

Jamaica. Meteorological Service.

JAMAICA

METEOROLOGICAL OBSERVATIONS

YEAR 1938.

The hours of observation are 7 a.m. and 3 p.m. The "Mean" refers to the day of 24 hours as deduced from these hours, (including the Maximum and Minimum Temperatures) for Tables shewn at the end.

Meridian of Longitude for calculation of time adopted as Standard in the Colony	.. .. .	75° W.
Hours slow of Greenwich Mean Time	.. .. .	.. 5

KINGSTON.

Latitude	.. .. .	17° 58' N.
Longitude	.. .. .	76° 48' W.

QC  
957  
J25  
M48  
1938



074998

# **National Oceanic and Atmospheric Administration**

## **Climate Database Modernization Program**

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March 28, 2002



STATION—KINGSTON.

JANUARY, 1938.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins	
	Ins.	Ins.	°	°	°	°	°	°	%	%						
1	29.907	29.885	73.1	82.1	82.4	73.1	58	73	86	74	N.	5 S.W.	6	10	10	0.03
2	.906	.890	72.6	83.3	84.8	71.7	69	72	87	70	N.	4 S.E.	17	10	7	0.01
3	.967	.912	71.8	84.6	87.5	71.7	68	67	86	67	N.	5 S.E.	14	10	10	0.01
4	.943	.901	71.7	83.2	84.5	70.8	69	70	89	65	N.	6 S.	6	5	5	
5	.897	.850	69.8	83.5	85.2	67.9	64	69	82	62	N.E.	6 S.E.	8	10	7	
6	.903	.875	73.1	81.1	83.8	72.6	71	72	92	75	N.	4 S.E.	14	10	10	
7	.937	.897	71.1	83.9	84.5	69.1	66	72	86	66	E.	8 S.E.	18	4	2	
8	30.011	.931	71.4	85.4	85.5	68.9	81	58	81	58	N.E.	6 S.E.	10	10	10	
9	29.975	.924	67.0	87.1	88.4	66.1	62	67	84	53	N.E.	5 S.	8	3	5	
10	.968	.911	68.7	85.1	86.8	67.6	65	59	88	59	N.W.	5 S.	6	8	1	
11	.952	.896	69.1	86.9	88.4	67.5	63	69	81	55	N.	8 W.	7	..	..	
12	.960	.905	68.1	82.3	86.6	66.6	62	70	81	67	N.	1 S.E.	24	6	1	
13	.974	.938	74.1	80.9	84.2	69.0	68	67	81	63	N.	9 S.	5	10	8	
14	.993	.968	68.6	82.0	84.3	66.2	59	71	75	68	N.E.	5 S.E.	6	..	10	
15	30.010	.966	70.1	84.1	84.9	69.3	63	61	80	61	N.	8 S.	6	..	1	
16	.018	.990	64.8	82.9	87.6	63.7	60	66	82	56	N.	5 S.	7	..	1	
17	.033	30.000	66.6	81.1	83.2	65.9	61	70	81	70	N.	6 S.E.	12	..	10	
18	.002	29.943	67.7	86.1	86.4	66.8	61	65	79	50	N.	6 S.	8	..	6	
19	.001	.923	68.0	85.6	85.7	66.3	61	67	77	53	N.	8 S.	8	..	..	
20	29.976	.928	66.4	87.4	88.1	65.6	60	66	89	51	N.	6 W.	7	..	1	
21	.974	.921	68.1	85.8	85.9	67.1	63	69	93	56	N.	3 S.E.	18	5	4	
22	.983	.938	75.6	83.8	85.0	68.9	62	68	61	58	N.	4 S.E.	22	6	4	
23	30.014	.926	67.9	83.7	85.2	66.9	60	69	76	61	N.	7 S.E.	23	..	..	
24	.017	.964	70.9	82.2	83.0	68.1	64	67	77	59	N.	7 S.E.	12	9	3	
25	.012	.969	69.7	83.3	86.5	68.1	63	59	77	59	N.	8 S.E.	8	..	10	
26	.047	.987	75.6	83.9	84.2	72.9	66	66	71	56	N.	8 S.	8	10	8	
27	.074	30.048	71.9	84.2	84.2	70.9	65	65	78	53	N.	10 N.W.	16	..	8	
28	.123	.087	69.1	82.8	84.0	68.3	63	64	78	53	N.	3 N.W.	12	..	2	
29	.088	.004	68.1	85.4	87.0	67.3	63	64	86	50	N.	2 S.W.	16	8	8	
30	.038	29.972	69.4	84.0	86.0	69.0	66	70	89	62	N.	2 W.	5	..	9	
31	30.001	29.060	67.6	85.8	85.8	67.1	66	67	92	53	N.	2 S.	6	..	8	
Means	29.990	29.942	69.9	84.0	85.5	68.4	64	67	81	60	N.	5.5 SSE	10.1	4.3	5.4	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.05

NOTE: See page 15 (foot-note) as to elevation of Instruments, etc., for Kingston.

Rainfall 6% of the 60-year Average. Distant rain to Northward 1 day.

STATION—KINGSTON.

FEBRUARY, 1938.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins	
	Ins.	Ins.	°	°	°	°	°	°	%	%						
1	30.016	29.944	70.0	85.1	85.2	68.9	63	69	76	59	N.E.	7	S.	6	..	4
2	29.972	.914	71.1	84.9	86.0	70.1	67	66	87	52	N.	6	S.	8	2	4
3	.978	.914	69.2	85.1	85.8	68.8	64	67	85	55	N.	4	S.	10	..	3
4	.976	.912	69.9	83.8	84.1	69.3	63	68	81	58	N.	5	S.	8	..	..
5	.985	.940	67.1	83.8	86.4	65.7	60	69	79	60	N.	6	S.E.	10	..	10
6	30.007	.938	70.1	86.5	87.0	69.4	65	69	84	56	N.	4	W.	7	8	8
7	29.981	.945	71.1	84.5	87.0	70.6	68	69	90	61	N.	1	S.	10	..	9
8	30.001	.970	69.5	88.1	88.2	69.1	67	66	93	54	N.	1	S.W.	8	..	8
9	.044	.993	68.1	86.8	87.4	67.9	63	65	84	47	N.	3	S.W.	8	..	..
10	.071	30.027	68.6	78.3	80.8	66.9	62	69	77	74	N.	5	N.	8	4	5
11	.050	29.991	64.1	85.6	86.0	63.3	59	65	85	49	N.E.	4	S.	7	..	1
12	.042	30.058	69.1	76.4	77.4	66.0	62	69	77	80	N.	3	N.	10	10	10
13	.069	.016	64.1	83.9	86.5	63.1	61	64	90	64	N.	4	S.	7	..	5
14	.074	.044	65.6	76.9	79.9	64.9	61	65	84	66	N.	4	S.E.	16	..	10
15	.051	29.963	64.1	83.1	84.2	63.4	79	68	80	60	N.	5	S.E.	18	..	9
16	.017	.971	66.3	78.9	83.2	65.2	59	65	78	62	N.	9	S.E.	20	10	10
17	.032	.997	66.6	77.9	81.5	65.5	63	65	86	64	N.	4	S.E.	17	..	10
18	.025	.964	67.9	82.1	82.4	65.6	61	63	80	53	N.	2	S.E.	16	8	8
19	29.977	.947	67.1	78.6	82.7	66.6	61	66	81	68	N.	5	N.	8	4	10
20	.958	.912	67.4	82.8	85.2	66.1	59	69	79	61	N.E.	5	S.E.	17	3	..
21	.985	.924	66.4	84.5	84.8	65.8	61	66	85	56	N.	4	S.E.	8	..	4
22	.995	.938	65.6	87.2	87.7	64.9	59	66	79	50	N.	2	S.	8	..	1
23	30.004	.970	71.3	71.9	79.9	63.6	63	70	77	94	N.	6	E.	4	10	10
24	29.974	.936	70.0	82.6	82.9	69.3	65	69	86	63	N.	3	S.E.	12	..	2
25	.999	.950	67.3	83.3	84.0	66.7	64	68	89	61	N.	5	S.E.	8	..	..
26	30.001	.950	70.6	86.4	87.2	69.1	63	61	76	45	N.	6	N.	5	..	..
27	29.998	.960	69.0	80.7	84.8	68.3	59	63	72	53	N.	12	S.	8	..	10
28	30.003	29.966	67.3	81.7	82.6	66.6	59	65	74	57	N.	8	S.	10	10	..
<b>Means</b>	30.010	29.963	68.0	82.5	84.3	67.0	63	67	82	60	N.	4.7	SSE 10.0	2.5	5.4	
<b>Total</b>	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.20

Rainfall 33½% of the 60-year Average. Distant rain to Northward on 4 days, and to North-eastward, 2 days.

STATION—KINGSTON.

