	0·0	—	7·6	3·6	28	3·2	— 0·2	24·2	23·8	24·3	25·7
10	0·0	—	6·6	6·1	47	2·3	— 1·2	24·1	24·1	24·4	25·4
11	0·0	—	6·5	5·9	45	3·0	— 0·5	24·1	23·9	24·4	25·4
12	0·0	—	7·6	11·1	85	6·1	+ 2·6	24·1	23·8	24·4	25·6
13	0·0	—	9·0	12·0	92	6·3	+ 2·8	24·2	24·3	24·5	25·7
14	2·9	60	8·4	9·5	73	4·2	+ 0·7	24·2	24·1	24·6	26·2
15	2·0	80	5·0	4·9	38	3·8	+ 0·3	24·2	24·1	24·7	26·3
16	0·3	15	7·4	10·2	79	4·2	+ 0·7	24·2	24·2	24·7	25·8
17	2·5	130	4·1	2·1	16	2·2	— 1·3	24·1	24·1	24·7	26·1
18	0·0	—	4·8	8·3	63	1·8	— 1·6	24·1	24·0	24·8	25·6
19	0·0	—	7·0	12·4	95	2·2	— 1·2	24·1	24·0	24·8	25·7
20	0·0	—	7·5	12·6	96	2·1	— 1·3	24·2	24·2	24·9	26·3
21	0·0	—	9·4	12·4	95	2·8	— 0·6	24·2	24·1	25·0	27·0
22	0·0	—	10·8	11·6	89	2·4	— 1·0	24·2	24·1	25·3	27·1
23	0·0	—	6·6	9·2	70	2·1	— 1·3	24·2	24·0	25·4	27·7
24	0·0	—	8·0	12·5	95	2·5	— 0·9	24·2	24·3	25·5	27·8
25	0·0	—	8·6	11·9	91	2·9	— 0·5	24·2	24·2	25·7	27·7
26	0·0	—	10·0	12·2	93	2·4	— 1·0	24·2	24·1	25·8	27·9
27	1·8	35	9·0	7·2	55	1·9	— 1·5	24·2	24·2	26·1	28·2
28	0·0	—	6·3	7·1	54	2·0	— 1·4	24·1	24·1	26.2	27·7
29	24·0	155	6·6	7·8	59	2·2	— 1·1	24·1	23·9	26·2	27·7
30	0·1	5	6·0	12·3	93	3·5	+ 0·2	24·2	24·7	26·3	27·7
—	—	—	—	—	—	—	—	—	—	—	—
Mean	Sum 58·5	Sum 785	7·1	8·84	67·9	3·03	— 0·39	24·16	24·02	24·84	26·23
Average	44·6	716	6·7	8·80	67·7	3·42	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF NOVEMBER, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1013·5mbs	at	22·00 hrs.	on 7th	1004·4 mbs	at 15 & 16 hrs.	on	23rd
Temperature of the Air	32·3°C	,,	13 00 hrs.	,, 26th	15·3°C	,, 04·00 hrs.	,,	6th
Daily range of temperature of the Air	13·7°C	,,	—	,, 20th, & 26th	6·1°C	,, —	,,	12th & 13th
Temperature of the Dew Point ...	—	,,	—	,, —	—	,, —	,,	—
Daily range of temperature of the Dew Point	—	,,	—	,, —	—	,, —	,,	—
Minimum on Grass	—	,,	—	,, —	13·2°C	,, —	,,	6th
Relative Humidity	—	,,	—	,, —	—	,, —	,,	—
Vapour Pressure	—	,,	—	,, —	—	,, —	,,	—
Evaporation in 24 hours	10·8mms	,,	—	,, 22nd	2·8mms.	,, —	,,	3rd
Wind Velocity	9·8mps	,,	13·00 hrs.	,, 12th	—	,, —	,,	—
Rainfall in 24 hours	24·0mms ending 24 00 hrs.			,, 29th	—	,, —	,,	—
Duration of Sunshine	12·6hrs.		—	,, 20th	2·1 hrs.	,, —	,,	17th

Mean Day Temperature of Air 25·90°C. Average 26·34°C. Mean Night Temperature of Air 20 64°C. Average 21·30°C

NUMBER OF DAYS OF

Rainfall: 0.1—0·9 mms.	1·0—4·9 mms.	5·0—9·9 mms.	10·0—24·9 mms.	25·0—39·9 mms.	40·0—54·9 mms.	55·0 & over mms.	Lightning	Thunderstorm
4	5	1	2	—	—	—	1	—

Table VIII. -Barogram

NOVEMBER 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	087	071	085	107	125	109	118	130	120	105	073	090	114	121	120	122	Midnight
1h	080	068	077	100	115	107	116	128	109	096	069	089	106	116	112	115	1
2	071	066	071	098	110	103	110	127	107	089	067	088	104	113	108	107	2
3	068	060	069	101	109	099	109	121	101	087	066	088	103	107	106	104	3
4	069	056	069	103	099	096	109	122	099	087	068	090	103	108	108	101	4
5	068	062	071	107	099	097	111	127	098	087	069	096	104	113	109	102	5
6	073	066	080	108	106	099	115	129	106	088	077	102	111	118	119	105	6
7	078	069	088	109	109	108	122	129	109	089	080	104	121	123	122	108	7
8	079	070	092	120	114	109	126	129	110	090	085	105	122	124	123	108	8
9	077	071	095	120	115	109	128	131	110	090	085	109	124	124	124	105	9
10	075	069	089	119	113	107	127	128	109	085	079	106	126	121	122	102	10
11	073	066	087	119	109	105	126	122	106	079	076	106	122	116	115	100	11
Noon	067	061	086	115	107	101	117	116	100	074	076	103	121	110	112	095	Noon
13h	059	059	080	109	102	093	115	111	095	069	075	100	112	104	107	087	13h
14	052	060	080	107	092	089	108	107	089	067	071	095	104	101	102	084	14
15	049	059	078	101	088	086	106	102	083	065	066	094	102	097	099	082	15
16	051	059	081	098	088	086	106	101	082	062	065	094	102	094	098	080	16
17	052	066	086	106	090	090	109	105	086	062	066	099	103	100	102	082	17
18	058	069	091	109	097	101	115	110	092	067	072	104	107	105	104	086	18
19	062	074	097	115	102	108	126	116	100	071	082	107	114	112	108	092	19
20	069	081	106	121	108	111	129	121	105	078	087	115	122	120	117	100	20
21	071	085	109	127	110	118	130	127	108	087	092	118	127	122	122	103	21
22	076	086	110	128	112	120	135	127	109	088	098	122	128	124	123	105	22
23	074	085	109	127	110	119	134	126	108	082	100	121	128	123	124	103	23

NOVEMBER 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Day / Hour	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean.	Day / Hour
Midnight	101	088	094	103	102	092	070	070	085	080	075	068	079	092	—	1009.7	Midnight
1h	091	084	086	095	101	089	064	064	082	073	068	065	075	086	—	1009·1	1
2	084	082	083	093	095	085	062	062	077	068	062	063	069	083	—	1008·7	2
3	084	077	081	091	093	083	057	057	072	064	057	062	067	079	—	1008·4	3
4	085	077	078	090	091	082	055	060	071	064	058	062	070	076	—	1008·4	4
5	086	080	080	091	091	082	056	062	073	068	061	063	074	077	—	1008·5	5
6	087	083	084	093	093	084	063	066	082	075	062	066	077	082	—	1009·0	6
7	095	087	090	098	094	084	063	072	084	082	062	071	083	083	—	1009·4	7
8	096	090	090	092	095	084	062	073	083	080	064	072	084	086	—	1009·5	8
9	097	089	093	095	095	084	064	077	083	082	063	068	084	088	—	1009·6	9
10	094	085	086	094	092	082	062	075	078	072	056	064	078	089	—	1009·3	10
11	086	084	084	094	089	074	060	072	075	069	054	062	077	084	—	1009·0	11
Noon	082	076	081	088	084	064	055	068	072	064	054	061	072	078	—	1008·5	Noon
13	074	071	074	085	082	062	048	063	066	058	054	056	069	074	—	1008·0	13h
14	064	064	070	083	077	057	046	062	064	053	053	053	067	070	—	1007·6	14
15	062	063	067	076	073	054	044	057	062	046	053	052	071	064	—	1007·3	15
16	062	065	070	076	073	051	044	056	061	046	053	050	076	065	—	1007·3	16
17	064	068	073	081	079	056	048	061	064	051	060	053	075	073	—	1007·7	17
18	067	075	081	084	084	063	055	066	067	060	065	062	080	077	—	1008·2	18
19	078	083	087	092	088	067	063	075	071	064	071	064	083	084	—	1008·9	19
20	084	094	096	099	095	076	070	083	077	073	072	070	085	084	—	1009·5	20
21	090	101	100	104	099	080	076	086	082	077	077	076	090	097	—	1010·0	21
22	094	104	104	106	102	082	081	092	085	082	082	081	096	102	—	1010·3	22
23	094	103	106	104	098	081	076	090	084	081	080	081	095	103	—	1010·2	23

Table IX—Duration of Bright Sunshine at the Aerological Station, Vacoas by the Campbell Stokes Sunshine Recorder

NOVEMBER 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0
7	40	50	0	0	55	45	25	35	15	0	10	10	0	0	10	35	15	45	60	60	35	0	60	45	45	45	50	55	55	0	—	15·0
8	60	60	0	28	60	60	60	55	5	0	50	60	55	0	45	60	10	60	60	60	60	37	60	60	60	60	60	30	40	55	—	22·9
9	60	60	30	50	60	45	60	60	0	12	60	60	60	20	25	60	0	60	60	60	60	60	60	60	60	60	60	12	60	60	—	24·3
10	60	60	30	45	60	10	60	60	5	60	60	60	60	52	0	60	0	40	60	60	60	60	60	60	60	60	60	60	60	60	—	25·0
11	7	52	20	42	60	20	60	60	5	60	58	60	60	5	60	60	0	40	60	60	60	60	60	60	60	60	50	55	60	60	—	23·9
Noon	40	20	10	30	60	20	60	35	5	45	30	60	60	10	48	60	0	60	45	60	60	60	50	60	60	60	30	5	15	60	—	20·3
13	20	0	0	0	60	10	60	50	0	10	12	60	60	60	48	60	0	30	60	60	60	60	58	60	60	60	5	10	0	60	—	18.2
14	22	0	0	0	60	45	60	60	15	0	0	60	60	60	48	25	15	20	58	55	60	60	30	40	60	60	15	10	0	60	—	17·6
15	60	0	0	0	60	20	60	50	40	5	0	60	60	0	20	10	10	15	60	60	20	50	30	45	60	60	5	0	0	60	—	15·3
16	50	0	12	20	60	0	60	32	5	5	10	60	60	40	25	10	0	50	40	60	35	0	5	40	60	60	10	0	0	60	—	14 5
17	5	0	0	45	60	0	60	5	0	5	25	60	60	55	40	60	0	5	60	55	5	30	5	60	50	60	0	0	30	60	—	15·0
18	10	0	0	45	60	0	60	0	0	0	12	50	60	12	20	25	0	10	30	40	10	0	5	60	45	60	0	0	40	60	—	11·9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0·0

The Total Amount of Registered Sunshine was 223·9 hrs. and the total possible Sunshine was 390·3 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

NOVEMBER 1949

Day / Hour Ending	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	6	6	0	0	10	10	10	0	0	0	0	0	0	0	0	0	0	2	16	21	25	1	0	21	20	0	25	20	20	10	—	3·7
7	60	60	58	3	60	55	60	6	0	40	25	44	50	0	48	60	37	60	60	60	60	5	57	60	58	50	60	14	60	60	—	23·0
8	60	60	16	50	60	6	60	60	0	50	60	60	60	15	45	60	30	60	60	60	60	60	60	44	60	60	60	45	60	60	—	25·0
9	60	55	0	60	60	14	60	60	0	45	60	60	60	44	25	60	0	60	60	60	60	60	60	60	60	60	60	60	60	60	—	25 1
10	45	54	45	60	60	2	60	60	4	40	60	60	60	56	28	60	0	60	60	60	60	60	60	60	60	60	60	60	60	60	—	25·6
11	23	46	55	60	60	27	60	60	8	55	60	60	60	49	20	60	4	29	48	60	60	60	60	60	60	60	60	60	50	60	—	24·9
Noon	55	17	50	55	19	3	60	60	2	39	45	60	60	60	40	43	1	27	60	60	60	60	60	60	60	60	60	60	60	60	—	23 6
13h	7	39	57	22	6	31	60	60	25	40	35	60	60	45	20	42	6	29	60	60	60	60	60	60	60	60	28	45	54	60	—	21·8
14	2	5	2	44	5	29	60	60	8	27	3	60	55	60	10	45	10	6	60	58	60	60	60	60	60	60	15	0	2	60	—	17·4
15	3	3	15	55	4	2	60	60	13	25	3	60	60	56	25	60	5	17	60	60	60	60	41	60	60	60	0	2	0	60	—	17·5
16	0	3	0	60	55	20	60	60	35	0	0	60	60	60	2	60	0	50	60	60	60	60	17	60	60	60	0	12	1	60	—	18 3
17	0	0	0	55	60	45	60	60	60	0	0	45	60	58	22	22	20	60	60	60	60	60	0	60	60	60	0	45	0	60	—	19·2
18	16	1	1	54	60	4	60	20	55	6	4	30	60	55	10	25	12	41	60	60	60	22	16	60	35	60	1	2	40	55	—	16·4
19	11	0	0	10	10	0	11	10	7	0	0	5	16	10	0	15	0	0	20	18	1	16	0	22	6	20	0	0	0	15	—	3 7

The Total Amount of Registered Sunshine was 265·2 hrs. and the total possible sunshine was 390·3 hrs.

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273.)

NOVEMBER 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·9	1·5	17·9	1·3	20·2	2·1	20·7	1·5	20·2	1·3	17·8	1·6	21·3	0·4	19·8	2·1	Midnight
1h	19·9	1·5	17·8	1·3	20·0	1·7	20·3	1·4	20·2	1·4	16·9	1·3	21·0	0·5	19·0	1·6	1h
2	19·2	1·2	17·2	1·0	19·6	1·2	20·5	1·7	20·0	1·4	15·7	1·0	20·7	0·6	18·6	1·4	2
3	19·9	1·3	17·6	1·2	19·5	0·7	20·0	1·6	19·8	1·4	15·5	0·9	20·5	0·7	18·8	1·4	3
4	19·6	1·3	17·8	1·2	19·4	0·7	20·0	1·7	19·6	1·6	15·3	0·9	21·0	1·1	19·6	1·5	4
5	18·8	1·2	17·4	1·4	19·3	0·6	18·8	1·1	19·1	1·3	15·4	0·8	19·8	0·9	19·5	1·5	5
6	19·6	1·4	17·6	1·2	19·2	0·4	20·1	2·1	20·4	1·7	17·0	0·9	20·0	1·0	19·9	1·8	6
7	23·1	3·0	22·0	2·2	20·2	0·5	21·7	2·4	22·9	3·0	21·3	1·9	23·1	3·6	23·0	3·0	7
8	24·4	4·3	24·6	4·6	20·6	0·8	23·3	2·7	23·9	3·9	23·0	3·1	24·3	4·9	24·7	5·3	8
9	26·3	6·3	26·0	5·4	21·6	1·2	24·3	3·3	24·9	4·6	21·4	1·4	25·4	6·1	26·2	6·9	9
10	26·3	5·7	27·7	6·6	23·9	3·0	24·7	3·6	25·2	4·8	23·8	3·6	25·9	6·8	26·2	6·2	10
11	28·7	7·2	27·3	6·3	24·8	4·0	25·0	3·8	25·2	5·1	24·3	4·0	25·6	7·2	26·3	6·1	11
Noon	27·3	6·4	26·6	5·8	26·0	4·9	24·1	3·1	24·3	4·7	25·0	5·0	26·1	6·7	26·3	6·3	Noon
13	26·2	5·4	27·0	6·1	26·0	5·6	25·0	3·7	25·0	5·0	25·2	5·1	26·2	6·7	26·9	7·2	13h
14	25·6	5·2	24·0	3·6	24·0	3·6	24·0	2·6	25·2	5·6	25·0	4·6	26·4	6·4	27·3	8·0	14
15	24·3	3·9	21·0	1·7	24·3	3·9	24·9	4·2	26·4	5·5	24·1	4·1	25·4	6·1	26·6	7·6	15
16	24·2	3·6	21·7	1·8	23·6	3·3	24·2	3·8	27·0	5·7	24·7	5·0	25·3	6·5	25·9	6·9	16
17	24·2	4·2	22·0	1·9	21·6	1·4	22·6	2·2	25·0	5·6	23·8	4·6	24·4	5·5	25·0	5·4	17
18	23·0	2·9	21·9	1·7	21·7	1·6	22·1	2·1	22·8	4·1	23·2	2·2	23·2	3·9	23·0	3·8	18
19	22·6	2·9	20·8	1·7	20·9	1·3	21·2	1·6	21·4	2·9	22·8	0·8	21·9	3·5	22·1	3·0	19
20	20·8	2·4	19·8	1·3	20·9	1·5	21·0	1·5	20·3	2·3	22·2	0·6	21·1	3·0	21·3	2·4	20
21	20·0	2·0	19·6	1·2	20·9	1·5	20·7	1·3	19·6	1·9	21·5	0·6	20·9	2·9	21·7	2·9	21
22	19·1	1·7	19·3	1·3	20·9	1·5	20·5	1·4	19·7	2·2	21·4	0·7	20·6	2·7	21·2	2·6	22
23	18·6	1·6	20·4	1·3	20·8	1·5	20·4	1·3	18·5	1·7	21·4	0·8	20·0	2·4	21·5	2·4	23

NOVEMBER 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	21·1	1·9	19·9	1·9	19·0	0·6	21·8	2·4	20·8	1·8	21·7	1·9	21·7	0·7	21·1	1·4	Midnight
1h	20·5	1·9	18·8	1·2	19·1	0·2	21·3	1·3	20·6	1·6	21·7	2·0	21·7	0·7	20·7	2·0	1h
2	20·9	1·6	18·6	1·2	19·2	0·4	21·2	1·4	20·7	1·7	21·7	2·0	21·9	0·9	20·3	1·5	2
3	21·1	1·8	18·3	1·0	19·2	0·4	21·0	1·3	20·9	1·6	21·6	1·9	21·8	0·7	19·7	1·1	3
4	20·8	1·9	18·2	0·9	19·1	0·4	21·1	1·5	20·8	1·7	21·6	1·9	21·4	0·5	19·7	1·3	4
5	20·3	2·3	18·4	0·9	18·8	0·4	21·0	1·7	20·8	1·6	21·5	1·9	21·3	0·6	20·4	2·5	5
6	20·0	1·2	19·7	1·2	19·4	0·5	21·0	2·0	21·2	1·7	21·4	1·8	22·0	0·8	20·9	2·4	6
7	21·2	2·0	23·1	2·5	23·0	2·2	23·0	3·2	22·9	2·7	21·8	2·2	23·0	1·4	22·8	3·8	7
8	21·6	2·3	24·0	3·6	25·0	4·3	24·0	4·0	24·1	3·5	23·8	2·6	24·5	2·6	24·3	5·3	8
9	24·0	3·7	25·2	5·0	27·2	6·1	24·8	4·6	24·6	4·0	25·8	3·0	24·5	2·8	25·3	6·7	9
10	25·0	5·1	26·0	5·1	27·4	5·1	25·7	5·1	25·2	4·2	24·1	1·5	25·0	3·3	25·6	6·6	10
11	25·6	5·5	27·0	5·9	27·5	3·6	25·8	5·4	25·5	4·6	26·7	4·2	27·3	5·3	25·8	6·5	11
Noon	26·0	5·4	27·8	6·0	27·6	5·6	25·9	5·5	24·3	3·2	27·0	4·2	26·4	4·6	26·0	6·3	Noon
13h	26·0	5·2	28·2	6·5	27·6	5·4	26·0	5·5	24·0	3·1	27·0	4·4	25·0	3·1	26·0	6·0	13
14	25·4	5·0	27·6	5·5	26·1	4·0	25·6	5·3	24·0	3·2	27·6	4·9	24·4	2·4	25·2	4·8	14
15	25·7	5·4	26·8	5·1	26·8	4·6	24·5	4·8	24·0	3·2	27·0	4·6	23·7	2·4	24·3	3·9	15
16	25·7	5·5	25·7	4·1	25·8	4·4	24·3	4·6	23·9	3·3	25·8	3·7	25·2	3·7	24·5	4·2	16
17	24·8	4·9	25·1	3·5	26·0	5·3	22·0	2·6	23·0	2·6	24·4	2·4	23·8	2·5	23·9	3·5	17
18	23·2	3·7	24·4	3·1	24·6	4·0	21·2	1·9	22·2	2·1	23·5	1·9	22·0	1·1	22·4	2·5	18
19	21·8	2·9	23·0	2·1	23·1	2·7	21·2	2·2	21·9	1·9	22·7	1·2	22·1	1·6	21·9	2·0	19
20	20·5	2·1	22·0	1·6	22·7	2·3	20·8	2·0	21·8	1·9	22·2	0·7	21·7	1·8	21·9	2·1	20
21	20·2	1·9	21·0	1·2	22·2	2.4	20·9	2·2	21·8	1·9	22·0	0·6	21·7	1·7	21·7	1·9	21
22	20·0	1·9	20·1	0·8	20·0	2·6	20·8	2·1	21·8	1·9	21·8	0·6	21·5	1·7	21·0	1·1	22
23	20·1	1·8	19·9	0·9	21·8	2·4	20·8	1·9	21·8	2·0	21·9	0·8	21·1	1·5	21·1	1·3	23

Table XI *contd.*—**Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records**

(*To obtain temperatures on the Absolute Scale add 273.*)

