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No. 217.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1897.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure.* 7 a.m. I.	Bar. 7 a.m. II.	Bar. 3 p.m. I.	Bar. 3 p.m. II.	Bar. Mean. II.	Temperature. 7 a.m.	Temp. 3 p.m.	Temp. Max.	Temp. Min.	Temp. Range.	Dew Point and Humidity. 7 a.m.		Dew Point 3 p.m.		Wind. Direction (from) and miles per hour. 7 a.m.		Wind 3 p.m.		Wind Mean for the day.		Total Miles of Wind.
	29 or 30 In.	29 or 30 In.	29 or 30 In.	29 or 30 In.	29 or 30 In.	°	°	°	°	°	°		°								
1	.960	.950	.903	.934	.942	74.0	86.0	87.4	72.7	14.7	71.9	92	70.8	61	N	1	ESE	7	SE	3	81
2	.912	.902	.844	.875	.889	75.5	87.6	88.0	72.7	15.3	68.5	79	71.4	59	N	1	SE	11	SSE	4	99
3	.899	.889	.847	.878	.884	76.3	87.2	89.4	73.3	16.1	67.1	73	71.0	59	N	1	SE	8	SSE	5	109
4	.965	.955	.957	.988	.972	77.3	87.4	90.1	72.9	17.2	69.8	78	74.4	66	N	1	SE	11	SE	5	128
5	.065	.055	.974	.005	.030	76.3	90.5	91.6	73.8	17.8	68.4	77	72.5	56	Z	0	SE	13	SE	5	113
6	.022	.012	.940	.971	.992	77.3	86.4	89.0	74.6	14.4	71.3	82	71.4	61	Z	0	SE	10	SSE	4	92
7	.999	.989	.898	.929	.959	75.5	87.3	90.8	73.6	17.2	70.0	83	74.3	65	N	1	SE	9	SE	4	102
8	.002	.992	.936	.967	.980	77.4	90.2	91.3	75.1	16.2	70.8	80	72.4	56	N	1	S	6	SSE	4	90
9	.966	.956	.897	.928	.942	77.7	90.7	94.0	75.5	18.5	72.3	84	70.8	52	N	1	SE	6	SE	4	100
10	.923	.913	.860	.891	.902	74.6	88.1	91.7	71.1	20.6	67.9	80	76.1	68	Z	0	S	5	SE	3	72
11	.890	.880	.843	.874	.877	77.4	84.6	89.8	76.2	13.6	69.4	75	75.7	75	Z	0	SE	8	SE	4	99
12	.935	.925	.954	.985	.955	75.8	81.7	83.9	74.8	9.1	73.4	92	75.5	82	Z	0	SE	6	SE	5	117
13	.011	.001	.943	.974	.988	80.6	87.3	89.3	75.2	14.1	70.9	72	73.2	63	SE	4	SE	10	SSE	6	142
14	.980	.970	.915	.946	.958	78.4	88.2	88.9	75.6	13.3	72.0	81	71.1	57	N	1	SE	13	SSE	5	129
15	.988	.978	.895	.926	.952	71.9	88.7	88.9	71.5	17.4	70.7	96	69.3	53	Z	0	N	2	Var	2	58
16	.959	.949	.911	.942	.946	81.2	90.5	91.3	75.0	16.3	71.5	73	81.1	75	N	2	SE	9	SE	6	133
17	.980	.970	.918	.949	.960	75.1	88.3	88.6	74.0	14.6	71.8	89	71.6	58	N	1	SE	6	SE	4	97
18	.025	.015	.947	.978	.997	77.6	87.5	88.3	74.7	13.6	72.2	84	70.1	56	N	2	SE	7	SE	4	90
19	.016	.006	.924	.955	.981	77.7	88.7	93.3	75.2	18.1	69.8	77	71.0	56	N	4	SE	12	SE	4	93
20	.980	.970	.907	.938	.954	78.3	83.6	88.7	74.8	13.9	71.7	80	73.4	72	N	1	S	5	E	2	56
21	.965	.955	.895	.926	.941	75.4	88.3	89.4	73.9	15.5	69.9	83	71.7	58	Z	0	SE	9	SE	4	98
22	.017	.007	.907	.938	.973	76.4	86.9	90.3	75.3	15.0	64.5	77	72.0	61	Z	0	SE	11	SSE	4	98
23	.015	.005	.941	.972	.989	75.8	87.7	89.7	73.9	15.8	69.8	82	75.4	67	Z	0	SE	5	SE	3	68
24	.949	.939	.909	.940	.940	75.7	85.3	88.3	73.7	14.6	73.0	91	74.7	71	N	1	S	4	Var	3	61
25	.958	.948	.941	.973	.960	75.1	76.7	89.6	73.1	16.5	71.2	87	72.8	88	N	2	N	2	SSE	3	83
26	.957	.947	.862	.893	.920	73.1	84.8	88.7	71.0	17.7	70.7	92	72.3	66	N	2	SE	7	SE	3	82
27	.922	.912	.859	.890	.901	74.5	83.7	88.2	73.7	14.5	69.5	85	73.4	69	N	2	SE	5	SE	2	52
28	.913	.903	.876	.907	.905	74.3	86.1	87.8	72.9	14.9	68.8	83	73.2	66	N	1	S	4	S	2	43
29	.898	.888	.878	.909	.899	74.6	84.7	89.4	73.7	15.7	70.6	87	73.3	69	Z	0	SW	2	SW	2	44
30	.923	.913	.879	.910	.912	76.2	88.2	88.8	74.8	14.0	7 .1	87	73.3	62	Z	0	SE	4	SE	4	86
31	.910	.900	.861	.892	.896	78.2	87.8	90.5	74.7	15.8	72.3	82	70.7	57	N	2	S	5	S	3	66
Means.	29.965	29.955	29.904	29.935	29.945	76.3	86.8	89.5	74.0	15.5	70.4	83	72.9	64	N	1.0	SE	7.1	SE by S	3.7	89.5

* Explanation. Bar. I.=Barometer reduced to Standards of Kew (for instrumental error), of Temp. 32°, and of Mean sea level, and of Gravity at Latitude 45°

Bar. II.=Barometer further reduced to Diurnal Mean (Corr. being for this month—at 7 a.m. —.010 and at 3 p.m. +.031.

National Oceanic and Atmospheric Administration

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LASON
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Beltsville, MD 20704-1387
March 28, 2002

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky). 7 a.m. Lower.	7 a.m. Middle.	7 a.m. Upper.	3 p.m. Lower.	3 p.m. Middle.	3 p.m. Upper.	Rain-fall.	Weather: Remarks, &c.
							Ins.	
1	1 Str.	2 Cum.	7 Cir. s	1 Str. c. SE	2 Cum. SE	6 Cir s. W	0.14	Cloudy. Rain during early morning. Rain from 4.42 to 4.50 p.m.
2	...	..	2 Cir.	...	1 Cum. SE	1 Cir.	0.00	Fine a.m.
3	...	...	1 Cir. s.	2 Str. c. SE	1 Cum. SE	6 Cir s.	0.00	Fine a.m. Cloudy p.m.
4	...	...	3 Cir. s.	...	1 Cum. SE	7 Cir s.	0.00	Fine a.m. Cloudy p.m.
5	...	...	8 Cir.	...	1 Cum. SE	2 Cir s. SE	0.00	Cloudy a.m. Fine p.m.
6	...	1 Cum. E	2 Cir. s. E	...	1 Cum. SE	3 Cir s.	0.00	Fine a.m. Fair p.m. Thunder to N E at 6.20 a.m.,
7	...	1 Cum. E	...	4 Str. c. SE	1 Cum. SE	4 Cir s.	0.00	Fine a.m. Cloudy p.m.
8	...	...	1 Cir.	...	2 Cum. SE	7 Cir s.	0.00	Fine a.m. Cloudy p.m.
9	...	1 Cum. E	1 Cir. s.	...	1 Cum. SE	...	0.00	Fine.
10	...	...	2 Cir.	...	1 Cum. SE	9 Cir s.	0.00	Fine but hazy a.m. Cloudy p.m.
11	...	...	4 Cir.	...	1 Cum SE	8 Cir s.	0.00	Fair a.m. Cloudy p.m.
12	2 Alt. s. 5 Str. c.	...	1 Cir. s.	8 Str. c. 7 Alt. s.	...	...	0.60	Rain. Squall from SE at 6.10 with rain, Thunder to SE. Rain at 6.33 a.m. to 7 a.m. Rain at 10.27 a.m. to 10.39 a.m. & at 10.49 to 11.23 a.m. Rain from 2.57 to 3.12 p.m.
13	...	1 Cum. SE	6 Cir. s.	...	1 Cum. SE	...	0.00	Cloudy a.m. Fine p.m.
14	...	1 Cum.	6 Cir. s.	...	1 Cum. SE	...	0.44	Cloudy a. m. Fine p.m. Squall from S E at 5.25 p.m. Thunder & Lightning S E with Rain at 6.55 to 7.28 p.m.
15	6 Alt s. 4 Str. c. SE	...	...	1 Str. cum. SE	...	4 Cir. Str. SE	0.17	Cloudy a.m. Fair p.m. Rain at 5.58 a.m. to 6.34 a.m. Thunder to S E. Rain from 7.8 to 8.12 a.m.
16	...	...	8 Cum. s.	...	1 Cum. SE	4 Cir. S	0.00	Cloudy. a.m. Fair p.m
17	...	1 Cum.	3 Cir. s.	...	1 Cum. SE	2 Cir. E	0.00	Fair a.m. Fine p.m.
18	1 Alt. s.	1 Cum.	8 Cir. s.	1 Str. cum. SE	1 Cum. SE	7 Cir.	0.00	Cloudy.
19	...	1 Alt. Cum.	1 Cir.	2 Str. cum. 2. Alt. Str. 1 Str.	1 Cum. SE	1 Cir. S.	0.00	Fine a.m. Fair p.m.
20	...	2 Alt. Cum. E	5 Cir. str. E	5 Str. c.	...	...	0.02	Cloudy light rain at 11.55 a.m. to 12.7 Rain at 1.24 to 129 p.m. Thunder to N W at 1.19 p.m.
21	...	1 Cum. E	6 Cir.	...	1 Cum. SE	8 Cir.	0.00	Cloudy.
22	...	1 Cum.	2 Cir. s.	...	1 Cum. SE	3 Cir. s.	0.00	Fine a.m. Fair. p.m.
23	...	1 Cum. E.	5 Cir. s.	...	2 Cum. SE	1 Cir. s. SE	0.29	Cloudy a.m. Fine p.m. Light rain at 10.49. to 11.10 a.m. Thunder to N W at 3.48 p.m. Lightning at 4.15 p.m. Rain 4.38 to 5.20 p.m.
24	...	...	8 Cir. s.	2 Str. Cum. E	2 Cum. E	5 Cir. s. E	0.01	Cloudy. Light Rain from 12.47 to 1.14 p.m. Thunder N W at 1.7 p.m.
25	...	...	1 Cir. s.	9 Alt Str.	...	...	0.46	Fine a.m. Rain p.m. Squall from S E at 2.43 p.m. Rain from 2.48 to 4.7 p.m. Squalls from S E at 8.47 to 9.41 p.m. with rain from 9.2 to 10.13 p.m. Thunder to S E at 9.21. Lightning during the night.
26	...	1 Cum. S E	7 Cir.	1 Str. Cum. SE	1 Cum. SE	7 Cir. s W	0.00	Cloudy.
27	...	...	6 Cir. s.	1 Str. Cum. S E	1 Cum. SE	7 Cir. s.	0.00	Cloudy.
28	...	1 Cum. E	3 Cir. s.	1 Str. Cum. SE	1 Cum. SE	7 Cir. s. SE	0.00	Fair a.m. Cloudy p.m. Thunder to N at 1.25 p.m.
29	...	1 Cum. E	2 Cir. s.	4 Str. Cum. S E	1 Cum.	4 Cir. s.	0.00	Fine a.m. Cloudy p.m.
30	...	1 Cum	...	...	3 Cum. SE	1 Cir. s.	0.00	Fine but hazy a.m. Fair p.m. Thunder. to N at 1.28 p.m.
31	5 Alt. Str.	...	1 Cir. S E	...	1 Cum. SE	9 Cir. s.	0.00	Cloudy.
Means Total.	.8 ...	.6 ...	3·5 ...	1.5 ...	1.1 ...	4.0 ...	... 2.18	No. of rainy days, 8.

