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[Annual Meteorological Report] 1910-1930.

(METEOROLOGICAL OBSERVATIONS

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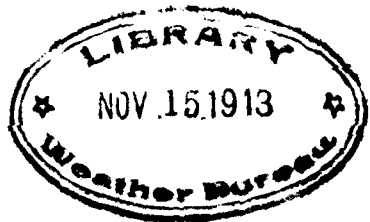
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1910

(LAT. 18° 8' S., LONG. 178° 26' E., BEING 11h. 53m. 44s. FAST OF GREENWICH
MEAN TIME.)

By

CHARLES H. KNOWLES, B.Sc. (LOND.),
SUPERINTENDENT OF AGRICULTURE.

53843



SUVA: EDWARD JOHN MARCH, GOVERNMENT PRINTER.

1912.

National Oceanic and Atmospheric Administration

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September 14, 1999

METEOROLOGICAL OBSERVATIONS.

(Taken at the office of the Superintendent of Agriculture, Suva. Latitude $18^{\circ} 8'$ South. Longitude $178^{\circ} 26'$ East. Height of Cistern of Barometer above Mean Sea-level, 44 ft. Height of the Rain-gauge rim above surface of Ground, 12 inches. Height of Wind-gauge above Ground, 24 ft.)

MONTHLY MEANS. YEARS 1884—1910.

SUVA—9 A.M.

Month.	Barometer reduced to 32° F. and Mean Sea-Level.	Shade Temperature.		Rainfall.	Humidity. °C. (Saturation = 100 °C.)
		Max.	Min.		
	Inches.	° F.	° F.	Inches.	
January	29·860	85·8	73·9	10·572	74·0
February	29·863	86·7	74·5	10·036	76·0
March	29·879	86·2	74·1	14·224	76·8
April	29·936	84·5	73·1	11·381	76·6
May	30·022	82·1	71·2	9·330	77·3
June	30·045	80·5	69·4	5·572	77·5
July	30·053	79·6	68·1	4·010	76·7
August	30·047	79·6	68·3	7·426	76·3
September... ..	30·054	80·5	68·9	6·568	74·0
October	30·026	81·7	70·6	7·918	73·3
November... ..	29·954	83·0	71·7	9·440	72·8
December	29·885	84·8	73·1	11·335	73·5
Means	29·969	82·9	71·4	.....	75·4
Total ... ..	.....	.....	.....	107·812	.....

MONTHLY MEANS AND TOTALS, 1910.

Suva 9 a.m. (11h. 53m. 44s. fast of Greenwich.)

Month.	Barometer (reduced to 32° F. and Mean Sea-Level).			Wind.				Shade Temperature.						Rainfall.			Humidity (per cent. of Saturation).			No. of Thunderstorms.	General direction of Wind.
	Mean.	Highest.	Lowest.	Distance in one month.	Average Velocity.	Greatest Distance in one day.	No. of Calm days.*	Maximum.			Minimum.			Total for Month	Greatest fall in one day.	No. of days of Rain.	Mean.	Highest.	Lowest.		
								Mean.	Highest.	Lowest.	Mean.	Highest.	Lowest.								
January	29.896	30.022 (3rd)	29.831 (17th)	3553.8	4.8	212.8 (9th)	...	87.9	91.0 (25th)	84.9 (14th)	73.3	76.2 (9th)	70.1 (1st and 14th)	6.916	1.100 (25th)	23	75.8	86.0 (22nd)	62.0 (30th)	8	N.E.
February	29.907	30.026 (6th)	29.771 (27th)	3068.5	4.6	228.6 (21st)	...	88.7	96.0 (5th)	81.6 (20th)	74.4	76.6 (14th)	72.1 (28th)	11.570	2.426 (12th)	20	79.0	90.0 (13th)	65.0 (6th and 14th)	5	N.
March	29.872	30.016 (16th)	29.532 (26th)	4405.7	5.9	721.3 (12th)	...	87.8	92.0 (29th)	79.9 (29th)	73.3	75.9 (11th)	70.2 (14th and 30th)	12.043	3.755 (29th)	24	78.8	93.0 (29th and 30th)	72.0 (16th)	5	N.E.
April	29.956	30.050 (29th)	29.855 (2nd)	3066.9	4.3	312.7 (20th)	7	85.8	91.8 (3rd)	76.9 (1st)	73.9	75.8 (7th)	72.1 (21st)	3.871	0.731 (17th)	19	77.2	89.0 (1st and 2nd & 13th)	67.0 (30th)	2	E.
May	30.006	30.183 (13th)	29.839 (30th)	3690.9	4.9	282.2 (26th)	4	83.1	90.6 (10th)	77.1 (19th)	71.0	74.6 (5th)	62.8 (19th 22nd & 28th)	14.123	3.335 (19th)	23	80.6	93.0 (19th)	66.0 (25th)	2	S.E.
June	30.074	30.190 (6th)	29.927 (23rd)	4612.3	6.4	323.1 (14th)	...	79.1	84.6 (1st)	72.0 (14th)	69.1	74.1 (2nd and 29th)	65.0 (7th)	9.894	5.262 (30th)	19	79.5	94.0 (11th)	65.0 (20th)	...	S.E.
July	30.058	30.161 (30th)	29.904 (1st)	4104.4	5.5	248.3 (30th)	1	81.8	89.1 (27th)	74.1 (10th)	68.6	72.0 (29th)	61.0 (10th and 12th)	3.134	0.971 (9th)	13	79.2	92.0 (8th 9th 18th 19th)	70.0 (11th)	...	S.E.
August	30.081	30.172 (1st)	29.937 (5th)	5349.4	7.3	398.8 (1st)	...	78.7	84.6 (20th)	72.0 (9th)	67.5	72.0 (21st)	65.0 (11th)	8.959	2.831 (7th)	21	80.4	94.0 (7th)	61.0 (2nd)	2	S.E.
September	30.075	30.159 (14th)	29.965 (20th)	6411.2	8.8	426.2 (17th)	...	78.9	86.0 (7th)	73.0 (20th)	69.1	73.1 (25th and 28th)	64.0 (6th)	12.914	5.230 (21st)	23	79.8	95.0 (20th and 23rd)	64.0 (2nd)	...	S.E.
October	30.073	30.160 (4th)	29.972 (30th)	6327.5	8.5	376.7 (6th)	...	81.2	88.2 (3rd)	75.0 (8th)	70.6	74.0 (20th and 24th)	67.0 (26th)	19.328	8.331 (6th)	24	80.4	94.0 (8th and 16th)	66.0 (25th)	2	S.E.
November	29.953	30.064 (25th)	29.809 (30th)	4904.0	6.7	300.8 (10th)	1	83.6	88.7 (17th)	76.1 (26th)	72.0	74.1 (8th)	69.9 (19th)	12.725	2.170 (29th)	23	82.7	95.0 (29th)	70.0 (13th)	4	E.
December	29.857	29.962	29.664	5472.1	7.4	367.5	...	86.6	92.0	81.9	74.4	76.9	71.0	9.586	2.313	20	78.7	95.0	68.0	6	S.E.
Totals or Means	29.984			54866.7			13	83.6			71.5			125.063		252	79.3			36	