NOVEMBER 1949

Day / Hour	17 Air	17 Excess of Air over Evap.	18 Air	18 Excess of Air over Evap.	19 Air	19 Excess of Air over Evap.	20 Air	20 Excess of Air over Evap.	21 Air	21 Excess of Air over Evap.	22 Air	22 Excess of Air over Evap.	23 Air	23 Excess of Air over Evap.	24 Air	24 Excess of Air over Evap.	Day / Hour
Midnight	20·7	0·8	19·4	1·3	21·0	1·9	19·0	1·5	21·2	2·1	21·8	1·8	20·4	1·7	20·4	1·2	Midnight
1h	20·8	0·9	19·2	1·3	20·9	1·9	18·6	1·4	19·8	1·7	21·5	1·4	19·7	1·6	20·0	0·1	1h
2	21·0	0·9	19·7	1·2	19·4	1·4	18·3	1·3	19·1	1·4	20·7	1·4	19·2	1·3	20·0	0·3	2
3	20·5	0·5	19·7	1·2	19·4	1·6	18·0	1·3	18·5	1·1	20·4	1·4	18·9	1·1	20·0	0·4	3
4	20·4	0·5	19·4	1·3	18·6	1·2	17·7	1·3	18·4	1·1	20·0	1·1	18·8	1·2	19·9	0·4	4
5	20·0	0·8	19·1	1·2	18·3	1·4	17·2	1·2	18·4	1·4	19·6	1·0	18·8	1·2	19·3	0·6	5
6	21·0	1·0	20·0	1·4	20·0	1·1	19·0	0·6	19·7	1·0	21·1	2·2	20·3	1·0	19·0	0·5	6
7	23·2	1·9	23·4	2·7	23·9	3·3	24·1	2·9	24·1	3·7	24·6	3·6	24·3	3·1	22·4	1·2	7
8	23·5	2·8	24·6	4·0	25·5	4·8	26·0	4·7	25·6	4·9	25·8	5·0	25·7	4·7	24·9	3·7	8
9	24·0	3·1	27·3	5·8	27·2	7·0	27·7	6·7	27·3	6·8	26·4	5·1	27·3	6·3	27·0	5·6	9
10	24·9	3·9	27·9	6·8	28·5	7·0	28·0	5·4	28·1	7·3	26·8	5·6	28·0	6·9	27·6	6·0	10
11	25·6	4·7	26·8	5·5	28·7	7·0	29·0	6·4	28·7	7·4	27·5	6·8	29·0	7·0	28·2	7·2	11
Noon	26·0	5·1	28·0	6·0	29·0	7·3	30·7	7·8	29·0	7·4	27·9	6·7	29·0	6·4	28·6	6·9	Noon
13h	26·2	5·2	28·0	6·9	29·0	8·0	28·7	6·9	28·8	7·4	28·3	7·0	29·0	6·6	29·0	8·1	13h
14	26·8	5·8	28·3	6·4	28·9	7·3	28·4	7·4	28·7	6·6	28·7	6·4	31·4	8·9	30·8	9·8	14
15	26·8	5·9	27·3	6·0	28·2	7·6	29·5	7·4	28·2	6·4	27·8	6·4	29·1	6·9	28·5	7·7	15
16	26·0	5·3	28·0	6·8	27·4	6·6	29·6	7·6	27·4	6·0	27·9	6·5	28·8	6·8	28·1	7·2	16
17	26·1	5·1	27·0	5·9	26·0	5·6	29·0	7·1	26·1	5·2	27·4	5·8	28·0	6·0	27·1	6·1	17
18	24·5	3·9	26·6	5·6	25·0	4·6	26·2	5·0	24·2	3·7	26·1	4·9	27·1	5·7	25·5	5·0	18
19	23·2	3·2	24·2	3·7	23·9	3·9	24·8	4·2	23·3	2·9	24·3	4·0	25·5	4·4	24·1	3·7	19
20	21·2	2·2	23·8	3·7	22·2	3·1	23·6	3·2	22·0	2·3	23·6	3·1	24·2	3·2	22·2	2·4	20
21	20·3	1·8	22·5	2·9	21·2	2·3	22·4	2·6	21·4	1·9	22·1	2·5	23·3	2·8	21·0	1·7	21
22	20·2	1·5	22·0	2·5	20·3	1·9	21·7	2·4	21·0	1·7	21·9	2·3	21·8	1·8	20·2	1·2	22
23	19·7	1·6	21·7	2·2	19·7	1·7	21·4	2·2	20·8	1·5	21·0	2·0	21·2	1·4	19·7	1·0	23

NOVEMBER 1949—*continued*

Day / Hour	25 Air	25 Excess of Air over Evap.	26 Air	26 Excess of Air over Evap.	27 Air	27 Excess of Air over Evap.	28 Air	28 Excess of Air over Evap.	29 Air	29 Excess of Air over Evap.	30 Air	30 Excess of Air over Evap.	31 Air	31 Excess of Air over Evap.	Mean	Excess	Day / Hour
Midnight	19·4	0·9	19·7	0·7	19·7	1·1	20·6	1·2	21·4	1·6	21·6	0·9	—	—	20·4	1·4	Midnight
1h	19·3	0·8	19·2	0·4	20·3	0·8	20·4	0·9	20·9	1·2	21·5	1·1	—	—	20·0	1·2	1h
2	19·1	1·0	19·1	0·9	19·5	0·6	20·2	0·2	20·8	0·9	21·4	0·9	—	—	19·8	1·1	2
3	19·0	0·7	18·7	0·4	19·1	0·9	20·3	0·0	20·6	1·1	21·3	0·9	—	—	19·6	1·0	3
4	19·0	0·8	18·6	0·4	18·9	1·3	20·3	0·5	20·6	0·0	21·2	0·3	—	—	19·6	1·1	4
5	19·0	0·9	19·8	1·3	18·8	1·4	20·6	1·1	20·4	0·7	21·1	0·6	—	—	19·4	1·2	5
6	18·8	0·8	20·0	0·8	18·7	0·7	21·4	0·6	22·3	0·9	21·9	0·9	—	—	20·1	1·2	6
7	22·5	1·1	22·8	1·7	23·8	2·2	23·7	1·7	24·0	1·7	24·0	2·1	—	—	23·0	2·4	7
8	25·1	3·9	25·9	5·2	26·3	4·3	25·7	3·7	26·0	3·5	25·6	4·2	—	—	24·5	3·9	8
9	27·0	5·1	27·9	7·4	29·2	6·3	28·0	6·0	27·9	4·7	26·8	4·7	—	—	25·9	5·0	9
10	27·7	5·8	29·1	7·4	30·2	7·2	30·0	7·9	28·2	5·2	27·5	5·9	—	—	26·7	5·5	10
11	27·9	6·0	30·3	8·1	30·7	7·3	31·0	8·7	29·6	6·7	27·9	5·9	—	—	27·3	5·9	11
Noon	28·4	6·2	31·5	9·2	31·1	7·4	29·0	6·3	29·6	6·5	28·1	6·4	—	—	27·4	6·0	Noon
13h	29·3	7·3	32·3	10·3	28·8	6·6	28·5	6·3	29·0	6·5	28·5	6·8	—	—	27·4	6·2	13h
14	29·1	6·9	31·3	9·5	28·1	5·5	28·0	5·8	27·6	5·8	28·1	6·1	—	—	27·0	5·7	14
15	27·7	5·5	30·1	7·8	25·8	3·9	27·6	5·3	23·6	1·6	28·1	6·1	—	—	26·3	5·2	15
16	27·3	5·3	29·1	6·7	25·6	3·0	27·3	5·0	22·8	0·7	27·3	5·9	—	—	26·0	5·0	16
17	27·0	5·0	28·8	7·4	24·5	3·1	27·2	5·6	22·9	0·0	26·8	5·5	—	—	25·2	4·4	17
18	25·9	4·2	27·2	5·8	23·5	1·9	26·7	4·5	23·5	0·5	25·3	4·2	—	—	24·1	3·4	18
19	24·8	3·3	24·9	3·4	22·9	1·0	25·5	3·5	23·4	1·6	23·9	2·9	—	—	23·0	2·7	19
20	24·0	2·5	23·8	3·1	22·8	0·9	24·9	3·1	22·6	1·1	23·6	2·3	—	—	22·2	2·2	20
21	23·3	2·0	21·9	1·4	22·3	1·1	24·6	3·1	22·1	0·9	23·4	2·5	—	—	21·6	1·9	21
22	22·8	1·9	21·9	0·8	21·6	0·9	23·1	2·7	21·7	1·2	22·7	1·8	—	—	21·2	1·8	22
23	20·5	1·0	20·7	1·2	21·0	1·0	21·8	1·8	21·6	1·5	22·7	1·8	—	—	20·8	1·6	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during November, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per Second, using the factor 2·2

*(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk *).*

NOVEMBER 1949

Day	1d. *		2d. *		3d.		4d.		5d. *		6d.		7d.		8d.		9d.		10d.		11d. *		12d.		13d.		14d.		15d.		16d.	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	2·6	10	1·6	12	1·9	10	3·6	09	4·0	10	2·1	10	2·0	11	3·0	10	1·7	07	1·4	10	1·6	09	4·9	11	5·3	10	4·5	10	3·1	10	2·4
1h	10	2·9	10	2·1	12	1·3	09	3·0	10	3·3	10	2·0	10	2·5	10	2·3	10	2·6	07	1·8	10	1·9	10	4·1	09	6·3	09	3·3	10	3·7	09	3·7
2	10	2·1	10	2·2	12	1·4	10	2·8	11	3·3	10	1·4	10	2·1	10	2·5	09	2·8	07	1·7	10	1·6	11	4·5	10	5·9	11	3·0	10	3·1	08	5·4
3	10	1·8	10	1·6	12	1·5	08	3·5	11	2·9	10	2·0	10	2·1	10	3·1	07	2·7	07	1·8	10	1·7	10	3·5	11	5·3	10	3·1	10	3·1	07	4·5
4	10	2·3	08	1·8	12	1·3	11	4·1	11	2·7	10	1·8	10	3·0	10	2·4	08	3·2	08	1·8	10	1·7	12	3·2	11	6·1	10	3·0	10	2·4	09	3·7
5	10	2·4	12	1·4	12	1·2	11	4·7	12	2·4	10	1·8	10	2·0	10	3·6	08	2·8	09	2·2	10	1·8	10	3·0	10	5·1	10	2·5	10	2·9	10	3·9
6	10	2·1	13	1·8	12	1·7	09	5·8	12	2·0	10	1·8	10	2·1	10	4·1	08	2·7	09	1·7	10	2·3	12	3·7	10	5·6	10	2·5	10	3·4	10	3·7
7	10	2·4	12	1·1	12	2·1	07	3·8	10	3·2	10	1·8	10	2·4	06	3·4	10	3·2	09	2·1	10	1·0	11	5·8	10	5·3	11	2·8	11	2·3	09	5·6
8	10	2·1	r04	1·5	08	2·9	07	4·2	11	4·3	10	3·0	07	4·3	06	3·7	10	3·7	07	2·5	10	0·6	12	8·3	10	6·5	09	4·1	10	4·5	10	5·3
9	11	1·5	d12	2·0	10	2·7	07	4·9	09	4·2	06	4·0	06	4·3	07	3·7	10	3·3	07	2·5	d16	1·2	10	8·3	11	7·6	09	5·1	09	3·2	08	5·1
10	r24	2·9	d31	2·0	08	3·7	08	5·5	11	4·6	07	3·6	08	4·5	06	4·3	06	4·1	07	2·9	d26	2·0	11	7·2	10	6·0	10	4·5	09	3·6	08	5·2
11	28	3·4	28	2·7	08	3·5	08	5·4	10	6·1	07	4·1	12	4·6	08	5·0	05	4·2	03	2·9	30	3·1	11	9·3	09	8·5	08	5·2	10	3·7	09	4·5
Noon	31	2·7	27	3·1	07	4·2	09	5·3	09	4·3	06	3·9	08	5·3	06	4·7	06	4·2	03	3·6	24	3·3	12	8·1	10	7·7	07	5·9	07	4·5	08	4·7
13h	25	2·8	22	3·4	07	4·0	09	5·2	13	3·1	06	4·1	08	5·0	06	4·5	04	4·3	03	3·9	24	3·3	11	9·8	11	8·5	06	5·2	07	4·3	07	4·3
14	22	2·9	19	2·6	06	3·5	10	5·9	13	2·6	05	4·7	07	4·8	07	3·9	04	4·2	03	4·1	23	3·0	12	8·4	10	8·7	08	5·8	06	4·4	09	5·5
15	r06	2·2	13	1·2	07	2·0	08	5·1	19	3·1	07	3·8	07	4·9	06	4·4	04	3·6	02	3·7	r09	2·0	11	7·8	11	7·0	09	5·2	08	4·4	09	4·8
16	01	1·3	10	0·7	07	3·9	09	7·3	22	2·6	07	4·3	07	5·1	06	3·9	04	3·9	03	3·0	06	1·7	11	7·0	11	8·2	09	5·6	08	4·5	08	5·1
17	r23	1·8	10	1·1	09	2·5	09	6·0	d14	3·0	09	4·4	09	4·7	07	3·7	06	2·2	04	3·2	13	3·7	11	6·0	11	6·9	10	5·7	08	4·5	07	4·4
18	29	1·3	05	1·1	07	1·9	10	4·4	11	3·3	08	4·3	08	4·8	09	4·4	08	3·9	03	2·3	12	5·1	10	5·8	11	5·8	11	4·3	06	3·8	08	3·0
19	04	1·1	05	0·6	10	2·8	10	3·9	12	2·5	09	3·7	08	3·6	10	3·9	08	2·4	03	1·7	12	4·4	11	6·0	11	5·1	11	4·2	08	3·9	08	5·4
20	05	1·5	05	1·2	11	2·9	09	4·3	12	5·9	08	2·2	10	3·0	10	3·5	08	3·2	03	1·2	12	5·5	11	5·4	11	5·3	11	4·3	08	4·0	08	3·6
21	10	2·0	05	1·3	11	1·9	09	4·1	10	1·9	10	3·6	11	2·9	10	2·5	08	2·5	06	1·4	12	5·9	11	5·7	10	4·4	10	4·5	07	4·3	07	2·7
22	10	1·9	05	1·8	11	2·0	09	3·5	10	2·7	10	3·9	11	2·4	10	3·5	08	2·4	07	1·3	12	6·1	11	5·5	10	4·7	10	3·9	08	5·1	08	2·8
23	10	2·3	07	1·8	10	5·2	09	3·8	10	2·2	09	3·9	11	2·9	10	2·3	08	2·3	07	1·4	12	5·7	11	5·9	11	4·9	11	4·4	08	3·9	08	1·1

NOVEMBER 1949—*continued*

Day	17d.		18d. *		19d.		20d. *		21d.		22d.		23d.		24d.		25d.		26d. *		27d. *		28d. *		29d.		30d.		31d.		Mean
Hour	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	06	2·0	10	1·1	07	1·4	10	1·3	11	0·8	08	1·1	10	1·3	07	1·7	10	1·7	05	1·2	27	1·4	27	1·2	06	1·1	09	2·0	—	—	2·2
1h	07	2·1	10	1·7	07	1·8	10	1·7	11	1·9	08	1·7	10	1·4	06	1·9	10	1·9	05	1·0	27	1·4	27	1·3	07	1·8	07	1·4	—	—	2·3
2	08	1·3	10	1·6	09	1·7	10	2·4	11	1·9	14	1·2	09	1·7	08	1·5	10	1·6	05	1·4	27	1·8	27	2·0	10	1·6	10	1·7	—	—	2·3
3	07	1·3	10	1·6	10	1·2	10	2·3	11	1·6	14	1·3	09	1·4	08	2·2	10	1·8	06	1·4	27	1·7	d06	1·9	10	2·0	10	1·7	—	—	2·3
4	11	2·1	10	1·7	10	1·9	10	2·4	11	1·6	14	1·6	09	1·9	08	1·7	10	1·9	06	1·3	27	1·9	06	1·5	07	1·3	10	1·9	—	—	2·3
5	11	1·8	10	1·6	10	1·6	10	1·3	11	2·2	14	1·3	12	1·4	08	1·9	10	2·2	06	1·5	27	2·0	06	1·2	09	1·4	10	2·1	—	—	2·2
6	12	1·8	10	1·1	10	1·8	10	1·4	11	1·6	14	2·2	12	2·0	08	1·8	10	1·8	06	1·8	27	1·6	06	1·5	09	1·5	10	2·2	—	—	2·4
7	10	2·5	10	0·7	10	1·3	10	1·4	11	1·6	07	2·8	06	2·2	08	1·9	10	3·0	06	1·8	27	1·1	06	1·0	09	1·6	08	3·6	—	—	2·5
8	06	2·8	06	1·5	06	1·8	04	1·7	10	3·8	06	3·0	06	3·1	06	3·2	06	4·0	02	3·2	26	1·4	06	1·8	05	2·2	10	4·3	—	—	3·3
9	06	2·7	06	1·7	09	1·6	32	1·8	10	4·2	05	3·6	05	2·9	05	3·1	07	4·0	03	3·8	28	2·6	05	2·6	04	3·2	08	4·6	—	—	3·5
10	06	3·0	03	1·9	07	2·1	28	3·1	08	3·4	05	3·5	05	3·2	05	3·4	05	4·6	02	3·8	24	3·4	06	2·9	04	3·5	07	4·2	—	—	3·8
11	05	3·0	d25	3·3	04	3·1	26	3·8	07	4·0	05	5·0	01	3·3	04	3·6	04	4·9	02	4·0	26	3·6	04	3·6	05	4·1	07	4·3	—	—	4·3
Noon	03	3·1	d01	2·7	06	3·5	24	3·6	05	4·2	06	4·4	05	2·5	05	3·6	05	4·9	01	4·0	22	4·0	04	3·3	07	4·6	09	4·5	—	—	4·3
13h	03	3·2	30	2·1	05	3·3	23	3·7	07	4·2	05	3·9	04	3·1	06	3·5	03	5·0	29	4·3	22	3·4	03	2·8	07	4·4	07	4·6	—	—	4·2
14	03	3·0	01	2·1	04	3·7	23	3·5	07	4·0	04	3·3	02	3·3	06	3·7	06	4·5	30	4·0	20	3·3	03	4·3	05	3·4	09	5·6	—	—	4·2
15	02	2·7	24	3·2	04	3·6	22	3·2	06	4·5	06	3·3	02	2·4	05	3·7	06	3·8	28	4·1	r06	1·6	02	3·4	d13	3·3	10	4·9	—	—	3·8
16	04	2·6	25	3·0	06	3·2	23	2·0	07	4·6	05	3·7	01	1·8	07	3·8	06	2·7	27	3·6	r27	1·4	03	3·0	13	1·1	07	5·1	—	—	3·7
17	03	2·9	25	2·0	06	2·9	23	1·6	08	4·1	03	2·8	32	1·9	06	3·2	02	4·2	26	3·0	27	1·6	02	2·3	13	0·6	08	4·9	—	—	3·4
18	02	2·4	25	1·1	07	2·2	23	1·6	08	3·4	03	2·6	06	1·5	06	3·0	05	3·1	28	2·1	27	1·7	02	1·2	13	1·5	09	4·4	—	—	3·1
19	02	1·4	26	1·0	06	2·1	d06	1·4	08	4·0	03	1·3	06	1·1	06	1·7	05	1·3	27	1·2	27	0·7	02	0·9	07	1·8	09	3·7	—	—	2·6
20	02	1·1	d03	1·0	06	1·8	08	1·6	08	1·9	03	1·1	06	1·2	06	1·7	05	2·6	27	0·7	27	0·7	02	1·1	07	1·8	09	3·1	—	—	2·6
21	05	1·4	04	1·1	06	2·4	08	1·7	09	1·8	06	1·5	07	1·2	09	1·8	05	1·7	27	0·9	27	1·0	02	1·0	08	1·6	09	2·6	—	—	2·4
22	10	1·5	04	1·9	06	0·7	08	1·6	09	1·4	09	1·1	07	1·4	09	1·9	05	1·1	27	0·7	27	1·5	02	1·0	09	1·4	09	1·6	—	—	2·2
23	10	1·1	07	1·3	09	1·8	11	1·8	09	1·5	10	1·5	07	2·0	10	1·8	05	1·1	27	1·8	27	1·8	06	1·7	10	2·2	09	3·9	—	—	2·6

Table XIII.—Wind Frequency (Number of Observations) November, 1949

Hour	Force (0–12)			DIRECTION															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...	...	...	...	...	...	2	7	15	4	1	...	...	...	...	...	...	1	...
9	..	...	...	1	..	6	4	10	4	3	...	1	...	...	...	...	...	1	...
15	...	...	...	...	4	3	6	8	1	4	...	...	...	1	1	1	...	1	...
21	...	...	...	...	1	4	3	10	6	4	...	...	...	...	...	...	...	2	...
Totals	...		.	1	5	13	15	35	26	15	1	1	...	1	1	1	...	5	...