MARCH, 1938.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 a.m.	Ins.	
1	Ins. 30.020	Ins. 29.964	69.1	82.2	86.8	67.6	61	65	75	56	N.	7 S.E.	10	..	..	
2	.021	.963	69.8	84.2	86.0	67.8	63	71	78	64	N.	7 S.E.	12	..	10 0.03	
3	.013	.971	72.6	82.8	85.3	71.8	68	70	82	65	N.	3 S.E.	14	10	10	
4	29.992	.930	69.1	83.1	84.2	68.6	66	71	89	67	N.	2 S.E.	9	..	7	
5	.952	.904	68.4	86.3	86.4	67.6	63	67	86	54	N.	3 S.E.	9	..	..	
6	.974	.943	69.7	80.7	85.5	68.9	63	67	79	64	N.	4 S.E.	8	..	10	
7	30.037	.974	66.9	85.4	85.6	65.2	63	63	87	48	N.	4 S.	9	..	5	
8	.033	.969	68.2	87.6	89.2	67.7	61	62	79	41	N.	4 N.W.	6	6	7	
9	.076	.973	66.6	87.9	88.9	65.6	60	65	80	46	N.E.	3 S.	7	..	..	
10	.006	.934	71.1	80.6	84.6	68.3	62	69	73	66	N.	4 S.E.	21	..	9	
11	29.993	.917	68.9	83.8	84.0	67.7	63	69	83	61	N.	2 S.E.	12	..	2	
12	.989	.951	68.5	82.4	84.5	67.6	63	67	84	62	N.	3 S.E.	13	..	4	
13	30.036	.958	70.1	85.1	85.6	67.9	62	69	75	60	N.	6 S.E.	16	..	1	
14	.052	.952	69.4	83.3	85.0	67.5	63	67	79	60	N.	4 S.E.	34	..	..	
15	.030	.952	70.0	83.0	83.6	68.1	63	67	78	58	N.	2 S.E.	20	..	2	
16	.018	.910	69.3	83.5	84.5	67.0	59	67	70	58	N.	5 S.E.	24	..	6	
17	29.973	.910	69.8	83.3	84.6	67.6	63	67	80	58	N.	2 S.E.	18	..	3	
18	.981	.912	69.3	83.5	85.5	67.7	63	68	83	61	N.	4 S.E.	20	..	2	
19	.995	.949	68.3	78.6	85.5	66.9	61	67	79	65	N.	2 S.E.	26	..	10	
20	.994	.921	72.6	83.9	84.9	70.1	66	66	77	54	N.	4 S.E.	23	7	..	
21	30.002	.912	70.2	83.3	84.8	66.9	66	67	72	58	N.	5 S.E.	24	..	8	
22	29.973	.900	70.8	83.1	86.8	65.8	59	70	65	65	N.	2 S.E.	22	..	6	
23	.967	.936	73.1	80.1	82.2	70.0	64	65	75	60	N.	5 S.E.	16	10	10	
24	.986	.928	69.1	78.9	82.5	65.9	63	68	79	70	N.E.	2 S.E.	9	..	10 0.10	
25	.963	.906	69.4	82.4	82.6	66.9	63	67	83	60	N.	2 S.E.	9	10	10 0.03	
26	.986	.886	68.9	84.6	85.5	67.1	65	69	86	59	N.W.	2 S.E.	10	..	8 0.02	
27	.950	.925	69.5	74.5	84.5	67.8	63	71	83	89	N.	6 S.E.	7	2	10 0.57	
28	.988	.936	70.6	83.2	85.6	65.8	65	70	80	64	N.E.	8 S.E.	18	..	10	
29	30.013	.952	69.9	88.9	89.3	66.8	64	69	83	51	N.W.	4 S.E.	16	..	5	
30	.025	.965	72.1	84.1	85.2	71.1	65	71	78	64	N.	5 S.E.	27	..	10	
31	29.998	29.942	72.0	81.1	84.5	69.3	66	69	84	67	N.	6 S.E.	18	..	10	
Means	30.001	29.937	69.8	83.1	85.3	67.8	63	68	80	60	N.	3.9 S.E.	15.7	1.5	6.0	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.75	

Rainfall 19% below the 60-year Average. Distant rain was observed to northward on 4 days.

STATION—KINGSTON.

APRIL, 1968.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.	
1	Ins. 29.985	Ins. 29.913	70.8	80.9	81.2	67.6	65	68	% 81	% 64	N.E. 3	S.E. 25	10	6		
2	.983	.916	68.3	82.3	82.6	65.6	61	67	80	61	N.E. 5	S.E. 19	1	3		
3	30.014	.960	67.3	83.5	85.0	65.8	61	66	80	57	N.E. 4	S.E. 18	..	3		
4	.007	.035	70.1	82.2	84.1	67.6	64	69	82	67	N. 2	S.E. 10	..	10		
5	29.976	.889	72.1	84.6	87.4	68.9	67	71	85	62	N. 2	S.E. 17	10	7		
6	.984	.921	71.1	79.1	84.1	67.8	67	67	88	66	E. 3	S.E. 25	10	10		
7	.967	.891	77.1	84.1	85.5	70.1	64	68	65	59	S.E. 13	S.E. 26	..	..		
8	.963	.901	78.3	84.3	86.2	73.7	68	72	72	66	S.E. 13	S.E. 22	..	..		
9	.952	.873	77.3	84.1	84.4	70.9	67	68	71	59	S.E. 13	S.E. 21	..	..		
10	.992	.942	70.1	82.1	85.6	69.1	64	69	77	65	N. 3	S.E. 10	..	10		
11	30.018	.977	76.4	84.5	86.1	68.7	67	72	74	66	N. 4	S.E. 14	2	2		
12	.016	.960	73.1	82.1	87.5	70.1	65	70	77	67	N. 4	S.E. 20	..	10	0.04	
13	29.979	.882	73.2	83.7	86.4	70.1	68	70	84	73	N.E. 2	S.W. 14	..	10		
14	.943	.895	72.1	83.3	87.0	70.5	66	71	83	67	N. 2	W. 7	5	10		
15	.923	.887	73.8	82.5	85.0	71.1	67	67	78	59	N. 5	S.E. 10	10	10		
16	.940	.908	72.7	83.3	86.5	68.3	65	68	76	61	N. 4	S.E. 12	..	8		
17	.976	.919	70.1	85.2	87.1	67.3	63	69	78	60	N. 3	N. 14	..	2		
18	.993	.950	71.6	82.7	84.2	67.4	63	70	74	64	N. 5	S.E. 14	..	5		
19	.988	.920	71.3	81.3	83.3	68.6	67	70	88	70	N. 1	S.E. 16	10	10		
20	.960	.900	73.5	82.7	83.5	69.3	64	68	74	60	N.E. 2	S.E. 15	10	10		
21	.957	.915	72.1	82.3	83.2	67.6	64	64	75	55	N.E. 4	S.E. 10	..	10		
22	.980	.876	72.2	84.2	85.8	66.8	62	67	71	58	N. 8	S.E. 14	..	..		
23	.928	.876	74.2	84.5	85.5	70.1	65	70	74	63	N. 4	S.E. 10	..	10		
24	.919	.900	73.2	80.2	85.9	71.1	66	70	79	73	N. 4	S.E. 11	..	10		
25	.942	.910	75.1	81.3	86.2	70.6	66	71	75	70	N. 4	S.E. 11	..	10	0.13	
26	.959	.916	72.1	83.9	86.7	67.7	64	72	76	66	N. 4	S.E. 14	..	4	0.16	
27	.962	.941	72.2	81.5	83.2	69.6	69	69	89	68	N. 2	S.E. 21	..	10	0.04	
28	.973	.925	72.3	87.4	87.5	67.9	68	67	88	53	N. 3	S.E. 10	..	3		
29	.975	.916	71.6	85.5	87.6	67.4	68	67	87	55	N.W. 1	S. 10	6	10		
30	29.991	29.941	71.4	85.6	88.2	66.4	60	69	69	56	N. 3	S.E. 12	6	9		
Means	29.971	29.916	72.6	83.2	85.4	68.8	65	69	78	63	N.E. 4.3	S.E. 15.1	2.7	6.6		
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.37	

Rain 32% of the 60-year average. Distant Rain to N. 7 days, N.E. 7, E. 1, W. 2.

STATION—KINGSTON.

MAY, 1933.

Day	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)		Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.
1	Inn. 29.994	Inn. 29.945	72.3	88.1	89.0	69.1	61	69	% 67	% 53	N.E. 7	S.E. 15	8	10	
2	.987	.938	76.7	87.1	90.2	74.4	67	72	71	63	N. 5	S.E. 20	10	10	0.18
3	.951	.934	78.1	79.1	88.1	73.7	71	75	78	87	N. 5	S.W. 8	..	10	0.06
4	.924	.856	76.3	84.7	88.6	70.7	70	73	83	66	N. 2	S.E. 12	10	7	
5	.891	.814	75.1	84.3	85.2	70.9	68	72	79	66	N. 3	S.E. 17	..	..	
6	.864	.823	76.4	83.0	86.5	70.6	67	72	72	70	N.E. 3	S.E. 17	..	8	
7	.914	.893	77.6	85.0	86.0	71.2	70	73	75	68	S.E. 4	S.E. 18	..	4	
8	.950	.897	78.6	85.3	88.8	72.1	69	72	72	65	N. 4	S.E. 19	..	..	
9	.936	.879	77.6	85.2	86.6	71.6	65	69	64	60	N. 5	S.E. 22	..	1	
10	.941	.868	77.0	85.9	86.2	72.0	68	72	75	64	N. 3	S.E. 17	..	9	
11	.949	.869	77.9	85.9	87.1	71.7	68	74	72	67	N.E. 3	S.E. 21	..	..	
12	.975	.904	78.5	86.6	87.7	71.8	67	74	70	66	N.E. 7	S.E. 22	..	..	
13	.970	.889	79.2	86.3	88.3	73.3	68	71	70	62	N. 4	S.E. 26	..	3	
14	.984	.938	77.6	83.2	87.5	71.8	68	74	71	73	N. 2	S.E. 22	..	10	
15	.960	.935	73.9	84.1	86.0	72.4	69	72	82	67	N. 3	S.E. 12	4	10	
16	.978	.961	77.4	83.2	85.4	71.2	68	70	73	66	N. 6	S.E. 4	..	10	
17	.993	.926	75.7	87.3	89.3	71.4	67	72	73	63	N. 5	S.E. 15	6	1	
18	.987	.960	78.5	85.3	89.7	72.7	68	73	72	67	N. 6	S.E. 16	..	2	
19	.971	.933	79.4	84.1	88.3	73.1	67	72	66	67	N. 3	S.E. 6	..	10	
20	.967	.918	77.2	85.0	87.4	70.8	67	72	71	65	N.E. 5	S.E. 16	1	10	
21	.940	.907	77.9	84.2	88.3	72.9	67	69	70	62	E. 4	S.E. 18	10	10	
22	.926	.896	77.9	84.2	86.7	76.1	71	74	78	72	N. 5	S.E. 14	10	10	0.05
23	.962	.938	78.5	85.8	85.8	74.3	69	69	74	56	N. 7	S.E. 14	10	10	0.01
24	.964	.948	77.4	83.0	86.7	73.1	68	73	73	72	N. 3	S.E. 8	7	9	
25	.953	.923	75.6	85.1	86.1	69.8	65	70	70	62	N. 3	S.E. 2	..	10	0.30
26	.941	.917	77.7	82.1	86.3	70.1	68	72	72	71	N. 4	S.E. 16	..	10	
27	.977	.898	77.1	84.2	87.5	71.1	68	70	76	63	N. 4	S.E. 21	..	10	
28	.930	.867	77.7	87.7	88.8	71.6	68	73	71	61	N. 3	S.E. 24	1	8	
29	.890	.848	79.1	84.1	87.3	74.9	72	74	80	72	N. 3	S.E. 19	8	10	
30	.896	.849	82.3	87.2	88.2	76.3	68	73	63	65	S.E. 12	S.E. 20	..	..	
31	29.954	29.877	80.3	87.8	88.5	74.7	70	74	72	63	N.E. 4	S.E. 20	7	1	
Means	29.950	29.901	77.5	85.0	87.4	72.3	68	72	73	66	NNE.4.4	S.E. 16.2	3.0	6.5	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.60