* Calm days are those on which the wind averages less than 2 miles per hour.

EXTREMES FOR THE YEAR.

Highest Barometer reading—30.190", June 13th.
 Lowest Barometer reading—29.532", March 25th
 Highest Shade Temperature—96.0° F., February 6th.
 Lowest Shade Temperature—61.0° F., July 7th.
 Greatest rainfall in one day—8.331", October 21st.

HURRICANE.

A Hurricane visited the Group on March 24th and early morning of March 25th, entering the Group at the Lau Islands and travelling S.W. Lowest Barometer reading, at Suva, 4.10 a.m. on March 25th, —28.80".

JANUARY.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.	76		
2	29-997	177-9	7-4	86-1	70-1	81-6	68-1	...	73	L.	
3	30-022	100-5	4-2	87-5	73-0	82-1	69-9	0-451	81		
4	29-933	97-2	4-1	85-3	70-9	82-1	69-0	...	72	L.	
5	29-923	53-4	2-2	87-2	72-1	82-0	70-1	0-480	73	L.	
6	29-878	89-4	3-7	87-8	72-0	82-0	69-3	0-015	77	L.	
7	29-878	76-4	3-2	87-0	73-0	82-1	70-0	0-010	77		
8	29-895	105-1	4-4	87-1	73-5	82-9	70-9	0-020	68	T.	
9	29-911	121-4	5-1	87-0	73-0	82-9	68-9	0-015	75	L.	
10	29-908	212-8	8-9	88-8	76-2	83-8	72-1	0-055	72	L.	
11	29-879	197-6	8-2	90-3	76-0	83-9	72-5	...	68		
12	29-932	102-3	4-3	89-9	73-4	84-1	69-0	0-310	73	L.	
13	29-927	110-7	4-6	87-0	73-3	84-1	70-2	0-669	74	L.	
14	29-852	86-1	3-6	88-7	72-1	84-9	69-0	0-402	78	L. & T.	
15	29-897	117-5	4-9	84-9	70-1	82-5	67-8	0-500	85	L. & T.	
16	29-890	89-8	3-7	85-9	71-6	81-7	69-1	0-041	82	L. & T.	
17	29-885	88-0	3-7	86-5	71-9	81-9	68-7	0-379	85		
18	29-847	94-8	4-0	87-1	72-2	82-1	68-3	0-389	77		
19	29-956	87-1	3-6	87-4	74-9	82-9	71-1	0-351	81		
20	29-911	117-8	4-9	88-0	73-9	83-1	70-1	0-036	67		
21	29-867	172-6	7-2	88-9	75-0	83-8	66-9	0-445	81		
22	29-840	170-3	7-1	87-3	76-1	83-4	71-6	0-409	86		
23	29-836	133-0	5-5	87-1	75-1	83-8	70-3	0-361	82	L. & T.	
24	29-840	124-5	5-2	87-0	74-5	84-0	70-0	0-388	85	L.	
25	29-851	112-9	3-5	90-9	74-1	83-5	69-4	0-030	72	L. & T.	
26	29-939	65-1	2-7	90-8	74-0	83-1	69-0	1-100	77	L. & T.	
27	29-901	102-3	4-3	87-1	75-9	84-1	70-9	0-060	76	L. & T.	
28	29-844	155-7	6-5	86-6	73-9	84-1	70-9	...	78		
29	29-867	97-8	4-1	90-1	72-1	83-8	72-1	...	76	L. & T.	
30	29-891	110-8	4-6	89-2	71-9	84-1	70-2	...	62		
31	29-909	98-1	4-1	90-0	73-5	84-9	70-8	...	65	L.	
Totals	.....	3553-8	.....	.....	.....	.....	.....	6-916	.....	
Means	29-896	.....	4-8	87-9	73-3	83-2	69-7	.....	75-8		