Table XIVa.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, November, 1949

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	.	0·1	...	...	..	...	..	...		...	...	...	...	...	...	...	..	...	...	...	...	..	. .	...	...	..	...	...	...
2	..	...	...	...	...	..	...	...	...	...	...	...	...	0·1	...	...	.	...	...	...	...	...	...	...	...	...	...	..	..	...	...
3	...	...	...	1·3	. .	...	0·2	...	...	...	...	...	...	...	...	...	1·1	...	...	...	..	...	...	.	...	...	...	...	...	...	...
4	...	..	...	0·7	...	...	...	...	...	...	..	...	...	...	...	...	1·1	...	...	...	...	...	...	...	...	..	..	...	...	...	...
5	...	...	...	12·2	...	...	...	...	...	..	...	...	...	0·1	...		0·2		...	...	...	...	...	...	...	..	...	...	...	...	...
6		...	..	0·8	...	...	...	...	...	...		...	...	0·6	...	..	0·1	..	...	...	...	...	...	..	...	...	..	...	...	...	...
7	...	...	...	0·3	...	...	...	...	...	..	...	..	...	2·1	...	...	..	...	.	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	.	.	...	...	..	...	...	...	...	...	.	...	...	...	...	...	...	...	...	..	...	...	...	...	.	...	...	...	...
9	.	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...
10	...	...	..	...	...	0·3	...	...	...	...	...	...	..	..	...	...	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...
11	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
Noon	..	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...
13h	...	...	...	...	..	..	...	...	...	.	...	..	..		...	...	...	...		...	...	...		...	...	...	..	..	...	...	...
14		1·5		...	...	.		..	...	...	...	...	...	...	0·8	...	...	..	...	...	...	...	...	...	...	.	...	...	...	...	...
15	...	3·1	...	...	...	...	..	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	..	...	...	...	...		5·0	...	...
16	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	..	..	13·0	...	...
17	...	...	1·5	...	...	. .	...	...	.	...	..	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	5·4	..	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...		...	...	...	.	..	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	1·8		...	...	...
20	...	...	...	0·1	..	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.1	...
21	...		...	0·6	...	..	...	...	...	...	...	...	...	...	...	.	...	...	..	...	..	...	...	...	...	...	...		.	. .	...
22	...	...		..	...	...	..	...	..	...	..	...	...	...	...	..	..	...	..	...	..	. .	...	...	..	.	...	..	...	...	..
23	...	...	0·4	...	.	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	1·8	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3	...	..	...	...	...	...	...	...	...	...	..	...	0·6	...	...

Table XIVb.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for November, 1949

Day / Hour Ending	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	.	...	...	...	..	...	...	...	...	...	0·4	0·4	0·6	...	...	...	...	...	...	...	...	...	...	..		...	...	...	...	...
2	...	..	1·7	0·6	...	...	...	...	...	...	...	0·3	0·7	0·8	...	0·1	...	..	...	...	...	..	...	...	...	...	...	..	...	...	...
3	...	0·5	0·6	2·0	...	...	...	...	...	...	...	...	1·6	0·8		0·2	0·3	...	...	. .	...	...	...	...	..	...	...	...	...	0·1	...
4	...	...	1·3	...	...	...	...	...	0·5	...	...	0·2	0·2	1·4	...	...		...	..	...	...	...	...	.	.	...	...	...	...	0·5	...
5	. .	.	...	0·1	...	...	..	0·4	...	...	...	...	...	2·6	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...
6	...	...	...	2·1	...	...	...		...	...	...	0·3	...	3·9	0·2	...	...	.	. .	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	0·2	...	...	...	...	...	..	...	...	...	7·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.	...	...	...	...	...	...	...	0·5	...	...	...	...	1·8	...	...	...	0·2	..	...	...	...	...	...	..		...	.	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	. .	.	..	.	...		...	...	...	...
11	...	...		0·3	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...		...	...	...	...
Noon	...	...	0·5	0·1	...	...	...	...	...	...	...		...	...	...	...	0·3	...	..	...	...	..	...	...	...	..	...	...	...	...	...
13h	...	6·5	1·3	...	...	...	...	...	...	...	...	...	...	. .	...	...	0·8	...	..		...	..	...	...	...	...	...	...	...	...	...
14	...	0·8	1·3	1·1	...	...	...	...	...	...	...	...	...	...	...	..	...		...	...	...	...	...	...	...	...	...	..	0·4	...	...
15	...	0·8	2·0	1·4	...	...		...	...	...	...	...	..	...	0·3	..	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...
16	...	0·9	1·0	.	...	...	...	...	...	..	...	...	...	...	...	...	1·0	...	..	...	...	...	...	...	...		...	1·5	0·1	...	...
17	. .	...	0.3	..	...	...	...	...	...	...	...	...	...	..	..	.	4·5	...	...	...		...	...	..	..	...		0·6	...	...	...
18	..	...	1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...	...	..	...	..	0·5	4.4	...	...	...
19	...	...	0.9	...	...	...	...	...	...	...	...	0·1	...	...	...	...	0·1	...	...	...	...	...	...	...		...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	..	...	0·5	...	...	...	. .	0·2	...	...	...	...	...	..	..	...	...	...	...	...	...	...
21	...		..	...	...	...	...	...	...	...	...	0·2	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	..	0·7	...	0·2	...	...	...	...	...	...	...	0·2	0·5	...	0·1	...	...	...	...	...	...	.	...	...	...	...	...	...	...	..	...
23	...	...	2·3	...	...	...	...	...	...	...	...	0·7	1·8	...	...	...	.	...	...	.	...	...	...	...	...	...	...	..	...	...	..
24	...	...	0·9	...	...	0·7	...	...	...	...	0·3	0·4	...	...	0·7	..	...	...	...	...	..	...	...	...	...	...	...	...	0·3	..	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, November, 1949

Districts	Stations	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days
Port Louis	Line Barracks ...	...	3·55	90·2	...	7
B. River	Pierre Fonds Ltd. ...	...	4·97	126·2	2·54	9
	La Ferme ...	350	3·69	93.7	1·65	7
	Richelieu ...	...	1·31	33·3	...	6
	Mon Repos (Palmyre) ...	...	2·02	51·3	...	5
	Médine ...	..	3·02	76·7	...	7
	La Mecque ...	..	2·34	59·4	...	8
	Albion ...	...	2·03	51·6	...	5
	Beaux Songes ...	...	2·86	72·6	...	10
	Clarens ...	...	1·02	25.9	...	4
	Mare-Longue ...	...	5.55	141·0	..	15
	Mon Désert ...	...	1·37	34·8	...	5
P/mousses	Botanical Gardens ...	325	2·12	53·9	2·19	10
	Solitude ...	175	2·53	64·3	1·23	4
	La Nicolière ...	...	3·09	78·5	5·15	15
	The Observatory ...	179	2·30	58·5	1·76	12
	California	...	...	...	...	...
Rivière du Rempart	St. Antoine ...	50	1·21	30·7	1·42	6
	Bel Mont ...	50	0·40	10·2	1·83	5
	Poudre d'Or ...	20	0·56	14·2	1·73	5
	Mon Loisir S.E. ...	300	2·26	57·4	2·16	9
	Forbach ...	..	...	1·59	40·4	1·80	7
	Couroupa ...	..	...	1·15	29·1	2·17	6
	Labourdonnais ...	290	1·63	41·4	2·00	8
	Beau Séjour ...	300	2·03	51·6	2·63	11
	Mont Piton ...	680	2·22	56·4	2·42	9
	Ravensworth ...	...	2·97	75·4	...	8
	Mon Choix ...	700	1·93	49·0	2·33	9
	Antoinette ...	640	2·93	74·4	2·67	12
	Mon Songe ...	620	2·75	69·9	3·04	7
Moka	Bonne Veine ...	400	6·85	174·0	6·35	15
	Le Réduit ...	1,000	2·68	68·1	2·20	11
	Alma ...	1,460	5·65	143·5	5·12	17
	Mon Désert ...	1,450	3·72	94·5	...	7
	Hermitage ...	14,50	3·49	88·6	5·94	10
	Béga ...	..	2·19	55·6	...	5
	Côte D'Or ...	...	3·80	96·5	...	7
	Mon Rêve ...	...	3·09	78·5	...	8
	Mont Pévril ..	...	2·09	53.1	...	6
	Minissy ...	1,150	3·80	96·5	...	8
Plaines Wilhems	Curepipe Gardens ...	1,840	7·39	187·8	5·43	16
	Aerological Station ..	1,393	3·30	83·8	4·80	18
	Mare-aux-Vacoas (G.E.) ...	1,850	6·69	169·9	6·63	17
	Mare-aux-Vacoas (Arn.) ...	1,700	8·29	210·6	6·32	17
	La Marie Filker Beds ...	1,420	5.04	128·0	4·30	12
	Réunion ...	...	4·28	108·7	3·38	13
	Phœnix ...	...	...	...	...	...
	Quatre Bornes ...	...	...	...	...	..
	Bagatelle ..	1,250	4·38	111·2	2·75	10
	Pétrin ...	..	8·78	223·0	...	16
	Henrietta ..	...	3·91	99·3	...	8
	Tamarin-Falls ...	...	2·93	74·4	...	9
	Tamarin ...	...	2·20	55·9	...	5
	Moon ...	...	4·39	111·5	...	9
	La Pipe and Midlands Dam	...	11·02	279·9	...	14
	Highlands ...	1,300	5·08	149·0	...	10
	Trianon ...	950	...	...	...	...
	Bassin ...	..	3·69	93·9	...	9
	Ebène ...	630	1·83	46·5	...	7
Flacq	Mare Sèche ...	20	...	...	1·62	...
	Australia ...	...	1·97	50·0	...	...
	Union Régnard S.E. ...	600	3·86	98·0	2·78	11
	Constance La Gaieté ...	100	2·16	54·9	2·64	6
	Belle Vue (Allendy) ...	900	2·44	62·0	4·11	6
	Sans Souci ...	20	9·11	231·4	6·12	12
	Rich Fund ...	...	2·89	73·4	...	11
	Beau Champ G.R.S.E. ..	400	1·45	36·8	2·47	7
	Olivia ...	...	2·53	64·3	4·22	11
	Trois Ilots ...	...	2·68	68·1	...	7
	Belle Rive ...	400	3·30	83·8	6·75	10
G. Port	Rose Belle ...	850	5·09	129·3	7·98	16
	Union Park ...	...	6·02	152·9	...	17
	New Grove ...	650	4·25	108·0	...	7
	Astroea ...	...	4·90	124·5	...	14
	Deux Bras ...	...	4·37	111·0	...	14
	Mon Trésor ...	...	1·90	48·3	...	8
	Beau Vallon ...	...	1·23	31·2	...	5
	Union Vale ...	...	1·79	45·5	...	10
	Mon Désert Carié ...	75	1·45	36·8	2·90	9
	Ferney ...	20	2·55	64·8	3·50	9
	Ste. Hélène ...	.	...	1·11	28·2	...	5
	Sauve Terre ...	...	1·71	43·4	...	8
Savanne	Tivoli ...	1,300	7·43	188·7	5·90	16
	La Flora ...	1,050	6·75	171·5	7·21	16
	Riche Bois ...	650	2·60	66·0	5·93	14
	Britannia ...	700	5·13	130·3	4.55	13
	Beau Climat ..	...	7·53	191·3	...	16
	Savannah ...	200	1·26	32·0	3·63	8
	St. Aubin ...	300	2·85	72·4	3·24	13
	St. Avold ...	900	5·05	128·8	5·88	16
	Colmar ...	400	3·06	77·7	4·38	14
	Terracine ...	...	2·20	55.9	..	12
	Union S.E. ...	..	1·88	47·8	4·18	13
	Fontenelle ..	320	3·20	81·3	4·13	11
	Choisy ...	200	4·50	106·7	2·66	9
	Beau Bois ...	...	5·08	129·0	...	15
	Bel Air ...	...	2·59	65·8	...	11
	St. Félix ...	...	1·79	45·5	...	9
	Bel Ombre ...	40	1·62	41·1	2·30	5
	Beau Champ B. du Cap ...	...	1·17	29·7	2·73	5
	Frédérica ...	...	3·11	79·0	3.27	8
	Ste. Marie ...	...	1·56	39·6	...	5
	Combo ...	...	3·84	97·5	...	13
St. Brandon	Met. Station ..	...	1·02	25·9	...	13
Agalega	Met. Station ...	...	0·99	25·1	...	7
Rodrigues	Oyster Bay ...	...	0·93	23·5	...	9
Chagos-Archipelago	Salomon Islands (Boddam).	...	15·22	386·6	...	20

Table XVI.—Observations of Pilot Ballons, month of November, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	07.47	11	04	17	02	21	04	18	05	..	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08.20	06	02	05	02	18	02	18	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	09.00	09	11	07	10	09	12	11	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	08.24	07	10	08	22	07	20	08	15	...	..	..	...	...	...	...	...	...	...	...	...	...	...
5	08.40	11	09	16	07	19	13	27	01	13	11	17	19	...	...	...	...	...	...	...	...	...	...
6	07.55	12	12	08	07	05	09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	08.16	09	08	11	11	11	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	08.35	08	12	09	12	08	12	07	13	...	..	...	...	...	...	...	...	...	...	...	..	...	...
9	08.48	08	11	06	15	04	13	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	08.40	06	07	05	09	36	11	35	11	29	01	...	...	...	...	...	...	...	...	...	..	...	...
11	08.29	08	01	20	03	31	06	31	08	...	...	...	...	...	...	...	...	...	...	...	..	...	...
12	08.45	14	29	13	27	13	30	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...
13	08.36	12	25	10	26	11	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	08.50	11	28	10	24	10	17	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
15	08.37	10	12	12	12	12	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	07.57	10	19	12	11	17	08	13	15	13	10	...	...	...	...	...	...	...	...	...	...	...	...
17	08.04	08	11	07	12	04	03	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
18	08.42	10	07	15	02	23	03	33	02	14	05	...	...	...	...	...	...	...	...	...	...	...	...
19	08.20	10	04	10	04	35	05	08	08	09	07	...	...	...	...	...	...	...	...	...	...	...	...
20	08.15	05	04	33	08	15	06	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...
21	08.40	11	04	11	12	11	16	12	15	13	07	...	...	...	...	...	...	...	...	...	...	...	...
22	09.00	09	03	09	12	09	16	08	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	09.06	06	14	04	09	05	07	11	12	...	...	..	...	...	...	...	...	...	...	...	...	...	...
24	08.40	06	11	07	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	08.33	08	15	07	16	...	...	06	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	08.40	04	18	05	08	05	09	33	12	31	08	...	...	...	...	...	...	...	...	...	...	...	...
27	08.09	00	00	18	01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	08.30	09	14	06	10	09	07	15	06	19	03	...	...	...	...	...	...	...	...	...	...	...	...
29	08.14	08	05	08	09	...	...	..	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...
30	08.30	10	13	09	21	09	24	..	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C. 1

VOL. XXXV PART XII

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AUG 17 1953
WEATHER BUREAU

COLONY OF MAURITIUS

Royal Alfred Observatory, Mauritius

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

Magnetical and Meteorological Observations

FOR THE MONTH OF

DECEMBER, 1949

N. R. McCURDY, B.Sc.
Director.

Published by Authority of His Excellency the Governor

PRINTED BY H. F. KELLY, ACTING GOVERNMENT PRINTER, APRIL 1953. 1719/4/53 - 210

Table I.—Results of Magnetical Observations taken during the month of December, 1949

Month and Day	Mean: Declination (West)	Mean: Horizontal Force (C.G.S. Units)	Mean: Vertical Force (C.G.S. Units)	Daily Range: Declination	Daily Range: Horizontal Force (Unit 1 γ)	Daily Range: Vertical Force (Unit 1 γ)
Dec.	° ′			′		
1	15 34·5	.22302	.30371	6·0	40	6
2	34·3	323	368	9·2	41	17
3	34·3	335	363	9·0	58	13
4	34·3	339	369	7·8	51	10
5	34·5	336	370	8·6	46	08
6	35·1	338	366	5·8	39	17
7	34·8	349	366	8·0	33	22
8	35·4	352	361	9·2	29	33
9	34·7	332	369	9·6	66	15
10	34·1	334	368	9·6	27	20
11	34 0	346	365	8·0	38	23
12	34·3	352	364	9·4	30	22
13	34·0	354	366	5·4	37	16
14	34·5	351	368	4·6	100	7
15	34·1	348	—	8·4	42	—
16	34·3	339	—	6·0	26	—
17	34·7	341	362	4·4	31	13
18	34·8	349	362	7·0	35	19
19	34·2	359	362	9·2	57	16
20	35·5	333	357	12·6	35	36
21	—	344	362	—	63	11
22	35·0	348	358	12·6	28	27
23	35·4	345	358	11·8	29	32
24	35·5	322	360	11·8	52	22
25	35·2	329	361	7·6	50	13
26	35·4	329	364	10·4	44	19
27	36·0	343	359	10·6	28	35
28	36·3	342	358	11·6	70	30
29	36·4	323	363	9 6	44	19
30	36·4	343	356	5·7	59	34
31	37·1	329	357	6·6	105	38
Mean	° ′ 15 34·97	.22339	.30363	′ 8·54	46·2	21·1

T= ·37695 : Mean Dip= 53°39′·42 X= ·21518 : Y= −·060010 : Z= ·30363

Magnetic Disturbances—December, 1949

3d. Slightly disturbed.
5d. Slightly disturbed.
6d. Slightly disturbed.
9d. Moderately disturbed.
14d. Moderately disturbed.
15d. Slightly disturbed.
16d. Slightly disturbed.
18d. Slightly disturbed.
19d. Slightly disturbed.
20d. Slightly disturbed.
21d. Moderately disturbed.
23d. Slightly disturbed.
24d. Moderately disturbed.
29d. Slightly disturbed.
30d. Slightly disturbed.

Table II.—Results of Absolute Determinations of the Magnetic Elements made during the month of December, 1949

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
6 9 32	15 37·63	2 9 26	·22334	6 9 41	53 39·63	.30370
13 10 04	15 35·50	6 9 12	·22349	13 10 15	53 38·25	.30366
20 9 47	15 37·13	9 9 29	·22353	20 9 56	53 39·50	.30372
27 9 13	15 41·25	13 9 42	·22369	27 9 23	53 38·87	.30364
		16 9 33	·22346			
		20 9 26	·22345			
		27 9 47	·22351			

Table III—Magnetic Declination West at every Hour of the Day as deduced from the Photographic Records

DECEMBER 1949

15° +

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	′	′	′	′	′	′		′	′		′	′	′	′	′		
Midnight	34·8	35·0	34·7	34·8	35·2	35·3	34·6	34·9	34·4	35.1	35·0	35·2	35·0	34·3	35·2	34·6	Midnight
1h	33·2	34·9	34·8	34·9	35·4	35·0	34·8	35·0	34·6	35·0	34·9	35·0	35·1	34·6	35·1	34·8	1h
2	33·8	34·8	34·2	34 2	34·0	35·2	35·0	34 8	35·0	35·2	34·8	34·9	35·2	34·5	35·2	34·2	2
3	34·4	34·6	34·0	35·4	35·2	35·4	35·2	35·0	35·2	35·0	34·9	34·8	35·4	35·0	35·4	34·8	3
4	34·8	35·2	33·9	35·2	35·0	35·4	35·4	35·2	35·6	35·4	35·0	35·0	36·0	35·2	35·2	35·0	4
5	35·2	35·0	34·4	36·4	36·0	35·6	35·6	35·4	36·4	36·2	35·2	35·4	36·4	35·4	35 3	35·2	5
6	36·0	35·4	35·6	36·0	38·1	35·2	36·6	36·4	37·0	37·4	35·4	35·6	36·0	35·2	36·0	35·6	6
7	36·8	37·0	38·0	36·4	39·0	37·6	38·2	37·6	38·4	38·0	35·6	36·0	34·0	34·4	34·8	36·2	7
8	37·4	39·0	39·2	37·6	38·6	38·4	38·0	39·6	39·6	37·0	36·2	36·4	32·9	34·0	35·0	37·0	8
9	37·0	38·4	39·4	38·0	36·4	38·0	37·8	40·2	38·6	36·4	36·4	37·6	33·1	34·8	36·0	36·8	9
10	37·6	37·4	38·2	36·0	34·4	37·4	38·0	40 0	35·6	35·8	37·0	38·4	35·2	35·6	37.8	36·2	10
11	37·0	35·0	36·4	34 2	32·4	37·0	35·6	39·4	35·4	34·0	34·9	37·4	35·6	35·8	37·6	35·2	11
Noon	34·4	33·6	35·0	31·6	31·0	34·4	33·0	37·0	32·0	32·0	34·0	37·0	34·0	36·0	35·4	34·0	Noon
13h	32·0	30·6	32·0	30·2	30·8	33·0	31 6	34·2	31·0	30·0	32·0	32·4	33·0	34·8	33·0	33·8	13h
14	31·6	29·8	30·6	30·4	30·4	32·8	30·2	32·0	30·0	28·4	30 0	30·0	31·9	34·0	30·0	33·9	14
15	32·0	30·4	30·4	30·8	31·0	32·6	30·6	31·0	30·6	28·8	29·0	29·0	31·0	32·0	29·4	32·0	15
16	32·8	31·6	31·6	32·4	33·0	33·2	32·0	32·2	31·8	30·4	30·2	29·9	31·8	31·4	29·6	31·0	16
17	33·2	23·6	31·8	33·8	34·0	34·0	33·2	33·0	33.6	32·0	31·6	30·9	32·2	33·4	30·6	31·2	17
18	33·4	33·8	32·4	35·0	34·4	34·6	34·4	34·6	33·8	33·8	33·0	32·4	33·0	34·6	32·4	32·0	18
19	33·6	33·6	33·0	34·0	34·6	35·0	34·8	34·2	33·9	34·2	33·2	33·0	33·2	32·4	33·0	32·4	19
20	34·0	33·4	33·2	34·2	34·8	34·2	34 9	34·8	35·0	34·6	34·0	33·2	33.4	35·0	33·6	33·6	20
21	34·4	33·8	33·4	34·4	35·0	34·4	35·0	34·9	34·8	34·8	34·4	34·2	33·8	34·9	34·0	34·0	21
22	34·6	34·0	33·6	34·0	35·2	34·8	34·8	34·8	34·8	35·0	34·8	34·6	34·2	35·6	34·1	34·2	22
23	34·8	34·2	33·8	34·0	35·0	35·0	34·8	34·4	35·0	34·9	35·0	34·8	34·6	35·0	34 2	34·4	23