Rainfall 15% of 60-year Average. Distant rain to N. 13 days, N.E. 7 days, E. and S. 1, S.E. 2, S.W. 1, N.W. 3.

STATION—KINGSTON.

JUNE, 1938.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.		
1	Ins. 29.958	Ins. 29.912	80.1	85.0	89.1	73.7	69	74	71	71	N.	2	S.E.	13	..	8	
2	.917	.858	78.7	85.7	89.0	73.6	69	74	72	67	N.	4	S.E.	24	..	8	
3	.932	.909	80.7	87.8	88.7	75.3	70	73	68	60	S.E.	12	S.E.	19	..	..	
4	.981	.941	78.6	85.4	90.7	72.6	68	71	70	62	N.E.	4	S.E.	24	..	5	
5	.992	.923	76.3	89.5	92.6	72.7	67	62	75	62	N.	5	S.E.	23	10	..	
6	.982	.933	78.0	87.1	89.4	74.1	69	73	73	64	N.	4	S.E.	21	7	10	
7	.958	.920	79.5	86.1	88.0	74.3	69	73	72	66	N.	2	S.E.	20	..	10	
8	.964	.935	78.3	81.1	90.2	73.8	70	72	77	74	N.	3	E.	8	10	10	0.09
9	.973	.936	76.7	86.2	88.7	73.5	69	75	78	68	N.	2	S.E.	22	6	10	0.02
10	.980	.913	75.1	89.4	91.0	73.6	70	69	84	52	N.	4	S.E.	25	10	2	..
11	.963	.938	78.2	84.2	87.6	74.1	69	71	74	65	N.	3	S.E.	22	10	10	..
12	.956	.909	78.9	87.7	88.7	73.1	75	73	87	61	N.W.	4	S.E.	23	2	4	..
13	.942	.902	79.4	85.9	88.9	74.6	69	74	72	67	N.	3	S.E.	24	..	7	..
14	.909	.876	78.1	86.2	87.8	73.1	67	71	70	63	N.	5	S.E.	16	..	10	2.16
15	.903	.882	75.1	85.5	86.9	71.9	74	73	96	69	S.E.	9	S.E.	22	10	10	0.02
16	.949	.929	78.0	84.6	86.5	74.2	71	74	80	71	S.E.	12	S.E.	20	10	10	..
17	.997	.962	74.3	86.3	87.4	73.1	68	72	82	63	N.	5	S.E.	20	5	6	..
18	.981	.963	78.6	87.0	87.6	73.3	71	73	76	63	N.	2	S.E.	27	..	10	..
19	30.011	.986	78.2	84.1	90.0	75.1	71	73	81	70	S.E.	2	S.E.	23	7	10	..
20	.028	.964	79.9	89.1	90.2	74.4	71	71	75	58	N.	5	S.E.	26	..	2	..
21	.024	.960	77.6	88.0	89.2	73.5	70	73	75	62	S.E.	6	S.E.	24	..	..	..
22	.005	.964	76.9	84.1	88.4	72.8	65	74	67	71	N.	3	S.E.	25	3	10	..
23	.006	.958	77.9	83.6	87.7	73.8	70	72	76	67	N.	4	S.E.	25	7	8	..
24	29.987	.932	76.4	84.7	88.0	72.1	68	70	77	60	N.W.	2	S.E.	23	..	10	..
25	.987	.942	75.8	83.2	87.3	73.3	67	71	76	67	N.	2	S.E.	15	10	10	..
26	.986	.956	77.4	88.5	89.8	73.8	67	73	72	61	N.W.	3	S.E.	19	6	10	..
27	30.025	.951	77.2	87.4	88.5	72.6	63	72	62	63	N.E.	5	S.E.	23	..	..	..
28	.016	.975	78.2	85.3	88.7	74.7	67	73	70	69	N.	4	S.E.	18	..	10	..
29	.011	.945	77.4	87.9	89.2	72.3	68	74	73	61	N.	3	S.E.	10	3	3	..
30	29.982	29.925	80.7	87.3	88.2	75.5	71	74	71	66	N.	3	S.E.	21	..	10	..
Means	29.977	29.933	77.9	86.1	88.8	73.6	69	72	75	65	N.N.E. 4.2	S.E. 20.6	3.9	7.0	..	..	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.29

Rainfall below the 60-year Average. Distant rain to N. 5 days, N.E. 1, S. 1, N.W. 1.

STATION—KINGSTON.

JULY, 1988.

Day.	Barometer. 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity. (m.p.h.)			Amount of Cloud.		Rain- fall.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.		
1	29.958	29.914	79.1	85.0	90.0	75.9	70	70	74	61	N.	4	S.E.	25	10	10	
2	.972	.958	80.2	83.2	88.6	74.3	73	74	75	73	N.	2	S.E.	14	..	10	
3	.985	.952	74.4	86.5	88.5	71.1	64	69	71	54	N.	7	S.E.	24	..	..	
4	.982	.950	76.9	83.2	87.0	71.6	66	74	69	74	N.	3	S.E.	16	..	10	
5	.961	.903	76.4	86.2	86.3	71.8	68	62	77	63	N.	2	S.E.	18	..	3	
6	.936	.912	76.3	87.6	88.0	70.8	67	63	72	61	N.	5	S.E.	23	..	..	
7	.964	.963	79.7	86.5	87.8	74.7	69	74	71	67	N.E.	6	S.E.	20	2	1	
8	.986	.946	76.9	89.5	90.1	72.6	66	73	70	61	N.W.	4	S.E.	24	..	1	
9	30.016	.994	77.6	86.4	87.3	73.5	70	73	76	66	N.	1	S.E.	19	..	5	
10	.017	.982	77.4	84.7	88.5	72.7	68	73	76	66	N.	2	S.E.	21	..	10	
11	29.986	.930	78.1	90.7	91.3	73.7	69	71	74	51	N.	4	S.E.	19	..	..	
12	.971	.921	83.4	90.7	92.3	75.8	69	67	63	46	S.E.	17	S.E.	23	8	10	
13	.982	.942	79.1	84.7	89.0	74.3	68	76	70	74	N.W.	3	N.E.	9	..	10	
14	.985	.931	77.6	86.9	88.4	72.9	66	73	67	64	N.	5	S.E.	32	..	3	
15	.994	.942	79.3	89.6	90.8	74.4	68	71	70	54	N.	4	S.E.	22	..	..	
16	.982	.919	78.7	89.1	91.2	73.4	72	76	80	66	N.W.	2	S.	8	..	8	
17	.943	.927	78.4	83.1	83.4	77.1	72	74	83	76	S.E.	11	S.E.	14	10	10	
18	.970	.954	73.9	83.3	88.0	72.7	69	73	85	71	N.	5	S.W.	6	9	10	
19	.958	.920	76.2	83.1	88.1	72.8	68	74	77	73	N.	6	S.E.	18	10	10	
20	.945	.902	76.6	82.1	88.8	72.7	68	74	76	77	N.	4	E.	6	..	10	
21	.952	.904	76.1	85.1	85.5	71.9	68	71	78	63	N.	5	S.E.	18	5	10	
22	.978	.917	76.6	88.1	90.0	73.3	67	74	71	65	N.	7	S.E.	20	10	5	
23	.952	.916	79.4	88.0	88.2	74.2	70	74	74	63	N.	4	N.	10	4	2	
24	.940	.866	77.1	90.3	91.6	73.3	68	74	74	59	N.	4	S.E.	11	..	8	
25	.898	.880	75.5	83.3	84.9	75.1	70	72	84	70	N.E.	4	N.	6	10	10	
26	.962	.941	75.9	85.5	89.9	71.4	68	74	78	63	N.	4	S.E.	22	10	..	
27	30.004	.949	75.1	89.6	90.2	73.2	64	73	70	58	N.W.	5	S.E.	22	10	10	
28	.000	.953	78.3	89.1	89.1	75.6	68	76	73	64	N.	5	S.E.	11	..	4	
29	29.964	.921	78.7	84.3	90.6	74.1	69	73	71	70	N.E.	5	S.E.	20	..	10	
30	.927	.913	78.2	85.6	87.3	74.1	70	75	76	71	S.E.	14	S.E.	17	10	10	
31	29.938	29.931	75.6	87.7	88.6	73.8	72	72	85	59	N.	5	S.E.	14	10	..	
Means	29.965	29.931	77.5	86.6	88.8	73.5	69	72	75	65	NNE 5.1	S.E. 17.2	3.8	6.2	..	..	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.62

Rainfall below the 60-year Average. Distant rain to N. 11 days, N.E. 6, E. 3, S.E. 1, S. 2, N.W. 7.