FEBRUARY.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.	66		L. & T.
2	29-895	133-3	5-6	93-9	73-2	84-9	70-1	...	69	L.	
3	29-935	86-5	3-6	94-0	74-9	85-2	71-3	...	72	T.	
4	29-917	99-2	4-1	90-3	74-6	84-8	71-9	...	67		
5	29-863	93-6	3-9	94-9	74-8	85-1	71-2	...	69	T.	
6	29-942	87-0	3-6	95-9	75-2	85-1	72-0	0-095	65	T.	
7	30-026	94-9	4-0	96-0	75-3	85-3	72-1	...	71	L. & T.	
8	29-915	103-8	4-3	92-1	75-1	85-6	71-9	...	69		
9	29-979	100-3	4-2	91-0	76-0	86-3	72-9	0-195	72	L.	
10	29-950	81-7	3-4	90-2	75-0	86-1	72-3	0-620	72	L.	
11	29-938	94-5	3-9	92-1	75-1	86-0	72-8	...	84		
12	29-909	105-7	4-4	87-9	75-1	84-8	72-8	0-745	90		
13	29-859	95-5	4-0	89-5	75-1	83-1	73-3	2-426	90		
14	29-846	115-0	4-8	85-9	75-1	83-7	73-1	0-031	65		
15	29-843	190-5	7-5	86-9	76-6	82-9	71-5	0-611	89		
16	29-867	217-1	9-0	83-8	72-2	82-4	70-0	1-347	89		
17	29-908	131-5	5-5	85-6	74-9	82-0	72-9	0-992	88		
18	29-961	108-2	4-5	84-9	73-0	81-0	71-3	0-874	90		
19	29-978	58-9	2-5	82-1	73-1	80-5	72-0	...	80		
20	29-936	60-2	2-5	87-0	73-1	80-9	72-0	0-146	89	L.	
21	29-901	125-2	5-2	81-6	73-8	80-3	71-9	0-015	84		
22	29-849	228-6	9-5	86-0	74-5	80-1	71-8	0-620	88		
23	29-879	63-6	2-7	86-1	74-1	80-0	73-2	0-175	76		
24	29-907	121-7	5-1	92-9	74-1	80-1	72-1	...	81		
25	29-898	112-4	4-7	88-7	76-0	81-4	73-9	1-720	89		
26	29-877	49-2	2-1	84-0	73-9	80-9	72-9	0-274	80		
27	29-914	55-7	2-3	87-9	73-1	81-3	71-9	0-868	87		
28	29-771	153-4	6-4	86-1	73-1	81-9	73-1	0-245	80		
29	29-866	111-3	4-6	86-5	72-1	82-4	73-0	0-050	80		
Totals	.....	3068-5	.....	.....	.....	.....	.....	11-570	.....	
Means	29-907	.....	4-6	88-7	74-4	83-0	72-2	.....	79-0		

L. = Lightning. T. = Thunder.

MARCH.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches. 29-738	Miles. 234.9	Miles per hr. 9.8	° F. 83.0	° F. 76.0	° F. 82.9	° F. 72.0	Inches. 0.221	73		
2	29-639	123.7	5.2	87.9	73.1	83.0	70.1	0.121	78	L.	
3	29-608	121.3	5.1	90.0	74.1	82.8	72.0	0.030	79		
4	29-682	122.9	5.1	91.9	72.0	82.2	69.0	0.761	74		
5	29-749	81.0	3.4	92.0	73.0	82.5	70.0	0.065	83		
6	29-767	54.8	2.3	90.5	72.9	82.8	70.1	...	73	L. & T.	
7	29-753	90.5	3.8	90.0	71.6	82.9	68.1	...	72	T.	
8	29-804	73.3	3.1	89.6	74.3	83.1	71.4	...	80	L.	
9	29-880	59.2	2.5	88.1	75.1	83.0	73.5	0.010	86	L.	
10	29-921	64.4	2.7	85.9	74.9	82.9	72.0	0.141	86	L.	
11	29-894	77.5	3.2	88.1	75.9	81.9	68.0	0.170	77		
12	29-908	92.5	3.9	88.1	73.6	82.8	71.1	0.481	81		
13	29-943	81.1	3.4	84.4	72.3	82.2	71.1	0.180	93		
14	29-925	85.4	3.6	87.1	70.2	81.9	66.0	0.075	83		
15	29-955	116.4	4.9	87.1	72.1	82.5	69.9	...	76		
16	29-969	107.4	4.5	87.5	72.1	82.8	69.1	0.010	77	L. & T.	
17	29-995	78.9	3.3	89.9	72.0	83.0	70.3	2.381	75		
18	29-968	103.3	4.3	88.3	74.1	83.0	73.0	0.030	76		
19	29-978	81.3	3.4	88.0	73.9	83.0	72.0	...	81	L.	
20	29-955	80.2	3.3	88.9	73.0	83.1	70.3	...	73	L. & T.	
21	29-963	71.3	3.0	88.6	72.0	82.4	71.0	0.100	77		
22	29-942	95.4	4.0	87.1	73.0	82.0	71.0	0.010	81		
23	29-928	115.7	4.8	89.9	74.0	81.9	72.0	0.163	83	L.	
24	29-913	120.0	5.0	86.1	74.3	82.1	72.3	3.755	75	L. & T.	
25	29-532	721.3	30.1	79.9	74.0	81.1	72.9	2.760	89	L. & T.*	
26	29-866	456.2	19.0	85.0	73.3	79.2	71.8	0.051	85		
27	29-934	122.6	5.1	87.2	73.0	79.8	71.7	0.010	72		
28	29-973	65.8	2.7	87.0	71.0	79.3	68.1	0.526	76		
29	30-016	446.4	18.6	89.0	74.1	80.1	72.0	...	76	L.	
30	29-974	182.3	7.6	87.1	73.9	80.1	70.9	0.019	72	L.	
31	29-967	78.7	3.3	89.1	75.0	80.8	71.6	0.033	80		
Totals	.....	4405.7	.....	.....	.....	.....	.....	12.043	.....	.....	.....
Means	29-872	.....	5.9	87.8	73.3	82.1	70.8	.....	78.8	.....	.....