DECEMBER 1949—*continued*

15° +

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	′	′	′		′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	34·8	35·0	35·1	35·2	36·2	35·3	35 4	36·0	35·7	36·0	35·9	36·0	38·0	36·2	38·4	35·4	Midnight
1h	35·2	35·2	35·2	35·4	37·0	35 6	35 2	35·4	35·4	35·8	35·8	36·2	37·8	36·3	38·0	35·3	1h
2	35 4	35 6	35·0	36·0	37·8	35·8	35·6	35·9	35·6	35·9	35·6	36·0	36·4	36·2	38·3	35·3	2
3	35·8	36·0	36·2	37·6	37·9	36·0	35·8	36·2	35·8	36·0	35 9	36·4	37·0	36·0	38·0	35·6	3
4	36·0	36·0	36·4	38·0	38·0	36·3	36·4	36·0	36·0	36·6	36·4	37·2	37·6	36·8	37·9	35·9	4
5	36·1	36·6	37·2	38·4	38·4	37·0	36·6	36 8	35·4	37·6	37·0	37 8	36·0	37·0	38·6	36·2	5
6	36·3	37·0	38·0	40·2	39·8	37·8	37·8	35·6	35 6	37·6	37·6	36·4	35·6	37·6	40.2	36·7	6
7	37 6	37·8	38·8	42 0	40·2	39·0	38·6	34·0	35·4	38 0	38·4	37·0	34·0	36 2	40·0	37·1	7
8	36·0	37·0	37·2	41·6	40·0	40·0	40 0	38·4	36·4	38·8	42·0	38·6	35·4	37·4	40·6	37·8	8
9	35·0	37·2	35·8	39·6	—	40·2	41·0	41·0	38·0	40·0	42·0	41·2	39 0	38 4	40·4	38·1	9
10	34·0	36·0	33·6	35·8	—	38·8	40·4	40·4	37·6	40·0	42·4	42·4	41·0	39·6	40 2	37·8	10
11	34·4	34·0	31·0	32·2	—	36·0	39·4	40·0	37·6	38·4	40·2	42 0	42·0	39·2	39·0	36·6	11
Noon	34·2	32·4	30·0	30·0	—	32·0	34·0	36·0	34·4	34·2	36·4	39·4	40·6	37·4	38·0	34·4	Noon
13h	34·0	30·8	29·6	29·4	—	29·4	30 4	31·0	32·0	31·9	34·2	36·0	39·0	36·0	36·0	32·5	13
14	33·6	31·6	30·0	30·4	30·0	27·6	29·2	29·2	30·4	29·8	33·6	33·4	35·0	35·0	35·0	31·4	14
15	34·0	33·0	31·8	32·0	32·4	28·0	29·9	30·4	30·6	29·6	32·0	30·8	33·6	34·0	34·0	31·1	15
16	34·0	34·0	33·2	33·2	34·4	30·6	31·0	31·8	31 6	30·0	31·8	31·2	32·4	34·0	34·0	31·9	16
17	33·2	34·2	33·6	34·0	35·8	32·0	33 6	33·9	34 0	32·2	31·9	31·9	33·0	33·9	34·2	32·9	17
18	33·8	34·2	33·0	34.0	35·6	36 0	34·0	35·2	35 0	34·0	33 0	33·6	33·8	34·4	34·8	33·9	18
19	33 6	34·0	33·2	34·4	35·2	35·6	35·0	35·8	36·4	35·0	33·2	34·0	35·0	34·8	34·6	34·1	19
20	34·0	33·9	33·6	34·6	35·0	35·4	35·8	35·9	37·4	34 8	33·8	34·2	34·8	35·0	35 0	34·5	20
21	34·1	34 0	34·0	35·0	36·0	35·6	36·0	36·0	37·2	35·4	34·0	35·6	35·4	35·8	35·2	34·8	21
22	34·2	34·2	34·2	35·2	36·2	35·2	35·0	36·4	35·8	36·5	35·0	36·8	35·0	36·6	35·8	35·0	22
23	34·4	34·8	34·9	36·0	35·8	35·2	34·2	35·9	35·6	35 8	35·6	37·0	35·6	37·4	36·0	35·1	23

Table IV.—Magnetic Horizontal Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

DECEMBER 1949

+ ·22000 (C.G.S. UNIT)

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	300	314	320	329	317	338	347	340	351	319	330	339	344	347	331	348	Midnight
1	330	319	319	335	318	339	342	341	354	320	330	340	342	348	338	343	1
2	311	320	320	339	328	344	348	342	347	322	331	342	341	349	340	354	2
3	300	321	323	336	330	348	344	344	342	330	334	344	342	350	339	353	3
4	298	322	320	338	339	341	347	348	348	331	339	347	351	352	343	347	4
5	296	321	319	334	331	338	349	350	358	330	341	348	354	359	342	341	5
6	295	320	324	342	339	350	349	352	364	338	350	349	356	362	349	344	6
7	293	324	334	354	349	357	354	358	360	339	360	352	368	380	358	343	7
8	289	326	343	361	340	358	358	361	349	340	364	359	378	390	366	347	8
9	290	330	352	368	348	350	354	367	351	342	363	360	372	397	361	348	9
10	302	342	361	370	356	342	354	365	359	346	368	367	378	393	360	349	10
11	300	341	369	360	362	340	359	354	350	339	362	369	371	375	350	340	11
Noon	290	348	370	342	363	330	362	359	330	340	354	367	364	354	334	330	Noon
13	292	337	370	343	352	329	364	362	312	342	347	366	363	351	324	329	13
14	300	325	354	342	334	332	367	363	320	340	342	365	358	348	329	330	14
15	307	315	350	337	327	334	362	360	329	337	350	360	350	347	332	328	15
16	300	308	338	320	326	321	354	354	310	338	352	350	346	332	340	329	16
17	295	309	320	319	325	319	345	350	300	340	348	344	345	338	349	334	17
18	300	314	312	328	327	327	338	342	298	339	339	346	344	320	343	337	18
19	307	317	317	333	323	329	334	338	300	330	337	347	345	394	338	332	19
20	306	316	318	331	320	334	336	343	313	329	340	349	344	297	339	333	20
21	308	318	320	329	325	339	337	339	311	328	338	347	348	303	348	334	21
22	309	319	329	330	337	337	338	354	309	327	339	343	347	319	350	337	22
23	312	320	330	331	338	340	339	350	310	329	338	341	348	322	349	336	23

DECEMBER 1949—*continued*

+ ·22000 (C.G.S. UNIT)

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
Midnight	338	337	344	343	318	354	339	341	322	324	329	337	302	335	285	331	Midnight
1h	346	349	347	342	317	352	340	329	325	323	330	338	301	336	297	333	1h
2	340	348	350	341	318	350	342	324	324	327	330	333	310	334	309	334	2
3	359	344	350	340	319	345	343	330	328	326	333	338	311	338	320	335	3
4	340	345	349	340	320	353	342	334	329	324	330	339	309	333	329	336	4
5	339	341	350	347	328	348	341	330	335	321	337	341	318	329	335	337	5
6	334	339	353	348	334	352	344	335	340	327	340	348	331	334	347	342	6
7	331	343	361	346	340	353	349	339	350	337	350	360	344	352	362	348	7
8	338	349	369	340	354	357	350	342	359	348	356	370	345	362	364	353	8
9	350	358	378	341	362	356	349	338	359	349	355	380	338	365	375	355	9
10	362	369	384	350	367	359	350	336	352	348	354	379	336	362	390	358	10
11	360	372	397	351	373	360	349	320	330	337	351	371	328	369	370	354	11
Noon	349	364	389	342	380	356	343	318	320	332	357	360	312	368	350	348	Noon
13	342	361	387	334	372	357	337	290	321	305	349	350	310	362	325	342	13h
14	345	364	380	316	360	350	344	292	322	308	334	340	314	348	307	338	14
15	340	355	367	318	350	347	356	300	320	318	335	338	318	352	306	337	15
16	332	345	360	324	340	348	357	312	321	331	348	334	319	354	312	334	16
17	335	343	352	323	346	347	350	314	324	334	349	334	324	349	318	333	17
18	337	342	350	325	338	340	350	318	320	332	344	331	327	338	313	331	18
19	336	344	344	321	339	332	347	319	319	328	342	329	323	339	310	332	19
20	337	342	343	318	331	334	337	320	309	329	341	328	322	338	307	329	20
21	338	343	341	316	337	333	328	320	317	328	347	327	330	327	308	329	21
22	339	341	340	330	345	335	347	316	322	327	343	320	331	321	314	332	22
23	338	345	341	319	341	336	352	321	328	328	341	310	333	310	319	332	23

Table V.—Magnetic Vertical Force at every Hour of the Day as deduced from the Photographic Records

(The values are not corrected for the effect of the diurnal change of Temperature in the Magnet Chamber)

DECEMBER 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	370	370	370	368	370	368	368	367	366	374	370	367	368	366	368	—	Midnight
1h	373	370	369	369	370	369	368	367	366	374	370	367	369	366	368	—	1h
2	373	370	369	367	370	367	368	367	367	375	370	368	370	366	369	—	2
3	372	370	369	369	370	368	368	367	368	375	370	368	370	368	370	—	3
4	372	371	370	370	368	368	369	367	368	372	370	369	370	369	370	—	4
5	372	372	371	370	370	370	369	368	368	373	369	369	370	369	370	—	5
6	373	373	373	372	374	370	373	370	369	374	370	369	368	368	370	—	6
7	373	373	372	373	376	372	374	372	373	373	370	370	368	367	369	—	7
8	373	372	372	374	373	373	373	374	373	374	373	371	364	368	370	—	8
9	372	372	370	372	369	373	372	364	372	372	372	372	371	368	—	—	9
10	372	372	366	372	372	373	370	364	370	370	372	372	373	370	—	—	10
11	372	367	358	370	370	364	361	364	368	366	370	364	372	369	—	371	11
Noon	371	363	353	368	369	369	363	351	364	359	362	354	366	370	—	370	Noon
13h	370	356	344	367	368	358	352	344	360	357	358	351	358	370	—	370	13h
14	369	357	340	364	368	356	352	341	360	355	350	350	357	368	—	363	14
15	367	360	344	364	369	357	358	343	362	358	351	350	357	364	—	359	15
16	367	363	350	367	368	360	361	350	368	361	352	355	360	363	—	356	16
17	368	368	358	370	370	364	366	357	372	367	358	359	364	363	—	358	17
18	367	369	362	369	369	366	368	360	375	368	361	362	363	365	—	360	18
19	367	368	363	364	369	366	367	360	374	366	362	361	363	363	—	360	19
20	369	369	366	366	370	366	367	362	374	367	363	361	363	370		361	20
21	370	370	367	367	370	367	368	363	373	368	364	363	364	370	—	361	21
22	370	370	367	338	370	368	369	366	374	370	367	364	366	370	—	362	22
23	370	370	367	368	369	369	370	365	374	370	368	367	366	370	—	362	23

DECEMBER 1949—*continued*

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	Day / Hour
	+ ·30000 (C.G.S. UNIT)																
Midnight	363	363	363	363	363	360	360	363	361	363	363	362	366	361	365	366	Midnight
1h	363	363	362	363	363	360	360	363	360	364	363	362	366	361	365	366	1h
2	363	362	362	364	364	360	360	363	360	364	363	363	366	361	366	366	2
3	365	362	363	366	364	360	360	362	361	363	364	363	366	362	366	366	3
4	366	365	364	367	364	362	361	361	361	366	365	363	367	363	365	367	4
5	366	366	366	367	365	363	362	361	361	366	365	364	365	363	366	367	5
6	366	368	368	370	366	365	364	361	363	366	365	361	365	365	368	368	6
7	369	370	369	371	367	366	367	360	362	368	368	361	364	364	366	369	7
8	370	368	368	366	366	368	370	370	365	372	373	367	368	366	365	370	8
9	365	371	364	354	368	364	368	370	367	370	374	370	368	368	368	369	9
10	363	367	360	347	366	363	362	358	360	365	370	370	370	370	360	367	10
11	359	363	357	340	360	352	351	351	367	355	354	364	370	360	346	362	11
Noon	359	360	357	335	357	347	340	348	360	355	339	352	371	352	331	356	Noon
13h	359	357	353	336	359	342	338	349	356	353	340	347	365	347	334	353	13h
14	359	352	356	343	358	341	340	351	357	357	347	342	358	340	330	352	14
15	357	355	360	346	361	346	350	357	354	360	353	340	352	336	340	354	15
16	362	359	364	350	364	353	356	361	355	363	352	345	353	338	346	357	16
17	360	362	364	354	363	360	360	360	358	367	351	350	358	342	353	361	17
18	358	360	364	358	360	360	360	360	359	368	354	354	360	349	357	362	18
19	358	359	361	359	360	359	360	360	360	367	357	357	361	351	359	362	19
20	359	360	361	360	360	359	360	360	361	364	358	358	361	353	360	363	20
21	360	361	363	362	362	360	362	362	362	365	358	360	362	357	361	364	21
22	360	362	364	363	360	360	361	362	361	365	360	360	361	360	362	365	22
23	361	362	364	363	360	361	360	362	360	364	362	363	362	361	362	365	23

Table VI.—Results of Meteorological Observations made at the Aerological Station, Vacoas (424.5 metres above mean sea-level) during the Month of December, 1949

Month and days 1949	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the Air	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat 100)	Vapour Pressure	Wind Direction	Wind Velocity	Amount of Cloud (Scale 0—8)	3 h	9 h	15 h	21 h	Daily Maximum	Daily Minimum	Daily Range	Amount recorded by the Cavella Pluviograph	Duration	Duration of Bright Sunshine	Percentage of Possible Sunshine
DEC.	mbs.	°C	°C	°C	%	mbs.	°	mps.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	969·2	24·7	4·0	18·4	68	21·2	90	6·7	4	19·5	24·5	24·9	19·3	26·2	19·3	6·9	0·0	0	11·0	83
2	970·0	24·4	5·1	16·1	60	18·3	90	6·7	2	19·0	24·0	24·7	18·5	26·3	18·8	7·5	0·5	5	11·5	87
3	969·6	25·9	5·7	16·8	57	19·1	70	2·2	4	17·5	25·5	27·6	20·3	28·0	17·4	10·6	0·9	20	7·5	57
4	967·9	2[illegible]·9	4·0	18·7	69	21·6	70	5·4	6	19·2	24·4	25·5	18·7	26·5	19·0	7·5	0·7	15	7·8	59
5	968·4	24·9	5·7	15·6	56	17·7	95	3·6	1	18·0	24·3	26·4	18·4	27·8	7·5	10·3	0·0	0	9·3	70
6	968·1	26·7	6·4	16·4	54	18·7	90	0·9	2	16·9	26·4	24·9	18·7	27·5	16·6	10·9	0·0	0	8·2	62
7	968·1	24·4	4·8	16·7	52	19·0	Calm	Calm	6	17·5	24·0	24·1	20·0	26·0	17·3	8·7	0·1	0	4·7	36
8	966·9	25·4	5·1	17·3	61	19·8	Calm	Calm	6	17·8	24·8	22·9	18·5	26·4	17·5	8·9	1·3	15	4·2	32
9	966·6	24·3	3.4	19·0	73	22·0	Calm	Calm	5	17·2	23·5	26·0	18·2	27·4	16·9	10·5	11·8	70	5·5	42
10	967·9	23·6	2·7	19·4	77	22·5	135	2·2	7	18·1	23·0	19·8	19·5	25·3	18·0	7·3	3·4	65	2·7	21
11	967·7	25·1	3·9	19·0	69	22·0	90	2·2	4	19·5	24·5	22·5	19·6	26·4	19·0	7·4	8·6	110	4·0	31
12	968·5	23·7	3·0	19·0	75	22·0	110	4·5	3	19·5	22·7	25·4	19·4	26·0	19·0	7·0	0·0	0	10·6	80
13	968·6	25·9	5·0	18·1	63	20·8	70	1·5	3	18·5	25·4	23·2	19·5	27·7	18·0	9·7	3·4	30	7·0	53
14	968·5	26·0	5·3	17·6	60	20·1	Calm	Calm	6	19·0	25·3	24·9	19·6	27·5	18·9	8·6	0·0	0	6·7	51
15	968·4	25·9	4·7	18·6	64	21·4	90	1·8	4	18·5	25·2	25·5	20·0	27·1	18·5	8·6	0·0	0	8·0	60
16	968·0	26·2	5·5	17·5	59	20·0	70	2·7	3	20·0	25·4	26·9	20·6	28·0	20·0	8·0	0·0	0	11·1	84
17	966·7	25·9	4·5	18·9	65	21·8	70	2·7	6	20·4	25·3	26·6	19·4	27·5	20·4	7·1	0·0	0	6·9	52
18	966·9	26·6	5·7	17·6	58	20·1	110	1·3	4	19·3	25·8	25·6	20·6	27·7	19·1	5·6	0·0	0	8·0	61
19	968·5	24·7	3·3	19·6	74	22·8	110	5·4	6	19·7	24·2	24·9	20·0	24·9	19·5	5·4	3·3	20	9·8	74
20	969·0	24·9	3·0	20·3	76	23·8	90	4·5	4	20·0	24·9	26·3	20·5	27·0	20·0	7·0	0·0	0	11·1	84
21	966·8	25·6	3·9	19.6	70	22.8	90	5·4	5	19·6	25·0	25·1	20·3	26·5	19·6	6·9	4·8	30	9·3	70
22	965·6	23·9	3·0	19·2	74	22·2	90	3·1	6	19·8	23·2	24·4	20·7	26·7	19·8	6·9	2·3	25	7·1	54
23	963·0	25·6	3·5	20·3	73	23·8	125	3·6	7	20·3	25·0	25·1	22·0	27·5	20·2	7·3	7·4	35	8·8	66
24	962·9	24·9	3·2	20·0	75	23·4	60	3·6	6	20·5	24·4	26·5	20·8	27·3	20·4	6·9	5·0	40	5·1	39
25	962·9	22·8	1·3	20·7	88	24·4	Calm	Calm	6	20·0	23·9	25·8	20·5	27·9	20·0	7·9	4·7	40	9·5	72
26	963·8	24·0	1·1	22·4	91	27·1	55	0·5	8	20·4	22·5	25·2	20·7	26·8	20·0	6·8	6·4	75	4·0	31
27	965·0	26·2	3·5	20·9	73	24·7	70	1·8	6	20·0	25·4	26·9	20·7	27·6	20·0	7·6	0·0	0	7·6	57
28	965·0	25.3	4·5	18·2	65	20·9	105	1·8	5	19·0	25·0	26·9	21·5	28·2	18·8	9·4	0·0	0	8·3	63
29	965·5	25·8	3.5	20·5	73	24·1	70	5·4	5	19·7	25·2	27·0	22·5	27·5	19·5	8·0	1·3	20	10·8	82
30	966·2	25·8	3·9	19·9	70	23·2	70	4.5	4	22·3	25·0	26·2	20·8	27·6	22·3	5·3	0·9	15	8·4	63
31	966·7	25·6	3·5	20·3	72	23·8	85	5·4	7	20·6	25·2	27·2	20·6	28·0	20·6	7·4	0·0	0	9·6	72
Mean ...	967·0	25·1	4·1	18·8	68·5	21·8	—	2·9	5·0	19·3	24·6	25·6	20·0	27·1	19·1	8·0	66.8	630	7·88	59·7
Average	966·5	24·6	3·2	19·6	74·5	22·8	—	3·2	6·0	—	—	—	—	26·8	19·3	7·5	227·5	1674	7·00	52·8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Excess of Certain Elements at Pamplemousses over the Corresponding Elements at Vacoas

Atmospheric Pressure	+	40·7 mbs.	Amount of Rain	−	34·2 mms.
Temperature of the Air	+	3·3 °C	Duration of Bright Sunshine	+	51·5 hrs
Vapour Pressure	+	0·7 mbs	Mean of Maximum Temperatures	+	3·2 °C
Relative Humidity	−	10·4 %	Mean of Minimum Temperatures	+	2·0 °C
Velocity of Wind	+	1·4 mps.	Absolute Maximum Temperature	+	3·5 °C
			Absolute Minimum Temperature	+	1·3 °C

Table VII.—Daily Results of Meteorological Observations made during the month of December, 1949