STATION—KINGSTON.

AUGUST, 1938.

Day.	Barometer 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity (m.p.h.)			Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.	
	Ins.	Ins.	°	°	°	°	°	°	%	%						
1	29.934	29.918	76.3	83.6	88.7	71.7	70	76	81	78	NW 2	SE 14	..	10		
2	.943	.911	78.3	89.1	91.1	73.8	66	71	69	57	N 7	SE 23	7	9		
3	.967	.942	78.7	86.9	89.1	74.9	71	72	76	60	N 5	SE 22	..	6		
4	.976	.927	77.6	88.6	90.5	74.9	68	71	70	60	N 4	S 7	10	7		
5	.943	.935	77.9	87.9	88.6	74.3	74	74	80	63	NE 2	SE 16	..	5		
6	.944	.906	78.5	87.1	91.6	75.2	68	76	72	69	N 5	SE 11	..	10	0.15	
7	.920	.889	73.6	87.1	89.8	72.5	72	74	94	66	N 7	SE 6	10	10		
8	.907	.863	76.1	86.1	90.8	74.9	70	68	82	73	N 6	SW 4	6	2		
9	.866	.852	76.9	83.0	84.4	76.0	72	74	85	73	N 4	SE 4	10	10	0.08	
10	.803	.863	76.2	89.1	89.2	74.6	71	73	85	60	N 4	SE 11	8	10		
11	.904	.839	77.0	78.8	87.5	75.1	72	75	83	86	NW 5	NW 4	9	10	2.74	
12	.946	.978	77.2	86.9	87.2	74.6	76	76	98	72	SE 19	SE 16	10	10		
13	30.010	.981	77.9	86.6	88.0	74.7	71	77	80	73	N 6	SE 20	..	8		
14	29.967	.913	77.1	92.3	93.1	73.3	70	73	80	55	N 4	NW 7	..	8		
15	.902	.894	77.7	81.2	89.0	75.7	71	72	81	75	N 2	E 12	4	10		
16	.912	.913	76.0	87.4	88.5	72.6	70	74	83	65	N 5	SE 10	..	8	0.05	
17	.927	.919	77.1	86.5	89.3	73.3	70	74	80	67	N 3	SE 20	..	10		
18	.954	.884	75.5	91.0	91.2	72.1	67	73	78	54	N 3	S 7	..	..		
19	.889	.843	76.8	92.5	92.7	74.1	72	72	84	52	NW 1	SE 6	..	..		
20	.912	.889	80.2	85.3	89.3	76.3	77	75	77	72	N 9	SE 15	10	10	0.37	
21	.929	.888	76.1	88.6	90.0	71.7	68	72	78	63	N 6	SE 18	..	3	0.10	
22	.906	.837	77.6	92.1	93.0	73.7	72	73	82	56	NW 6	S 10	..	4		
23	.846	.832	77.5	74.3	83.0	75.6	72	72	84	92	E 7	SE 23	10	10	0.53	
24	.807	.826	80.0	84.6	87.5	73.8	74	76	83	73	SE 18	SE 13	10	10	0.32	
25	.839	.841	80.0	81.3	83.6	75.4	72	75	76	82	SE 14	SE 16	10	10	0.39	
26	.897	.866	76.0	87.3	88.5	74.1	68	72	78	61	N 5	SE 19	..	10		
27	.914	.864	75.9	89.6	90.7	73.1	68	75	78	62	N 6	SE 17	..	..		
28	.906	.865	77.5	86.7	88.2	74.6	70	76	80	70	N 5	SE 23	..	10		
29	.869	.836	75.6	86.5	88.0	72.7	71	74	84	67	NW 3	SE 11	2	10		
30	.875	.845	75.6	87.2	88.7	74.1	71	75	83	68	N 4	SE 15	1	8		
31	29.882	29.883	76.7	83.1	88.3	73.3	70	73	80	73	NE 4	N 12	..	10	1.50	
Means	29.912	29.885	77.1	86.4	89.0	74.1	71	74	81	68	NE 5.9	SE 13.5	3.8	7.8		
Total															6.23	

Rainfall 75% above the 60-year average. Distant rain to N. 13 days, NE 7, SE 2, S 6, SW 2, NW 5.

STATION—KINGSTON.

SEPTEMBER, 1928.

Day.	Barometer 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity (m.p.h.)		Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.
	Ins.	Ins.	°	°	°	°	°	°	%	%					
1	29.880	29.828	75.7	86.5	88.1	70.7	69	75	80	69	N 2	SE 20	7	9	
2	.867	.828	75.4	85.7	88.7	73.1	70	75	83	70	NE 3	SE 14	..	9	
3	.879	.844	78.4	85.6	88.4	74.3	74	72	86	64	NW 2	SE 25	10	10	
4	.903	.871	78.1	74.7	87.3	75.1	71	74	79	99	N 3	SE 12	..	10	2.24
5	.919	.874	73.0	82.5	82.4	72.1	73	77	99	86	N 6	NW 6	10	10	1.22
6	.878	.867	75.5	81.2	86.0	71.4	71	76	85	86	N 3	SE 14	10	10	1.40
7	.874	.864	73.4	83.4	84.1	70.3	71	76	94	79	NE 5	SE 14	10	10	
8	.908	.862	75.6	86.9	87.7	72.1	71	75	83	63	N 3	SE 10	..	2	
9	.895	.828	73.9	87.7	88.3	73.2	71	75	90	65	N 3	SE 8	4	10	0.18
10	.870	.838	74.6	87.6	87.6	73.1	71	77	89	71	N 2	S 5	8	..	..
11	.896	.873	73.9	87.0	88.0	73.3	72	76	91	69	N 4	SE 9	..	10	0.12
12	.902	.878	74.8	82.5	89.9	72.8	73	76	92	83	N 4	NW 6	10	10	
13	.846	.794	74.9	84.4	89.5	72.6	71	74	89	71	N 3	SE 5	..	10	..
14	.824	.815	74.8	87.8	87.8	72.4	71	77	87	69	N 1	SE 8	..	..	..
15	.899	.887	75.4	88.0	88.2	73.8	71	76	89	68	N 2	SE 14	..	..	..
16	.927	.907	77.1	86.5	89.3	74.1	71	75	81	71	NE 4	SE 19	..	10	
17	.959	.886	74.8	89.9	90.8	73.5	70	74	84	61	N 5	SE 11	4	3	
18	.934	.876	75.5	85.4	89.0	74.1	70	75	84	72	N 6	SE 6	10	10	..
19	.869	.820	76.3	87.6	89.2	74.3	72	76	87	67	SE 4	S 7	..	10	..
20	.886	.857	76.9	88.5	88.6	75.4	73	75	89	65	N 2	SE 10	..	2	..
21	.914	.859	75.2	89.4	89.4	72.8	68	69	80	51	N 5	SE 16	10	9	
22	.898	.869	76.3	80.5	89.7	74.7	70	69	81	68	S 3	SE 8	..	10	
23	.922	.917	74.6	81.0	88.9	74.3	70	77	83	88	N 6	NW 2	..	10	0.11
24	.965	.904	76.4	87.2	90.6	73.1	70	76	81	70	N 2	SE 20	..	1	..
25	.944	.886	76.8	88.6	91.2	75.1	70	77	80	69	N 7	SE 15	..	..	..
26	.910	.843	76.1	87.3	88.9	74.3	72	73	86	64	Calm	SE 24	2	7	
27	.882	.814	75.3	88.3	89.1	73.2	69	72	81	60	N 3	SE 14	..	10	0.02
28	.896	.859	75.6	87.4	89.0	74.8	74	75	92	68	N 5	SE 14	10	10	
29	.918	.864	77.3	85.5	87.9	74.8	72	75	83	72	N 3	SE 15	10	10	
30	29.910	29.871	74.4	78.0	88.0	73.3	71	77	89	98	NW 2	N 4	..	10	0.66
Means	29.891	29.859	75.5	85.4	88.4	73.4	71	75	86	72	N 3.4	SE 11.8	3.8	7.4	
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.95

Rainfall 52% above the 60-year average. Distant rain to N 11 days NE 5, E 5, SE 3, S 3, SW 3, W 2, N 6 days.

STATION—KINGSTON.

OCTOBER, 1938.