* Severe hurricane in early morning of 25th; lowest reading of barograph, 28.80" at 4.10 a.m.

APRIL.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches. 29-968	Miles. 97.4	Miles per hr. 4.1	° F. 85.8	° F. 74.0	° F. 80.9	° F. 70.9	Inches. 0.089	80		
2	29-948	159.2	6.6	86.0	77.0	81.0	73.1	0.065	73		
3	29-932	126.4	5.3	86.0	74.2	81.1	71.9	0.030	76		
4	29-960	119.4	5.0	86.0	74.1	81.0	71.0	0.059	80		
5	29-977	146.3	6.1	85.0	74.0	81.1	70.0	0.121	73		
6	30-003	122.1	5.1	87.0	73.9	80.9	68.9	0.600	81		
7	29-982	127.6	5.3	85.1	74.1	81.0	71.1	...	80		
8	29-962	100.1	4.2	84.9	73.9	80.9	71.2	0.051	81	L. & T.	
9	29-943	21.9	0.9	87.3	74.8	80.0	72.9	...	85		
10	29-903	82.4	3.4	86.1	74.8	80.0	71.5	...	80	L. & T.	
11	29-923	38.3	1.6	89.0	74.1	80.1	71.8	0.299	76		
12	29-942	47.2	2.0	91.8	73.1	80.1	70.1	...	76		
13	29-984	62.5	2.6	89.4	73.6	80.5	69.3	...	70		
14	30-009	35.9	1.5	88.2	72.1	80.3	67.4	...	74		
15	30-039	21.8	0.9	87.0	74.7	80.9	70.2	0.013	73		
16	30-050	10.0	0.4	86.3	73.0	80.9	68.3	0.053	67		
17	30-013	6.8	0.3	86.0	75.8	80.9	70.1	0.016	74		
18	30-018	7.6	0.3	85.9	74.9	80.2	69.3	0.171	76		
19	29-995	108.7	4.5	85.0	74.1	80.3	69.1	0.291	76		
20	29-977	61.4	2.9	85.8	74.9	80.0	70.8	0.317	77		
21	29-982	185.2	8.1	85.9	74.9	80.2	72.0	...	81		
22	29-953	144.5	6.0	86.4	74.9	80.6	71.3	...	70		
23	29-896	97.2	4.1	87.9	73.5	80.1	69.1	...	75		
24	29-908	96.6	4.0	88.1	72.5	80.2	68.9	...	73		
25	29-874	79.3	3.8	85.5	72.2	80.2	67.2	...	73		
26	29-855	106.0	4.4	87.9	73.1	80.1	70.1	0.013	79		
27	29-869	183.8	7.7	84.9	72.5	80.4	70.0	0.133	76		
28	29-945	264.1	11.0	78.0	72.3	79.5	71.1	0.570	84		
29	29-963	312.7	13.0	76.9	72.9	78.1	69.7	0.731	89		
30	29-921	84.5	3.5	79.0	72.1	77.9	71.1	0.249	89		
Totals	.....	3066.9	.....	.....	.....	.....	.....	3.871	.....	.....	.....
Means	29-956	.....	4.3	85.8	73.9	80.3	70.3	.....	77.2	.....	.....

L. = Lightning. T. = Thunder.

MAY.

Date.	Barometer reduced to M.S.L. and 32° F.		Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
			Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.				
1	29-875	58.1	2.4	77.1	72.0	78.0	70.5	0.555	93			
2	29-839	95.0	4.0	85.8	71.9	77.3	69.9	...	93			
3	29-866	78.0	3.3	90.9	73.6	78.3	70.6	1.589	80	L. & T.		
4	29-911	79.2	3.3	86.5	73.7	79.0	71.1	...	81			
5	29-919	22.5	0.9	87.0	73.0	79.4	70.0	...	80			
6	29-895	42.4	1.8	86.9	73.0	79.6	70.2	...	77			
7	29-868	29.0	1.2	87.0	74.6	79.9	71.1	0.120	79	L. & T.		
8	29-902	99.4	4.1	80.0	73.1	79.5	72.0	0.030	90			
9	29-826	104.9	4.4	84.0	73.4	79.1	72.0	2.031	83			
10	29-864	170.3	7.1	86.1	69.7	78.8	67.1	...	80			
11	29-999	79.6	3.3	85.0	72.9	79.1	70.1	0.193	78			
12	29-988	111.9	4.7	86.5	74.0	79.5	72.1	3.121	86			
13	30-011	71.4	3.0	88.4	69.0	78.9	68.2	0.100	93			
14	29-996	118.3	4.8	84.8	70.0	78.9	67.5	0.119	83			
15	30-071	95.7	4.0	83.0	71.0	78.4	68.0	...	86			
16	30-049	68.0	2.8	84.0	69.0	78.0	65.6	0.140	84			
17	29-996	66.8	2.8	82.0	69.1	78.0	66.0	3.335	87			
18	30-004	85.3	3.6	82.0	66.9	77.7	63.1	1.359	82			
19	30-051	178.1	7.4	78.5	65.9	76.9	63.0	0.060	79			
20	30-066	282.2	11.8	80.8	67.0	75.9	58.9	...	70			
21	30-078	126.1	5.3	81.1	62.8	75.0	58.0	...	71			
22	30-059	21.6	0.9	80.7	68.1	75.8	65.1	0.045	77			
23	30-168	121.5	5.1	80.1	72.1	76.0	70.1	0.321	86			
24	30-147	175.3	7.3	83.9	74.3	76.9	72.0	0.070	81			
25	30-157	238.3	9.9	83.0	74.1	77.3	69.0	0.046	74			
26	30-059	111.1	4.6	82.9	72.0	77.2	67.9	0.130	72			
27	30-045	209.4	8.7	78.3	71.9	77.1	69.5	0.100	82			
28	30-138	202.2	8.4	81.0	73.0	76.9	69.0	0.044	76			
29	30-183	247.6	10.3	78.2	73.2	76.4	69.2	0.095	75			
30	30-105	228.0	9.5	80.6	71.9	76.1	66.9	0.040	66			
31	30-024	73.7	3.1	79.9	66.1	75.8	62.0	0.480	75			
Totals	.....	3680.9	.....	.....	.....	.....	.....	14.123	.....	.....
Means	30.006	.....	4.9	83.1	71.0	77.8	67.9	.....	80.6	.....	