Month and Day 1949	Atmospheric Pressure		Temperature of the Air					Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point		Relative Humidity (Saturation = 100)		Vapour Pressure	Minimum on the Grass
	Mean	Excess above Average	Daily Maximum	Daily Minimum	Daily Range	Mean	Excess above Average		Mean	Excess above Average	Mean	Excess above Average		
DEC.	mbs.	mbs.	°C	°C	°C	C	°C	°C	°C	°C	%	%	mbs.	°C
1	1009·7	+ 1·3	29·1	21·2	7·9	24·9	+ 0·2	4·1	18·5	− 1·1	68	− 5	18·3	18·6
2	1010·7	+ 2·4	29·0	20·2	8·8	24·0	− 0·8	3·9	17·8	− 1·9	69	− 4	20·4	17·4
3	1009·6	+ 1·4	31·2	18·6	13·2	24·2	− 0·6	3·5	18·7	− 1·0	72	− 1	21·6	15·6
4	1008·6	+ 0·5	28·7	20·9	7·8	24·3	− 0·6	3·2	19·4	− 0·4	74	+ 1	22·5	19·5
5	1008·7	+ 0·6	30·2	19·6	10·6	24·6	− 0·3	4·5	17·5	− 2·3	65	− 9	20·0	16·8
6	1008·6	+ 0·6	30·3	17·9	12·4	24·3	− 0·7	3·7	18·5	− 1·4	70	− 4	21·3	15·4
7	1008·1	+ 0·2	28·8	19·0	9·8	24·2	− 0·8	3·5	18·7	− 1·4	72	− 2	21·6	16·5
8	1006·9	− 0·9	30·8	19·8	11·0	25·2	+ 0·1	4·1	17·7	− 2·5	63	− 11	20·3	17·4
9	1007·1	− 0·6	31·6	18·8	12·8	24·4	− 0·7	3·1	19·7	− 1·2	75	+ 1	23·0	15·9
10	1008·3	+ 0·7	27·2	19·4	7·8	22·8	− 2·4	1·7	20·2	− 0·1	85	+ 11	23·7	17·1
11	1008·7	+ 1·2	28·5	21·4	7·1	24·3	− 0·9	2·9	19·8	− 0·5	76	+ 2	23·1	19·9
12	1009·1	+ 1·7	29·1	21·0	8·1	24·4	− 0·8	3·3	19·3	− 1·0	73	− 2	22·4	18·4
13	1008·8	+ 1·4	30·2	19·5	10·7	24·6	− 0·6	3·5	19·2	− 1·1	72	− 3	22·2	17·8
14	1008·7	+ 1·3	30·3	19·9	10·4	24·9	− 0·4	3·6	19·4	− 1·0	71	− 4	22·5	17·4
15	1008·7	+ 1·4	31·0	21·2	9·8	25·5	+ 0·2	4·0	19·3	− 1·1	69	− 6	22·4	19·0
16	1008·0	+ 0·7	30·2	20·2	8·0	25·9	+ 0·6	3·9	20·0	− 0·6	70	− 5	23·4	19·1
17	1006·9	− 0·3	30·3	21·8	8·5	25·6	+ 0·2	4·1	19·3	− 1·4	68	− 7	22·4	19·0
18	1007·6	+ 0·4	30·4	21·0	9·4	25·5	+ 0·1	4·0	19·3	− 1·4	69	− 6	22·4	18·6
19	1009·3	+ 2·2	30·4	21·2	9·2	25·4	0·0	4·0	19·2	− 1·5	68	− 7	22·2	19·2
20	1008·5	+ 1·4	30·1	22·5	7·6	26·0	+ 0·6	4·2	19·6	− 1·1	68	− 8	22·8	19·9
21	1006·2	− 0·9	30·6	22·2	8·4	25·7	+ 0·2	4·2	19·2	− 1·6	67	− 9	22·2	19·4
22	1004·7	− 2·3	30·0	21·7	8·3	25·6	+ 0·1	3·6	20·2	− 0·6	72	− 4	23·7	19·4
23	1002·3	− 4·7	31·0	22·8	8·2	25·8	+ 0·3	3·2	21·0	+ 0·2	75	− 1	24·9	19·9
24	1002·9	− 4·0	31·7	23·0	8·7	26·8	+ 1·2	3·5	21·6	+ 0·7	73	− 3	25·8	21·4
25	1002·7	− 4·2	31·7	22·1	9·6	26·0	+ 0·4	2·9	21·7	+ 0·6	77	+ 1	26·0	19·0
26	1004·2	− 2·7	31·2	23·7	7·5	26·2	+ 0·6	3·2	21·4	+ 0·3	75	− 1	25·5	21·9
27	1005·4	− 1·4	31·6	22·0	9·6	26·1	+ 0·5	4·0	20·0	− 1·1	69	− 7	23·4	18·1
28	1005·1	− 1·7	31·0	20·7	10·3	25·9	+ 0·3	4·5	18·9	− 2·2	65	− 11	21·8	17·5
29	1005·7	− 1·0	31·0	22·3	8·7	26·2	+ 0·5	4·1	19·9	− 1·3	68	− 8	23·2	18·5
30	1006·9	+ 0·3	30·8	23·1	7·7	26·4	+ 0·7	4·1	20·1	− 1·1	69	− 7	23·5	20·5
31	1006·7	+ 0.1	30·8	22·6	8·2	26·3	+ 0·6	3·7	20·7	− 0·5	71	− 5	24·4	20·5
Mean	1007·2	− 0·2	30·3	21·1	9·2	25·2	− 0·1	3·7	19·5	− 1·0	70·9	− 4·0	22·8	18·5
Average	1007·4	—	29·7	21·6	8·1	25·3	—	3·2	20·5	—	74·9	—	24·1	19·1
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14

General Weather Conditions during the Month of December, 1949

Pressure was generally above normal up to the 20th and then below, particularly so from the 23rd-25th. The mean value was slightly below the normal. Temperature fluctuated about the normal with no large departure except on the 10th when it was considerably less than the average The mean value was just below normal. Rainfall was very short, only 28% of the average, but was fairly well distributed. Sunshine was 14% greater than normal.

Table VII *contd.*—Daily Results of Meteorological Observations made during the month of December, 1949

Month and Day 1949	Rainfall: Amount recorded by the Dines Pluviograph	Rainfall: Duration	Amount of Evaporation	Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the Soil: 10 Feet	5 Feet	2 Feet	12 Inches
DECEMBER	mms.	mins.	mms.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C
1	0·0	—	6·7	11·9	90	4·4	+ 1·1	24·2	24·5	26·2	27·3
2	0·2	5	9·9	12·6	95	4·1	+ 0·8	24·1	24·3	26·3	27·7
3	0·0	—	9·5	9·8	74	2·9	− 0·4	24·1	24·2	26·3	27·7
4	0·0	—	7·9	8·3	63	3·2	− 0·1	24·1	24·3	26·3	27·9
5	0·0	—	9·8	11·9	90	3·1	− 0·2	24·1	24·4	26·4	27·8
6	0·0	—	8·6	7·8	59	2·2	− 1·1	24·2	24·5	26·4	28·0
7	0·0	—	6·4	5·4	41	1·9	− 1·4	24·2	24·7	26·5	27·8
8	0·0	—	5·0	6·1	46	2·1	− 1·2	24·3	24·9	26·5	27·7
9	4·7	55	6·5	2·4	18	2·4	− 0·9	24·3	24·7	26·5	27·6
10	4·6	75	3·8	5·5	41	2·3	− 1·1	24·3	24·6	26·4	27·5
11	6·9	120	3·6	12·2	92	2·8	− 0·6	24·3	24·9	26·4	27·4
12	1·4	15	5·9	11·0	83	3·4	0·0	24·3	25·2	26·3	27·1
13	0·0	—	9·6	12·7	96	2·8	− 0·6	24·2	24·4	26·3	27·4
14	0·0	—	8·5	8·5	64	2·9	− 0·5	24·2	24·3	26·3	27·8
15	0·0	—	9·6	12·4	93	2·5	− 0·9	24·2	24·2	26·4	27·9
16	0·0	—	9·0	10·2	77	3·2	− 0·2	24·2	24·1	26·5	28·0
17	0·0	—	9·6	11·7	88	2·8	− 0·6	24·2	24·1	26·6	28·4
18	0·2	10	8·0	11·1	83	3·0	− 0·4	24·3	25·1	26·7	28·1
19	2·0	20	8.4	12·1	91	3·7	+ 0·3	24·3	24·9	26·8	28·4
20	0·1	5	7·2	11·3	85	3·9	+ 0·5	24·3	24·7	26·9	28·4
21	0·2	10	8·6	10·3	77	4·0	+ 0·6	24·3	24·5	26·9	28·6
22	0·2	5	9·0	5·7	43	3·6	+ 0·2	24·3	24·8	27·0	28·7
23	1·2	25	8·6	10·9	82	2·8	− 0·6	24·3	24·6	27·1	28·8
24	4·4	35	6·9	6·6	50	3·3	− 0·1	24·2	24·5	27·3	28·7
25	0·7	30	7·2	5·1	38	2·3	− 1·1	24·4	25·3	27·1	28·6
26	1·1	25	6·4	8·9	67	2·4	− 1·0	24·4	25·2	27·4	28·8
27	0·0	—	6·6	12·4	93	2·3	− 1.1	24·4	25·2	27·3	28·8
28	0·0	—	8·5	12·1	91	2·8	− 0·5	24·4	25·1	27·3	28·8
29	0·0	—	9·9	10·0	75	3·3	0·0	24·4	25·2	27·4	28·7
30	3·8	25	9·8	8·5	64	3·1	− 0·2	24·4	25·1	27·5	29·4
31	0·9	20	11·1	10·3	77	5·4	+ 0·1	24·5	25·5	27·6	29·3
Mean	32·6 Sum	480	7·9	9·54	71·8	3·00	− 0·36	24·27	24·71	26·73	28·16
Average	116·1	1211	6·6	8·35	62·6	3·36	—	—	—	—	—
Column	15	16	17	18	19	20	21	22	23	24	25

Means and Extremes of certain Meteorological Elements during the Month of December, 1949

Element	*Highest*			*Date*	*Lowest*			*Date*
Atmospheric Pressure	1012·1 mbs	at	08.00 & 22.00 hrs.	on 22nd	1000·2 mbs	at	16.00 hrs.	on 23rd
Temperature of the Air	31·7 °C	,,	13.00 hrs. / 12.40 hrs.	,, 24th / ,, 25th	17·9 °C	,,	05.00 hrs.	,, 6th
Daily range of temperature of the Air ...	13·2 °C	,,	—	,, 3rd	7·1 °C	,,	—	,, 11th
Temperature of the Dew Point	23·3 °C	,,	14.00 hrs.	,, 25th	14·9 °C	,,	13.00 hrs.	,, 5th
Daily range of temperature of the Dew Point...	6·2 °C	,,	—	,, 3rd	2·2 °C	,,	—	,, 24th
Minimum on Grass	—		—	,, —	15·4 °C	,,	—	,, 6th
Relative Humidity	100%	,,	00.00 hr.	,, 10th	37·2%	,,	11.00 hrs.	,, 3rd
Vapour Pressure	28·6 mbs.	,,	14.00 hrs.	,, 25th	16·9 mbs.	,,	13.00 hrs,	,, 5th
Evaporation in 24 hours	11·1 mms	,,	—	,, 31st	3·6 mms.	,,	—	,, 11th
Wind Velocity	7.1 m.p.s.	,,	14.00 hrs.	,, 1st	—	,,	—	,, —
Rainfall in 24 hours	11·5 mms ending		06.00 hrs.	,, 11th	—	,,	—	,, —
Duration of sunshine	12·7 hrs.		—	,, 13th	2·4 hrs.	,,	—	,, 9th

Mean Day Temperature of Air 27·84°C Average 27·69°C Mean Night Temperature of Air 22·62°C Average 23·68°C

NUMBER OF DAYS OF

Rainfall: mms. 0·1—0·9	mms. 1·0—4·9	mms. 5·0—9·9	mms. 10·0—24·9	mms. 25·0—39·9	mms. 40·0—54·9	mms. 55·0 and over	Lightning	Thunderstorm
7	8	1	—	—	—	—	—	—

Table VIII.—Barogram

DECEMBER 1949

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	102	108	114	095	091	092	089	082	070	081	090	096	102	091	093	090	Midnight
1h	094	106	106	089	085	089	082	076	064	076	083	091	096	084	089	085	1h
2	094	103	103	082	083	085	081	073	061	073	083	087	093	081	084	081	2
3	090	102	102	080	083	083	078	071	056	074	083	084	086	079	083	080	3
4	093	102	101	081	083	086	081	069	057	075	084	083	085	080	084	078	4
5	096	107	100	082	083	092	082	067	051	081	085	087	087	082	088	081	5
6	103	114	102	086	092	096	085	071	064	084	087	092	091	090	093	086	6
7	106	116	105	093	097	101	089	074	069	092	090	095	095	098	095	089	7
8	106	121	103	094	101	098	091	076	074	093	091	096	097	100	099	089	8
9	107	121	105	096	100	096	091	073	076	093	090	097	096	100	095	089	9
10	105	114	103	094	093	088	087	065	077	090	087	096	095	100	093	088	10
11	103	107	099	086	090	084	085	064	076	092	084	092	090	093	085	085	11
Noon	099	102	091	082	085	081	082	063	073	090	083	089	085	086	082	081	Noon
13h	091	100	085	077	081	077	081	061	072	084	082	083	081	082	083	076	13h
14	083	093	081	071	076	073	075	057	067	080	079	081	074	077	080	072	14
15	081	089	075	067	072	070	072	054	066	074	077	081	070	070	072	065	15
16	081	090	073	068	073	067	068	053	062	067	076	081	070	069	071	064	16
17	082	095	081	072	074	073	069	056	068	067	080	083	071	070	073	069	17
18	087	101	083	080	081	077	072	063	076	072	083	089	079	079	080	072	18
19	095	104	094	086	085	083	081	071	081	082	090	095	085	083	086	076	19
20	103	113	101	095	092	090	083	075	083	087	096	101	087	090	093	081	20
21	107	115	102	100	095	094	083	080	083	093	101	102	092	095	093	083	21
22	109	121	102	101	100	096	085	081	083	094	103	104	099	097	094	085	22
23	112	120	102	096	096	094	083	080	083	093	103	104	101	100	094	084	23

DECEMBER 1949—*continued*

The initial 10 or 9 is omitted. The unit in the table is 0·1 milibar

Day / Hour	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	081	073	090	101	073	060	038	023	041	036	059	061	061	072	073	1007·8	Midnight
1h	075	069	085	095	067	055	033	022	033	032	055	057	055	064	066	1007·3	1h
2	069	065	084	088	063	047	027	021	027	029	054	053	053	061	062	1006·9	2
3	064	065	083	087	062	045	024	020	023	029	051	047	048	061	060	1006·7	3
4	063	064	085	086	063	049	024	022	027	030	051	046	046	062	061	1006·8	4
5	065	066	091	087	067	053	026	029	029	035	055	047	055	064	062	1007·1	5
6	069	073	096	089	073	060	035	035	035	043	057	055	060	069	064	1007·6	6
7	074	077	100	092	077	062	037	038	039	045	061	060	062	075	066	1008·0	7
8	075	078	102	093	076	062	035	039	039	046	059	061	061	075	073	1008·1	8
9	076	080	101	093	075	060	033	040	039	047	055	059	061	073	073	1008·0	9
10	076	081	100	093	069	055	029	036	023	043	061	054	061	070	072	1007·7	10
11	075	076	101	089	069	053	024	034	020	043	060	050	056	067	071	1007·4	11
Noon	067	073	093	086	063	046	024	031	014	041	055	043	053	068	068	1007.0	Noon
13h	063	073	091	083	061	043	022	026	011	040	049	040	050	066	060	1006·7	13h
14	061	069	084	081	053	040	015	021	009	035	043	035	043	062	055	1006·2	14
15	054	065	083	073	044	036	009	020	006	034	041	033	043	061	055	1005·8	15
16	053	066	081	072	042	033	002	017	007	030	041	033	043	057	054	1005·7	16
17	056	072	083	076	047	032	003	017	013	032	043	036	044	060	055	1006·0	17
18	061	081	090	081	048	033	008	022	021	041	045	044	051	060	062	1006·5	18
19	065	084	096	083	055	041	016	029	029	050	054	056	062	078	069	1007·2	19
20	071	090	100	084	059	043	018	035	035	056	062	063	069	080	075	1007·8	20
21	076	092	102	085	062	043	023	038	041	061	063	066	075	081	081	1008·1	21
22	081	096	104	095	064	044	023	039	042	061	064	065	075	082	081	1008·3	22
23	081	095	103	082	065	043	025	041	042	060	062	064	074	080	080	1008·2	23

Table IX.—Duration of Bright Sunshine at the Aerological Station, Vacoas, by the Campbell Stokes Recorder

DECEMBER 1949

Day / Hour Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	
6h	0	0	10	10	0	0	0	0	0	0	0	0	0	5	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0·7
7	10	35	60	60	0	60	50	45	60	60	0	40	50	60	55	40	50	45	30	30	30	20	10	50	5	10	60	20	35	35	35	19·2
8	50	60	60	35	50	60	30	60	60	60	35	60	60	60	60	60	60	60	20	60	60	60	60	60	60	60	60	35	20	30	10	26·3
9	60	60	60	35	60	60	30	60	45	40	60	60	60	60	60	60	60	60	20	58	55	60	60	30	60	0	60	60	60	60	50	27·0
10	60	60	60	60	60	60	5	50	25	0	60	60	60	60	60	60	60	60	50	45	60	35	55	15	60	0	60	60	60	60	60	25·7
11	60	60	60	60	60	60	5	15	5	0	60	60	55	60	60	60	60	60	60	50	50	35	60	30	60	5	60	60	60	60	60	25·2
Noon	60	60	50	45	60	45	0	0	0	0	15	60	40	35	45	60	60	60	42	60	60	50	60	10	60	5	20	60	50	60	60	21·5
13h	60	60	60	20	60	40	25	10	20	0	0	60	0	0	30	60	50	20	55	60	60	15	45	35	60	40	10	60	55	60	60	19·8
14	60	60	5	0	40	45	0	0	55	0	0	60	30	25	40	60	0	0	60	60	60	40	0	50	35	55	40	60	60	60	60	18·7
15	60	60	0	30	55	42	20	0	60	0	0	60	0	10	25	60	0	30	50	60	60	10	50	25	60	60	50	50	60	0	52	17·5
16	60	60	5	10	60	60	50	0	0	0	0	50	0	10	20	60	0	35	60	60	30	0	10	2	50	50	35	15	60	5	55	13·9
17	60	60	15	45	15	15	40	12	0	0	10	55	5	15	15	60	15	45	60	60	35	50	60	0	45	45	0	0	60	20	40	15·5
18	60	55	5	60	35	35	30	0	0	0	0	10	60	5	10	25	0	2	60	60	0	50	60	0	15	15	0	20	60	55	35	13·0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

The Total Amount of Registered Sunshine was 244·2 hrs., and the Total Possible Sunshine was 412·3 hrs.

Table X.—Duration of Bright Sunshine at the Royal Alfred Observatory by the Campbell Stokes Sunshine Recorder

DECEMBER 1949

Day Hour / Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Hours
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	
6h	0	10	0	0	6	14	15	25	10	0	0	16	20	0	11	10	25	0	0	0	6	2	1	0	0	10	22	8	0	22	2	0·7
7	28	60	47	20	60	60	60	60	55	0	55	60	60	45	60	60	60	39	54	50	60	17	38	36	10	60	60	60	50	60	25	4·2
8	60	60	60	19	60	60	60	58	20	1	60	60	60	60	60	39	60	25	54	60	60	50	50	45	19	60	55	34	50	60	18	3·6
9	60	60	60	10	60	60	60	45	43	35	60	60	60	60	60	60	60	31	49	60	36	45	60	8	0	60	60	60	35	43	60	4·6
10	60	60	60	8	60	60	44	22	0	60	60	60	60	60	60	60	60	60	60	60	44	60	60	59	0	60	60	57	60	48	30	4.5
11	60	60	60	60	60	55	4	5	0	60	60	60	60	60	60	45	60	60	60	60	60	60	60	60	21	60	60	60	60	60	60	5.0
Noon	60	60	60	60	60	60	19	34	0	57	60	60	60	60	60	21	60	60	60	60	60	21	54	60	30	60	60	60	60	60	60	5·0
13h	60	60	60	60	60	11	1	6	0	60	60	60	60	54	50	60	60	60	60	60	45	14	60	49	50	60	60	60	60	38	60	5·0
14	60	60	29	60	60	26	5	35	0	13	60	60	60	3	60	60	20	60	60	60	40	0	60	5	17	60	60	60	60	31	60	5·0
15	60	60	25	60	60	14	4	58	0	0	60	60	60	18	60	60	58	60	60	60	45	8	60	22	0	40	60	60	60	44	60	4·7
16	60	60	55	60	20	14	31	12	0	5	60	60	60	7	60	60	46	60	60	60	60	12	60	30	52	5	60	60	60	43	60	4·1
17	60	60	60	60	60	29	18	1	2	26	60	15	60	24	60	60	46	60	60	55	26	32	60	1	35	0	60	60	37	2	60	3·6
18	60	60	14	19	60	5	0	3	15	5	60	30	60	48	60	19	60	60	60	35	60	8	25	5	60	0	60	60	3	0	60	3·0
19	25	28	0	0	27	0	0	3	0	4	20	0	20	10	25	0	27	30	29	1	13	15	4	15	14	0	10	25	4	0	2	0·7

The Total Amount of Registered Sunshine was 295·7 hrs. and the Total Possible Sunshine was 411·5 hrs