Day.	Barometer 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity (m.p.h.)			Amount of Cloud.		Rain- fall.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.		
	Ins.	In	°	°	°	°	°	°	%	%							
1	29.887	29.838	71.4	84.1	87.2	69.9	68	75	91	74	N	5	E	5	8	10	
2	.865	.827	77.1	86.9	87.6	73.4	71	75	81	67	N	5	SE	8	10	10	
3	.868	.820	75.5	85.1	87.2	72.8	70	73	84	67	N	4	SE	12	..	10	
4	.878	.846	75.0	84.3	88.8	72.9	71	74	88	71	N	3	SE	10	..	10	
5	.906	.847	75.0	88.1	89.2	73.8	69	76	82	68	N	5	SE	16	..	4	
6	.897	.839	76.3	87.8	90.1	74.0	70	77	81	69	N	4	SE	18	10	4	
7	.877	.858	75.8	87.4	88.3	73.9	69	72	79	61	N	5	SW	3	10	10	
8	.905	.855	76.8	91.3	92.9	73.8	69	73	78	56	N	8	SE	16	..	10	
9	.932	.845	76.6	89.1	90.4	74.3	69	76	77	67	N	5	SE	16	..	7	
10	.915	.860	75.6	85.3	89.0	74.1	72	73	88	69	N	3	SE	19	..	9	
11	.927	.868	75.9	87.3	89.7	74.1	70	73	83	65	N	5	SE	12	..	10	
12	.887	.811	75.4	89.8	90.2	73.6	71	73	88	59	N	4	S	6	..	..	
13	.806	.761	77.1	88.8	89.3	76.1	73	76	86	65	N	4	SE	12	10	9	
14	.810	.778	79.1	85.1	88.3	75.6	74	74	84	70	SE	9	S	4	10	10	
15	.838	.811	76.6	84.1	88.8	74.3	73	75	86	76	N	3	SE	8	..	10	
16	.864	.836	75.6	78.8	88.7	74.3	72	78	88	95	N	4	E	4	7	10	
17	.850	.822	74.3	81.7	85.1	72.3	72	74	94	77	N	1	SE	3	..	10	
18	.836	.785	73.5	81.7	87.0	72.1	69	75	88	78	N	4	SE	4	..	10	
19	.826	.782	73.4	87.2	87.2	71.5	70	72	91	63	NE	1	SE	9	..	..	
20	.861	.818	75.5	81.1	84.0	74.1	74	77	94	86	NW	4	SE	8	10	10	
21	.883	.843	72.5	86.7	87.5	71.2	72	75	99	67	NW	3	SE	6	10	..	
22	.934	.861	76.0	85.8	87.7	74.3	73	76	91	72	NW	4	SE	12	10	9	
23	.951	.882	75.1	89.9	91.1	73.1	71	73	85	58	N	8	SE	22	..	..	
24	.939	.859	74.9	88.1	88.4	74.1	71	77	85	69	N	3	SE	18	..	2	
25	.909	.834	75.0	89.1	89.1	73.5	72	75	87	63	N	3	S	5	..	1	
26	.873	.812	75.6	88.1	88.3	73.3	72	74	86	63	N	4	SE	6	4	..	
27	.830	.756	74.9	88.0	88.7	73.3	71	72	86	60	N	7	S	7	..	..	
28	.776	.724	74.1	85.4	88.2	71.9	70	73	89	65	N	3	S	5	..	10	
29	.805	.781	73.4	87.2	87.6	72.3	66	73	79	63	N	7	SE	8	..	10	
30	.864	.825	74.1	85.2	87.6	73.2	69	73	83	68	N	9	SE	8	..	10	
31	.907	29.839	76.9	86.3	88.8	74.6	72	75	84	70	SE	7	SE	12	10	9	
Means	29.873	29.823	75.3	86.3	88.5	73.4	71	74	86	68	N.	4.6	SE	9.7	3.9	6.9	
Total ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.26

Rainfall below the 60-year average. Distant rain to N 14 days, NE 8, E1, SE 2, vW 1, W 1.

STATION—KINGSTON.

NOVEMBER, 1938.

Day.	Barometer 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity (m.p.h.)			Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.	
	In.	Ins.	°	°	°	°	°	°	%	%						
1	29.890	29.823	76.2	88.5	89.4	74.6	70	74	81	64	N 6	SE 14	7	3		
2	.885	.792	75.6	90.2	91.2	74.1	71	72	83	55	N 9	SE 9	10	8		
3	.847	.757	73.8	88.8	90.2	72.1	69	75	83	63	N 4	SE 10	7	6		
4	.810	.742	74.1	87.5	89.1	72.8	69	72	86	61	N 4	SE 10	10	4		
5	.790	.755	75.3	87.1	89.6	74.3	68	74	79	66	NE 9	S 8	9	10	0.35	
6	.783	.707	72.1	86.5	87.2	70.1	70	73	92	65	N 4	SE 7	..	..		
7	.723	.676	74.6	87.1	87.4	73.7	72	72	91	63	N 2	S 6	8	3	0.11	
8	.735	.710	75.4	85.3	87.2	74.4	74	73	96	69	SE 4	SE 6	10	..	0.03	
9	.772	.763	74.1	83.3	85.0	72.8	71	73	89	72	SE 4	SE 10	10	10		
10	.834	.802	73.7	83.4	87.5	73.1	70	74	88	75	N 4	SE 20	1	10		
11	.878	.836	73.5	81.1	82.7	72.7	69	75	88	82	NW 5	SE 7	10	10		
12	.873	.815	73.1	85.6	88.0	71.7	70	74	90	67	N 4	SE 4	10	10		
13	.841	.802	72.7	90.6	90.5	72.1	71	65	93	44	N 2	S 6	10	6		
14	.885	.870	73.3	92.0	92.0	71.6	64	69	75	47	N 8	S 5	10	9		
15	.948	.862	72.3	89.8	92.9	71.3	68	69	88	51	N 4	S 6	..	9		
16	.930	.868	75.1	86.1	89.2	72.3	69	71	82	62	N 5	SE 18	..	7		
17	.914	.847	73.3	88.6	89.8	70.4	65	71	76	55	N 7	SE 16	..	..		
18	.903	.831	71.4	88.9	90.3	69.7	66	75	84	62	N 5	SE 7	..	1		
19	.878	.798	74.6	87.6	88.5	72.1	70	75	83	65	N 9	SE 9	..	7		
20	.859	.811	72.9	89.1	89.3	71.6	68	73	85	59	N 5	S 6	..	..		
21	.886	.875	73.3	84.4	89.1	72.3	68	72	85	67	N 5	S 8	..	10		
22	.913	.851	73.1	88.3	89.3	70.9	68	74	87	63	N 4	SE 8	5	9	0.03	
23	.916	.847	75.1	86.1	88.5	73.4	72	71	90	62	W 2	SE 16	..	8		
24	.899	.855	73.2	87.5	88.2	70.6	69	70	80	58	N 5	SE 7	10	..		
25	.915	.870	71.4	86.2	88.4	70.9	65	71	83	62	NE 6	SE 8	..	10		
26	.939	.893	73.0	85.6	88.0	71.2	67	72	80	63	N 6	S 6	..	10		
27	.949	.894	71.4	86.4	88.3	69.5	62	70	71	58	N 6	S 8	..	..		
28	.964	.886	72.6	88.7	89.0	69.1	68	69	86	52	N 4	SW 8	10	7		
29	.965	.895	72.1	86.9	87.8	70.5	67	70	84	57	N 4	S 10	..	..		
30	29.926	29.880	71.1	85.5	88.0	69.1	63	69	75	57	N 6	SE 6	..	10		
Means	29.875	29.820	73.4	87.1	88.7	71.8	68	72	84	62	N 5.1	SE 9.0	4.6	5.9		
Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.52	

Rain 16% of the 60-year Average. Distant rain to N. 5 days, NE 4, E 1, W 1.

STATION—KINGSTON.

DECEMBER, 1938.

Day.	Barometer 29 or 30 ins.		Air Temperature. (Fah.)				Dew Point.		Relative Humidity.		Wind Direction and Velocity (m.p.h.)				Amount of Cloud.		Rain- fall.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Ins.		
		Ins.	°	°	°	°	°	°	%	%							
1	9.937	29.891	71.8	83.1	86.2	71.1	65	70	78	65	N	5	NW	3	10		
2	.944	.885	71.1	85.7	87.6	70.3	66	71	86	61	N	5	SW	4	10		
3	.928	.870	72.6	87.7	87.7	71.3	69	73	88	61	N	5	SW	6	3	0.01	
4	.930	.954	73.4	85.1	88.7	73.3	71	70	94	62	N	4	SE	7	10	10	
5	.927	.897	73.4	81.8	87.5	72.8	68	71	84	68	N	5	NE	8	10		
6	.957	.885	73.7	87.2	87.8	71.5	67	72	79	61	N	8	S	8	8		
7	.920	.847	70.3	86.3	86.9	68.3	66	70	87	58	N	4	SE	16	6		
8	.883	.867	73.6	76.5	80.4	71.3	69	72	83	85	NW	5	NW	6	10	10	0.07
9	.932	.886	72.1	80.4	87.5	69.0	66	72	81	77	N	9	N	6	10		
10	.927	.882	74.7	85.8	86.3	72.1	68	71	78	62	NE	6	S	8	10	8	0.02
11	.893	.842	71.9	88.2	88.3	71.6	69	67	89	53	NE	2	W	7	2		
12	.866	.808	71.2	87.6	87.9	70.3	69	69	91	52	NE	3	S	8	7		
13	.872	.810	69.3	86.3	86.8	68.2	63	69	80	58	N	4	SE	7	2		
14	.859	.824	70.6	84.3	85.5	69.5	62	72	72	67	N	7	S	7	4		
15	.835	.788	69.0	81.9	84.7	68.2	64	68	84	64	N	3	S	8	10		
16	.822	.770	72.3	85.6	85.9	71.6	61	63	67	47	NW	9	N	14			
17	.861	.830	71.1	87.1	87.8	67.6	63	61	76	42	NW	12	NW	17			
18	.916	.911	68.0	84.5	85.5	65.7	59	63	72	50	N	5	S	7	7	9	
19	.976	.926	68.6	85.3	86.2	66.1	58	65	69	61	NE	8	S	6			
20	.979	.901	67.2	85.8	86.3	66.3	63	68	85	56	N	2	S	10			
21	.953	.871	67.7	87.3	87.8	66.1	61	68	80	53	N	6	S	10	6		
22	.943	.886	73.3	88.5	89.7	69.3	66	69	78	54	N	7	SW	8	10		
23	.945	.895	72.5	88.8	89.7	70.7	67	69	85	51	NE	3	W	11	2	7	
24	.931	.884	69.1	85.8	86.2	68.3	62	71	78	59	N	6	SE	20	10		
25	.944	.850	70.2	89.4	90.1	68.5	61	65	74	46	N	4	SE	10			
26	.935	.890	70.8	86.6	90.2	70.1	65	65	80	46	N	6	SE	22	8	2	
27	30.010	.948	74.5	83.8	89.5	73.5	67	69	79	61	N	6	SE	13	10	9	
28	.012	.918	70.0	87.6	89.8	68.3	64	66	83	48	N	5	SE	5			
29	.010	.939	68.7	84.3	86.1	68.1	62	70	78	62	N	4	SE	21			
30	.030	.967	69.0	83.9	86.5	68.8	61	68	75	59	N	5	SE	18	10		
31	30.034	29.961	71.0	90.9	90.9	66.4	61	67	71	44	NE	7	W	6			
Means	29.933	29.877	71.1	85.6	87.4	69.5	65	69	80	58	N	5.5	SSE	9.9	2.3	5.0	
Total																0.01	

Rainfall below 60-year average. Distant rain to N on 6 days, NE 7, E 1, NW 1.