JUNE.

Date.	Barometer reduced to M.S.L. and 32° F.		Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
			Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.				
1	30-045	132.0	5.5	76.9	69.9	75.7	68.5	0.491	90			
2	30-071	187.6	7.8	79.0	70.9	75.5	69.0	0.021	76			
3	30-073	133.8	5.8	81.1	70.9	75.9	65.3	0.031	80			
4	30-088	164.3	6.8	80.1	72.2	76.0	67.1	...	89			
5	30-080	229.2	10.4	80.9	74.1	76.1	69.3	0.035	72			
6	30-102	215.4	9.0	80.9	72.9	76.1	68.9	0.049	81			
7	30-131	207.2	8.4	81.0	73.2	76.0	67.0	...	81			
8	30-065	128.3	5.3	81.9	69.0	76.0	68.0	0.090	76			
9	30-019	87.0	3.6	81.1	70.0	76.0	65.1	0.131	88			
10	30-020	68.6	2.9	84.6	70.0	76.1	66.0	...	82			
11	30-110	71.1	3.0	82.0	71.8	76.9	66.2	0.049	81			
12	30-139	170.1	7.1	81.1	73.0	76.9	67.5	...	76			
13	30-190	113.4	4.7	80.5	68.9	76.1	62.0	0.050	71			
14	30-167	207.6	8.7	79.2	73.1	75.9	66.1	...	73			
15	30-124	78.3	3.3	81.1	70.9	75.2	67.1	...	79			
16	30-028	106.6	4.4	82.0	65.9	74.9	62.0	0.010	77			
17	30-035	179.4	7.5	76.0	69.9	75.0	65.9	0.110	82			
18	30-035	63.6	2.7	74.2	67.0	74.3	64.0	2.570	87			
19	30-067	60.2	2.5	72.0	65.0	72.9	61.9	5.262	84			
20	30-041	135.4	5.6	74.9	66.5	72.1	65.1	0.730	87			
21	29-973	256.9	10.7	73.5	67.0	72.0	65.0	0.015	84			
22	30-069	202.7	8.5	78.1	65.0	72.0	60.1	0.065	89			
23	30-055	119.6	5.0	80.0	67.0	72.5	65.1	0.140	82			
24	30-105	159.9	6.7	76.9	67.4	72.9	65.6	0.030	78			
25	30-126	287.8	12.0	77.7	69.0	73.0	63.0	...	65			
26	30-134	323.1	13.5	77.2	70.2	72.0	66.9	0.015	68			
27	30-058	223.4	9.4	78.1	69.0	71.9	64.5	...	76			
28	30-068	124.8	5.2	79.1	65.0	71.8	58.9	...	79			
29	30-062	83.8	3.5	78.0	66.1	72.0	61.9	...	81			
30	29-927	91.2	3.8	84.5	65.1	72.0	60.9	...	80			
Totals	.....	4612.3	.....	.....	.....	.....	.....	9.894	.....	.....
Means	30.074	.....	6.4	79.1	69.1	74.4	65.1	.....	79.5	.....	

L. = Lightning. T. = Thunder.

JULY.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.	Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.	
1	Inches. 29-919	Miles. 95.5	Miles per hr. 4.0	° F. 89.1	° F. 70.8	° F. 73.6	° F. 66.0	Inches. 0.595	78	
2	29-973	120.8	5.0	83.5	72.0	74.9	68.9	...	83	
3	30-009	234.3	9.8	81.0	66.0	74.0	60.9	...	76	
4	30-070	185.5	7.7	80.7	63.4	73.1	58.9	...	79	
5	30-123	222.8	9.3	83.0	67.0	73.1	61.9	...	79	
6	30-161	167.3	7.0	79.1	68.1	73.5	63.7	...	73	
7	30-154	79.5	3.3	80.0	61.0	72.6	56.9	...	71	
8	30-156	92.5	3.9	79.1	62.9	72.9	57.0	...	72	
9	30-121	67.8	2.8	80.1	66.7	73.0	60.5	0.051	75	
10	30-114	123.0	5.1	83.9	68.9	73.4	62.9	0.010	80	
11	30-082	98.9	4.1	82.9	71.0	74.1	67.0	...	85	
12	30-013	130.2	5.4	88.9	70.0	74.9	66.2	...	79	
13	29-967	53.3	2.2	83.6	71.2	75.1	66.0	0.700	77	
14	30-030	248.3	10.3	74.1	68.3	74.1	67.1	0.036	92	
15	30-027	107.0	4.5	79.1	67.0	73.8	64.8	...	79	
16	30-051	72.3	3.0	87.0	67.1	73.9	62.0	0.110	82	
17	30-114	72.3	3.0	77.0	71.0	74.3	69.9	0.310	91	
18	30-123	243.4	10.1	79.5	71.0	74.4	67.3	...	71	
19	30-130	227.2	9.5	76.4	70.1	74.0	66.0	...	72	
20	30-128	142.7	5.9	81.0	71.0	73.9	69.0	0.010	70	
21	30-126	65.4	2.8	79.9	66.0	73.1	61.8	...	87	
22	30-030	99.3	4.1	80.6	66.0	73.2	61.0	...	84	
23	29-904	96.2	4.0	88.9	70.5	74.3	67.9	0.091	77	
24	29-954	131.7	5.5	82.9	70.3	75.1	66.0	...	84	
25	30-050	44.1	1.8	83.8	67.9	75.0	63.0	...	84	
26	30-069	85.5	3.6	85.7	71.0	75.9	66.9	...	78	
27	30-068	183.6	7.7	84.9	67.9	75.1	62.0	...	78	
28	30-008	100.2	4.2	84.8	71.0	75.7	65.0	0.080	80	
29	30-046	174.7	7.3	78.0	72.0	75.7	69.0	0.170	81	
30	30-059	175.4	7.3	79.8	69.9	75.0	66.1	0.971	80	
31	30-027	163.7	6.8	81.0	70.0	75.0	65.1	...	79	
Totals	.....	4104.4	.....	.....	.....	.....	.....	3.134	.....
Means	30-058	.....	5.5	81.8	68.6	74.2	64.4	.....	79.2	