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Extreme Temperature. Max.	Date.	Min.	Date.	Range.
	ft.	In.	In.	°	°	°	°	°	°		°		°
Morant Point L. H.	8	29.956	29.918	...	..	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.954	29.916	78.5	83.8	88.2	73.3	14.9	92	10	71	10, 30	21
Kingston ...	50	29.965	29.904	76.3	86.8	89.5	74.0	15.5	94	9	71	26	23
King's House ...	400	...	...	74.3	88.8	92.7	68.3	24.4	97	10	65	25	32
Castleton Gardens...	580	...	...	72.0	83.4	87.4	67.5	19.9	92	10	63	1, 25	29
Hope Gardens ...	600	...	...	73.4	86.4	90.3	70.3	20.0	97	10	67	25	30
Stony Hill Refty. ...	1,400	...	...	73.6	79.7	87.3	68.4	18.9	91	6, 11	65	4	26
Hill Gardens ...	4,907	25.405	25.393	63.7	68.4	72.5	60.0	12.5	78	9	56	28	22

The bar. pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°., and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

Station.	Elevation.	Dewpoint and Humidity. 7 a.m.		3 p.m.		Rain-fall.	Wind per diem.	Wind: direction (from and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud. Lower, Middle, and Upper 7 a.m. L.	M.	U.	3 p.m. L.	M.	U.
	ft.	°		°		In.	Miles.										
Morant Point L.H.	8	...	...	...	...	5.00	...	N E	5.4	NE	8.0	2.9	2.2	1.7	2.6	1.8	1.0
Negril Point L. H.	33	73.7	85	74.8	75	6.71	200.5	E N E	6.0	E N E	12.6	0.3	1.0	6.0	3.6	3.5	1.9
Kingston ...	50	70.4	83	72.9	64	2.13	89.5	N	1.0	SE	7.1	0.8	0.6	3.5	1.5	1.1	4.0
King's House ...	400	71.3	90	79.7	74	5.95	...	...	..	...	...	...	...	...	...	...	...
Castleton Gardens...	580	69.8	90	77.3	79	9.09	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	70.2	90	71.5	63	4.82	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	70.0	88	74.0	83	6.02	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	58.6	83	63.0	81	5.38	55.4	...	...	...	...	...	...	...	...	...	...

The miles of wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the lower clouds are for the most part fracto-stratus; the middle clouds, cumulus; and the upper clouds, cirrus, or cirro-stratus

The Health of Kingston.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

		August. 1897.	Average.
Infantile diseases not otherwise specified	...	27	12
Lung diseases	...	12	15
Fever and Malaria	...	11	9
Dysentery and Diarrhœa	...	14	4
Various	...	47	50
Total	...	111	90

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observer's Initial
1897.		°	°	°	in.		
January 31st ...	10.30 a.m.	70.9	38.8	61	4.30	Fine.	D. W.
February 27th ...	3.30 p.m.	70.9	40.8	51	0.90	Fine, clear, high wind from N.E.	W. H.
March 31st ...	2.30 p.m.	67.9	39.8	61	3.10	Fine, but cloudy.	W. H.
April 30th ...	10 a.m.	70.9	42.8	60	10.08	Misty.	D. W.
May 31st ...	12.30 p.m.	66.9	42.8	64	11.10	Cloudy.	D. W.
June 30th ...	10.00 a.m.	70.9	44.8	65	6.03	Cloudy.	D. W.
July 31st ...	9.15 a.m.	69.9	41.8	54	5.15	Light rain.	D. W.
August 31st ...	12.30 p.m.	68.9	44.8	51	8.50	Raining.	D. W.

Rainfall for August, 1897.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to the Tables published in January, 1892, as No. 124 (A) of the preceding series of Reports, Vol. II. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island: embracing the four divisions.

North-Eastern Division.	August. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	8.70	2.30	25	10	11.09
Manchioneal P.W.D.	9.85	2.72	26	24	...
Bath P. W. D.	8.76	2.90	14	21	...
Moore Town P. W. D.	15.63	2.75	25	13	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	7.89	1.90	14	25	12.62
Fellowship P. W. D.	10.58	2.35	14	26	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	11.44	5.32	15	15	...
Cedar Valley P. W. D.	11.14	2 87	12	12	...
Green Vale	...	...	...	...	...
Cinchona Plantation	5.38	2.15	13	12	9.75
Resource	3.09	..	...	...	...
Buff Bay P. W. D.	6.85	2.95	15	11	...
Cold Spring	4.94	2.00	15	5	...
Hardware Gap P.W.D.	4.85	1.75	12	7	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	5.21	3.25	15	7	...
Stony Hill Rfty.	6.02	1.75	24	12	11.82
Castleton Gardens	9.09	1.66	27	16	11.04

North-Eastern Division, *contd.*	August. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Lawrence's Tavern P. W. D.	6.82	1.43	24	11	...
Albany P. W. D.	3.80	1.75	14	9	...
Quebec	...	...	...	...	3.89
Richmond P. W. D.	3.95	.70	15	14	...
Highgate P. W. D.	3.34	1.00	25	9	...
Gayle	3.65	1.50	1	6	6.65
Gayle P. W. D.	3.54	1.22	4	13	...
Rio Hoe	5.53	1.19	25	14	8.02
Unity Valley	5.90	2.18	25	18	6.79
Moneague P.W.D.	5.60	2.46	26	12	5.93
Claremont	...	...	...	...	...
Albion	5.52	1.26	25	17	6.58
Averham Park	3.97	.89	25	14	5.97
Ballintoy P.W.D.	6.82	1.07	29	13	...
Means	6.11	...	...	...	8.75
Northern Division					
Port Maria P.W.D.	5.88	1.80	14	12	4.81
Ocho Rios	...	...	...	...	...
Drax Hall	4.27	1.70	31	10	4.10
St. Ann's Bay P.W.D.	3.37	1.17	31	14	3.15
Seville	3.25	1.50	31	4	4.35
Richmond Estate	...	...	...	...	4.19
Llandovery	2.42	1.02	26	4	3.57
Brown's Town P.W.D.	2.84	1.20	25	12	4.25
Dry Harbour	2.68	.47	10	9	...
Home Castle	4.30	1.15	31	8	4.28
Richmond Pen	...	...	...	...	6.23
Mahogany Hall	6.33	3.96	30	7	6.13
Brampton Bryan	3.24	1.19	30	10	4.20
Bryan Castle	4.64	1.67	11	7	3.17
Braco	4.88	2.97	11	7	3.62
Arcadia	2.40	.84	30	10	4.27
Arcadia Great House	3.38	.80	30	9	...
Harmony Hall	...	...	...	...	2.91
Lancaster	3.91	2.10	11	6	3.77
Vale Royal	3.72	1.25	31	8	5.20

Northern Division, *contd.*	August. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Clochis Pen	3.55	1.10	30	8	5.51
Hyde	3.75	2.48	30	12	6.36
Georgia	4.09	1.28	30	8	4.17
Long Pond	4.69	1.70	30	7	...
Steelfield	3.66	1.38	30	10	4.08
Oxford	4.95	2.00	30	9	3.48
Cambridge	4.45	1.50	30	10	4.37
Dry Valley	...	..	...	...	...
Lottery	4.26	1.05	26	10	4.24
Hampstead	10.85	3.05	31	8	...
Falmouth	2.53	..	...	...	3.22
Falmouth P.W.D.	3.12	.62	11	10	...
Fontabelle	10.00	2.40	30	16	...
Martha Brae	...	...	...	...	...
Holland Pen	...	...	...	...	3.45
Pembroke	...	...	...	...	5.15
Golden Grove	...	...	...	...	5.62
Green Park	3.40	1.10	26	11	3.83
Tilston	...	...	...	...	6.03
Weston Favell	5.66	1.35	22	11	7.74
Orange Valley	...	...	...	...	3.43
Kent	...	...	..	...	3.61
Dundee	...	...	...	...	4.68
Phœnix	4.36	1.12	...	10	5.25
Gale's Valley	...	...	...	...	6.51
Greenwood	...	...	...	...	3.53
Canaan	3.18	1.58	22	10	...
Lima	4.00	.80	22	8	...
Content		...	...	...	4.59
Bellfield	3.80	1.43	31	9	...
Guilsbro'	...	...	...	...	6.04
Tryall	...	...	...	...	...
Leogan	...	...	...	...	6.14
Success	1.65	.45	12	6	2.59
Cinnamon Hill	2.15	.60	12	7	2.51
Rose Hall	1.38	.58	12	8	2.56
Running Gut	...	...	...	...	2.69
Spring	...	...	...	...	...
Ironshore	...	...	...	...	5.12
Friendship	...	...	...	...	...
Providence	...	...	...	...	4.65
Montego Bay P.W.D.	7.91	1.54	4	12	6.29
Catherine Hall	...	...	...	...	6.72
Catherine Mount	...	...	...	...	7.04
Fairfield	5.90	1.50	25	7	6.89
Anchovy	...	...	...	...	8.79
Round Hill	3.15	.90	25	7	5.55
Tryall	...	...	...	...	6.61
Sandy Bay P.W.D.	10.50	2.47	11	13	...
Lucea P.W.D.	10.57	3.15	11	15	...
Orange Cove	...	...	...	...	6.46
Prospect Estate	8.58	2.00	27	13	...
Central Sub-Division—					
Headworks R.C.C.	3.87	1.00	21	13	7.02
Linstead P.W.D.	7.11	1.40	12	11	8.64
Wakefield	...	...	...	...	...
Point Hill P.W.D.	7.96	2.17	12	13	...
Harker's Hall P.W.D.	11.80	1.65	25	19	...

Northern Division, *contd.*	August, 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Chapelton P.W.D.	4.13	1.82	12	10	8.98
Danks Savoy	4.84	1.66	12	13	...
Mears P.W.D.	6.24	1.68	12	16	...
Cave Valley	4.02	.85	11	12	8.24
Means	4.04	...	...	...	4.87
West Central Division.					
Mocho P.W.D.	5.63	1.41	13	16	...
Baillieston	7.76	1.36	25	15	...
Farm Plantation	6.05	1.40	25	13	9.39
Brockenhurst Pln.	...	...	...	...	10.01
Christiana P.W.D.	6.32	1.03	24	16	...
Kendal P.W.D.	7.97	1.93	7	14	...
Mandeville P.W.D.	8.31	1.75	24	16	10.60
Marshalls Pen	...	...	...	...	9.39
Ulster Spring P.W.D.	5.83	.91	11	12	...
Troy	6.08	1.08	29	8	...
Windsor Pen	8.56	2.52	22	15	9.47
Balaclava P.W.D.	6.43	1.83	29	10	...
Elim	13.14	2.48	20	10	...
Appleton	6.95	1.30	28	17	11.48
Maggotty P.W.D.	8.20	1.63	6	19	...
Spring Vale	9.92	2.06	27	13	11.86
Maroon Town	18.10	2.80	14	14	13.80
Kempshot	...	...	...	...	9.46
Kepp	10.81	2.57	29	18	11.14
Kew Park	...	...	..	...	11.67
Hazelymph	11.85	2.21	28	18	12.01
King Gate	6.52	1.60	30	13	...
Windsor Forest	...	...	...	...	13.53
Chester Castle	...	...	...	...	11.73
Darliston P.W.D.	15.86	2.74	25	18	...
Whithorn, P.W.D.	8.94	2.70	31	21	...
New Galloway	8.48	2.70	31	14	...
Lethe Bridge	9.81	1.60	30	16	...
Copse	10.34	3.35	25	17	10.82
Cacoon Castle	11.32	2.50	28	16	10.66
Golden Grove	...	...	...	...	12.34
Great Valley	15.68	3.23	26	16	14.38
Brownsville	17.61	4.03	26	22	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	11.79
Morgan's Bridge P.W.D.	6.97	.97	26	20	...
King's Valley	8.85	1.75	26	14	11.41
Abingdon	...	...	...	...	9.19
Means	10.56	...	...	...	11.42
Southern Division.					
Morant Point L.H. P.W.D.	5.00	1.80	15	17	5.62
Morant Bay P.W.D.	8.12	2.76	13	18	...
Lyssons	...	...	...	...	...
Easington P.W.D.	7.89	1.72	12	10	...
Abbey	...	...	...	...	9.00
Halberstadt	...	...	...	...	5.57