NEGRIL POINT LIGHT HOUSE, JAMAICA.—Mean Meteorological Results for the year 1938. Latitude 18° 15' North. Longitude 78° 23' West.

Month	Mean Pressure.			Air Temperatures. (Fah.)						Dew Point.			Relative Humidity.			Amount of Cloud.			Rainfall, Inches.			Weather. No of days of.				Wind No. of observations.										
	7 a.m.	3 p.m.	Mean	Means of		Absolute Max. and Min.		7 a.m.	3 p.m.	Mean	7 a.m. p.m.	3 p.m.	Mean	7 a.m. p.m.	3 p.m.	Mean	Total	Max.	Date.	Thunderstorm.	Rain.	Clear Sky.	Overcast.	Gales.	B. N.E.	E. S.E.	S. W.	W. N.W.	Calm							
	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%	inches	inches																			
Jan.	30.000	71.3	82.1	82.1	70.0	84.3	68.3	87.6	13	54.0	12	64	67	65	79	62	78	5.3	6.2	5.7	0.82	0.38	1	6	3	5	19	26	5	3	5	1	1	2		
Feb.	29.017	70.9	81.3	84.4	75.5	84.4	67.4	89.4	8	62.1	5	64	66	65	77	59	72	3.4	6.4	4.9	0.42	0.14	24	5	4	2	16	22	3	3	6	1	2	1		
Mar.	29.987	70.5	82.0	84.7	75.6	84.7	67.4	87.5	9	63.1	21	65	67	66	82	63	75	2.4	6.6	4.5	2.40	0.70	21	3	13	6	1	5	24	6	2	7	5	2	9	2
April	966	72.7	81.3	84.8	76.3	84.8	68.3	88.8	28	64.7	29	68	70	69	83	70	81	6.3	8.5	7.4	1.11	0.38	21	3	6	1	11	3	17	10	13	6	2	6	3	
May	948	76.9	82.9	86.6	79.0	86.6	71.5	90.4	2	69.0	21	72	74	73	84	74	83	4.9	8.9	6.9	6.57	1.61	24	6	18	5	5	6	13	8	17	5	2	1	4	6
June	979	79.1	84.2	87.5	80.4	87.5	73.0	91.0	28	70.8	21	71	74	73	77	72	78	7.5	8.9	8.2	2.36	0.89	10	6	14	1	10	3	13	16	6	7	3	2	3	7
July	982	76.5	83.7	87.8	80.0	87.8	72.0	91.6	16	68.7	4	71	75	73	79	73	80	6.5	9.4	8.0	4.01	1.12	18	12	14	9	9	12	17	9	11	5	2	2	1	3
Aug.	920	77.2	84.3	88.6	80.3	88.6	73.3	92.2	6	71.1	14	72	74	73	84	73	82	6.4	8.1	7.2	8.85	3.61	11	6	18	1	1	9	29	5	11	1	3	2	2	
Sept.	902	77.0	84.8	87.6	80.2	87.6	73.4	90.3	18	71.1	21	73	75	74	86	73	84	7.9	8.6	8.3	5.56	1.50	4	6	15	10	10	6	18	7	12	5	4	2	3	3
Oct.	876	76.7	84.5	87.8	80.1	87.8	73.2	91.3	23	70.5	2	73	74	74	87	71	82	8.5	8.3	8.4	8.62	1.96	20	2	15	11	11	8	22	4	11	7	3	1	3	3
Nov.	875	73.9	85.3	87.8	78.9	87.8	70.7	90.4	1	66.4	24	70	73	71	88	66	80	5.2	6.0	5.6	1.46	0.32	7	2	9	5	4	12	27	3	3	3	2	3	6	1
Dec.	29.940	73.0	83.4	85.9	77.7	85.9	70.4	89.9	28	66.0	*28	67	67	67	80	59	68	2.4	4.4	3.4	0.23	0.10	6	4	12	3	3	24	25	1	4	1	2	1	3	1
Mean Totals	29.950	74.8	83.3	86.5	78.3	86.5	70.7	90.0	67	67.3	...	69	71	70	82	68	78	5.6	7.5	6.5	42.41	...	...	46	137	33	71	123	253	77	96	55	30	16	43	34

\* And other days.  
 Barometer Pressures reduced to the Standard of National Physical Laboratory 32°. Gravity at Latitude 45° and to Mean Sea Level. The 75th Meridian West of Greenwich Standard Time used. Altitude of Standard Barometer above Mean Sea Level 33 ft. Height of Thermometers above ground 4 ft. 6 inches. Height of Rain-gauge above ground 6 ft. 5 ins. Height of Anemometer above the ground 94 ft.



Kingston.—Summary of Extremes of Instrumental Observations, each Month for the year 1938.

Month.	Barometer.		Temperature (Fah.)°		Surface Wind.				Relative Humidity lowest.			Rainfall greatest in 24 hours.			
	Highest.	Lowest.	90° and above No. of days	Below 70° No. of days.	Miles in 24 hours.		Greatest Velocity.	7 a.m.		3 p.m.		Amount (Ins.)			
	Ins. Date	Ins. Date			Greatest.	Least.	Miles per Hour.	%	Date.	%	Date.				
January	.30.131	.29.881	0	24	289	7	108	30	23	61	22	50	18/29	0.03	1
February	.101	.943	0	26	265	26	108	17	16	72	27	45	26	0.08	23
March	.056	.930	0	27	268	20	114	9	14	65	22	41	8	0.57	27
April	.013	.898	0	20	389	7	114	28	1	65	7	53	28	0.16	26
May	.29.992	.884	1	2	343	30	120	22	23	63	30	53	1	0.30	25
June	.30.014	.886	6	0	325	26	132	29	9	62	27	52	10	2.16	14
July	.029	.887	10	0	339	12	110	16	14	63	12	46	12	0.28	17
August	.013	.779	10	0	394	24	107	9	2	69	2	52	19	2.74	11
September	.29.953	.802	3	0	262	21	91	18	3	79	4	51	21	2.24	4
October	.985	.760	5	1	215	23	80	17	23	77	9	56	8	2.00	20
November	.947	.705	6	5	213	10	98	7	10	69	4	44	13	0.35	5
December	.30.018	.29.806	3	17	272	17	110	23	26	67	16	42	17	0.07	8

The barometer readings are reduced to sea level, also corrected for diurnal variation.

## YEAR 1938.

## METEOROLOGICAL JAMAICA.

## CLIMATIC CONDITIONS.

*Precipitation.*

The Island total rainfall mean for the year 1938, was considerably below the 60-year normal, shewing 60.00 inches as against the normal of 73.87 inches, being the least since the year 1923, when a mean of 57.45 inches was recorded. However, the mean for the past nine years gives 80 inches. The decade to end with 1939 portends to total better seasonable results than the previous decade of 1920-1929, when the mean shewed 64.78 inches. In the year 1938 the month of August gauged a mean of 8.86 inches which is about 2 inches above the average; but October with 9.55 ins., the greatest, was 0.66 of an inch below its average. The months from January to June were all somewhat below; then July, August and September were a little above, and finally October, November and December were below. On the whole there were only three months in excess. The mean total number of days with appreciable rainfall was 115 for the Island as compared to the 35-year average of 122.

The data following give a condensed report of the most important features relative to each Island Division, or the parishes, in regard to each monthly rainfall results:—

*January.* This month shewed a deficiency of 1.17 of an inch. The North-eastern Division although below its normal gauged a mean of 5.70 inches. The Southern Division recording the least, with only 0.74 of an inch. Most of this restricted rainfall occurred during the first and last weeks of this month. The greatest total fall for the month was 21.96 inches at Balcarres in the North-eastern Division, and the heaviest fall in 24 hours was 7.21 inches at the same station.

The mean number of days with rain was 7, the normal being 8. Moore Town in the North-eastern Division, with 24, had the most.

The parish of Portland recorded the most precipitation, with 10.00 inches, and the parish of Kingston, the least, with only 0.16 of an inch.

*February.* The precipitation for the Island was below the normal in all the Divisions except the North-eastern, which had more than its average. This is notably the driest month. The greatest total fall for the month was 26.92 inches at Balcarres in the North-eastern Division and the heaviest fall in 24 hours was 6.60 inches, on the 6th, at the same station. No rain fell at Green Island and Bog Walk.

The mean number of rainy days was 8 as compared to the normal of 7, the greatest number being 21 at Darley and Cedar Hurst.

The parish of Portland recorded the most with 12.72 inches, and Kingston, the least, with only 0.21 of an inch.

*March.* The mean monthly rainfall, for the Island, this month, for the fourth successive month, was below the average in all the Divisions. The greatest total fall for the month was 8.19 inches, at Darliston, in the West-central Division, and the heaviest fall in 24 hours was 3.70 inches at Quebec, in the North-eastern Division, on the 27th.