Table XI.—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

DECEMBER 1949

Day / Hour	1		2		3		4		5		6		7		8		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	22·6	1·6	22·7	2·8	19·6	0·9	22·3	1·3	20·7	1·0	20·0	0·6	21·6	1·1	20·3	1·0	Midnight
1h	21·9	1·5	21·5	1·9	19·3	0·9	22·1	1·5	20·6	1·1	19·4	0·4	21·4	1·0	20·4	0·9	1h
2	21·4	1·2	21·0	1·0	18·9	0·6	22·0	1·2	20·5	1·1	19·0	0·1	21·2	1·2	20·2	1·3	2
3	21·3	1·1	21·0	1·3	18·7	0·3	21·8	0·4	20·3	1·3	18·7	0·6	20·5	1·2	20·2	0·7	3
4	21·3	0·8	21·0	1·3	18·0	0·6	21·7	0·4	20·0	1·2	18·2	0·4	19·8	1·2	20·0	0·6	4
5	21·2	0·9	20·9	0·9	18·6	0·7	21·4	0·7	19·7	1·4	17·9	0·7	19·6	1·2	19·8	0·8	5
6	21·3	0·7	21·1	0·6	20·3	1·0	21·8	0·7	21·0	1·5	20·0	0·8	20·7	1·3	20·7	1·0	6
7	24·2	2·7	23·9	2·9	23·6	2·0	22·8	0·7	24·8	4·6	23·1	2·0	23·0	1·5	24·2	2·6	7
8	25·7	4·1	24·6	3·7	26·2	5·2	24·2	2·1	26·7	6·4	25·9	4·9	25·7	4·8	26·8	5·2	8
9	27·3	6·2	26·8	6·5	28·0	7·1	26·2	4·4	27·7	7·5	27·2	6·2	27·0	6·5	28·0	5·5	9
10	28·0	6·6	27·5	6·5	30·0	9·4	27·3	5·1	28·3	8·1	29·1	7·6	28·8	6·3	29·4	6·9	10
11	2·84	6·9	28·1	7·3	31·2	10·1	28·7	6·7	28·5	8·1	28·4	6·5	27·5	5·4	29·7	7·3	11
Noon	28·6	7·4	28·3	7·2	29·1	5·9	28·4	6·3	29·0	8·4	29·0	6·9	28·4	6·4	30·1	7·4	Noon
13h	28·6	7·7	28·9	7·9	28·1	6·1	28·4	6·3	29·7	9·2	29·6	7·1	27·7	5·2	30·8	8·3	13h
14	28·5	7·6	28·3	7·4	27·8	5·2	28·4	6·2	30·2	9·4	29·6	6·9	27·5	5·6	30·2	8·1	14
15	28·4	7·6	28·0	7·6	27·1	4·2	27·8	6·3	29·0	8·6	28·9	6·4	27·4	5·7	29·0	6·9	15
16	27·9	6·7	27·1	7·1	28·0	5·1	27·6	6·4	28·9	7·0	28·5	6·7	27·3	5·2	28·2	6·5	16
17	26·8	5·8	26·2	5·9	28·1	5·6	27·1	6·1	28·7	6·6	27·5	5·6	26·9	5·0	27·5	5·9	17
18	25.6	4·7	24·6	4·8	25·7	3·9	25·0	4·7	27·5	5·8	26·8	5·1	26·1	4·4	26·7	5·3	18
19	24·6	3·8	22·7	3·0	23·5	2·4	23·7	3·3	24·4	3·8	25·4	3·5	25·4	4·1	25·3	3·8	19
20	24·2	3·6	21·6	2·0	22·1	1·1	22·2	1·9	22·5	2·5	24·3	3·3	23·9	3·3	24·6	3·4	20
21	23·8	3·3	21·1	1·8	22·2	1·3	21·1	1·3	21·7	1·8	22·1	2·2	22·4	2·4	24·5	2·8	21
22	23·6	3·0	20·9	1·6	22·4	1·8	21·0	0·9	20·6	1·1	21·1	1·2	21·1	1·7	2·39	2·5	22
23	23·2	2·9	20·2	1·2	22·5	1·6	20·9	1·0	20·4	0·9	21·4	1·1	20·8	1·4	22·5	2·5	23

DECEMBER 1949—*continued*

Day / Hour	9		10		11		12		13		14		15		16		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	21·7	2·1	20·7	0·0	21·8	0·5	22·3	1·9	20·8	0·9	20·7	0·7	22·8	1·8	23·6	2·0	Midnight
1h	20·9	2·0	20·5	0·8	21·8	0·7	21·9	1.6	20·8	1·4	20·3	0·5	22·5	1·8	23·3	1·6	1h
2	20·7	1·8	19·9	0·9	21·7	0·8	21·6	1·1	20·5	1·3	20·1	0·2	21·8	1·7	23·5	1·8	2
3	19·9	1·5	19·8	0·7	21·7	0·7	21·6	0·9	20·2	1·3	20·1	0·5	21·9	1·5	23·1	1·5	3
4	19·6	1·1	19·6	0·5	21·7	0·5	21·6	0·7	19·9	1·6	20·6	0·5	21·5	1·4	22·7	1·3	4
5	18·8	1·1	19·4	0·4	21·6	0·7	21·5	0·7	19·6	1·4	19·9	0·4	22·1	1·4	22·4	1·3	5
6	20·9	1·5	20·7	0·7	21·4	0·4	21·6	1·2	21·0	1·4	21·2	0·3	21·7	1·4	23·1	1·1	6
7	24·6	2·4	21·7	0·5	22·2	0·5	23·0	1·1	23·5	1·7	24·7	2·2	26·0	3·5	26·0	2·9	7
8	26·1	3·9	24·2	1·2	24·1	2·2	26·0	4·0	26·2	4·3	26·7	4·6	26·7	4·5	27·2	4·4	8
9	27·8	4·8	27·0	4·1	26·1	4·0	26·6	4·7	28·3	6·5	27·8	5·4	28·3	5·9	28·4	5·8	9
10	29·3	5·7	26·4	3·6	26·8	4·8	26·9	5·0	28·6	6·4	28·8	6·5	29·1	6·9	29·0	6·2	10
11	31·0	6·8	23·2	1·3	27·7	5·1	28·0	5·9	29·0	6·8	29·8	7·5	29·0	6·6	29·2	6·8	11
Noon	31·5	7·5	22·2	0·9	28·2	5·7	27·9	6·0	29·3	6·7	29·9	7·2	30·5	8·6	29·2	6·7	Noon
13h	30·5	6·9	22·9	0·8	28·5	6·2	28·7	6·7	29·2	6·2	29·0	7·0	29·4	6·3	29·9	7·0	13h
14	30·1	6·5	23·2	1·7	27·7	5·7	28·5	6·8	29·9	6·9	29·1	6·7	28·3	5·3	29·1	6·7	14
15	29·5	6·4	24·1	2·4	26·7	3·8	28·3	6·8	28·6	5·8	28·9	6·7	28·1	6·0	29·0	6·8	15
16	29·0	6·1	25·0	3·4	26·6	5·0	27·4	5·8	27·6	5·3	28·4	6·2	27·7	5·9	29·0	7·0	16
17	25·4	3·4	25·3	4·0	26·3	5·1	26·9	5·5	26·9	4·6	27·1	5·0	27·6	6·2	28·0	6·2	17
18	22·6	1·1	25·2	3·6	25·5	4·5	26·6	4·6	26·1	4·3	26·4	4·6	26·4	4·5	27·0	5·2	18
19	22·3	1·0	24·4	3·4	24·1	3·5	24·1	3·5	25·5	3·8	24·8	3·4	25·2	3·6	25·7	3·9	19
20	21·9	1·0	23·8	2·7	23·0	2·4	22·5	2·2	23·9	2·7	23·8	2·9	24·3	3·2	24·0	2·8	20
21	21·2	1·0	23·1	2·0	22·8	2·2	21·7	1·7	22·3	1·5	22·9	2·3	23·9	2·6	23·8	2·5	21
22	20·9	0·9	22·1	1·3	22·5	1·8	21·3	1·2	21·7	1·2	22·5	1·9	23·8	2·5	23·7	2·6	22
23	20·8	0·8	21·8	1·1	22·5	1·8	21·0	1·3	21·2	0·8	22·2	1·7	23·5	2·2	22·8	1·0	23

Table XI *contd.*—Temperature of the Air and Excess over Temperature of Evaporation in degrees Centigrade at every Hour of the Day, as deduced from the Photographic Records

(To obtain temperatures on the Absolute Scale add 273)

DECEMBER 1949

Day / Hour	17		18		19		20		21		22		23		24		Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	23·0	1·7	21·9	1·8	22·7	1·6	23·9	2·5	23·2	2·2	22·7	1·5	24·1	2·2	24·4	1·4	Midnight
1h	22·7	1·6	21·9	1·8	22·5	1·5	24·0	2·8	23·0	2·2	22·0	1·3	23·8	2·1	24·3	1·3	1h
2	22·6	1·5	21·5	1·5	21·9	1·5	23·0	2·0	22·8	2·0	22·0	1·2	23·5	2·0	23·0	0·6	2
3	22·4	1·4	22·7	2·0	21·4	1·6	23·1	1·8	22·5	1·8	22·1	1·2	23·0	1·6	23·9	1·3	3
4	22·3	1·4	22·9	1·9	21·2	1·5	22·9	2·0	22·7	1·9	22·0	1·2	22·8	1·7	24·0	1·6	4
5	22·0	1·2	21·0	1·3	22·2	1·6	22·9	2·2	22·2	1.5	21·9	1·3	23·1	1·7	23·6	1·8	5
6	23·0	1·0	21·7	1·1	22·3	1·5	22·9	1·9	22·8	1·8	22·3	0·1	23·3	1·9	23·4	1·5	6
7	26·7	3·7	25·7	3·7	24·0	2·4	26·0	3·3	25·5	3·9	25·0	2·4	24·8	2·8	25·4	2·0	7
8	27·6	4·7	26·9	4·9	25·2	3·2	27·0	4·4	26·6	4·6	26·1	3·4	26·0	3·9	27·1	3·1	8
9	28·8	6·1	28·0	6·0	26·1	3·4	28·0	5·5	28·0	5·9	27·2	4·6	28·1	5·5	28·8	4·7	9
10	28 9	6·8	28·6	5·6	28·1	6·1	28·4	6·1	29·0	7·0	27·9	5·4	28·9	5·7	29·2	5·1	10
11	27·3	4·7	29·6	6·1	29·0	7·1	28·6	6·0	28·8	6·6	29·1	6·6	30·2	7·0	30·0	6·0	11
Noon	28·7	6·2	29·9	7·1	29·6	7·3	29·2	7·1	29·2	7·0	29·1	6·9	29·0	5·8	30·4	6·2	Noon
13h	29·1	6·5	29·2	6·6	29·5	7·2	29·9	7·2	29·7	7·9	28·6	5·6	24·8	1·9	31·7	7·1	13h
14	29·1	6·6	28·0	5·4	29·1	6·9	28·8	6·6	29·8	7·4	28·7	5·9	27·0	3·5	31·2	7·1	14
15	29·8	8·1	28·8	6·8	29·1	7·7	29·1	6·9	29·0	6·8	28·8	6·9	27·0	3·3	30·1	6·5	15
16	29·2	7·2	27·9	7·0	28·9	7·4	28·8	6·6	28·4	6·4	28·8	6·7	28·4	4·2	31·1	6·9	16
17	28·0	7·0	27·8	7·5	28·0	5·9	28·0	6·1	28·0	6·7	27·4	5·1	28·2	5·2	30·0	5·9	17
18	27·6	7·0	26·7	5·6	26·7	5·0	27·0	5·3	26·5	5·3	26·8	4·5	27·5	3·8	27·8	3·9	18
19	25·6	4·7	25·3	3·7	24·7	3·4	25·4	3·7	25 2	3·5	25·6	3·4	27·0	3·2	26·7	3·8	19
20	23·5	3·1	24·6	3·1	24·6	2·9	24·7	2·8	24 7	2·8	25·3	3·1	25·7	2·9	25·8	2·6	20
21	22·8	2·5	24·0	2·5	24·5	3·0	24·3	2·6	23·4	1·8	25·1	3·1	24·4	2·3	25·0	2·1	21
22	22·5	2·2	23·8	2·4	24·0	2·6	24·0	2·4	23·1	1·5	25·0	2·9	24·6	1·6	24·2	1·7	22
23	22·5	2·1	23·8	2·2	24·2	2·8	23·8	2·6	23·0	1·9	24·3	2·3	24·0	1·8	23·5	1·7	23

DECEMBER 1949—*continued*

Day / Hour	25		26		27		28		29		30		31		Mean	Excess	Day / Hour
	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.	Air	Excess of Air over Evap.			
Midnight	23·1	1·4	24·9	1·7	23·3	1·8	22·2	1·8	22·8	2·2	23·9	2·0	23·6	2·0	22·4	1·6	Midnight
1h	22·8	1·3	24·8	1·4	23·1	1·6	22·1	1·7	22·3	1·8	23·1	1·6	23·7	1·7	22·1	1·5	1h
2	22·6	1.3	24·4	1·4	22·8	1·7	21·6	1·6	23·4	2·1	23·9	1·9	23·3	1·3	21·8	1·3	2
3	22·2	1·0	24·2	1·4	22·5	1·5	21·2	1·7	23·0	2·0	24·2	1·8	22·6	1·6	21·7	1·3	3
4	22·2	0·9	23·7	1·2	22·0	1·4	20·7	1·3	23·6	1·9	24·0	2·0	22·8	1 6	21·5	1·2	4
5	22·1	0·8	23·8	1·2	22·3	1·5	20·8	1·3	23·9	2·2	23·5	1·8	23·7	1 6	21·4	1·2	5
6	23·2	1·4	23·9	1·3	22·3	1·0	22·5	1·8	23·4	1·6	23·3	1·3	23·3	1·4	22·0	1·2	6
7	25·0	2·0	25·3	1·6	25·7	2·8	26·5	3·7	25·9	3·4	25·5	2·6	24·5	1·7	24·6	2·4	7
8	26·0	2·6	26·2	2·2	27·2	4·5	26·8	4·5	26·6	4·0	25·9	2·7	26·0	2·5	26·1	3·9	8
9	25·0	2·0	27·0	3·0	28·3	5·5	28·7	6·6	27·0	3·9	27·8	4·8	28·8	5·2	27·5	5·2	9
10	28·9	4·3	27·7	3·6	28·3	5·7	29·0	7·1	28 8	5·1	28·9	5·8	28·0	4·5	28·4	5·9	10
11	29·3	5·3	28·1	4·3	29·8	7·0	30·0	8·0	29·3	5 9	29·2	6·4	30·0	6·6	28·9	6·4	11
Noon	31·0	6·4	29·1	5·1	30·4	7·6	30·1	7·9	30·0	8·2	29·2	6·4	29·8	6·2	29 2	6·7	Noon
13h	29·0	5·0	30·9	6·6	30·3	7·3	30·4	8·4	30·7	7 9	30·1	7·1	30·5	6·9	29·2	6·6	13h
14	29·8	5·8	28·7	5·3	30·6	7·1	30·4	8·1	30 2	7·5	30·0	7·2	30·0	6 6	29·0	6·5	14
15	30·9	6·2	28·6	5·4	30·0	6·6	30·3	7·6	29·5	7·4	30·8	8·8	29·1	5·8	28·7	6·4	15
16	27·7	3·1	29·2	6·0	28·7	5·7	29·4	7·0	29·6	7·2	30·0	7·7	29·3	6·6	28·4	6·2	16
17	27·6	3·3	28·6	5·6	27·7	5·3	28·7	6·4	28·4	5 7	28·3	6·0	28·5	5·4	27·6	5·6	17
18	27·2	3·4	27·5	4·9	27·7	4·5	27·3	5·0	27·1	4·8	27·1	5·1	27·4	4·4	26·5	4·6	18
19	26·4	2·9	26·3	3·7	27·1	4·6	26·0	4·1	25·8	4·4	25·9	4·0	26·0	4·0	25·2	3·6	19
20	25·6	2·0	25·6	2·9	25·3	3·6	25·1	3·6	24 5	3·4	25·0	3·2	25 6	3·4	24·1	2·7	20
21	25·1	1·9	25·2	2·8	24·3	3·0	24·3	3·4	24·4	2·6	24·7	2·8	25·1	3·2	23·5	2·4	21
22	24·9	1·5	24·0	2·3	23·7	2·7	23·6	3·0	24·5	2·6	24·7	2·8	24·8	2·9	23·0	2·0	22
23	24·5	1·4	23·0	2·0	22·9	1·3	23·0	2·6	24·1	2·1	24·1	2·4	24·4	2·5	22·7	1·8	23

Table XII.—Direction and Velocity of the Wind at every Hour of the Day as recorded by the Robinson Cup Anemometer during December, 1949

The directions are given in points and the values indicate the direction from which the wind blows counting from North 32, East 8, South 16 and West 24

The Velocities are given in Metres per second, using the factor 2·2

(The days on which the Normal Trade-Winds are interrupted are indicated by an asterisk).*

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Day	1		2		3 *		4		5 *		6 *		7 *		8 *		9 *		10		11 *		12		13		14		15		16	
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir	Vel.
Midnight	10	2·5	08	3·4	11	2·2	11	3·4	10	2·5	10	1·7	12	0·6	11	1·2	19	1·2	10	1·1	10	2·5	10	2·8	08	1·5	08	1·7	09	1·2	10	2·3
1h	10	2·8	08	1·8	11	2·4	13	3·4	10	3·3	10	1·9	13	1·3	11	1·4	19	1·5	10	1·8	10	1·4	10	2·0	10	2·2	10	2·0	09	1·0	10	2·2
2	10	2·1	10	1·8	11	2·0	12	2·8	09	4·3	10	1·8	10	1·5	11	2·1	15	1·8	10	1·5	10	2·2	10	3·1	10	1·9	10	1·9	09	1·2	10	1·8
3	10	2·1	10	1·8	11	1·5	06	3·1	09	2·1	10	1·4	10	0·9	11	1·4	14	1·8	10	1·7	10	1·3	11	3·2	10	1·6	1[illegible]	1·8	09	1·2	10	1·8
4	10	2·0	10	2·1	11	1·3	06	1·7	09	2·2	10	1·7	10	0·8	11	1·5	14	1·9	10	1·7	10	1·2	10	2·7	10	1·9	10	1·8	09	1·3	10	2·6
5	10	2·1	11	3·3	11	1·9	06	1·2	09	2·8	10	1·9	10	1·5	11	1·9	14	1·5	10	2·2	08	1·5	09	3·0	10	1·8	10	1·9	09	0·9	10	2·4
6	10	2·2	10	3·3	11	1·1	06	1·1	09	2·4	10	2·2	10	1·1	11	1·6	14	1·4	10	1·8	08	2·0	08	2·4	10	1·5	10	2·1	09	1·2	10	2·2
7	08	4·4	09	4·2	11	2·4	06	1·8	09	2·7	10	1·7	10	1·1	11	1·6	14	1·0	10	1·2	10	2·0	10	3·2	10	2.2	10	2·2	09	1·4	10	2·9
8	08	5·2	08	5·0	10	3·0	03	3·5	06	3·5	05	2·3	06	1·9	05	1·3	14	0·8	10	0·7	10	3·6	07	4·4	09	3·3	10	2·8	09	2·0	07	3·9
9	07	5·3	07	6·3	07	3·4	06	3·9	05	3·7	06	2·3	03	1·8	32	1·4	d29	2·5	r32	1·4	09	4·4	07	4·6	05	3·4	06	2·3	10	2·2	06	4·4
10	08	6·3	07	6·6	06	2·8	05	4·5	06	3·9	06	2·9	31	3·4	30	3·4	28	3·0	28	1·9	10	4·3	08	4·5	05	3·9	10	3·3	07	3·3	06	4·1
11	08	5·7	10	6·8	06	2·6	06	4·5	05	4·0	05	4·0	28	2·6	28	3·4	28	3·5	d07	3·6	08	4·1	08	4·4	04	3·4	06	3·7	05	3·9	05	4·4
Noon	08	6·7	08	6·8	r24	4·6	04	4·0	06	3·9	02	4·0	24	2·8	30	3·3	28	4·7	11	4·3	08	4·1	08	4·5	06	4·1	05	4·5	10	3·9	05	4·6
13h	07	6·6	08	5·8	22	4·3	06	4·2	05	4·2	32	3·7	26	1·4	27	3·5	26	4·2	12	4·6	08	3·4	09	4·3	04	4·2	07	4·4	13	3·0	06	4·4
14	07	7·1	07	5·8	22	4·6	05	4·8	06	4·2	31	3·3	27	1·8	27	2·9	24	4·0	11	3·5	08	2·3	10	4·5	05	4·3	06	4·9	15	2·2	05	4·6
15	06	6·0	08	6·0	22	5·0	08	4·4	07	4·4	30	3·1	23	3·0	26	2·6	26	3·8	12	3·7	d17	2·3	09	4·4	05	4·7	06	4·9	09	3·7	05	3·5
16	06	5·8	11	5·3	19	5·2	08	4·3	10	3·6	27	2·9	22	3·2	26	2·2	27	3·6	10	2·7	r09	3·9	08	4·7	06	3·9	07	4·3	06	3·9	05	4·9
17	06	5·5	08	5·3	23	3·6	09	4·0	d19	4·1	24	2·6	22	2·9	26	2·5	r14	3·5	10	3·0	10	4·4	08	4·3	06	3·5	07	4·1	09	4·2	06	3·6
18	07	5·4	10	4·3	r11	2·0	09	3·7	22	2·3	22	1·9	22	2·9	01	1·9	11	3·6	10	2·2	10	3·1	08	4·4	07	3·2	08	3·5	08	4·2	06	3·2
19	07	4·9	11	2·8	11	2·0	09	2·0	22	1·3	22	1·1	22	2·0	r14	2·3	10	1·4	10	2·0	11	2·1	08	3·4	07	2·7	08	3·3	09	3·5	06	2·4
20	07	4·1	11	2·8	12	2·3	10	2·2	22	1·8	22	1·1	22	2·1	14	1·8	10	1·7	10	1·9	10	2·1	08	1·1	07	2·5	08	2·1	09	2·3	07	2·6
21	07	3·6	11	2·0	12	3·0	10	2·1	r10	1·9	r12	2·0	r11	2·0	19	2·1	10	1·7	10	2·3	10	2·6	08	2·0	08	1·9	08	1·9	09	3·0	07	2·8
22	07	3·7	11	2·2	12	3·2	10	2·4	10	1·8	12	1·8	11	1·9	19	0·8	10	1·5	10	2·1	10	2·7	08	3·2	08	1·8	08	2·2	10	2·7	07	2·6
23	08	3·3	11	2·1	12	2·7	10	4·1	10	3·0	12	1·1	11	1·5	19	1·5	10	1·1	10	2·1	10	2·8	08	1·9	08	1·5	09	1·9	10	1·7	07	1·7