Southern. Division, *contd.*	August. 1897. Total Fall.	Greatest fall in 24 hours. Amount	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Bull Bay P.W.D.	...	...	...	...	...
Gordon Town	4.26	1.06	23	13	...
Hope Gardens	4.82	1.20	24	12	7.23
Hope Reservoir	...	...	...	...	7.23
Cherry Garden	5.32	1.07	24	14	9.19
King's House	5.95	2.35	24	9	7.31
Cavaliers	...	...	...	...	...
Shortwood	7.14	1.86	24	12	...
Monaltrie	4.05	1.31	24	15	5.93
Halfway-Tree P.W.D.	3.64	1.12	24	8	...
Camperdown	...	...	...	...	...
Public Works Office Kn.	2.13	.60	12	8	5.05
Plumb Point L. H.	...	...	...	...	4.29
Ferry P. W. D.	2.59	.95	24	8	...
Caymanas	...	...	...	...	6.34
Spanish Town P. W. D.	1.39	.57	12	5	5.75
Windsor Park	...	..	...	...	2.95
Hog Hole Pen P.W.D.	1.63	.45	28	6	5.79
Old Harbour P.W.D.	6.80	1.71	12	7	3.77
Somerset Hall	5.17	1.50	12	8	..
May Pen P.W.D.	4.02	.98	12	11	...
Amity Hall	2.32	1.00	15	5	...
Hermitage	3.15	.80	1	5	...
Denbigh	4.05	1.05	12	7	5.03
Yarmouth P.W.D.	.63	.27	12	3	...
Victoria Town P.W.D.	4.75	1.10	12	11	...
Stone's Hope	5.71	1.18	1	13	6.44
Newport P.W.D.	4.50	1.30	12	8	...
Alligator Pond P.W.D.	3.37	1.04	29	5	..
Southfield	1.77	.57	27	8	...
Potsdam	2.27	.58	20	9	5.43
Long Hill	8.10	2.03	24	11	6.60
Pepper	...	...	...	...	7.06
Torrington P.W.D.	2.30	.57	20	11	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	13.85	3.03	20	12	7.42
Holland	8.55	2.00	20,28	14	...
Black River P.W.D.	4.34	1.80	20	15	5.89
Spring Hill	6.01	2.00	20	9	...
Whitehall	...	...	...	...	...
Font Hill	...	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	7.98	1.22	29	15	...
Mount Edgecombe	6.90	1.22	19	20	6.02
Sweet River	8.87	1.52	31	15	7.68
Cornwall	7.00	1.95	31	16	...
Windsor, Sav.-la-Mar	4.70	1.49	11	12	7.04
Sav.-la-Mar P.W.D.	5.70	1.63	25	11	...
Blackheath	...	...	...	...	...
Retreat	8.44	2.80	25	12	...
Negril Pt. Lighthouse	6.71	1.98	25	18	...
Means. ...	5.33	...	...	...	6.29

Comparative Table of Rainfall.
(*Based upon the "Average" Stations only.*)

	August. 1897. In.	Average. In.
North Eastern Division	6.11	8.75
Northern "	4.04	4.87
West Central "	10.56	11.42
Southern "	5.33	6.29
Means	6.51	7.83

The greatest monthly fall, viz., 18.10 ins. was recorded at Maroon Town in the West central division, and the least fall, viz. 0.63 ins. was recorded at Yarmouth P.W.D. in the Southern division. The greatest fall in 24 hours was 5.32 ins. at Shrewsbury on the 15th, in the North eastern division. The greatest number of days on which rain fell at any one place was 26, at Fellowship in Portland. Eight stations had in 24 hours falls of between 3 and 5 ins., and but one station was in excess of these.

The mean approximate rainfall as arrived at on the 8th Sept., was 6.68 ins. This result was obtained from 48 stations with "averages" The result now published in the Comparative Table shows 6.51 ins. as compared with an average of 7.83 ins.

From this result it will be seen that the rainfall for August was thus one and a third inches short or 17 per cent. below the average.

The following will give the percentage relation between the means and the averages for each Division :—

North Eastern division—30 per cent, below the average
Northern " 17 " " " "
West Central " 8 " " " "
Southern " 15 " " " "

The following notes have come to hand :—

N. E. Division.

Moneague.—The weather during August was intensely hot, though nights fairly cool. Heavy rains have fallen in the district near Moneague, though only one heavy rainfall actually fell in Moneague; this happened on the 26th when 2.45 ins. fell. A strong breeze also, with vivid lightning. A cocoanut tree was struck and destroyed close to Lake House.

Gayle.—The last two weeks dry.

Rio Hoe Pen.—Good showers for the month.

Port Antonio.—Very strong blow on night of 25th accompanied with sharp thunderstorm.

N. Division.

Seville Estate.—Severe thunderstorm a.m. 31st.

Round Hill.—Rains fairly well distributed.

Fairfield.—Good growing rains, and fairly well distributed.

Brown's Town P.W.D.—Weather sultry.

St. Ann's Bay.—Thunderstorm to the east and south on 26th also on the 31st when 1.17 ins. fell in about 40 minutes. Mean 7 a.m. temp. in the shade 81°, and at 3 p.m. 86°. Mean 7 a.m. Bar. 29.961, and at 3 p.m. 29.913, Corr. to 32°, sea-level and Lat. 45°.

Dry Harbour.—Heavy thunder on the 30th.

W. C. Division.

Copse.—The fine showers have entirely exterminated the caterpillars. Severe thunderstorm during month, and high winds, no damage done.

Farm.—Beautiful growing weather, very poor pimento, but good coffee crops.

Elim.—We had quite a hurricane on the 1st, trees were rooted up, a lot of damage was done.

S. Division.

Hermitage.—Very hot and sultry the whole month.

Sav.-la-Mar.—Rain attended with thunderstorm, generally between 12 and 3 o'clock.

Below will be found a statement of the Rainfall recorded during the year, compared with the average fall for the months in question :

		1897.	Average.
		ins.	ins.
January	...	0.82	4.09
February	...	0.69	2.64
March	...	1.82	3.01
April	...	7.52	4.61
May	...	11.57	9.57
June	...	5.23	8.21
July	...	5.87	5.20
August	...	6.51	7.83
	Totals	40.03	45.16

These results show that there is now a deficiency of 5.13 inches or about 11 per cent. below the average.

BAROMETRICAL DEPRESSION.

There were no depressions within barometrical range in August. The barometer for the month was three hundredths of an inch above the mean, and on no day during the month was it more than four hundredths of an inch below the mean.

J. F. BRENNAN.

Weather Office, Sept. 21st 1897.

No. 218.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1897.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour. 7 a.m.		Wind: Direction (from) and miles per hour. 3 p.m.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.932	29.871	76.2	86.8	89.7	75.3	14.4	70.2	82	74.3	67	0.00	96	N	2	SSE	8
2	.969	.892	76.8	87.5	91.9	74.5	16.8	70.3	81	71.6	59	0.00	69	Z	0	SE	5
3	.944	.856	75.8	89.4	90.5	73.8	16.7	68.8	79	73.4	59	0.00	84	N	1	N	3
4	.894	.847	77.1	89.1	90.5	74.3	16.2	70.0	82	71.5	56	0.00	112	N	1	SE	8
5	.917	.863	79.3	88.6	90.7	76.7	14.0	74.1	84	72.2	59	0.00	131	N	1	SE	11
6	.946	.909	76.5	83.4	89.4	73.6	15.8	68.2	76	71.4	67	0.00	82	N	1	NE	1
7	.954	.900	76.5	84.4	90.4	74.0	16.4	71.3	84	72.4	67	0.00	66	N	2	SE	7
8	.962	.900	75.6	83.1	89.5	74.3	15.2	69.5	81	68.7	62	0.13	71	Z	0	Z	0
9	.944	.910	76.5	85.3	90.3	73.4	16.9	72.1	86	72.9	67	0.00	98	Z	0	SE	5
10	.958	.892	78.3	88.6	90.6	74.6	16.0	69.5	75	72.5	59	0.00	125	N	2	SE	9
11	.936	.861	77.8	85.7	89.4	74.1	15.3	69.5	76	71.3	62	0.37	89	N	2	S	6
12	.912	.889	81.8	86.5	88.1	74.0	14.1	74.1	78	68.6	55	0.00	115	SE	5	SE	9
13	.926	.859	74.1	88.3	91.2	72.8	18.4	69.3	85	74.2	63	0.00	66	N	1	S	4
14	.940	.904	75.5	79.2	89.6	73.3	16.3	69.0	80	75.3	90	0.42	64	N	2	N	3
15	.955	.898	73.7	87.7	88.7	71.8	16.9	69.2	86	73.8	64	0.00	101	N	1	S	5
16	.961	.909	76.6	81.2	89.7	74.1	15.6	70.6	82	78.7	92	1.31	41	N	2	Z	0
17	.933	.871	74.6	84.4	86.8	72.9	13.9	74.1	98	73.1	69	0.00	41	N	1	SE	5
18	.903	.831	75.6	86.1	88.9	72.9	16.0	70.8	85	74.9	69	0.00	62	N	1	S	4
19	.912	.865	76.1	80.7	89.8	73.7	16.1	71.5	86	71.6	74	0.00	50	N	3	N	3
20	.913	.852	75.0	87.4	89.9	73.3	16.6	68.5	80	74.4	66	0.00	94	N	2	S	7
21	.905	.845	76.2	87.3	89.5	74.1	15.4	69.5	80	74.5	65	0.00	82	N	1	S	5
22	.894	.856	77.3	80.7	89.5	75.4	14.1	72.4	85	70.1	70	0.00	74	N	1	N	3
23	.954	.880	76.4	86.1	87.0	75.2	11.8	72.6	88	73.6	67	0.05	45	Z	0	SE	4
24	.956	.912	75.5	84.7	89.5	73.8	15.7	71.4	87	74.0	70	0.12	58	Z	0	E	3
25	.930	.883	74.2	79.7	80.5	72.7	7.8	70.9	89	73.7	82	0.27	54	Z	0	Z	0
26	.869	.892	75.4	83.5	85.4	74.0	11.4	71.4	87	74.4	74	4.67	75	N	2	SE	4
27	.856	.824	78.6	83.4	85.3	70.7	14.6	76.7	95	76.2	79	0.10	48	E	2	SE	4
28	.873	.829	75.8	85.3	86.3	75.1	11.2	73.6	93	73.6	68	1.15	51	NE	1	SE	6
29	.910	.848	76.6	84.0	86.1	75.3	10.8	73.0	89	74.7	74	0.35	58	N	1	SE	7
30	.958	.868	76.2	84.7	88.6	74.2	14.4	72.1	87	73.5	69	0.00	68	N	1	SE	8
Means.	29.927	29.873	76.4	85.1	88.8	73.9	14.8	71.1	84	73.2	68	...	74.7	N	1.3	SE	4.9
Total	...		...	...	...	...	...	...	...	...	...	8.84					