No rain fell at Adelphi, Barrett Hall, Success, Rose Hall, Cinnamon Hill, Tryall, Running Gut, Spring Estate, Rose Mount and Montego Bay, all in the Northern Division.

The mean number of days on which rain fell was 7, the average being 8. The greatest number was 18, at Darliston, in the West-central Division.

The parish of Westmoreland recorded the highest with 4.17 inches, followed by Portland with 3.68 inches, and the parish of St. James with 0.57 of an inch, was lowest.

*April.* The Island mean monthly rainfall was 4.47 inches or 0.30 inch below the 60-year average, but the West-central and Southern were above their normal. The North-eastern and Northern were, however, below. The greatest fall for the month was recorded at Pepper, in the Southern Division with 18.46 inches, and the heaviest fall in 24 hours was 4.30 inches at Catadupa in the West-central Division, on the 14th.

The heaviest precipitation appears to have occurred about the middle of the month, particularly on the 14th, 15th and 18th.

The mean number of days on which rain fell was 9, which is the average for the month. The greatest number was 20, at Wallingford, in the West-central Division.

The parish of St. Elizabeth recorded the highest mean, with 10.30 inches, followed by Manchester, with 9.15 inches. The lowest was at Kingston with 0.42 of an inch. All the divisions were deficient.

*May.* The Island mean rainfall for this month was 5.19 inches as against the 60-year normal of 8.77 ins. The "season" rains were therefore very deficient, being merely 60% of the average. The mean number of days with rain was 10 as compared to the average of 12. The greatest total fall for the month was 23.23 inches at Darliston in the West-central Division, and the heaviest fall in 24 hours was 5.90 inches at Castleton Gardens in the North-eastern Division on the 7th. The greatest number of days upon which rain fell was 26, at Bethel Town in the West-central division.

The parish of Westmoreland had the greatest monthly fall with 12.24 inches followed by 7.04 inches in Portland. The least fall was 1.11 of an inch in the parish of Kingston.

*June.* The mean rainfall for this month was much below the average, being 4.15 inches as against the average of 6.53 inches. All the Divisions were below the normal. The greatest fall for the month was 21.68 inches at Kendal, Hanover, in the Northern Division, and the heaviest fall in 24 hours was 5.40 inches at Cedar Valley in the North-eastern Division on the 14th.

The mean number of days with rain was 9, the average for the month being 10. The greatest number was 25 at Comfort Castle in the North-eastern Division.

The parish of Hanover recorded the highest mean with 9.14 inches, Westmoreland with 7.91 inches was second and Portland, with 7.80 inches was third.

So far for the half-year the Island gauged a mean of 21.72 inches as against the 60-year average of 30.55 inches, being 8.83 inches deficient.

*July.* The Island mean monthly rainfall was, for the first occasion this year, above its average, being 5.14 inches as compared to its normal of 4.75 inches. The North-eastern Division was practically the same as its average. All the other Divisions exceeded theirs. The heaviest precipitation occurred during the latter half of the month, from the 16th to the 29th. The greatest total fall for the month was 18.22 inches at Kendal, in Hanover, and the heaviest fall in 24 hours was 5.62 inches at Green Island in the Northern Division, on the 5th.

The mean number of days with rain was 11 as compared to the average of 9. The greatest number was 25 at Kendal, in Hanover.

The parish of Kingston had the least rainfall with 0.90 of an inch, being about one-third of its average.

The greatest parish rainfall for the month was 11.52 inches in Hanover, followed by 10.78 inches in Westmoreland.

*August.* The Island mean rainfall for the month exceeded the normal in all Divisions, shewing 8.86 inches, as against the 60-year average of 6.93 inches. The heaviest precipitation occurred on the 11th and 23rd due to a tropical disturbance in the vicinity of the Island. The greatest total fall for the month was 25.72 inches at Millbank, in the North-eastern Division, and the heaviest fall in 24 hours was 8.55 inches at Castleton Gardens, in the same Division on the 11th.

The mean number of days upon which rain fell was 13, the average for the month being 11. The greatest number of rain days was 27 at Fellowship, in the North-eastern Division.

The parish of Portland recorded the greatest rainfall with 14.00 inches, followed by Westmoreland with 10.40 inches, and thirdly by Manchester, with 10.34 inches. The parish of St. James, with 5.40 inches, was lowest.

*September.* The monthly mean Island Rainfall was slightly above the average. The Northern Division was 0.32 inch below. The other three divisions were above their averages, and the Island mean was 8.61 inches or 0.67 inch above the normal. The greatest total fall for the month was 32.37 inches at Millbank in the North-eastern Division, and the heaviest fall in 24 hours was 13.70 inches at Darley in the same Division, on the 4th. The heaviest precipitation appears to have occurred during the earlier part of the month, and particularly from the 4th to the 6th.

The mean number of days upon which rain fell was 12; the average for the month being 13. The greatest number was 23 at Williamsfield, Westmoreland, in the West-central Division.

The parish of St. Thomas recorded the greatest total mean of 15.52 inches, followed by Portland with 14.40 inches. St. Ann with 4.23 inches was the lowest.

For the three-quarters of the year to 30th September the aggregate mean for the Island amounted to 44.33 inches, as against the corresponding normal of 50.17 inches.

*October.*—The "season" rains were well distributed with a mean of 9.55 inches as against the 60-year normal of 10.21 inches. The Northern Division was, however, 2.34 inches above its normal. The greatest precipitation appears to have taken place during the latter half of the month and particularly on the 20th.

The greatest fall for the month was 20.98 inches at Askenish in the West-central Division, and the heaviest fall in 24 hours 7.49 inches at Catadupa in the same Division on the 2nd.

The mean number of days upon which rain fell was 14 which corresponds to the normal. The greatest number was 24 at Kempshot in the West-central Division.

The parish highest rainfall was 12.27 inches in St. James, followed by 10.99 inches in Westmoreland. Kingston was the lowest with 3.59 inches.

*November.* The monthly mean Island rainfall was very deficient in all the Divisions, being only a little over one-third of the normal, the mean total being 3.17 inches as against the normal of 8.29 inches. The greatest total fall for the month was 14.95 inches at Comfort Castle in the North-eastern Division, and the heaviest fall in 24 hours was 4.00 inches at the same station on the 19th.

The mean number of days on which rain fell was 8, the average for the month being 12. The greatest number was 20 each at Comfort Castle, Moore Town and Averham Park, all in the North-eastern Division.

The parish of Portland recorded the highest mean of 7.63 inches followed by St. Mary with 5.71 inches and St. Ann with 3.92 inches. Kingston, with 1.12 of an inch was lowest.

*December.* The Island mean monthly rainfall was much below the average in all the Divisions, being 2.95 inches as against the average of 5.20 inches. The greatest total fall for the month was 21.19 inches at Comfort Castle in the North-eastern Division, followed by Balcarres with 20.45 inches in the same Division. The heaviest fall in 24 hours was 7.15 inches at Port Antonio, in the North-eastern Division on the 4th.

The mean number of days upon which rain fell was 7, the average for the month being 9; Averham Park in the North-eastern Division, with 24, had most.

No rain fell at Bog Walk, Rock River, Suttons, Font Hill, Mount Edgecombe and Little London.

The parish of Portland with 10.93 inches was highest; St. Mary with 6.47 inches was second and St. Ann with 5.14 inches was third. Kingston, with 0.31 inch was lowest, followed by Westmoreland with 0.45 of an inch. Hanover, St. Elizabeth, Manchester, Clarendon and St. Catherine recorded each a little over an inch.

#### THE ISLAND RAINFALL FOR THE YEAR, 1938.

The total mean rainfall, derived from the twelve monthly average, embracing the Four Divisions of the Island, was only 60.00 inches, as compared to the 60-year Island rainfall normal of 73.87 inches. The parish of Portland gauged the greatest total fall with 111.97 inches, followed by Westmoreland with 81.08 inches. The parish of Kingston had the least, with only 25.13 inches.

Taking the year's rainfall as 60.00 inches with 115 days of appreciable rain a mean of 0.52 of an inch is derived.

## THE ISLAND MEAN RAINFALL, 1938 (in Inches)

Month	Divisions.				The Island.		Days on which rain fell.	
	N.E.	N.	W.C.	S.	1938	Average for 60 years.	Means for 1938.	Average for 35 years
January	5.70	3.09	1.79	0.74	2.83	4.00	7	8
February	6.84	1.43	1.83	1.39	2.87	3.13	8	7
March	2.58	1.06	3.33	1.87	2.21	3.35	7	8
April	3.77	1.23	8.00	4.88	4.47	4.77	9	9
May	6.46	2.63	8.52	3.15	5.19	8.77	10	12
June	4.16	2.64	7.09	2.71	4.15	6.53	9	10
July	5.21	4.20	7.79	3.36	5.14	4.75	11	9
August	10.69	6.62	10.57	7.57	8.86	6.93	13	11
September	10.52	5.57	11.09	7.27	8.61	7.94	12	13
October	9.60	9.91	11.76	6.92	9.55	10.21	14	14
November	4.93	3.24	2.38	2.11	3.17	8.29	8	12
December	6.73	2.50	1.62	0.95	2.95	5.20	7	9
Total 1938	77.19	44.12	75.77	42.92	60.00	..	115	..
Total, 60-year Average	99.54	56.68	87.84	51.42	..	73.87	..	122

## WEATHER DISTURBANCES, YEAR 1938.

*August.*

There was evidence of the presence of a small tropical disturbance located on the 11th, somewhat to the westward of Haiti. It appeared to have taken a very rapidly progressive movement on a westerly course towards the Cayman Islands. According to the U.S. Weather Review for August, page 240, on the morning of the 12th it was of marked intensity and centred near Grand Cayman Island, where shortly after 7 a.m. the wind reached a velocity of 95 miles per hour from the east. Maintaining marked intensity, but with rather small diameter, this storm passed through the Yucatan Channel on the night of August 12th-13th, moved north-westward into Western Louisiana. The mean progressive movement across the Gulf was 18 to 20 miles per hour.