AUGUST.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.	Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.	
1	Inches. 29-973	Miles. 155.2	Miles per hr. 6.5	° F. 79.1	° F. 68.5	° F. 75.0	° F. 64.2	Inches. 0.010	80	
2	30-003	278.8	11.6	78.2	66.2	74.1	61.1	...	71	
3	30-043	235.0	9.8	79.1	66.0	73.0	61.0	0.019	66	
4	30-121	108.0	4.5	79.0	66.2	73.1	59.2	...	66	
5	30-092	157.2	6.6	79.7	66.2	73.4	60.0	0.159	78	
6	30-085	113.1	4.7	79.8	66.8	73.8	62.0	0.185	79	
7	30-042	83.9	3.5	82.5	68.0	73.9	63.0	0.135	85	
8	30-037	97.9	4.1	81.0	70.9	74.3	68.1	0.731	94	
9	30-051	124.8	5.2	73.9	70.9	75.0	71.0	2.831	94	
10	30-060	215.1	9.0	72.0	65.0	73.0	63.3	0.619	93	T.
11	30-062	263.7	11.0	75.8	65.5	71.9	59.6	0.035	61	
12	30-071	340.7	14.2	77.0	65.0	71.1	59.8	0.069	65	
13	30-090	278.1	11.6	74.8	66.0	71.0	60.9	0.196	78	
14	30-132	273.2	11.4	76.0	67.0	71.6	60.1	0.443	75	
15	30-144	210.7	8.8	75.0	66.9	71.9	65.0	0.268	84	
16	30-137	155.7	6.5	73.9	68.1	72.0	66.1	1.353	93	
17	30-081	205.3	8.6	75.0	67.7	71.9	65.5	0.810	93	
18	30-048	51.9	6.3	80.0	68.2	72.1	67.0	0.625	94	
19	30-095	71.8	3.0	79.1	69.8	73.0	67.1	0.152	94	L. & T.
20	30-131	80.4	3.4	80.8	68.1	73.1	65.2	0.085	84	
21	30-144	122.4	5.1	80.9	69.0	74.0	65.1	...	77	
22	30-121	159.7	6.7	80.0	70.0	74.0	64.9	...	77	
23	30-064	139.1	5.8	82.0	66.0	74.0	60.9	...	71	
24	30-028	106.0	4.4	84.2	65.3	73.9	59.1	...	80	
25	30-042	68.2	2.9	84.0	67.0	74.4	63.0	...	79	
26	30-066	79.7	3.3	81.2	68.9	75.0	64.9	...	75	
27	30-021	107.1	4.5	84.6	66.1	75.0	61.0	...	75	
28	30-086	90.7	3.8	84.0	66.7	75.1	61.5	...	78	
29	30-126	189.1	7.9	80.1	72.0	75.9	68.0	0.114	79	
30	30-172	398.8	16.6	74.0	67.7	75.0	65.9	0.071	93	
31	30-147	388.1	16.2	73.6	67.1	74.0	65.0	0.049	80	
Totals	.....	5349.4	.....	.....	.....	.....	.....	8.959	.....
Means	30-081	.....	7.3	78.7	67.5	73.5	63.5	.....	80.4	

L. = Lightning. T. = Thunder.

SEPTEMBER.

Date.	Barometer reduced to M.S.L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches. 30-159	Miles. 426.2	Miles per hr. 17.8	° F. 74.9	° F. 69.0	° F. 73.0	° F. 64.4	Inches.	79		
2	30-133	397.9	16.6	77.9	69.0	72.9	65.0	0.351	64		
3	30-044	274.0	11.4	77.2	66.1	72.8	64.9	0.629	84		
4	29-979	107.6	4.4	80.1	67.9	72.9	64.0	0.329	93		
5	29-965	66.5	2.8	82.0	67.1	73.9	65.0	0.324	79		
6	30-029	71.1	3.0	81.0	68.1	74.1	65.0	0.080	86		
7	30-048	169.3	7.1	76.0	72.9	75.0	70.1	5.230	95		
8	30-068	363.0	12.6	77.9	72.0	74.9	71.0	0.090	89		
9	30-050	338.7	14.1	73.0	70.0	74.2	68.9	0.379	89		
10	30-017	120.7	5.0	74.3	69.8	73.9	68.0	1.735	90		
11	30-055	68.1	2.8	78.5	64.0	72.3	61.0	1.220	91		
12	30-023	120.5	5.0	80.5	64.5	72.3	60.2	0.015	84		
13	30-069	105.5	4.4	80.2	67.1	73.8	63.0	0.010	88		
14	30-098	154.0	6.4	80.0	67.9	74.1	64.0	0.100	70		
15	30-144	226.2	9.4	80.0	68.0	74.0	65.9	...	67		
16	30-137	215.1	9.0	77.1	66.0	74.0	60.1	0.170	70		
17	30-155	268.6	11.2	79.1	69.2	73.1	65.9	0.141	75		
18	30-150	266.1	11.1	80.1	67.0	73.9	63.0	0.792	75		
19	30-115	273.7	11.4	79.1	70.6	74.0	69.1	1.150	84		
20	30-138	247.5	10.3	86.0	72.0	75.0	70.1	0.015	86		
21	30-142	201.4	8.4	80.5	73.1	75.2	70.9	...	85		
22	30-092	274.6	11.4	79.0	72.0	75.2	69.2	0.010	83		
23	30-036	197.9	8.2	79.9	68.1	75.1	62.0	...	67		
24	30-002	178.0	7.4	80.1	70.5	75.4	65.8	...	77		
25	30-060	200.0	8.3	80.9	71.9	76.0	66.1	0.019	71		
26	30-055	258.7	10.8	77.9	71.0	75.9	66.2	0.015	80		
27	30-110	292.1	12.2	76.0	70.9	75.0	66.9	0.100	79		
28	30-020	127.1	5.3	78.1	66.9	74.1	63.0	0.010	79		
29	30-046	185.5	7.7	79.0	68.9	75.0	65.4	...	71		
30	30-102	275.6	11.5	80.1	70.0	75.2	65.1	...	65		
Totals	.....	6411.2	.....	.....	.....	.....	.....	12.914	.....	
Means	30-075	.....	8.8	78.9	69.1	74.2	65.7	.....	79.8		