19
1898
WEATHER BUREAU

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky). 7 a.m. Lower.	7 a.m. Middle.	7 a.m. Upper.	3 p.m. Lower.	3 p.m. Middle.	3 p.m. Upper.	Weather: Remarks, &c.
1	...	1 Cum.	1 Cir.	...	...	8 Cir. s.	Fine a.m. Cloudy p.m.
2	...	1 Cum. E	8 Cir.	...	2 Cum. SE	5 Cir. s.	Fair a.m. Cloudy p.m. T. to N at 3.30 p.m.
3	...	1 Cum. E	1 Cir.	5 Str. c. SE	..	...	Fine a.m. Fair p.m.
4	...	1 Cum. SE	...	...	1 Cum SE	...	Fine but hazy a.m. Fine p.m.
5	...	1 Cum. SE	9 Cir	...	1 Cum. SE	3 Cir.	Cloudy a.m. Fair p.m.
6	...	1 Cum. SE	9 Cir	1 Str.	1 Cum. SE	6 Cir. s. SE	Cloudy. T. to N at 2.14 p.m.
7	...	...	4 Cir	1 Str.	2 Cum. SE	6 Cir. s SE	Fair a.m. Cloudy p.m. T. to N at 3 p.m.
8	...	1 Cum.	8 Cir s.	1 Str. c. 1 Alt. s.	1 Cum.	6 Cir. s.	Cloudy. Squall from SE 12.37 to 12.50 p.m. Squall from SE at 5 to 5.27 p.m. R. from 5.20 to 5.39 p.m.
9	1 Str.	1 Cum. 8 Alt. Cum.	...	1 Str.	1 Cum.	8 Cir. s.	Cloudy.
10	...	1 Cum.	8 Cir.	...	1 Cum. SE	8 Cir.	Cloudy.
11	...	...	9 Cir.	4 Str. c. 1 Str.	2 Cum.	2 Cir. s.	Cloudy. T. to N at 4.15 p.m. R. at 5.8 to 5.54 p.m. with T. and L.
12	...	1 Cum. SE	8 Cir.	3 Str. cum.	2 Cum.	3 Cir.	Cloudy. L. during early part of night.
13	...	...	9 Cir.	3 Str. c. SE	1 Cum. SE	5 Cir.	Cloudy. L. during early part of night with T.
14	...	...	6 Cir	3 Str. c. SE	1 Cum. SE	4 Cir. s. SE	Cloudy. T. to N at 1.57 p.m. R. at 2.1 to 2.24 p.m. R. from 3.54 to 4.6 p.m., and from 4.50 to 5.17 p.m. with T.
15	...	1 Cum.	...	...	1 Cum. SE	...	Fine.
16	...	1 Cum.	7 Cir.	9 Str. c.	...	...	Cloudy. R. at 12.37 to 15.6 p.m. T to SE at 1.20 p.m. R. at 3.21 to 4.9 p.m., and from 4.37 to 5.6 p.m.
17	1 Str.	...	8 Cir.	8 Str. c. SE	...	2 Cir. s. SE	Cloudy.
18	...	...	6 Cir. s.	3 Str. c. 1 Alt. s.	...	6 Cir. s.	Cloudy.
19	...	...	9 Cir. s.	4 Str. c.	...	4 Cir. s	Cloudy.
20	...	...	...	...	1 Alt. Cum. SE 1 Cum. SE	1 Cir. s.	Fine.
21	...	1 Cum.	4 Cir.	...	1 Cum. SE	1 Cir.	Fair a.m. Fine p.m. T. and L. during early night.
22	...	...	2 Cir.	1 Str. c. 3 Alt. s.	1 Cum.	3 Cir.	Fine but hazy a.m. Cloudy p.m. T. to N at intervals from 1.15 to 2.5 p.m.
23	7 Alt. s. 1 Str. c.	...	2 Cir s.	...	1 Alt. Cum. 1 Cum SE	1 Cir. SE	Raining a.m. Fair p.m. Light R. from 6.48 to 7.32 a.m., and at intervals 8.47 a.m.
24	...	2 Cum. E	...	1 Str. c.	1 Cum	1 Cir. s.	Fine a.m. Cloudy p.m. L. R. at 4.37 to 5.12 p.m. and from 7.40 to 8.7 p.m.; also from 9 to 9.30 p.m.
25	5 Str. c.	1 Cum.	4 Cir s.	8 Str. c.	...	1 Cir. s.	Cloudy. R. at 9.56 to 10.25 a.m. and from 11.57 a.m. to 12.55 p.m. R. from 4.11 to 4.54 p.m. Squall from E at 8.35 p.m.
26	1 Str.	5 Alt. c	2 Cir. s.	3 Str. c. 7 Nim.	...	...	Cloudy a.m. Raining p.m. Light showers during forenoon. Heavy R. from 12.47 to 5.5 p.m. with squalls from SE. T. to SE at 2.22 p.m. with L. R. at 4.17 with intervals to 6.7 p.m.
27	...	1 Cum. SE	6 Cir. s.	2 Str. c. SE	1 Cum SE	5 Cir. s.	Cloudy. R. during early morning and from 6.35 to 6.46 a.m.; also from 9.39 to 9.47 a.m. T. to N.W. at 8.10 p.m. with lightning.
28	2 Alt s. 6 Str. c.	...	1 Cir. s.	...	1 Cum SE	9 Cir. s.	Cloudy. R. at 9.40 with intervals to 11.10 a.m. T. to SE at 10.35 a.m.. Squall from SE at 10.40 a.m.
29	1 Alt. s. 4 Str. c.	...	5 Cir s.	...	2 Cum SE	2 Cir. s.	Cloudy a.m. Fair p.m. Light R. during early morning. R. from 7.35 to 8.53 a.m.
30	...	2 Cum.	1 Cir	...	2 Cum SE	6 Cir. s. SE	Fine a.m. Cloudy p.m.
Means	1.0 ...	1.0 ...	4.4 ...	2.5 ...	1.0 ...	3·5 ...	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Extreme Temperature. Max.	Date.	Min.	Date.	Range
	ft.	In.	In.	°	°	°	°	°	°		°		°
Morant Point L. H.	8	29.913	29.877	83.0	86.2	...	...	...	...	...	...	...	...
Negril Point L. H.	33	...	...	...	..	...	...	...	...	...	...	...	...
Kingston ...	50	29.927	29.873	76.4	85.1	88.8	73.9	14.8	91.3	2	70.7	27	20.6
King's House ...	400	...	...	73.4	84.2	89.6	67.3	22.3	97	4	62	3 & 7	35
Castleton Gardens...	580	29.595	29.571	70.9	81.0	86.7	67.3	19.4	92	10	62	26	30
Hope Gardens ...	600	29.24	29.23	73.2	82.8	87.9	69.8	18.1	94	10	67	15	27
Stony Hill Refty. ...	1,400	...	...	73.1	78.6	85.2	72.2	13.0	87	4*	68	8*	19
Hill Gardens ...	4,907	25.359	25.346	62.9	66.5	70.0	59.5	10.5	74	10	58	4*	16

The bar. pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°., and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

Station.	Elevation.	Dewpoint and Humidity. 7 a.m.		3 p.m.		Rainfall.	Wind per diem.	Wind: direction (from) and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud. Lower, Middle, and Upper. 7 a.m.			8 p.m.		
	ft.	°		°		In.						L.	M.	U.	L.	M.	U.
Morant Point L.H.	8	...	...	...	...	5.62	...	Var.	...	Var.	...	2.9	2.7	1.5	3.3	2.2	1.2
Negril Point L. H.	33	...	...	...	...	2.53	...	...	...	...	...	...	...	...	...	...	...
Kingston ...	50	71.1	84	73.2	68	8.84	74.7	N	1.3	SE	4.9	1.0	1.0	4.4	2.5	1.0	3.5
King's House ...	400	70.7	93	77.7	82	10.40	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens...	580	68.2	88	74.7	82	17.15	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	69.5	90	74.1	74	10.43	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	69.5	88	75.0	89	16.06	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4.907	58.9	86	68.6	89	11.32	19.3	Ely	16.5	Ely	2.8	...	...	...	...	...	...

The miles of wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the lower clouds are for the most part fracto-stratus; the middle clouds, cumulus; and the upper clouds, cirrus, or cirro-stratus

* And several other days.

The Health of Kingston.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

		September. 1897.	Average.
Infantile diseases not otherwise specified	...	18	11
Lung diseases	...	12	12
Fever and Malaria	...	21	7
Dysentery and Diarrhœa	...	7	2
Various	...	17	47
Total	...	75	79

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Min.	Temp.	Rain.	Remarks.	Observer's Initial
1897.		°	°	°	in.		
January 31st ...	10.30 a.m.	70.9	38.8	61	4.30	Fine.	D. W.
February 27th ...	3.30 p.m.	70.9	40.8	51	0.90	Fine, clear, high wind from N.E.	W. H.
March 31st ...	2.30 p.m.	67.9	39.8	61	3.10	Fine, but cloudy.	W. H.
April 30th ...	10 a.m.	70.9	42.8	60	10.08	Misty.	D. W.
May 31st ...	12.30 p.m.	66.9	42.8	64	11.10	Cloudy.	D. W.
June 30th ...	10.00 a.m.	70.9	44.8	65	6.03	Cloudy.	D. W.
July 31st ...	9.15 a.m.	69.9	41.8	54	5.15	Light rain.	D. W.
August 31st ...	12.30 p.m.	68.9	44.8	51	8.50	Raining.	D. W.
September 30th ...	12.10 p.m.	66.9	40.8	53	14.10	Cloudy.	D. W.

Rainfall for September, 1897.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to the Tables published in January, 1892, as No. 124 (A) of the preceding series of Reports, Vol. II. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island: embracing the four divisions.

North-Eastern Division.	September. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	10.39	4.10	24	11	12.58
Manchioneal P.W.D.	13.83	1.80	26	24	...
Bath P. W. D.	17.73	1.96	25	24	...
Moore Town P. W. D.	18.79	4.66	26	15	...
Mt. Ephraim	...	...		...	...
Port Antonio P. W. D.	16.81	3.62	26	22	9.67
Fellowship P. W. D.	17.20	4.55	26	22	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	3.56	1.40	26	13	...
Cedar Valley P. W. D.	18.02	5 36	26	15	...
Green Vale	...	...	...	...	...
Cinchona Plantation	11.32	3.70	27	...	9.79
Resource	...	...	...	...	...
Buff Bay P. W. D.	14.18	3.62	15	12	...
Cold Spring	...	...	...	...	...
Hardware Gap P.W.D.	13.53	1.85	14	17	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	1.72	.97	25	9	...
Stony Hill Rfty	16.06	4.10	26	17	9.85
Castleton Gardens	17 15	2.10	30	22	9.55
Lawrence's Tavern P. W. D.	11.51	1.40	26	17	...
Albany P. W. D.	9.02	5.40	15	12	...
Quebec	...	...	...	...	3.48
Richmond P. W. D.	6.68	1.36	26	20	...
Highgate P. W. D.	...	...	...	...	...
Gayle	9.40	2.30	12	9	6.05
Gayle P. W. D.	7.68	1.50	29	17	...
Rio Hoe	4.10	1.05	8	11	6.61
Unity Valley	7.13	2.47	30	15	7.27
Moneague P.W.D.	3.86	1.11	26	9	...
Claremont	...	...	...	...	...
Albion	5.79	1.12	26	13	6.84
Averham Park	4.66	.85	20	15	4.57
Ballintoy P.W.D.	6.62	2.38	11	14	...
Means	10.28	...	...	...	8.28
Northern Division					
Port Maria P.W.D.	2.75	.50	26	12	3.68
Ocho Rios P.W.D.	...	...	...	...	...
Drax Hall	4.19	1.38	12	11	4.25
St. Ann's Bay P.W.D.	4.31	.80	26	14	...
Seville	2.90	1.30	8	4	3.83
Richmond Estate	...	...	...	...	4.33
Llandovery	2.97	1.40	1	6	4.21
Brown's Town P.W.D.	4.63	1.05	25	13	...
Dry Harbour P.W.D.	4.32	2.00	24	9	...
Home Castle	4.39	.65	20	14	4.86
Richmond Pen	9.50	2.91	21	9	6.28
Mahogany Hall	8.05	2.10	20	12	5.95
Brampton Bryan	4.74	1.45	20	13	...
Bryan Castle	4.92	.88	26	12	...
Braco	3.18	1.04	20	8	3.76
Arcadia	4.90	1.49	20	11	4.38
Arcadia Great House	4.54	1.25	20	13	...
Harmony Hall	...	...	...	...	3.81
Lancaster	4.93	1.35	20	11	4.20
Vale Royal	6.01	1.65	20	10	4.66