This storm in its course along the off-coast of the northern section of Jamaica developed wind velocity such as to occasion appreciable loss of cultivation in the northern parishes. At Grand Cayman several schooners suffered. The vessel "Majestic" was driven on the West Bay Beach and badly damaged. H.M.S. Orion rendered valuable rescuing service. About nine houses were destroyed and the hurricane caused injury to several persons in Cayman Island.

At the western section of Jamaica, Mrs. Stillwagon of Kempshot, Mr. Foster of Rose Mount and the Supt. of Negril Point Lighthouse observed the lowest barometric pressure on the 11th, at about 7.45 p.m., when the storm centre was nearest, and a south-east gale was reported from Kempshot.

The lowest barometric pressure at Kingston was 29.847 inches on the 11th at about 4.30 p.m. and at Kempshot at 7.30 p.m., (same day) 29.712 inches.

During the early morning of the 23rd August, Mr. Chas. Durrant of Morant Point Lighthouse, telegraphed to Kingston the result of certain observations, which gave a barometric reading of 29.84 inches, with wind from the north-east at 25 miles per hour, overcast conditions, with lower clouds from the East, distant thunderstorm and heavy seas. Later on the wind increased in velocity to 40 miles per hour (gale force) from the east with showers and continued heavy seas. Morant Point Barometer then read 29.80 inches at 9 p.m. on the 23rd.

At Kingston, the pressure continued to fall to 29.85 inches with a north-west wind at 6 m.p.h. The United States Weather Bureau was notified and a general storm warning was issued, stating disturbed conditions with indications of the formation of a storm centre about 300 miles to the south-east of Kingston, Jamaica, with a movement to the west-north-westward. At 3 p.m. a second broadcast was issued reporting the tropical disturbance was increasing in intensity at 1 p.m. then approximately 200 miles to the south of Kingston moving to west-north-westward at a rate of 16 to 21 m.p.h. attended by shifting gales and probably winds of hurricane force—near to centre. A sea swell was noticed at Negril Point from 6 to 9 p.m. on 23rd.

This storm, after proceeding westward along some course to the south of Jamaica, moved, according to Washington, to a point about 100 miles to the south-west of Grand Cayman Island with gale force over a considerable area, and hurricane force near to centre. At 7 a.m. on the 25th the storm centre was located about 160 miles to the south-east of Cozumal Island off the east coast of the Yucatan Peninsula, moving north-westward into the Gulf.

Jamaica cultivation suffered slight damage but heavy rains were experienced.

*September.*

On the evening of September 17th, a hurricane was first definitely located approximately 500 miles northeast of the Leeward Island. It coursed westerly about 250 miles to the north of Puerto Rico and San Domingo with an acute incurve near to the east of Bahama Group. On the 21st the centre passed over Long Island and into New England near New Haven, in the U.S.A. Loss of human life was placed at about 600. The total value of property destroyed in the affected area was conservatively estimated at a quarter to a third of a billion dollars or about sixty million pounds sterling.

The centre of this hurricane evidently passed nearest to Jamaica on the 19th September at about 600 miles to the north-east of Kingston. The barometric pressure fell, only, about 0.03 of an inch below the normal at this time. A detailed account of this destructive hurricane is given in the September number of the U.S. monthly Weather Review, page 286.

Otherwise, the Caribbean region this month was free of disturbances of any note.

*October.*

The Caribbean area, this month, was free of hurricanes. In the Gulf of Mexico a weather disturbance was located 275 miles to the south of New Orleans, moving north-eastward on the 13th.

*November.*

During the night of the 5th-6th November, winds of fresh gale force (8) was encountered blowing from east to north-east directions to the south-east of the Bahama Islands. These winds were reported by vessels in the vicinity of Lat. 23° to 25° N. and Long. 63° to 74° West. On the morning of the 8th the centre was farthest north, near to the south end of Andros Island. Thereafter it pursued a south-westerly trend across west-central Cuba and disappeared in the north-western Caribbean.

A detailed account of this disturbance appears in the U.S. monthly Weather Review for November, 1938, page 378. A number of stations in Jamaica, especially in the Northern Division, reported heavy rainfall between the 4th and 10th November.

## HAILSTORMS.

None reported.

## NORTHERS.

February Fresh to moderate in the northern parishes at intervals, and at Kingston, moderate on 9th, 26th and 28th.  
 November Fresh to moderate of short duration on 1st, 12th, 17th, 19th and 28th at Kingston.  
 December Fresh to moderate of short duration at intervals from 16th to 24th.

## EARTHQUAKES.

January 24—About 9 p.m. slight at Mt. Cressy, Boon Hall, Albany, Highgate (St. Cath.), Kingston and Quarantine Station.  
 March 26—About 4.50 a.m. slight at Boon Hall.  
 April 8—About 5.45 a.m. slight at Boon Hall.  
 April 14—About 4.20 a.m. slight at Fellowship, Rose Hill, Boon Hall and Kingston.  
 June 9—About 6.45 a.m. slight at Port Antonio, Boon Hall and Kingston.  
 August 13—8.45 a.m. slight at Unity Valley, Frankfield, Kew Park, Windsor, Myersville, Alligator Pond, Race Course, (Clar.), Mountainside, Pratville and East Prospect.

## DENSE FOG OR MIST.

On October the 18th at about 6 p.m. a dense fog spread over an extensive area from the base of the Long Mountain (to the eastward of Kingston) overlying the Liguanea Plain, along the Red Hills base, near to the Spanish Town Road westward and for about one hour's duration.

## YEAR 1938.

## METEOROLOGICAL RESULTS FOR THE YEAR 1938.

## CITY OF KINGSTON.

The total rainfall for the year 1938, as registered at the Public Works Buildings, Port Royal Street, Kingston, was only 20.94 inches, the 60-year normal being 31.56 inches, shewing a deficiency of 10.62 inches. The month of August recorded the greatest with 6.23 inches, and January the least with only 0.05 of an inch. The total number of days with appreciable rain was 59 as against the 49-year average of 79. The greatest number of rainy days in one month was ten in August, and the least was three in January and December each.

Mean barometric pressure for the year 1938 was 29.934 inches and the 33-year normal is 29.932 inches

Mean temperature for the year was 78.8° as against the 33-year normal of 78.7°; a difference of 0.1°.

The mean amount of cloudiness for the year was 48% as against the normal of 53%.

Mean relative humidity 75%, the 33-year average being 79%.

Average daily wind 179 miles; normal 183.

## KINGSTON, SUMMARY OF EXTREMES FOR THE YEAR.

January gave the highest barometer reading of 30.131 inches on the 28th, and November, the lowest, with 29.705 inches on the 7th. The maximum temperature rose to 90° or above, as follows:—

May one day, June six, July and August ten, September three, October five, November six, and December three days. The minimum temperature was below 70° for 24 days in January, 26 days in February, 27 in March, 20 in April, 2 in May, June to September nil, and December 17. For the 12 months, there were 122 days on which the minimum read below 70°, and 44 days on which the maximum recorded above 90°.

The maximum number of miles of wind registered in 24 hours was 394 on August 24th due to weather disturbance in the vicinity of Jamaica, and the minimum was 80 miles on October 17th. The greatest rate of hourly velocity during short intervals of time was 36 miles per hour on the 14th March, 9th June and 14th July, respectively.

The monthly lowest 7 a.m. relative humidity was 61% on 22nd January, and the lowest 3 p.m. was 41% on 8th March, followed by 42% on 17th December.

During the year the greatest rainfall in 24 hours was 2.74 inches on 11th August.

## NEGRIL POINT LIGHTHOUSE.

The extreme maximum temperature recorded was 92.2° on the 6th August and the extreme minimum was 62.1° on the 5th February. The greatest range of temperature 27.3° in the month of February and the least range was 19.2° in the month of September.

The greatest monthly rainfall was 8.85 inches in August; the average for 35 years being 6.50 inches, shewing 2.35 inches in excess of the normal, and the least was 0.23 of an inch in December as against the 35-year average of 1.97 of an inch. The total number of days with appreciable rain was 137 for the 12 months. May and August had the greatest monthly rainfall days of 18 each followed by September and October each with 15 days. December had only 4 days. The year's total rainfall was 42.41 inches, as against the 35-year normal of 54.09 inches.

The daily average wind recorded was 135 miles. The highest daily average was 174 in December followed by 172 in February. The lowest was 111 miles in June.

The observations were conducted by Mr. J. S. Brownhill, J.P., the Superintendent of the Lighthouse.

## MORANT POINT LIGHTHOUSE.

The extreme maximum temperature was 91.8° on the 25th of October and the extreme minimum was 65.0° on the 4th of March. The extreme range for the year was therefore 26.8°. The greatest monthly range was 22.5° in December and the least was 13.5° in June. The greatest monthly rainfall was 11.35 inches in September and the least was 0.73 inch in January. There were 165 days with appreciable rain during the year. October had the greatest with 19 days, and November the least with 9. The total rainfall for the year was 42.73 inches, or 23.94 inches below the 60-year average of 66.67 inches. The deficiency was apparent in each month, with the exception of April and September which recorded rainfalls somewhat above their normals. The average fall for each day with rain (165 days) was 0.26 inch. The mean total daily miles of wind was 268. January recorded the greatest with 338 miles, and October the least with 140. The observations were conducted by Mr. Charles Durrant, the Superintendent of the Lighthouse.