OCTOBER.

Date.	Barometer reduced to M.S.L. and 30° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.		Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.		
1	Inches. 30-115	Miles. 303.1	Miles per hr. 12.6	° F. 80.1	° F. 68.9	° F. 75.9	° F. 64.4	Inches.	69		
2	30-120	270.5	11.3	78.8	70.0	75.9	65.0	0.013	66		
3	30-119	190.1	7.9	78.0	68.2	74.9	63.6	0.015	72		
4	30-137	159.4	6.3	79.9	67.9	74.7	64.6	0.130	79		
5	30-124	123.5	5.1	80.9	68.0	75.0	65.1	0.010	92		
6	30-106	129.5	5.4	83.0	67.0	76.1	62.0	...	79		
7	30-076	106.6	4.4	88.2	68.8	76.9	62.9	1.340	76		L. & T.
8	30-070	68.3	2.8	82.2	69.9	76.8	66.1	0.870	81		
9	30-082	69.0	2.9	81.0	71.0	77.0	68.8	...	80		
10	30-053	113.1	4.7	82.0	69.4	77.1	64.9	0.240	79		
11	30-053	108.8	4.5	85.1	73.0	77.9	70.2	...	89		
12	30-100	102.9	4.6	84.9	70.1	78.0	65.8	...	76		
13	30-149	119.0	5.0	83.3	70.1	78.9	66.0	0.015	76		
14	30-160	147.4	6.1	84.0	70.1	79.0	64.9	...	71		
15	30-116	129.4	5.4	85.0	71.2	79.1	65.9	0.120	77		L.
16	30-097	271.7	11.3	81.9	72.5	79.2	69.9	0.049	77		
17	30-106	376.7	15.7	78.1	72.0	78.0	68.5	0.091	81		
18	30-104	269.3	11.2	78.1	70.8	77.0	68.0	0.069	80		
19	30-036	203.9	8.5	80.0	69.0	76.1	66.8	1.795	94		
20	29-972	176.9	7.0	75.0	71.1	75.7	70.0	3.154	94		
21	30-018	327.2	13.6	77.7	69.5	74.9	68.1	8.331	93		
22	30-008	224.4	9.4	80.0	71.0	75.0	70.0	1.661	89		
23	30-051	224.0	9.4	79.9	71.0	75.0	70.1	0.525	94		L. & T.
24	30-047	225.8	9.4	80.8	73.0	76.0	71.9	0.171	89		L.
25	30-091	273.5	11.4	81.5	74.0	76.2	72.0	0.030	81		L.
26	30-066	288.3	12.0	80.8	72.9	76.2	70.1	0.010	75		L.
27	30-029	178.7	7.4	81.9	68.9	76.2	64.2	...	72		L.
28	30-020	255.1	10.6	82.7	74.0	77.1	72.0	0.320	86		
29	30-063	351.6	14.7	80.1	71.9	77.0	70.5	0.078	91		
30	30-024	292.5	12.2	82.1	73.0	77.0	73.0	0.211	75		
31	30-001	249.3	10.4	81.6	70.9	77.1	68.1	0.080	79		
Totals	.....	6327.5	.....	.....	.....	.....	.....	19.328	.....	
Means	30-073	.....	8.5	81.2	70.6	76.7	67.5	.....	80.4		

L. = Lightning. T. = Thunder.

NOVEMBER.