Northern Division, *contd.*	September. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Colchis Pen	5.70	1.70	20	12	4.73
Hyde	6.79	1.38	20	14	6.38
Georgia	6.57	1.38	25	8	3.93
Long Pond	8.76	2.87	25	15	...
Steelfield	6.51	2.10	25	14	4.34
Oxford	6.85	2.10	25	12	4.04
Cambridge	10.98	3.04	25	16	4.22
Dry Valley	...	...	...	...	...
Lottery	7.14	1.20	21	14	4.55
Hampstead	17.15	3.60	26	11	...
Falmouth	4.50	...	...	...	3.39
Falmouth P.W.D.	5.13	1.33	20	14	...
Fontabelle	25.05	3.80	1	22	...
Martha Brae	...	...	...	...	...
Holland Pen	6.43	1.10	20	11	3.47
Pembroke	...	...	...	...	4.53
Golden Grove	...	...	...	...	6.19
Green Park	11.45	2.37	15	19	4.30
Tilston	...	...	...	...	5.77
Weston Favell	...	...	...	...	8.12
Orange Valley	...	...	...	...	3.78
Kent	...	...	..	...	4.70
Dundee	...	...	...	...	4.80
Phœnix	7.30	1.20	26	20	7.23
Gale's Valley	...	...	...	...	6.75
Greenwood	...	...	...	...	4.59
Canaan	...	...	...	...	...
Lima	...	...	...	...	...
Content	...	...	...	...	...
Bellfield	9.68	2.04	24	18	...
Guilsbro'	...	...	...	...	7.52
Tryall	...	...	...	...	...
Leogan	...	...	...	...	5.73
Success	...	...	...	...	...
Cinnamon Hill	...	...	...	...	4.09
Rose Hall	...	...	...	...	5.06
Running Gut	...	...	...	...	4.22
Spring	...	...	...	...	...
Ironshore	...	...	...	...	4.65
Friendship	...	...	...	...	5.43
Providence	...	...	...	...	...
Montego Bay P.W.D.	17.02	1.52	4	21	...
Catherine Hall	...	...	...	...	6.89
Catherine Mount	...	...	...	...	6.05
Fairfield	15.30	2.10	4	22	6.62
Anchovy	...	...	...	...	8.52
Round Hill	9.63	2.08	26	19	5.54
Tryall	...	...	...	...	6.70
Sandy Bay P.W.D.	9.23	2.00	5	15	...
Lucea P.W.D.	14.40	3.14	11	21	...
Orange Cove	..	...	...	...	7.01
Prospect Estate	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	9.87	2.72	26	16	6.39
Linstead P.W.D.	9.21	1.57	14	9	7.99
Wakefield	...	...	...	...	...
Point Hill P.W.D.	10.45	2.82	29	16	...
Harker's Hall P.W.D.	17.66	3.15	7	23	...

Northern Division, *contd.*	September, 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Chapelton P.W.D.	8.98	2.07	29	17	7.65
Danks Savoy	8.65	2.33	26	12	...
Mears P.W.D.	12.97	2.30	26	22	...
Cave Valley	7.55	1.19	26	13	7.68
Means	6.95	...	...	...	5.09
West Central Division.					
Mocho P.W.D.	13.28	4.75	27	19	...
Baillieston P.W.D.	8.59	1.80	26	17	...
Farm Plantation	11.64	1.90	26	20	8.83
Brockenhurst Pln.	...	...	...	...	10.40
Christiania P.W.D.	6.90	1.30	26	19	...
Kendal P.W.D.	9.57	2.10	22	16	...
Mandeville P.W.D.	14.00	2.40	26	23	10.07
Marshalls Pen	...	...	...	...	8.43
Ulster Spring P.W.D.	10.99	1.80	6	18	...
Troy P.W.D.	11.49	2.55	2	13	...
Windsor Pen	12.44	2.05	22	22	10.18
Balaclava P.W.D.	8.65	1.94	2	15	...
Elim	20.78	5.82	9	13	...
Appleton	12.20	2.17	2	20	10.92
Maggotty P.W.D.	12.24	2.34	2	22	...
Spring Vale	13.32	1.65	11	20	10.49
Maroon Town	18.00	5.40	16	14	12.13
Kempshot	...	...	...	...	9.23
Kepp	8.58	1.42	7	23	11.44
Kew Park	11.90	2.25	25	21	10.90
Hazelymph	12.79	2.73	20	22	...
King Gate P.W.D.	9.76	1.55	28	16	...
Windsor Forest	...	...	...	...	11.41
Chester Castle	...	...	...	...	9.43
Darliston P.W.D.	15.40	2.72	22	24	...
Whithorn, P.W.D.	12.39	1.82	20	26	...
New Galloway	12.67	1.65	20	19	...
Lethe Bridge	16.01	2.50	1 & 2	19	...
Copse	16.87	2.85	11	26	9.75
Cacoon Castle	16.36	2.63	11	19	9.52
Golden Grove	...	...	...	...	...
Great Valley	19.07	4.10*	11	25	...
Brownsville	21.45	3.24	11	28	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	10.83
Morgan's Bridge PWD.	6.74	.98	13	19	...
King's Valley	9.82	1.50	13	21	13.90
Abingdon	...	...	...	...	9.79
Means	13.19	...	...	...	10.74
Southern Division.					
Morant Point L.H. P. W.D.	6.62	2.24	26	22	8.49
Morant Bay P.W.D.	13.41	2.13	25	18	...
Lyssons	...	...	...	...	...
Easington P.W.D.	9.64	2.32	26	18	...
Abbey	...	...	...	...	8.34
Halberstadt	...	...	...	...	

* Gauge overflowed.

Southern. Division, *contd.*	September. Total Fall.	1897. Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Bull Bay P.W.D.	8.19	5.09	26	7	...
Gordon Town	10.70	3.84	26	14	...
Hope Gardens	10.43	4.38	26	15	6.54
Hope Reservoir	...	...	...	...	...
Cherry Garden	11.02	3.36	26	*	6.58
King's House	...	...	...	...	4.52
Cavaliers	...	...	...	...	...
Shortwood	11.92	4.17	26	21	...
Monaltrie	8.22	4.86	27	18	5.69
Halfway-Tree P.W.D.	8.30	5.45	26	14	...
Lunatic Asylum ...	8.76	5.50	26	11	...
Kingston Gardens ...	7.91	4.59	26	...	...
Public Works Office Kn.	8.84	...	...	...	4.31
Plumb Point L. H.	6.21	3.76	26	11	3.92
Ferry P. W. D.	6.43	3.04	26	10	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	7.97	4.15	26	12	5.21
Windsor Park	7.53	3.95	26	11	5.97
Hog Hole Pen P.W.D.	8.63	3.60	...	12	6.55
Old Harbour P.W.D.	8.87	3.07	26	15	6.47
Somerset Hall	11.17	3.40	11	11	...
May Pen P.W.D.	13.91	4.51	26	14	...
Amity Hall	9.36	2.00	26	11	...
Hermitage	11.53	3.37	29	11	...
Denbigh	12.65	4.40	26	10	5.39
Yarmouth P.W.D.	11.96	5.50	29	9	...
Victoria Town P.W.D.	...	...	...	...	...
Stone's Hope	10.25	1.97	26	22	9.06
Newport P.W.D.	9.12	1.34	20	15	...
Alligator Pond P.W.D.	7.97	1.95	8	10	...
Southfield P.W.D.	3.16	.82	13	9	...
Potsdam	3.74	1.16	26	8	7.45
Long Hill	4.10	.75	29	9	9.47
Pepper	4.79	1.47	22	10	7.99
Torrington P.W.D.	4.19	1.02	26	10	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	8.79	1.86	16	17	...
Holland	13.93	2.55	2	19	...
Black River P.W.D.	6.19	1.48	16	15	5.27
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	...	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	9.10	1.55	7	17	...
Mount Edgecombe	6.32	1.70	16	18	7.98
Sweet River	7.37	1.12	4	19	7.80
Cornwall	10.15	2.00	13	18	...
Windsor, Sav.-la-Mar	7.28	1.30	13	20	...
Sav.-la-Mar P.W.D.	6.22	1.32	13	16	6.96
Blackheath	...	...	...	...	...
Retreat	9.75	2.00	22	12	...
Negril Pt. Lighthouse	2.53	.71	22	12	...
Means. ...	7.68	...	...	...	6.69

* Some number more than 18.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	September. 1897. In.	Average. In.
North Eastern Division	10.28	8.28
Northern "	6.95	5.09
West Central "	13.19	10.74
Southern "	7.68	6.69
Means	9.52	7.70

The greatest monthly fall, viz., 25.05 ins. was recorded at Fontabelle in Trelawny and the least fall, viz. 1.72 ins. was recorded at Annotto Bay. The greatest fall in 24 hours was 5.82 ins. at Elim on the 9th. The greatest number of days on which rain fell at any one place was 28 at Brownsville in Hanover. Thirty stations had in 24 hours falls of between 3 and 5 ins., and seven had falls of between 5 and 7 inches in 24 hours.

The mean approximate rainfall as arrived at on the 7th Oct., was 9.11 ins. This result was obtained from 41 stations with "averages." The result now published in the Comparative Table shows 9.52 ins. as compared with an average of 7.70 ins.

From this result it will be seen that the rainfall for September was 24 per cent. above the average in the N.E. Division, 37 per cent. above in the N. Division, 23 per cent. above in the W.C. Division, and 15 per cent above in the S. Division and that the mean for the island was 24 per cent. above the average. While this is the case there are a few stations which had less than their average rain viz: in the N.E. Division, Hordley in the extreme east, and three stations near each other—Rio Hoe, Unity Ville and Albion—in St. Ann; in the N. Division, six stations in the eastern portion; in the W.C. Division Kepp and King's Valley; and in the S. Division Morant Pt. L. H., in the extreme East, while Potsdam, Long Hill and Pepper in St. Elizabeth and three stations in Westmoreland were short of their average. On the other hand, amongst the majority which were all in excess of their average, we find three in the N. Division viz: Cambridge and Green Park in Trelawny and Fairfield in St. James, which had falls of more than twice their average, and one in the S. Division viz: Denbigh in Charendon which also had more than twice its average. A reference to the columns containing the greatest falls in twenty-four hours shows that the heavy rain on the 26th September was very general all over the island. With the exceptions of Westmoreland and St. James there was no parish in which at some stations it was not the heaviest fall in the month. This fall was heaviest in the South-Eastern portions of the island, over five inches falling at Halfway Tree, while half an inch only was recorded at Port Maria and one inch at Torrington on the Santa Cruz mountains; in each case however the fall was still the heaviest on any day in the month.

The following notes have come to hand :—

N. E. Division.

Castleton.—The Wag River was higher on the night of the 26th than I have seen it.—(W. J. Thompson).

Gayle.—Very reasonable. Cooler than usual for September. Frequent thunder.—(J. C. Melville).

Rio Hoe.—Good showers for the month of September.—(Jno. Smallhorn).

Moneague.—Very hot, close, and much Thunder and Lightning. The rains have been heavy, though very partial, a small fall in Moneague, but frequently very near Moneague exceedingly heavy showers fall. Heavy rains at Pedro River and did some damage to main road. Heavy rain on 21st between Hopewell and Walker's Wood with strong gale which levelled bananas, and broke down trees, but lasted only about 30 minutes.

N. Division.

St. Ann's Bay.—Hot and close. Average temperature indoors 7 a.m. 82°, 3 p.m. 84° Bar., pressure after being reduced to the standard of Kew, (for instrumental error) of Temp. 32°and of mean sea level and of gravity at lat. 45°, 7 a.m. 29.920., 3 p.m. 29.874.—(J. F. Brennan).

Brown's Town.—Thunder Storms during early part of month. A few cocoanut trees were struck by Lightning.

Green Park.—First time since 21st December, 1896, that we have had any rain exceeding 1.10 iches. This month have had two falls over two inches.—(H. D. Carroll).

Fontabelle, (Trelawny).— The rainfall for September 1897 has been the largest here on record for one month.—(C. C. Plunkett).

Fairfield, (St. James).—Exceptionally heavy rainfall for September.

Round Hill, (Hanover).—Fine reasonable rains for month.

W. C. Division.

Farm.—Regular rain nearly the whole month.

Spring Vale, (Trelawny).—On the 16th September the river was very high shutting off traffic for days, yet only 20 parts of rain fell here on that day. At Maroon Town, about 5 miles away from here, I hear nearly 6' of rain fell.—(H. Whiting).