DECEMBER 1949—*continued*

Day	17		18		19		20		21		22		23		24 *		25		26		27 *		28		29 *		30		31		Mean
Hour	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	07	3·0	06	1·4	09	2·0	10	2·6	10	3·0	11	1·8	09	3·1	05	1·5	06	1·5	04	1·8	07	1·4	11	1·5	08	2·4	10	1·8	10	1·8	2·0
1h	07	2·0	06	1·5	09	1·9	10	3·7	10	2·3	11	2·1	09	3·4	05	1·1	06	1·1	04	1·5	06	1·3	11	1·8	08	1·7	10	2·2	08	1·8	2·0
2	07	2·0	08	1·7	09	2·5	08	3·1	10	2·0	11	1·9	10	2·6	02	2·6	06	1·3	04	1·6	06	1·4	11	2·0	09	2·2	10	2·0	08	2·2	2·1
3	07	1·8	08	1·8	09	2·2	10	3·3	10	2·1	10	2·6	10	2·3	02	1·8	08	1·2	04	1·7	07	1·6	11	1·4	09	2·1	10	1·6	08	1·8	1·9
4	07	1·6	07	1·6	09	2·2	10	3·4	10	2·0	10	2·0	10	1·8	04	3·2	09	1·2	04	2·2	07	2·2	11	1·4	09	1·7	07	1·8	08	1·9	1·9
5	07	2·1	07	1·8	09	2·6	10	3·2	10	1·9	10	3·0	10	2·7	02	3·1	09	1·9	04	1·0	07	2·0	11	1·7	09	2·5	07	1·9	08	3·1	2·1
6	07	1·9	07	1·4	09	2·2	10	3·0	10	2·0	10	2·4	10	2·6	02	1·6	09	0·7	04	0·8	07	2·1	11	1·3	10	2·2	09	2·6	10	2·3	1·9
7	07	2·0	09	2·7	09	2·4	09	4·1	10	3·4	10	2·9	10	3·4	02	2·3	09	1·3	04	1·1	07	2·4	11	1·8	10	2·5	09	2·8	10	2·6	2·4
8	04	2·9	10	3·3	08	4·2	08	4·4	09	4·7	10	3·2	11	3·9	03	4·4	04	2·4	09	2·1	06	2·7	10	2·5	09	3·4	05	3·1	07	3·2	3·1
9	04	3·9	07	2·5	10	3·2	07	2·9	08	6·1	08	4·4	12	4·8	02	5·4	05	1·8	04	4·0	06	2·0	08	3·5	06	4·8	05	4·3	07	3·9	3·6
10	05	3·8	07	3·5	09	6·1	10	6·8	08	6·3	08	3·9	11	4·9	02	6·1	03	3·9	04	3·9	06	4·4	07	3·1	06	5·3	06	4·1	06	4·1	4·3
11	06	4·4	07	3·8	08	6·0	09	4·5	07	5·6	06	4·2	09	4·6	02	6·7	02	3·0	03	4·4	06	3·5	08	4·0	05	5·6	04	4·3	07	4·7	4·3
Noon	04	4·6	06	4·1	10	5·4	06	4·1	08	6·1	05	4·7	10	4·2	02	5·6	02	3·7	04	4·4	04	3·9	08	4·0	06	5·2	05	4·4	07	4·3	4·5
13h	04	4·7	06	4·2	08	5·2	06	6·3	10	5·8	06	4·0	10	4·3	03	5·2	05	4·5	03	4·3	06	4·1	08	3·9	06	4·4	05	4·4	07	4·9	4.4
14	05	4·7	06	4·7	08	6·0	06	5·0	10	5·9	08	4·2	14	2·5	02	5·2	01	4·2	05	3·7	06	4·2	08	3·9	05	4·8	07	4·3	07	4·4	4.3
15	04	3·8	06	4·6	08	5·1	09	4·5	11	6·1	07	4·7	d22	2·3	03	4·4	02	4·5	06	2·5	04	3·1	09	4·0	06	4·4	07	4·1	06	3·5	4·1
16	04	3·2	08	4·5	10	5·0	08	5·2	09	5·8	10	4.4	22	1·8	03	4·4	03	3·7	04	3·0	04	2·3	08	4·3	06	3·5	08	4·2	06	5·5	4·0
17	06	2·7	10	3·9	08	5·2	10	4·7	12	5·9	08	4·4	r13	3·1	03	4·0	03	3·7	06	2·5	06	1·5	09	4·5	06	4·1	10	4·4	08	4·4	3·9
18	06	2·1	10	4·1	09	5·3	09	5·0	10	4·4	08	6·0	d24	1·9	04	3·4	03	2·6	05	3·0	d18	1·9	09	4·0	08	4·9	10	4·4	08	4·3	3·5
19	06	1·3	10	3·3	12	3·1	09	3·3	11	4·0	08	4·5	26	0·7	03	2·5	03	2·1	04	2·2	21	1·2	08	2·4	09	3·7	10	1·9	08	4·2	2·6
20	06	1·5	10	3·0	10	3·0	10	3·3	10	3·5	09	3·6	26	1·0	04	1·6	03	1·3	04	1·1	r11	1·4	08	3·5	09	2·1	10	3·3	09	3·4	2·3
21	06	1·8	10	2·1	10	2·7	10	2·3	11	2·6	09	3·7	26	1·9	04	1·2	03	0·7	04	1·1	11	1·8	08	2·2	09	1·8	10	2·0	09	2·9	2·2
22	06	2·5	10	3·0	10	2·6	10	3·0	11	2·1	10	3·9	26	1·7	06	1·4	04	1·0	04	1·4	11	1·5	08	2·8	09	2·8	10	2·9	08	3·2	2·3
23	06	1·8	09	2·6	10	3·3	10	2·7	11	3·0	10	4·0	d05	1·9	06	1·3	04	1·5	05	1·7	11	1·7	08	1·8	10	2·3	10	1·8	08	3·0	2·2

Table XIII.—Wind Frequency (Number of Observations), December, 1949

Hour	Force (0—12)			Directions															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...	...	31	...	...	2	1	10	13	4	1	...	...	...	...	...	...	...	...
9	...	2	29	2	1	7	6	11	2	1	...	...	...	...	...	...	...	1	...
15	...	3	28	...	1	5	6	10	...	2		1	...	...	2	1	2	...	1
21	...	...	31	...	...	3	1	10	9	6	...	...	...	1	...	...	1	...	...
Total ...	...	...	...	2	2	17	14	41	24	13	1	1	...	1	2	1	3	1	1

Table XIV*a*.—Rainfall at every Hour of the Day at the Royal Alfred Observatory, December, 1949

Day / Hour ending	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1h	...	...	..		...	...	...	...	...	...	3·7	...	...	...	...	...	...	...	...	..		...	...	...	...	..	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...		...	..	...		...	...	4·0	...		..	...	...	...	0·7
3	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...
4		...	...	...	...	...	...	...	...	...	0·4	...	...	.	...	...	...	...		...	...	...		...	...	1·1	...	...	...	1·3	...
5	...	0·2	.	..	...	...	.	...	...	...	1·7	1·0	..	...	...	...	...	..	...	...	.	...	...	0·1	...		...	...	...	1·7	...
6	...	...	...	...		...	..	...	...	...	0·3	0·4	...	...	...	...	...	.	...	...	..	...	...	...	...	..	...	...	...	...	0·1
7		...	...	...	...	...	...	...	...	.	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	0·8	...
8	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...		0·1	...	...	...	...	...	...	...	..	...	...	...	...
9	..		...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	1·9	0·1	...	..	...	..	0·4	...	...	...	...	..	0·1
10	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	..		...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
Noon	...		...	...	...	...	...	...	...	3·7	...	...	...	...	.	...	...	..	...	...		...	...	...	..	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...		...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...		...	..	...	...	...	...	...	...	...	..		...	...	0·4	..	...	...	..	...	...	...	...
15	...	...	...	...	...	.	...	...	...	...	...	...	...	...	.	.	...		...	...	...	...	...	...	...	..	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	.	..	...	...	...	.	...	...	...	...	...	..	...	...
18	...	...	...	...	...	...	...	...	4·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...
19	...	...	...		...	...	...	...	0·7	...	...	...	...		...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
20	...	...		..	...	...	...	..	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
21	..	..	...	...	..	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
22	...		...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	0·1	...	...	...	...	...	...	...	...	...	...
23		..	...	...	..	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	..	...	...	..	...
24	...	.	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·2	...	...	...	0·1	...	0·1	...	0·2	...	...	...	...	...	...

Table XIV*b*.—Rainfall at every Hour of the Day at the Aerological Station, Vacoas, for December, 1949

Day / Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	.	...	...	...	...	...		...	...	...	2·2	...	...	...	...	...	...	...	...	...	...	..	..	1·8	...	1·3	...	...	...	0·2	...
2	...	...	...	0·3	...	...	...	...	...	...	4·4	...	...	...		...	...	...	0·5	...	...	1·3	...	0·6	...	1·2	...	...	...	0·3	
3		...	..	0·4	...	...	...	...	..	...	1·6	...	...	...	...	.	...	...	...	..	1·3	...	...	1·0	...	2·9	...	...	...	...	...
4		...	...	...	.	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	0·5	...	...	...	..	0·2	...	...
5		0·5	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	0·2	...	...	...	..	...
6	...	..	.	...	..	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	.	0·4	...	1·1	...	...	...	...	...	...	...
7		...	...	...	...	...		...	..	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.
8		...	...	...	...	...	.	.	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...		..	...	0·2	...	...
9		...	.	...	...	...	...	...	...	...	...	...	...	...	...	.		..	...	...	..	...	...	. .	...	0·6		...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·5	...	...	...	...	...	...
11		...		...		...	...	...	...	1·8	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...		...	...
Noon	...	...	...	...	...	...	...	...	...	0·5	...		...	...	...	...	...	...	...	..	.	.	...	...	...	0·2	...	...	...	.	...
13h	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	..	...		...	...	...	...	...	..	...	...
14	...	..	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	.	...	...	...	...	...	7·1	...	...	...	...	...	...	...	...
15	...	...	.	...	...	...	...	0·5	...	...	...	...	2·8	...	...	...	..	...	...		...	0·6	0·3	...	...	...	..	.	...	...	...
16	...	...	...		...	...	..	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...			...	...	9·3	...	..	...	...	...	...	.	.	.	...	...	...	..	...	...		...	...	...		0·4	
18	..	...	...	...	...	.	0·1	0·6	1·4	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	0·7	...		...	...	...	...
19	..	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	...	...	...	1·4	...	...	...	...	...	3·2	...	...	...	...	.	...
20	...		...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	..	0·3	...	...	...	...	...	.	...	...	..	...
21	.	...	...	...	...	.	...	...	...	...	...	...	...	...	.	...	...	...	0·8	...	...	...	...	...	0·3		...	.	...	...	..
22	...	...	0·3		...	...	...	...	...	..	...	...	...	...	...	...		...	...	...	2·4	...	...	...	...	...		...	..	...	...
23			0·6	...	...	.	...	...	...	..	...	...	...	...	...	...	...	...	0·6	...	0·8	...	...	...	...	...	...	...	0·9	...	...
24	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	.	...	...	...	..	...	...	...	...	...	..	...	...	...	.	...

Table XV.—Total Monthly Rainfall at Various Stations in Mauritius according to Districts, December, 1949

Districts	Stations	Approximate Altitude in feet	Total Fall in Inches	Total Fall in mms.	Normal in Inches	Number of days
Port Louis	Line Barracks ...	—	2·35	59·7	—	8
B. River ...	Pierre Fonds	—	2·67	67·8	8·28	8
	La Ferme	350	2·69	68·3	5·55	8
	Richelieu	—	2 50	63·3	—	10
	Mare Longue	—	5·45	138·4	—	17
	Mon Repos (*Palmyre*) ..	—	3·14	79·8	—	7
	Médine	—	1·44	36·6	—	6
	La Mecque	—	1·88	47·8	—	5
	Albion	—	1·09	27·7	—	9
	Beaux Songes ...	—	1·62	41·1	—	7
	Clarens	—	1·92	48·8	—	7
	Mon Désert	—	1·86	47·2	—	7
P/mousses	Botanical Gardens ...	325	1·69	43 0	5·92	11
	Solitude	175	0·45	11·4	3·70	2
	La Nicolière	—	4·37	111·0	6·59	18
	The Observatory ...	179	12·8	32·6	4·68	16
	California	—	—	—	—	—
Rivière du Rempart	Saint Antoine ...	50	1·98	50·3	3·69	8
	Bel Mont	50	2·06	52·3	4·39	7
	Poudre d'Or	20	2·10	53·3	4·08	6
	Mon Loisir S.E. ...	300	2·04	51·8	5·22	6
	Forbach	—	1·59	40·4	3·60	4
	Couroupa	—	3·14	79·8	5·98	8
	Ravensworth	—	2·81	71·4	—	6
	Labourdonnais .	290	1·78	45·2	5·04	5
	Beau Séjour	300	2·35	59·7	5·46	7
	Mont Piton	680	3·52	89·4	6·42	5
	Mon Choix	700	3·21	81·5	5·93	6
	Antoinette	640	3·63	92·2	6·17	12
	Mon Songe	620	2·46	62·5	6·49	8
Moka ...	Bonne Veine ...	400	7·28	184·9	10·06	—
	Le Réduit	1,000	2·64	67·1	6·60	14
	Alma	1,460	6·30	160·0	11·14	16
	Mon Désert	1,450	3·66	93·0	—	9
	Hermitage	1,450	3·35	85·1	15·28	6
	Côte D'Or	—	2 90	73·7	—	5
	Béga	—	4·14	105.2	—	10
	Mon Rêve	—	3·74	95·0	—	8
	Mont Pévril	—	2·22	56·4	—	8
	Minissy	1,150	3·80	96·5	9.25	8
Plaines Wilhems	Curepipe Gardens ...	1,840	4·07	103·4	10·53	19
	Aerological Station ...	1,393	2 63	66·8	9·10	18
	Mare-aux-Vacoas (G. End.)	1,850	4·26	108·2	11·07	15
	Mare-aux-Vacoas (Arnaud)	1,830	4·94	125 5	11·43	20
	La Marie	1,700	2·57	65·3	9·00	13
	Réunion	1,420	2·07	52·6	8·80	10
	Phœnix	—	—	—	—	—
	Quatre Bornes ...	—	—	—	—	—
	Bagatelle	1,250	3·59	91·2	7·05	9
	Pétrin	—	3 06	7·77	—	12
	Henrietta	—	2·02	51·3	—	11
	Tamarin-Falls ...	—	2·05	52·1	—	10
	Tamarin	—	1·85	47·0	—	7
	Moon	—	1·27	32·3	—	8
	La Pipe Midlands Dam ...	—	4·05	102·9	—	14
	Highlands	1,300	3·35	85·1	8·59	9
	Trianon	950	—	—	6·88	—
	Bassin	—	3·12	79·2	9·80	12
	Ebène ...	630	4·39	111·5	—	10
Flacq ...	Mare Sèche ...	20	—	—	3·90	—
	Australia	—	2·10	5·33	—	—
	Union Regnard S. E. ...	600	2·80	71·1	6 91	13
	Constance La Gaieté ...	100	1·26	32·0	6·69	8
	Belle Vue Allendy ...	900	1·70	43·2	8 56	11
	Sans Souci ...	20	5·52	140·2	10·74	15
	Rich Fund	—	2·87	72·9	—	13
	Beau Champ G.R.S.E. ...	400	3·78	96·0	6·24	15
	Olivia	—	2·83	71·9	8·92	14
	Trois Ilots	—	2·15	54·6	—	7
	Belle Rive	400	4·08	103·6	10·45	13
G. Port ...	Rose Belle	850	4·44	112 8	11·11	16
	Union Park	—	5·79	147·1	—	18
	New Grove ...	650	2·65	67 3	—	3
	Astroea	—	4·97	126·2	—	10
	Deux Bras	—	3·41	86·6	—	11
	Mon Trésor ...	—	1·69	42·9	—	6
	Beau Vallon ...	—	3 69	93·7	—	8
	Union Vale	—	1·66	42·2	—	7
	Mon Désert Carié ...	75	1·65	41·9	5·87	10
	Ferney	20	3·80	96·5	8·55	9
	Ste. Hélène ..	—	2·57	65·3	—	6
	Sauve Terre ...	—	1·84	46·7	—	8
Savanne	Tivoli	1,300	5·95	151·1	10·59	9
	La Flora	1,050	4·34	110·2	9·76	10
	Riche Bois ...	650	2·91	73·9	10·01	11
	Britannia	700	3·51	89·2	9·05	10
	Beau Climat ...	—	5·42	137 7	—	11
	Savannah	200	3·58	90·9	6·49	11
	Saint Aubin ...	300	3·69	93·7	7·53	8
	Saint Avold ...	900	4·77	121·2	9·56	11
	Terracine	—	4 08	103·6	—	11
	Colmar	400	3·50	88·9	8·47	11
	Union Sugar Estate ..	—	2·48	63·0	6·34	9
	Fontenelle	320	4·76	120·9	6·39	14
	Choisy	200	4·00	101 6	6·71	3
	Beau Bois	—	4·70	119·4	—	13
	Bel Air	—	2·88	73·2	—	8
	Saint Félix	—	3·61	91·7	—	9
	Bel Ombre ...	40	4·53	115·1	5·40	4
	Beau Champ B. du Cap...	—	3·22	81·8	5·87	7
	Frédérica	—	4·45	113·0	6·09	6
	Sainte Marie ...	—	2·71	68·8	—	7
	Combo	—	5·12	130 0	—	15
St. Brandon	Met. Station ...	—	0·83	21·1	—	13
Agalega	Met. Station .	—	4·12	104·6	—	14
Rodrigues	Oyster Bay	—	0·82	20·9	—	8
Chagos Archipelago	Salomon Islands Boddam	—	9·65	245·1	—	12

Table XVb—Total Amount of Rainfall at Various Stations in Mauritius according to Districts during the year 1949