Date.	Barometer reduced to M.S.-L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.	Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass		Per cent. of Saturation.	
	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.		
1	30-034	275.3	11.5	81.2	72.1	77.3	70.0	0.080	84	
2	30-012	112.0	4.7	88.0	71.9	77.9	69.0	0.010	84	L. & T.
3	29-955	108.5	4.5	88.7	71.0	78.0	68.1	0.241	77	L. & T.
4	30-064	43.8	1.8	85.2	70.2	78.0	67.9	0.301	85	L. & T.
5	30-009	254.4	10.6	82.0	73.9	77.9	71.2	1.540	82	
6	30-013	300.8	12.5	79.0	70.2	77.0	69.0	2.170	94	
7	29-981	239.5	10.0	79.2	71.0	76.3	69.1	1.430	82	
8	30-009	146.8	6.1	76.1	71.7	76.0	70.2	1.710	95	
9	29-981	205.2	8.6	80.0	72.0	75.9	70.9	...	84	
10	29-974	196.8	8.2	81.0	70.8	75.9	68.3	0.010	78	
11	29-981	159.7	6.7	79.4	72.0	76.0	69.0	0.026	79	
12	29-997	217.0	9.0	82.0	71.0	76.0	68.3	0.056	75	
13	29-964	239.7	12.5	80.9	72.0	76.9	69.2	1.290	84	
14	29-914	273.8	11.4	78.0	72.5	76.5	71.3	1.100	94	
15	29-919	96.4	4.0	81.0	71.9	76.2	70.9	0.408	95	
16	29-961	104.9	4.4	81.3	72.0	76.5	70.9	0.970	82	
17	29-917	62.6	2.6	86.9	72.1	76.6	70.0	...	88	
18	29-936	85.3	3.5	83.3	72.9	77.4	69.9	0.300	89	
19	29-920	77.4	3.2	87.2	74.0	78.0	71.8	...	81	
20	29-943	167.6	7.0	88.0	74.1	79.2	72.0	...	76	
21	29-988	108.9	4.5	88.5	74.0	80.1	70.0	...	73	
22	29-991	96.3	4.0	86.9	70.3	80.0	67.0	0.371	84	
23	29-947	79.8	3.3	84.1	74.0	80.2	71.9	0.068	91	
24	29-927	222.2	9.3	85.0	74.1	80.3	70.9	0.010	76	
25	29-922	153.5	6.6	85.0	71.0	80.1	66.8	...	70	
26	29-924	137.8	5.7	84.0	69.9	79.9	65.9	0.081	72	
27	29-883	105.6	4.4	83.1	72.1	80.1	69.3	0.054	87	
28	29-868	190.6	7.9	83.9	73.1	80.9	70.3	...	76	
29	29-851	136.2	5.7	84.8	71.0	81.0	66.0	0.080	78	L. & T.
30	29-869	142.6	5.9	84.9	72.1	81.9	68.1	0.359	76	
Totals	.....	4804.0	.....	.....	.....	.....	.....	12.725	.....
Means	29-953	.....	6.7	83.6	72.0	78.1	69.4	.....	82.7	

DECEMBER.

Date.	Barometer reduced to M.S.-L. and 32° F.	Wind.		Temperature.				Rainfall.	Relative Humidity.	Remarks.
		Distance in one day.	Average Velocity.	Max.	Min.	Earth 1 ft. below surface.	Min. on Grass.		Per cent. of Saturation.	
	Inches.	Miles.	Miles per hr.	° F.	° F.	° F.	° F.	Inches.		
1	29-812	121.3	5.1	83.1	74.9	80.9	73.4	0.010	88	
2	29-840	50.9	2.1	86.5	72.9	80.3	69.0	0.036	80	L. & T.
3	29-822	59.2	2.5	87.2	73.8	81.9	70.9	...	76	L. & T.
4	29-837	99.5	4.1	89.0	75.0	82.4	70.0	...	73	L.
5	29-872	242.3	10.1	89.0	75.9	83.1	73.0	...	76	
6	29-874	258.6	10.8	87.1	76.0	83.4	73.0	...	75	
7	29-831	256.9	10.7	87.3	76.8	84.0	74.0	...	72	
8	29-856	288.9	12.0	83.7	76.9	83.2	75.1	0.510	80	
9	29-850	111.9	4.7	86.0	72.5	81.1	76.9	...	82	
10	29-786	367.5	15.3	86.2	75.9	82.0	72.9	0.099	79	
11	29-808	311.8	13.0	86.2	75.1	82.1	72.2	...	76	
12	29-829	265.8	11.1	86.0	75.3	82.2	73.0	...	72	
13	29-862	231.2	9.6	85.1	74.9	83.0	72.6	0.044	68	
14	29-887	167.4	7.0	87.9	72.3	81.9	67.8	0.081	85	
15	29-891	168.7	7.0	89.8	74.9	83.9	71.1	0.499	69	
16	29-953	167.1	7.0	90.9	71.9	84.0	68.6	0.059	72	L. & T.
17	29-916	68.5	2.9	92.0	73.3	84.1	70.2	0.843	71	L. & T.
18	29-922	105.7	4.4	88.0	72.2	82.0	70.4	1.181	85	L. & T.
19	29-929	81.1	3.4	89.2	71.0	81.0	68.9	...	77	L. & T.
20	29-951	250.8	10.5	80.0	76.2	82.9	73.9	...	76	L. & T.
21	29-961	58.4	2.4	89.0	73.0	83.4	70.9	1.340	76	L.
22	29-912	149.7	6.2	86.0	75.2	83.9	73.5	0.070	81	L. & T.
23	29-904	150.0	6.3	84.2	74.5	83.1	73.1	0.071	84	L. & T.
24	29-955	129.3	5.4	85.1	72.9	82.0	67.9	0.090	75	
25	29-962	243.5	10.1	83.1	75.3	81.9	71.0	0.100	76	
26	29-915	166.7	6.9	81.9	74.1	81.0	71.5	...	85	
27	29-847	128.8	5.4	85.8	74.9	80.5	70.1	0.271	75	
28	29-762	180.1	7.5	85.0	74.9	81.1	72.1	1.201	86	
29	29-709	284.8	11.9	84.4	74.9	80.6	74.9	2.313	95	
30	29-664	208.8	8.7	86.5	73.7	81.1	69.0	0.479	85	
31	29-669	96.9	4.0	85.0	74.1	81.1	72.1	0.289	90	L.
Totals	.....	5472.1	.....	.....	.....	.....	.....	9.586	.....
Means	29-857	.....	7.4	86.6	74.4	82.2	71.5	.....	78.7	

L = Lightning. T = Thunder.