Copse, (Hanover).—Heavy thunder storms throughout the month.

Brown's Ville, (Hanover).—On the 11th a very severe electrical storm raged for about two hours. A bad storm was also experienced on the 3)th August, when the Church here was struck.

Last September (1896) the fall was 21.39 so that this year is just a little in advance.—John F. Gartshore.

S. Division.

Monaltrie.—Dr. Cargill sends the following note:—During the second shower on Sunday, [the 26th] the road from Monaltrie to Cross Roads was like a river, the servant boys from the pens *swam* about, the water being up to their hips.

Hermitage, (Vere).—The whole month has been intensely hot and sultry.—(R. Bruford).

Peters Ville, (Westmoreland).—The month has been very hot.—(Thos. S. McNeel).

Sav.-la-Mar.—On Sunday evening the 26th the rain was accompained by very heavy winds. The tide was very high, it flooded to a certain extent the whole of the lower portion of the town of Sav.-la-Mar. The Telegraph line between Sav.-la-Mar and White House was damaged by the falling of trees blown down by the wind.—D. F.)

Below will be found a statement of the Rainfall recorded during the year, compared with the average fall for the months in question:

		1897.	Average.
		ins.	ins.
January	...	0.82	4.09
February	...	0.69	2.64
March	...	1.82	3.01
April	...	7.52	4.61
May	...	11.57	9.57
June	...	5.23	8.21
July	...	5.87	5.20
August	...	6.51	7.83
September	...	9.52	7.79
	Totals	49.55	52.86

These results show that up to the end of September there was a deficiency for the current year of a little over three inches or between 5 and 6 per cent. below the average. With the exception of the end of May last there has been no time in the current year when the percentage of deficiency has been so small and with the heavy "season" rains now being experienced the year bids fair to end with at least an average total fall, the very trying drought of the first part of the year being counterbalanced by the rains of the latter portion.

Barometrical Depressions.

There were no cyclonic depressions within barometrical range in September although the Pilot Chart for October records two small cyclones in the Gulf of Mexico, one on the 11th and 12th travelling North-West and another on the 19th and 20th travelling Eastward. The barometer in Kingston was above the mean for the month and at no time was it as much as half-a-tenth below the mean.

Robt. Johnstone.

Kingston, October 1897.

Note. This report was, with the exception of the detailed report of the Kingston observations, completed about the middle of October, but had to await the return of the Kingston Register from the Circuit Court Office. R. J. 5.11.97.

Corrigendum.—The Rainfall for July, at Retreat, Westmoreland, was 9.85 instead of 9.00 inches as recorded in the Weather Report.

No. 219.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1897.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour. 7 a.m.		Wind: Direction (from) and miles per hour. 3 p.m.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.945	29.822	73.7	86.7	88.6	72.9	15.7	69.9	88	74.7	68	0.17	37	N	1	S	7
2	.886	.831	74.0	86.9	89.4	72.0	17.4	71.8	93	74.3	72	0.00	33	Z	0	S	5
3	.864	.840	74.0	86.1	88.6	72.6	16.0	69.2	85	73.9	67	0.00	21	N	1	S	3
4	.888	.832	74.5	87.3	88.5	72.2	16.3	70.7	88	74.0	65	0.00	25	Z	0	S	3
5	.951	.852	75.7	86.5	88.5	72.3	16.2	70.4	83	70.4	59	0.00	63	N	1	S	5
6	.959	.927	77.6	85.4	87.9	73.1	14.8	67.3	71	70.1	60	0.04	83	N	2	S	4
7	.963	.863	73.7	87.3	90.9	72.1	18.8	68.9	84	70.1	56	0.70	33	N	1	SE	10
8	.974	.875	74.4	81.3	82.3	72.0	10.3	73.4	97	74.2	82	1.70	24	Z	0	S	3
9	.951	.847	73.3	79.7	81.9	72.1	9.8	72.4	97	72.5	79	0.00	18	N	1	E	3
10	.854	.807	72.9	77.5	86.2	71.2	15.0	71.0	94	75.6	94	0.24	19	Z	0	E	2
11	.850	.792	72.8	81.6	83.4	71.8	11.6	71.6	96	71.9	73	0.10	26	N	1	E	2
12	.905	.842	75.2	77.7	78.0	73.1	4.9	73.8	96	76.7	97	0.67	7	NE	1	Z	0
13	.919	.851	73.3	84.5	88.2	71.9	16.3	72.0	95	73.9	71	0.00	42	N	2	SE	7
14	.911	.840	75.6	82.4	89.5	73.2	16.3	70.6	85	71.4	70	0.00	33	N	1	N	2
15	.829	.765	75.5	79.4	85.8	74.2	11.6	72.4	90	74.2	85	1.52	39	N	1	SSW	10
16	.792	.744	72.6	80.5	83.2	70.9	12.3	71.7	97	74.8	83	6.58	80	Z	0	SE	10
17	.844	.800	74.3	75.4	80.4	72.8	7.6	73.4	95	74.2	96	2.06	65	E	3	ESE	2
18	.864	.837	78.2	74.2	79.5	72.7	6.8	73.5	86	72.3	94	2.33	78	SE	4	ESE	2
19	.896	.814	75.1	80.4	81.5	72.1	9.4	73.6	95	75.2	84	2.45	34	Z	0	SE	4
20	.848	.807	76.2	74.6	81.5	73.6	7.9	73.0	90	73.9	98	3.35	37	ESE	3	SW	4
21	.864	.821	75.1	78.7	83.4	72.3	11.1	72.5	95	70.9	77	0.00	15	NW	2	Z	0
22	.912	.858	72.5	80.9	84.7	71.8	12.9	70.6	94	72.3	75	0.00	13	Z	0	Z	0
23	.918	.825	72.7	85.6	87.2	71.4	15.8	70.4	93	71.3	63	0.00	33	N	1	SE	3
24	.868	.792	72.3	82.7	86.8	70.3	16.5	70.0	92	71.7	70	0.05	43	Z	0	S	2
25	.820	.805	75.7	75.4	80.4	72.8	7.6	73.3	92	74.2	96	1.44	11	Z	0	Z	0
26	.813	.779	74.0	81.6	84.1	71.3	12.8	73.5	98	75.1	81	0.05	6	Z	0	Z	0
27	.834	.809	72.1	85.2	86.3	71.3	15.0	70.8	93	74.0	69	0.00	14	Z	0	S	1
28	.866	.812	72.8	84.6	86.9	71.9	15.0	70.4	92	71.6	65	0.00	18	Z	0	S	3
29	.878	.810	74.4	85.5	87.8	73.3	14.5	72.3	92	70.3	61	0.00	15	N	1	SSE	2
30	.883	.847	73.3	85.7	87.3	71.8	15.5	69.6	88	73.7	68	0.00	14	N	1	S	3
31	.939	.867	73.3	86.7	89.5	70.8	18.7	68.3	84	73.3	65	0.00	37	N	2	ESE	6
Means.	29.887	29.826	74.2	82.2	85.4	72.3	13.2	71.4	91	73.1	76	...	32.8	N	1.0	SEbyS	3.5
Total	...	.	...	...	...	...	...	...	...	...	...	23.45					

19
1898
WEATHER BUREAU

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky) 7 a.m. Lower.	7 a.m. Middle.	7 a.m. Upper.	3 p.m. Lower.	3 p.m. Middle.	3 p.m. Upper.	Weather: Remarks, &c.
1	...	1 Cum.	6 Cir. s.	1 Str. c. SE	1 Cum.	2 Cir. s.	Cloudy a.m. Fair p.m. T. to NE at 2.27 p.m. R. 3.56 to 4.37 p.m.
2	...	1 Cum.	4 Cir s.	...	1 Cum SE	...	Fair a.m. Fine p.m.
3	...	...	...	...	1 Cum. SE	4 Cir. s.	Fine but hazy a.m. Fair p.m.
4	...	...	...	...	1 Cum.	...	Fine but hazy a.m. Fine p.m.
5	...	1 Cum.	1 Cir.	...	1 Cum. E	...	Fine but hazy a.m. Fine p.m.
6	...	1 Cum.	7 Cir. s.	1 Alt. s. 5 Str.	1 Cum.	3 Cir. s.	Cloudy. Squall from SSE at 3.40 p.m. with light R.
7	6 Str. c.	...	3 Cir. s.	5 Str. c.	2 Cum. SE	2 Cir. s. SE	Cloudy. Squall from SE at 3.5 p.m. R. at 7.20 to 10.10 p.m., and at intervals during night.
8	1 Str. c. 8 Nim.	1 Cum.	...	5 Str. c. E	1 Cum. SE	4 Cir. s.	Rainy a.m. Cloudy p.m. R. during early morning and at 6.27 to 7.10 a.m. R. at 7.43 to 8.2 a.m., and from 10.19 a.m. to 12.44 p.m. with intervals, and during night.
9	4 Str. c.	1 Cum.	4 Cir. s.	...	1 Cum.	8 Cir. s.	Cloudy. R. during early morning to 6.10 a.m. and from 8.7 to 8.21 a.m.
10	...	1 Cum.	9 Cir s.	1 Alt s 1 Str. c.	1 Cum.	4 Cir. s.	Cloudy. T. to N at 12.45 p.m. with R. to 1.4 p.m.. Light R. during the night.
11	...	1 Cum.	6 Cir s.	2 Str. c.	...	7 Cir. s.	Cloudy. R. at 10.20 to 10.38 a.m.
12	3 Str. c. 7 Alt. s.	...	...	8 Alt. s.	1 Cum.	1 Cir. s.	Rainy a.m. Cloudy p.m. R. at 6.27 to 8.46 a.m. and from 9.57 a.m. to 2.7 p.m. T. to Sth. at 9.18 a.m.
13	1 Str. c. SE	1 Cum. SE	5 Cir s.	3 Str. c. SE	1 Cum SE	5 Cir. s SE	Cloudy.
14	...	4 Alt. c.	1 Cir. s.	3 Str. c SE	1 Cum	4 Cir. s.	Fair a.m. Cloudy p.m.
15	...	1 Cum.	8 Cir. s.	4 Alt s. 6 Str. c SE	...	...	Cloudy a.m. Raining p.m. R. at 2.46 to 3.27 p.m. Squall from SSW at 3.8 p.m.. R. from 6 to 6.42 p.m.
16	3 Str. c. SE 2 Str.	4 Alt. c. SE	1 Cir. s.	6 Str. c SE	2 Cum SE	2 Cir. s. SE	Cloudy. Light R. during afternoon. Squall from SE at 5.25 p.m. R. from 5.27 to 7.21 p.m. and at 8.32 p.m. and during night.
17	4 Str. c. 4 Alt s.	...	...	1 Alt s 4 Str c SE	...	...	Rainy. R. from 5.53 a.m. to 12.24 p.m. with intervals. R. at 1.56 to 2.41 p.m., and at intervals to 6.25 p.m. Light showers during early part of night.
18	6 Str. c. SE 1 Str.	2 Cum. SE	...	9 Alt s 1 Str	...	...	Cloudy a.m. Rainy p.m. Light R. during early morning, and from 10.9 to 10.19 a.m., and from 3.37 to 3.42 p.m. R. at 7.16 p.m., with intervals during night.
19	6 Str. c. 2 Str.	1 Cum. E	...	8 Str c SE	1 Cum E	...	Cloudy. R. at 6.4 a.m. to 6.13 a.m. and at 8.21 to 8.33; also at 9.39 to 10.38 a.m. R. at 3.27 to 7.36 p.m., and also during the night.
20	6 Str. c. 1 Str.	2 Cum. E	...	5 Alt s 5 Str c S	...	...	Cloudy a.m. Rainy p.m. R. during early morning. R, at 11.56 a.m. to 7.38 p.m.
21	5 Str. c. SE	1 Cum.	1 Cir. s. SE	1 Str 8 Str c SE	...	...	Cloudy.
22	...	2 Cum. SE	5 Cir. s. E	...	1 Cum.	9 Cir. s	Cloudy.
23	...	1 Cum.	4 Cir.	...	1 Cum	6 Cir. s	Fair a.m. Cloudy p.m.
24	...	1 Cum.	1 Cir. s.	...	2 Cum SE	6 Cir. s	Fine a.m. Cloudy p.m. Squall from SE at 3.44 p.m. R. at 3.47 to 4.47 p.m.
25	6 Str. c.	1 Cum.	...	4 Alt s 6 Str c S	...	..	Cloudy a.m. Raining p.m. Light R. at 8.42 to 10.3 a.m., and at 12.45 to 12.59 p.m., and from 1.37 to 4.7 p.m.
26	3 Str. c.	3 Alt. c. 1 Cum.	1 Cir. s	...	2 Cum	6 Cir. s. E	Cloudy. R. at 1.48 to 1.59 p.m.
27	..	1 Cum.	1 Cir	3 Str c 1 Alt s	2 Cum	4 Cir. s	Fine but hazy p.m. Cloudy p.m.
28	...	...	1 Cir.	...	1 Cum	1 Cir.	Fine.
29	...	1 Cum.	1 Cir. s.	...	2 Cum	6 Cir	Fine a.m. Cloudy p.m.
30	...	...	...	1 Str c	3 Alt. c SE 2 Cum SE	3 Cir. s.	Fine a.m. Cloudy p.m.
31	...	...	...	...	2 Cum SE	...	Fine.
Means	2.5 ...	1.1 ...	2.3 ...	3.5 ...	1.1 ...	2.8 ...	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Extreme Temperature. Max.	Date.	Min.	Date.	Range
	ft.	In.	In.	°	°	°	°	°	°		°		°
Morant Point L. H.	8	29.868	29.820	78.7	83.1	...	...	...	...	...	...	...	...
Negril Point L. H.	33	...	...	...	..	...	...	...	...	...	...	...	...
Kingston ...	50	29.887	29.826	74.2	82.2	85.4	72.2	13.2	90.9	7	70.3	24	20.6
King's House ...	400	...	...	73.1	81.4	86.7	66.3	20.4	93	31	61	2	32
Castleton Gardens...	580	29.550	29.520	71.1	79.0	84.6	68.1	16.5	89	4 et al	66	3 et al	23
Hope Gardens ...	600	29.18	29.19	71.5	80.2	83.9	68.4	15.5	90	3 & 31	66	17 & 26	24
Stony Hill Refty. ...	1,400	...	...	72.7	76.3	82.8	68.9	13.9	88	4	67	3 et al	21
Hill Gardens ...	4,907	25.326	25.303	61.9	64.5	68.4	58.2	10.2	73	14	55	25 & 29	18