Districts	Stations	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Total
Port Louis ..	Line Barracks ...	118·8	449·3	157·5	108·1	27·3	130·0	14·6	14·0	3·2	8·4	90·2	59·7	1181·1
Black River ...	Pierre Fonds	251·2	241·6	80·8	80·3	13·2	153·7	45·0	18·8	14·0	7·1	126·2	67·8	1099·7
	La Ferme	75·9	199·1	51·6	24·6	1·0	70·1	6·1	22·1	3·8	5·1	93·7	68·3	620·4
	Richelieu	50·9	234·8	73·9	35·8	58·4	67·5	18.1	16·2	2·4	9·3	33·3	63·3	663·9
	Mon Repos (Palmyre) ...	127·8	215·1	50·0	18·3	0·0	43·2	8·6	20·3	2·5	3·3	51·3	79·8	620·2
	Médine	90·4	216·2	54·1	16·8	3·3	50·5	7·1	21·8	7·6	6·1	76·7	36·6	584·9
	La Mecque	69·9	176·3	40·6	10.4	2·0	47·2	3·8	17·8	6·9	3·8	59·4	47·8	485·9
	Mare Longue ...	447·0	372·6	216·2	303·8	124·5	446·3	228·1	125·5	73·2	70·4	141·0	138·4	2687·0
	Albion	33·3	314·2	48·3	26·2	2·0	57·7	6·4	20·3	3·8	2·0	51·6	27·7	453·5
	Beau Songes	145·0	198·9	58·9	47·8	0·0	96·5	12·7	23·4	2·5	Nil	72·6	41·1	704·4
	Clarens	110·5	162·8	43·2	27·2	0.0	49·5	11·2	14·0	5·1	Nil	25·9	48·8	498·2
	Mon Désert	127·8	162·1	53·8	29·7	0·0	54·6	9·7	15·7	5·1	Nil	34·8	47·2	540·5
Pamplemousses..	Botanical Gardens ...	42·2	288·4	114·1	115·5	24·7	117·4	43·2	26·7	13·7	14·7	53·9	43·0	897·5
	Solitude	51·1	335·8	176·5	136·7	21·6	86·1	24·1	18·3	2·5	8·1	64·3	11.4	936·5
	La Nicolière	116·6	431·0	217·4	249·7	66·0	162·8	102·9	90·9	31·5	40·4	78·5	111·0	1698·7
	The Observatory ...	35·5	341·6	144·3	132·7	45·4	90·7	36·1	25·4	16·0	15·4	58·5	32·6	974·2
	California	135·6	363·7	210·8	294·9	58·9	350·3	121·9	89·9	26·4	—	—	—	—
R. du Rempart...	St. Antoine	18·8	231·1	152·1	93·0	22·1	118·6	58·9	27·7	6·6	5·6	30·7	50·3	797·5
	Bel Mont	9·4	200·2	161·8	94·5	5·8	124·2	53·1	20·1	4·1	3·6	10·2	52·3	739·3
	Poudre d'Or	14·2	218·7	160·5	95·5	8·6	130·8	60·2	22·1	7·1	6·1	14·2	53·3	792·3
	Mon Loisir	36·1	299·7	149·4	127·0	16·5	169·4	64·0	31·0	10·2	16·0	57·4	51·8	1028·5
	Forbach	14·2	228·9	157·0	132·6	19·1	134·9	48·8	38.1	11·4	9·9	40·4	40·4	875·7
	Couroupa	8·0	225·7	171·4	139·4	10·6	129·0	35·4	19·4	3·0	1·2	29·1	79·8	852·0
	Labourdonnais .	21·0	227·0	155·0	125·5	14·0	130·5	45·5	23·0	6·0	5·1	41·4	45·2	839·2
	Beau Séjour	247·7	271·0	153·7	394·2	15·5	147·3	227·3	40·6	10·2	14·0	51·6	59·7	1632·8
	Mon Piton	51·1	304·8	154·2	134·9	30·0	190·2	62·2	36·3	13·7	11·9	56·4	89·4	1135.1
	Mon Choix	32·3	277·1	147·3	144·3	18·8	170·9	58·2	35·8	19·1	19·1	49·0	81·5	1053·4
	Ravensworth ...	36·1	372·6	213·4	184·4	90·4	239·5	83·8	69·1	21·8	43·7	75·4	71·4	1501·6
	Antoinette	71·9	362·7	181·1	234·2	63·2	216·9	76·5	53·3	17·8	33·8	74·4	92·2	1478·0
	Mon Songe	22·9	356·1	177·3	198.6	52·6	287·0	96·3	56.9	8·0	38·6	69·9	62·5	1428·7
Moka ...	Bonne Veine	329·7	662·9	288·5	300·5	183·4	491·0	186·9	101·1	76·5	87·1	174·0	184·9	3066·5
	Le Réduit	168·2	359.6	125·3	116·7	38·9	230·4	86·6	35·8	17·3	34·5	68·1	67·1	1348·5
	Alma	311·7	719·1	300·5	321·6	141·5	453·6	183·4	80·8	67·8	91·4	143·5	16·0	2974·9
	Mon Désert	243·8	486·7	181·1	169·4	74·9	270·8	90·7	52·3	20·3	32·0	94·5	93·0	1809·5
	Hermitage	227·8	413·5	190·5	218·7	83·3	386·6	93·7	15·2	19·3	48·8	88·6	85·1	1871·1
	Côte D'Or	215·9	436·9	171·5	210·8	71·1	364·5	127·0	54·6	7·6	44·5	96·5	73·7	1874·6
	Béga	210·8	274·6	76·5	85·9	15·0	167·4	50·8	29·2	6·9	11·9	55·6	105·2	1089·8
	Mon Rêve	181·6	589·0	118·1	122·9	40·9	255·5	82·8	19·6	13·2	73·3	78·5	95·0	1634·4
	Mont Pévril	262·4	509·3	145·8	141·2	47·2	237·7	78·7	31·5	13·2	23·9	53·1	56·4	1650·4
	Minissy	164·8	329·7	164·3	138·2	48·3	255·5	86·6	37·3	14·5	41·9	96·5	96·5	1474·1
Pl. Wilhems ...	Curepipe Gardens ..	564·0	598·4	344·3	551·8	168·7	536·3	234·7	135·9	60·4	101·6	187·8	103·4	3587·3
	Aerological Station ...	377·3	405·1	191·3	221·0	82·2	342·3	124·9	45·5	33·0	42·5	83·8	66·8	2015·7
	Mare-aux-Vacaos Good End	543·8	519·9	275·8	440·4	173·0	618·2	287·3	163·1	73·7	79·2	169·9	108·2	3432·5
	Mare-aux-Vacoas Arnaud	511·0	564·4	282·7	442·5	189·2	589·5	304·5	148·3	76·5	129·8	210·6	125·5	3574·5
	La Marie	474·7	519·4	259·1	331·2	116·3	467·9	168·7	66·5	51·3	75·4	128·0	65·3	2723·8
	Réunion	407·9	486·2	206·5	326·9	71·6	391·9	140·5	59·2	25·7	57·2	108·7	52·6	2334·9
	Petrin	259·3	501·7	276·4	505·0	209·0	579·6	315·7	161·0	100·3	101·3	223·0	77·7	3580·0
	Henrietta	279·4	297·7	147·3	177·0	35·3	262·9	92·2	33·0	24·1	38·4	99·3	51·3	1537·9
	Tamarin Falls ...	354·6	282·7	167·9	206·2	48·3	311·4	167·9	72·9	40·6	47·0	74·4	52·1	1826·0
	Tamarin	166·4	233·7	59·7	41·9	2·5	88·9	20·3	1·3	17·8	7·6	55·9	47·0	743·0
	La Pipe and Midlands Dam	362·7	642·4	373·9	614·9	281·9	619·0	283·5	195·6	74·9	93·5	279·9	102·9	3925·1
	Moon	214·9	279·9	131·1	135·4	18·0	200·9	61·0	16·8	16·3	18·3	111·5	32·3	1226·4
	Phœnix	241·3	398·5	182·6	157·5	40·1	346·5	115·3	18·3	15·2	--	—	—	—
	Quatre Bornes ...	113·8	242·1	109·2	70·1	11·7	201·9	61·0	10·9	14·7	—	—	—	—
	Bagatelle	290·1	419·9	169·9	233·3	68·3	361·4	134·9	66·5	25·7	52·1	111·3	91·2	2024·6
	Highlands	351·0	509·0	193·5	296·2	84·8	448·8	142.5	61·7	32·0	62·0	149·0	85·1	2413·6
	Trianon	189·0	369·6	155·2	113·8	26·2	275·1	70·6	17·8	21·6	—	—	—	—
	Bassin	197·4	234·4	82·0	115·3	7·4	184·9	50·5	17·0	5·8	14·2	93·9	79·2	1075·0
	Ebène	160·0	319·8	110·2	99·1	33·8	217·9	69·6	27·2	12·7	25·4	46·5	111·5	1233·7
Flacq ..	Mare Sèche	—	—	—	—	—	—	—	—	—	—	—	—	—
	Australia	73·4	407·7	185·2	220·5	22·1	249·7	87·4	46·2	26·4	18·5	50·0	53·3	1440·4
	Union Regnard ...	162·1	512·6	281·4	237·0	68·3	316·2	127·8	74·2	44·2	34·0	98·0	71·1	2027·0
	Constance la Gaieté ...	47·0	331·5	128·8	145·5	55·6	227·1	86·1	39·9	26·4	11·7	54·9	32·0	1186·6
	Belle Vue Allendy ...	81·8	380·5	160·5	184·2	54·6	231·4	98·3	46·2	20·1	15·0	62·0	43·2	1377·8
	Sans Souci	79·8	683·0	359·4	357·9	146·6	273·3	180·3	155·7	61·0	85·1	231·4	140·2	3053·7
	Beau Champ G.R.S.E. ...	86·9	382·0	236·0	105·7	42·2	188·5	67·8	53·6	15·2	35·3	36·8	96·0	1346·0
	Riche Fund	144·8	376·4	233·7	152·4	84·1	271·3	106·7	63·8	33·0	33·3	73·4	72·9	1645·8
	Olivia	95·5	333·8	289·8	143·8	76·5	188·5	94·7	40·6	27·2	39·7	64·3	71·9	1466·2
	Trois Ilots	106·7	456·9	257·0	125·0	361·1	200·2	61·5	68·6	20·8	24·2	68·1	54·6	1498·7
	Belle Rive	96·5	412·8	291·7	177·0	95·3	319·8	152·0	90·2	38·6	70·4	83·8	103·6	1931·7

Table XVb *Continued*—**Total amount of Rainfall at Various Stations in Mauritius according to Districts during the year 1949**

Districts	Stations	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Total
Grand Port ...	Rose Belle	199·9	631·2	404·9	283·7	143·0	495·3	202·7	106·9	68·3	62·7	129·3	112·8	2840·7
	New Grove	134·6	586·0	183·1	194·8	92·7	375·9	147·3	50·8	63·5	16·5	108·0	67·3	2120·5
	Deux Bras	149·6	796·8	312·4	281·2	116·8	468·6	141·2	112·5	57·7	84·8	111·0	86·6	2719·2
	Mon Trésor	63·2	458·7	206·2	179·3	80·3	194·8	63·5	51·1	27·2	31·5	48·3	42·9	1437·0
	Union Vale	45·7	374·4	150·4	129·0	37·1	143·3	62·0	40·4	15·7	21·1	45·5	42·2	1106·8
	Mon Désert Carié ...	43·2	363·2	143·5	131·8	32·8	150·1	53·6	51·1	24·6	34·0	36·8	41·9	1106·6
	Ferney	63·5	417·8	219·7	158·8	58·4	224·8	81·3	36·8	43·2	27·9	64·8	96·5	1493·5
	Sauve Terre	56·1	452·6	160·0	170·4	29·7	161·3	72·1	48·3	17·0	30·5	43·4	46·7	1238·1
	Union Park	225·3	662·9	418·6	310·1	170·4	492·3	239·3	111·5	88·6	70·1	152·9	147·1	3089·1
	Astroea	218·9	614·4	378·2	250·4	133·7	437·4	157·2	93·7	60·2	59·2	124·5	126·2	2659·0
	Beau Vallon	42·4	313·4	147·3	99·3	57·7	149·4	43·9	39·1	28·2	10·9	31·2	93·7	1056·5
	Ste Helène	41·1	369·3	162·6	111·5	62·2	178·1	52·1	22·6	38·4	15·5	28·2	65·3	1136·9
Savanne ...	Tivoli	201·2	667·8	301·8	332·7	142·5	375·9	168·7	144·5	47·5	58·2	188·7	151·1	2780·6
	La Flora	195·1	555·2	354·1	324·4	155·7	420·9	202·2	133·4	52·8	69·9	171·5	110·2	2750·4
	Riche Bois	73·7	401·3	159·8	225·8	101·3	281·7	95·8	80·5	37·6	49·3	66·0	73·9	1646·7
	Britannia	96·0	513·3	252·0	288·5	116·8	276·4	140·7	96·7	33·0	54·6	130·3	89·2	2087·5
	Savannah	54·6	310·9	137·4	161·5	50·0	135·1	46·7	44·7	29·2	34·8	32·0	90·9	1127·8
	St. Aubin	38·6	315·2	133·9	111·5	44·7	159·3	36·8	30·5	24·4	49·5	72·4	93·7	1110·5
	St. Avold	137·2	484·1	193·0	239·0	114·8	249·2	124·2	120·4	37·6	53·8	128·8	121·2	2103·3
	Colmar	120·7	555·2	240·5	310·9	121·2	320·8	147·1	110·2	40·4	61·0	77·7	88·9	2194·6
	Union S.E.	51·8	341·9	155·2	147·8	72·4	315·9	67·8	42·4	33·1	33·5	47·8	63·0	1272·6
	Fontenelle	68·6	370·8	181·1	175·3	97·5	210·3	100·1	60·2	33·5	44·2	81·3	120·9	1543·8
	Choisy	114·3	159·3	217·2	120·7	50·8	—	—	—	—	—	114·3	101·6	—
	Beau Bois	90·9	508·0	228·1	272·5	84·8	252·0	136·1	90·7	26·4	64·8	129·0	119·4	2002·7
	Bel Air	47·2	356·9	288·3	184·2	78·7	153·9	59·7	43·9	16·5	39·1	65·8	73·2	1407·4
	St. Félix	Nil	360·2	311·2	184·2	92·7	175·0	55·6	37·3	30·5	31·8	45·5	91·7	1415·7
	Bel Ombre	61·0	265·2	143·0	114·3	35·6	165·1	73·2	34·8	19·8	24·9	41·1	115·1	1093·1
	Beau Champ B. du Cap ...	52·1	212·6	154·9	132·3	41·4	158·8	82·6	55·6	8·6	20·3	29·7	81·8	1030·7
	Fréderica	84·6	244·6	178·8	154·9	47·8	211·1	104·4	71·6	16·0	28·7	79·0	113·0	1334·4
	Ste. Marie	61·7	220·5	149·9	137·2	58·2	157·5	89·2	71·4	7·1	19·8	39·6	68·8	1081·9
	Terracine	53·3	311·4	152·7	142·0	66·5	193·8	80·3	57·7	42·9	36·1	55·9	103·6	1296·2
	Combo	88·1	387·6	201·7	276·6	114·0	256·5	115·1	91·9	33·8	52·8	97·5	130·0	1854·6
	Beau Climat	247·7	677·2	402·6	394·2	188·7	544·8	227·3	173·5	63·5	84·1	191·3	137·7	3332·6
St. Brandon ...	Met. Station	132·6	146·1	209·6	238·0	108·2	60·5	68·1	15·7	25·9	21·3	25·9	21·1	1072·9
Agalega ...	Met. Station	212·9	108·0	195·1	156·7	102·4	166·9	142·2	35·8	63·8	56·6	25·1	104·6	1370·1
Rodrigues ...	Oyster Bay	287·2	52·1	51·8	177·3	80·5	42·3	36·5	43·2	24·4	29·6	23·5	20·9	869·3
Chagos Achipelago	Salomon Islands (Boddam)	257·0	435·6	235·0	275·3	103·1	110·5	739·1	526·3	366·8	327·2	386·6	245·1	4007·6

Table XVI.—Observations of Pilot Balloons, month of December, 1949

Date	Time	1,000 feet		3,000 feet		5,000 feet		7,000 feet		10,000 feet		13,000 feet		15,000 feet		17,000 feet		20,000 feet		25,000 feet		30,000 feet	
		Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir °	Vel. m.p.h.	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p h.	Dir. °	Vel. m.p.h	Dir. °	Vel. m.p.h.	Dir. °	Vel. m.p.h.
1	08·47	09	21	09	26	09	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	08·24	10	22	11	27	10	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	08·45	11	08	09	10	04	08	09	11	10	16	...	...	...	...	...	...	...	...	...	...	...	...
4	08·07	07	15	07	15	04	07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	08·38	09	12	11	14	14	05	12	04	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	08·42	06	04	13	05	20	05	25	10	15	01	19	07	...	...	...	...	...	...	...	...	...	...
7	08·11	06	05	10	10	16	12	15	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	08·29	07	03	10	03	16	07	20	08	22	11	16	05	16	05	...	...	...	...	...	...	...	...
9	08·52	33	04	03	01	01	02	36	02	12	01	33	05	...	...	...	...	...	...	...	...	...	...
10	09·02	31	04	33	04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	09·35	11	11	10	09	11	12	12	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	08·35	10	10	09	09	06	08	08	11	08	12	...	...	...	...	...	...	...	...	...	...	...	...
13	08·40	09	05	11	04	08	05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	08·31	13	05	10	10	09	06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	17·37	10	16	11	12	12	05	08	06	10	04	10	09	13	10	...	...	...	...	...	...	...	...
16	17·43	08	10	05	11	07	10	10	03	06	07	...	...	...	...	...	...	...	...	...	...	...	...
17	17·43	10	07	13	08	17	09	11	06	15	03	18	02	13	06	20	02	...	...	...	...	...	...
18	08·15	09	10	06	07	10	08	11	10	15	12	16	11	...	...	...	...	...	...	...	...	...	...
19	08·45	10	16	09	23	08	20	09	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	07 55	10	09	10	20	08	21	09	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	08 01	11	14	10	16	10	32	10	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	08·40	09	13	08	16	06	14	06	17	04	15	05	18	...	...	...	...	...	...	...	...	...	...
23	08·38	12	22	12	15	09	15	09	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	08·40	03	13	02	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	09·22	05	12	02	12	01	12	01	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	09·20	04	07	04	06	...	...		...	...	...	...	...	...	...	...	...	...	...		...	...	...
27	08.44	07	15	09	11	15	11	16	10	17	08	14	07	14	07	...	...	...	...	...	...	...	...
28	08.34	10	09	10	11	11	16	10	11	12	14	...	...	...	...	...		...	...	...	...	...	...
29	08.14	09	15	09	20	08	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	08·30	09	17	09	16	09	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	08·38	08	13	07	15	07	14	07	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Table XVII.—Monthly and Yearly Means and Extremes of the Meteorological Elements for the Year 1949

Month 1949	Atmospheric Pressure	Temperature of the Air: Absolute: Maximum	Absolute: Minimum	Absolute: Range	Mean of the Daily: Maximum	Mean of the Daily: Minimum	Mean of the Daily: Ranges	Mean	Excess of Air Temperature over Evaporation Temperature	Temperature of the Dew Point	Relative Humidity (Sat. 100)	Vapour Pressure	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration
	mbs.	°c.	°c.	°c.	°c.	°c.	°c.	°c.	°c.	°c.	%	millibars	mms.	minutes
January	1004·8	32·9	21·1	11·8	30·6	24·2	6·4	26·6	3·2	21·8	75·2	26·2	35·5	700
February	1004·1	32·0	18·2	13·8	29·1	22·7	6·4	25·5	2·4	21·9	80·8	26·4	341·6	3595
March ...	1005·7	30·4	18·2	12·2	28·6	22·5	6·1	25·3	2·2	22·1	82·7	26·7	144·3	2225
April ...	1008·4	28·5	19·5	8·8	27·3	22·2	5·1	24·4	1·9	21·5	84·0	25·7	132·7	1615
May ...	1009·8	27·9	14·4	13·5	26·5	20·0	6·5	22·7	2·2	19·2	80·9	22·4	45·4	910
June ...	1012·0	27·7	14·0	13·7	24·9	18·4	6·5	21·4	2·4	17·5	78·7	20·1	90·7	1715
July ...	1013·9	26·0	12·3	13·7	23·8	16·9	6·9	20·1	2·8	15·3	74·1	17·5	36·1	1050
August	1012·9	26·8	12·2	14·6	24·9	16·1	8·8	20·1	2·8	15·3	74·0	17·5	25·4	650
Sept. ...	1013·5	27·0	14·3	12·7	25·7	17·7	8·0	21·2	4·0	14·4	65·1	16·4	16·0	455
October	1012·3	27·9	14·2	13·7	26·4	17·7	8·7	21·8	3·7	15·6	68·1	17·8	15·4	495
Nov. ...	1008·8	32·3	15·3	17·0	28·6	18·9	9·7	23·3	3·2	18·2	73·2	20·9	58·5	785
Dec. ...	1007·2	31·7	17·9	13·8	30·3	21·1	9·2	25·2	3·7	19·5	70·9	22·8	32·6	480
Year ...	1009·4	29·3	16·0	13·3	27·2	19·9	7·3	23·1	2·9	18·5	75·6	21·7	974·2	244·6 hours
Maximum	1019·3 Sep. 6th	32·9 Jan. 11th	...	17·0 Nov	30·6 Jan.	...	9·7 Nov	...					77·9 mms. ending 07·00 hrs. on Feb. 25th	
Minimum	993·5 Jan. 8th	...	12·2 Aug. 8th	8·8 April	...	16·1 Aug.	5·1 April	...						

Table XVII.—*continued*

Month 1949	Mean Daily Amount of Evaporation	Mean Minimum on Grass	Temperature of the Soil: 10 feet	5 feet	2 feet	1 foot	Mean amount of Cloud	Daily Duration of Bright Sunshine	Percentage of Possible Sunshine	Observed Wind Velocity	Number of Days: Rain	Thunderstorm	Lightning
	mms.	°c.	—	°c.	—	°c.	—	hours	%	m.p.s.			
January	6·8	21·5	24·67	25·79	28·09	29·66	—	8·09	61·5	4·15	18	—	—
February	5·6	20·8	25·07	26·65	27·86	28·62	—	5·52	43·4	3·22	21	1	2
March ...	4·8	20·7	25·45	26·55	27·19	28·28	—	7·22	59·3	3·42	22	2	2
April ...	4·2	20·4	25·67	26·37	26·87	27·47	—	8·48	73·1	4·20	23	—	1
May ...	3·4	18·2	25·68	26·03	25·57	26·05	—	7·74	69·5	3·50	16	—	—
June ...	3·3	16·7	25·55	25·31	24·10	24·31	—	7·05	64·7	3·69	20	—	—
July ...	3·8	15·0	25·32	24·43	22·45	22·77	—	8·51	77·4	3·85	20	—	—
August	4·4	14·1	24·79	23·88	22·16	22·77	—	8·03	70·5	3·25	14	—	—
Sept. ...	6·1	15·5	24·25	23·45	22·62	23·64	—	8·20	68·7	3·80	12	—	—
October	6·5	15·6	24·04	23·05	23·67	24·87	—	7·31	58·5	3·54	12	—	—
Nov. ...	7·1	16·8	24·16	24·02	24·84	26·23	—	8·84	67·9	3·03	12	—	1
Dec. ...	7·9	18·5	24·27	24·71	26·73	28·16	—	9·54	71·8	3·00	16	—	—
Year ...	5·3	17·8	24·91	25·03	25·18	26·07	—	7·88	65·5	3·55	206	3	6
Maximum	11·1 Dec. 31st	...	25·8 April	28·0 Feb. & March	28·5 Feb.	30·4 Jan.	...	12·7 Dec. 13th		13·0 Jan. 7th	23 dys. April	2 Feb.	2 Jan. & Feb.
Minimum	1·1 Mar 30th	9·8 Aug. 8th	24·0 Oct	22·5 Oct.	21·9 Aug.	22·3 July	—	0·0 hr. often	0 often	—	12 dys. Sept. Oct. Nov.	—	—

Table XVIII.—Monthly and Yearly Means of the Magnetical Elements for the year 1949

Month	Declination (West)	Horizontal Force (C.G.S. Units)	Vertical Force (C.G.S. Units)	Total Force (C.G.S. Units)	Dip. (South)	X	Y	Z	Mean of the Daily Range: Declination	Mean of the Daily Range: Horizontal Force (Unit 1γ)	Mean of the Daily Range: Vertical Force (Unit 1γ)
January	15°25′·73	·22319	·30324	·37652	53°38′·78	·21525	−·059378	·30324	9′·56	45·2	20·3
February... ...	26·55	·330	·322	·57	37·85	·24	·458	·322	11·76	55·6	30·7
March ...	27·32	·316	·322	·49	38.88	·09	·468	·322	10·69	54·0	30·6
April	27·84	·323	·319	·50	38·22	15	·520	·319	10·84	39·1	32·2
May	29·11	·315	·326	·52	39·23	·05	·578	·326	8·87	37·7	28·1
June	29·60	·327	·334	·65	38·73	·25	642	·334	4·83	45·3	17·2
July	29·93	·331	·335	·68	38·49	·29	·672	·335	5·82	42·0	18·9
August	31·17	·326	·343	·72	39·28	·12	·737	·343	9·22	41·1	31·0
September ...	32·30	·334	·343	·76	38.70	·18	·828	·343	9·26	53·2	32·4
October	33·32	·324	·358	·82	40·25	·06	·865	·358	9·56	59·6	28·6
November ...	33·90	·330	·360	·88	40·30	·11	·918	·360	11·11	61·3	26·5
December ...	34·97	·339	·363	·95	39·42	·18	·060010	·363	8·54	46·2	21·1
Mean	—	—	—	—	—	—	—	—	—	—	—
Year	15°30′·14	·22326	·30337	·37667	53°39′·01	·21516	−·059673	·30337	9′·17	48·5	26·5