The bar. pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°., and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

Station.	Elevation.	Dewpoint and Humidity. 7 a.m.		3 p.m.		Rain-fall.	Wind per diem.	Wind: direction (from) and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud. Lower, Middle, and Upper 7 a.m.			3 p.m.		
	ft.	°		°		In.						L.	M.	U.	L.	M.	U.
Morant Point L.H.	8	...	...	...	...	25.08	...	Var.	4.7	Var.	8.8	4.4	1.5	1.0	4.6	1.9	1.3
Negril Point L. H.	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kingston ...	50	71.4	91	73.1	76	23.45	32.8	N	.1	SE by s	3.5	2.5	1.1	2.3	3.5	1.1	2.8
King's House ...	400	71.0	93	75.6	84	28.75	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens...	580	68.8	90	72.9	78	20.88	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	69.7	93	74.4	82	24.60	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	70.0	91	72.9	89	24.97	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	58.9	87	61.6	90	32.93	38.8	SE	...	SE	...	...	...	...	...	...	...

The miles of wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the lower clouds are for the most part fracto-stratus; the middle clouds, cumulus; and the upper clouds, cirrus, or cirro-stratus

The Health of Kingston.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

		October. 1897.	Average.
Infantile diseases not otherwise specified	...	20	13
Lung diseases	...	18	14
Fever and Malaria	...	13	7
Dysentery and Diarrhœa	...	4	4
Various	...	30	54
Total	...	85	92

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observer's Initial
1897.		°	°	°	in.		
January 31st ...	10.30 a.m.	70.9	38.8	61	4.30	Fine.	D. W.
February 27th ...	3.30 p.m.	70.9	40.8	51	0.90	Fine, clear, high wind from N.E.	W. H.
March 31st ...	2.30 p.m.	67.9	39.8	61	3.10	Fine, but cloudy.	W. H.
April 30th ...	10 a.m.	70 9	42.8	60	10.08	Misty.	D. W.
May 31st ...	12.30 p.m.	66.9	42.8	64	11.10	Cloudy.	D. W.
June 30th ...	10.00 a.m.	70.9	44.8	65	6.03	Cloudy.	D. W.
July 31st ...	9.15 a.m.	69.9	41.8	54	5 15	Light rain.	D. W.
August 31st ...	12.30 p.m.	68 9	44.8	51	8.50	Raining.	D. W.
September 30th ...	12 10 p.m.	66.9	40.8	53	14.10	Cloudy.	D. W.
October 31st ...	11.45 a.m.	68.9	43.8	66	24.20	Cloudy.	D. W.

Rainfall for October, 1897.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to the Tables published in January, 1892, as No. 124 (A) of the preceding series of Reports, Vol. II. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island: embracing the four divisions.

North-Eastern Division.	October. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	52.36	6.10	11*	19	14.95
Manchioneal P.W.D.	38.93	6.02	17	24	...
Bath P. W. D.	44.22	7.58	16	21	...
Moore Town P. W. D.	33.61	10.26	16	21	...
Mt. Ephraim	...	...		...	...
Port Antonio P. W. D.	21.23	9.02	16	18	13.39
Fellowship P. W. D.	25.96	8.68	16	19	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	16.34	5.04	16	18	...
Cedar Valley P. W. D.	33.66	6 17	16	21	...
Green Vale	...	...	...	...	...
Cinchona Plantation	32.93	10.50	16	23	17.38
Resource	20.42	...	...	...	...
Buff Bay P. W. D.	11.06	1.91	29	14	...
Cold Spring	21.10	5.60	16	20	...
Hardware Gap P.W.D.	18.54	9.45	...	15	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	15.53	5.01	6	22	...
Stony Hill Rfty	24.97	7.25	16	20	13.30
Castleton Gardens	20.88	4.00	16	20	13.71

North-Eastern Division, *contd.*	October. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Lawrence's Tavern P. W. D.	...	...	...	...	...
Albany P. W. D.	11.44	2.03	15	15	...
Quebec	...	...	...	...	8.35
Richmond P. W. D.	16.23	3.23	2	19	...
Highgate P. W. D.	16.98	3.00	14	12	...
Gayle	14.85	4.25	16	11	11.11
Gayle P. W. D.	11.16	3.00	16	14	...
Rio Hoe	11.21	2.00	16	15	10.29
Unity Valley	13.40	3.34	16	20	8.39
Moneague P.W.D.	13.56	2.40	17	17	...
Claremont	...	...	...	...	...
Albion	14.19	2.44	20	21	8.14
Averham Park	13.78	2.30	15	18	5.69
Ballintoy P.W.D.	15.19	2.28	4	18	...
Means	20 76	...	...	...	11.00
Northern Division					
Port Maria P.W.D.	9.69	2.93	20	18	7.74
Ocho Rios P.W.D.	7.08	1.72	20	10	...
Drax Hall	7.85	2.48	15	14	7.00
St. Ann's Bay P.W.D.	8.93	1.60	20	24	...
Seville	8.41	2.80	20	6	6.09
Richmond Estate	...	...	...	...	8.14
Llandovery	7.08	1.70	15	12	7.53
Brown's Town P.W.D.	6.38	1.30	20	13	...
Dry Harbour P.W.D.	5.90	1.41	24	13	...
Home Castle	7.95	2.85	23	14	6.13
Richmond Pen	9.20	2.90	20	9	6.61
Mahogany Hall	8.72	1.90	20	10	6.26
Brampton Bryan	4.34	1.02	20	11	...
Bryan Castle	6.38	1.60	20	10	...
Braco	5.13	1.20	15	11	4.95
Arcadia	4.67	1.24	20	13	5.55
Arcadia Great House	6.38	1.43	23	15	...
Harmony Hall	...	...	...	...	4.62
Lancaster	6.15	1.40	24	13	5.50
Vale Royal	7.40	1.28	20	14	6.08

*Also 16th and 21st. On all the three dates the gauge overflowed.

Northern Division, *contd.*	October. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Colchis Pen	9.49	3.11	15	13	6.14
Hyde	10.48	1.45	15	22	7.16
Georgia	5.88	.88	20	12	5.67
Long Pond	9.62	2.00	21	22	...
Steelfield	6.13	.93	15	18	5.94
Oxford	10.50	2.25	12	20	6.95
Cambridge	9.38	2.25	12	18	5.84
Dry Valley	...	...	...	...	...
Lottery	10.45	2.20	12	16	5.92
Hampstead	9.50	2.20	10	9	...
Falmouth	9.17	...	...	...	5.55
Falmouth P.W.D.	8.81	3.77	15	16	...
Fontabelle	13.60	3.30	15	19	...
Martha Brae	...	...	...	...	...
Holland Pen	7.65	2.50	15	12	4.44
Pembroke	...	...	...	...	5.22
Golden Grove	...	...	...	...	6.06
Green Park	7.28	1.70	15	14	5.09
Tilston	...	...	...	...	6.28
Weston Favell	...	...	...	...	6.63
Orange Valley	...	...	...	...	5.15
Kent	...	...	...	...	5.57
Dundee	...	...		...	5.46
Phœnix	11.59	3.50	15	21	8.51
Gale's Valley	...	...	...	...	5.88
Greenwood	...	...	...	...	4.65
Canaan	9.38	3.00	15	13	...
Lima	9.30	2.50*	15	14	...
Content	...	...	...	...	...
Bellfield	10.49	3.60	15	16	...
Guilsbro'	...	...	...	...	6.51
Tryall	...	...	...	...	...
Leogan	...	...	...	...	7.21
Success	12.25	4.60	15	19	5.37
Cinnamon Hill	10.63	5.30	15	19	3.69
Rose Hall	8.73	3.05	15	18	4.17
Running Gut	...	...	...	...	4.77
Spring	...	...	...	...	...
Ironshore	...	...	...	...	4.85
Friendship	...	...	...	...	...
Providence	...	...	...	...	4.88
Montego Bay P.W.D.	20.43	4.03	15	17	5.38
Catherine Hall	...	...	...	...	6.76
Catherine Mount	...	...	...	...	6.65
Fairfield	18.20	4.10	15	17	6.10
Anchovy	...	...	...	...	6.99
Round Hill	16.55	4.20	15	16	5.14
Tryall	...	...	...	...	...
Sandy Bay P.W.D.	16.61	3.21	22	15	...
Lucea P.W.D.	13.36	1.79	16	19	...
Orange Cove	...	...	...	...	7.69
Spring Valley	16.85	3.60	15	10	...
Central Sub-Division—					
Headworks R.C.C.	22.85	6.52	16	22	9.09
Linstead P.W.D.	21.74	7.25	16	15	8.80
Point Hill P.W.D.	36.39	9.22	16	23	...
Harker's Hall P.W.D.	23.72	6.92	16	19	...
Dias	20.03	3.12	10	20	...
Spring Hill	19.18	5.92	20	15	...

Northern Division, *contd.*	October. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Chapelton P.W.D.	27.53	4.44	19	21	11.68
Danks Savoy	22.83	4.25	16	16	...
Mears P.W.D.	17.10	3.96	16	21	...
Cave Valley	18.44	3.10	16	20	9.45
Means	11.51	...	...	...	6 50
West Central Division.					
Mocho P.W.D.	26.52	3.45	21	27	...
Baillieston P.W.D.	19.32	4.00	20	23	...
Farm Plantation	28.05	6.22	20	16	13.84
Brockenhurst Pln.	...	...	...	...	10.60
Christiania P.W.D.	19.47	2.63	18	20	...
Kendal P.W.D.	28.25	4.25	16†	20	...
Mandeville P.W.D.	25.29	4.16	17	20	17.19
Marshalls Pen	...	...	...	...	12.89
Ulster Spring P.W.D.	14.36	3.70	15	19	...
Troy P.W.D.	21.31	2.27	15	24	...
Windsor Pen	11.65	1.36	20	27	7.03
Balaclava P.W.D.	19.01	3.08	15	20	...
Elim	30.81	6.91	15	17	...
Appleton	20.88	2.49	20	24	11.51
Maggotty P.W.D.	20.00	2.55	17	24	...
Spring Vale	...	...	...	...	8.81
Maroon Town	18.40	2.50	15	19	11.02
Kempshot	...	...	...	...	6.86
Kepp	20.37	4.14	17	22	10.76
Kew Park	...	...	...	...	9.54
Hazelymph	15.61	1.57	20	27	...
King Gate P.W.D.	15.32	3.44	15	13	...
Windsor Forest	...	...	...	...	12.49
Chester Castle	...	...	...	...	8.05
Darliston P.W.D.	17.69	3.58	20	21	...
Whithorn. P.W.D.	18.47	3.46	20	20	...
New Galloway	18.27	2.42	19	20	...
Lethe Bridge	20.75	2.00	14‡	24	...
Copse	18.20	1.95	21	27	8.96
Cacoon Castle	25.67	3.65*	...	24	7.83
Golden Grove	...	...	...	...	9.45
Great Valley	23.23	3.65	12	26	...
Brownsville	17·40	3.34	17	24	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	9.81
Morgan's Bridge P.W.D.	21.70	3.03	25	22	...
King's Valley	21.58	3.00	17	23	11.56
Abingdon	...	...	...	...	7.23
Means	21.12	...	...	...	11.08
Southern Division.					
Morant Point L.H. P. W.D.	25.08	4.48	16	25	10.44
Morant Bay P.W.D.	33.44	5.27	8	21	...
Lyssons	...	...	...	...	...
Easington P.W.D.	30.69	5.39	8	19	...
Abbey	...	...	...	...	11.89
Halberstadt	...	...		...	

* Gauge overflowed. † and 20. ‡ and 15.

Southern. Division, *contd.*	October. Total Fall.	1897. Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	in.	in.			in.
Bull Bay P.W.D.	20.90	5.13	16	15	...
Gordon Town	28.98	13.55	...	18	...
Hope Gardens	24.60	7.50	16	14	8.45
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	9.16
King's House	28.75	5.10	16	13	8.54
Cavaliers	...	...	...	...	...
Shortwood	21.98	5.62	16	21	...
Monaltrie	20.65	6.24	16	18	8.56
Halfway-Tree P.W.D.	23.73	6.32	16	17	...
Lunatic Asylum ...	20.27	8.30	16	14	...
Kingston Gardens ...	18.24	3.95	16	16	...
Public Works Office Kn.	21.75	6.58	16	16	7.48
Plumb Point L. H.	22.13	5.90	16	17	7.48
Ferry P. W. D.	34.84	10.00	16	12	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	31.66	9.85	16	15	7.72
Windsor Park	25.73	6.90	16	14	6.39
Hog Hole Pen P.W.D.	27.68	9.50	16	16	7.85
Old Harbour P.W.D.	28.04	3.40	20	21	9.72
Somerset Hall	29.26	4.60	16	16	..
May Pen P.W.D.	33.13	5.09	20	18	...
Amity Hall	25.90	5.50	20	21	...
Hermitage	30.13	5.20	16	17	...
Denbigh	...	...	...	...	8.83
Yarmouth P.W.D.	20.30	5.50	20	15	...
Victoria Town P.W.D.	...	...	...	..	...
Stone's Hope	31.67	6.93	17	19	10.89
Newport P.W.D.	18.93	3.50	20	17	...
Alligator Pond P.W.D.	15.62	3.70	17	10	...
Southfield P.W.D.	15.02	...	...	13	...
Potsdam	17.97	4.75	20	13	8.77
Long Hill	18.12	3.87	19	14	10.43
Pepper	22.78	4.75	16	15	11.16
Torrington P.W.D.	17.86	4.35	20	14	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	13.73	2.48	17	14	...
Holland	18.23	3.25	20	19	...
Black River P.W.D.	15.59	4.04	20	13	8.69
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	27.60	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	20.21	4.66	20	20	...
Mount Edgecombe	22.16	5.31	20	19	9.48
Sweet River	22.74	3.03	11	19	8.57
Cornwall	24.67	3.80	16	19	...
Windsor, Sav.-la-Mar	21.56	2.73	20	21	7.70
Sav.-la-Mar P.W.D.	18.94	3.03	20	18	...
Blackheath	...	...	...	...	...
Retreat	30.33	7.16	25	18	...
Negril Pt. Lighthouse	18.28	2.90	25	19	...
Means. ...	23.81	...	...	...	8.80

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	October. 1897. In.	Average. In.
North Eastern Division	20.76	11.00
Northern "	11.51	6.50
West Central "	21.12	11.08
Southern "	23.81	8.80
Means	19.30	9.34

The greatest monthly fall viz., 52.36 ins., was recorded at Hordley and the least fall, viz.. 4.34 ins., was recorded at Brampton Bryan. The greatest fall in 24 hours was 13.55 ins., at Gordon Town on the 16th. The greatest number of days on which rain fell at any one place was 27, at four stations in the West Central Division, viz., Mocho, Windsor Pen, Hazelymph and Copse. Fifty stations had in 24 hours falls of between 3 and 5 inches, and twenty-six had falls of between 5 and 7 inches. Eleven had falls of between 7 and 10 inches, while four had 10 inches or upwards in twenty four hours.

The mean approximate rainfall as arrived at on the 4th instant (when a preliminary report on October was issued) was 20.99 ins. This result was obtained from 40 stations with "averages." The result now published in the comparative Table shows 19.30 ins, as compared with an average of 9.34 ins.

The following notes have come to hand:—

N. E. Division.

Gayle.—Weather very seasonable—no flood—last week very hot for Oct.

Rio Hoe.—The October seasons commenced on the 2nd and during the whole month we have had good showers.

Albion.—Fine seasons, sufficient, but not excessive, and especially welcome, as the third quarter of the year was the driest since 1885.

Moneague P.W.D.- First part of month dry, but heavy showers fell near by and in the Pedro district. From 1st to 15th only 1.94 inches fell in Moneague and the first heavy rain commenced to fall on 16th; no particularly heavy down-pour has taken place though roads have been cut up by continuous rains.

Lawrence Tavern P.W.D.—(Gauge kept by Police Corporal). The gauge is totally untrustworthy. I discovered a few days ago that the large outer vessel was very leaky and therefore as soon as the pan ($1\frac{1}{2}$ ins) was full all the rest was lost. I am having it repaired. (*G. Mould.*)

N. Division.

St. Ann's Bay, P.W.D.—Average indoor temperature at 7 a.m., 77° and at 3 p.m., 82° and Bar. 7 a.m., 29.869 and 3 p.m., 29.818, corr. to 32° sea level and gravity 45°

Dry Harbour, P.W.D.—Cool and pleasant throughout month.

Mahogany Hall.—On 24th rain gauge upset—the rainfall that day was very heavy, but 1.50 only approximate and under estimated.

Green Park.—About same fall as last year. Weather dry and fine for last three days of month.

Fairfield—Flood rains about middle of month. causing some damage to cultivation.

W. C. Division.

Farm.—Wettest October for upwards of twenty years. 40 inches during last two months, no damage nor inundation in this district.

Mandeville, P.W.D.—An unusually wet month Old inhabitants say "nothing like it since '67".

Copse.—It rained continually for days: suffered no damage on the estate to speak of. A dry November wanted to ripen up the canes to turn out a good yield.

Brown'sville—Last October we had 10.20 inches in 17 days.

Kings Valley—Capital October Seasons. Ponds are overflowing and no floods.

S. Division.

Windsor Park.—On the five days 15th to 20th 19.13 inches of rain fell and did a great deal of harm by killing grass in low lying lands where the water could not run off.

Petersville.—From the 14th to the 20th we had 14.07, two days of over 4 inches each—great damage done to the roads and chains of walls down.

Mount Edgecombe.—The fall for this month has been greater here than that of any other month since 1879, with the exception of the fall of May '94, which was 23.50.

Besides the fall of 5.31 on 20th, we had four falls of over 2.50. No damage has been done.

Sav-la-Mar. P.W.D.–The flood rains between the 15th and 20th did much damage to the Main Roads between: 1. Bluefield and Seals Cove. 2. Sav.-la-Mar and Darliston. 3. Darliston toAckendown. A considerable length of the Main Road between Sav-.la-Mar and Negril Spots was under water averaging 18 inches deep. No lives lost during the Flood in this parish. Weather is now fair.

The October Seasons 1897.

The rainfall for October was 89 per cent over the average in the N. E. Division, 77 per cent over the average in the N. Division, 91 per cent above in the W. C. Division and 171 per cent. in the S. Division and the mean for the Island was 107 per cent. above the average. In other words, roughly speaking, the first three divisions had not far short of double their average, the southern Division had nearer treble than two and a half times its average and the Island generally had more than twice its average. It will be seen that the Southern Division had not only the largest proportionate but also the largest actual fall. This result was chiefly brought about by a week of very heavy rains or October "seasons" beginning on the 15th or 16th; although, as will be seen from the column showing the number of days on which rain fell, the month did not by any means consist of one week's heavy rain only, with the rest of the month dry. The heavy rains which caused floods in some places, notably Montego Bay, were not however experienced all over the Island, the greater portion of the Northern Division, extending from Port Maria to within a few miles of Montego Bay having only moderate rains, slightly in excess of the average.

The most noticeable fall of course is Hordley with 52 inches recorded. The actual fall however was greater even than this, as it appears that on 3 days, 11th 16th, and 21st, the gauge overflowed after holding 6.10 inches. Bath comes next with forty four inches and as this station on one of the days when the gauge overflowed at Hordley, a few miles distant, recorded seven and a half inches, against the six which was all the Hordley guage held, we may make a rough estimate to get at the loss at Hordley on the three days in question and then fairly say that Hordley must have had fifty seven inches of rain in October. We find the following stations with falls of over thirty inches in the month. In the N. E. Division, Manchioneal 39, Moore Town 34, Cedar Valley 34, Cinchona Plantation or Hill Gardens 33; none in the N. Division proper, although there is one in the Central Sub-division, viz., Point Hill 36; in the W. C. Division, Elim 31; and in the S. Division, Morant Bay 33, Easington 31, Ferry 35, Spanish Town 32, May Pen 33, Hermitage 30, and Stones Hope, 32. Of falls between twenty and thirty inches we have six in the N.E. Division viz; Port Antonio, Fellowship, Resource, Cold Spring, Stony Hill and Castleton; we have one only in the N. Division proper, viz., Montego Bay, where the floods did much damage by the gullies coming "down", although there are five in the Central Sub-division, viz., Headworks R. C. C., Linstead, Harkers Hall, Chapelton and Danks-Savoy; there are thirteen in the West Central Division, found in nearly all portions of it; while in the Southern Division with falls of between 20 and 30 inches there are twenty four stations.

In the West Central Division there is only one station, Ulster Spring and in the S. Division there is only one station, Santa Cruz, which had falls less than fifteen inches.

Put into tabular form these results appear as follows:—

Falls between 20 and 30 Inches.		Falls between 30 and 40 Inches.		Falls between 40 and 50 Inches.		Falls between 50 and 60 Inches.	
	No.		Ins.		Ins.		Ins.
N.E. Division	6	Manchioneal	39	Bath	44	Hordley	52 (probably 57)
		Moore Town	34				
N. "	1	Cedar Valley	34				
		Cinchona Pln.	33				
Central Sub-Division	5	Point Hill	36				
		Elim	31				
		Morant Bay	33				
W.C.Division	13	Easington	31				
		Ferry	35				
S. "	24	Spanish Town	32				
		May Pen	33				
		Hermitage	30				
		Stones Hope	32				
Total number of Stations	49						

Coming now to *comparative* falls we find that even in the Northern Division where the rains were generally not excessive there are only two stations, Llandovery and Arcadia, which had less than the average.

The following number of stations had about twice their average, viz., in the N. E., 5; in the N. 9; in the W. C. Div., 7; in the S. Div., 7; while the following places had three times their average, viz; W. C. Division, Cacoon Castle; and S. Division, Hope Gardens, King's House, Kingston, Plumb Point Light House, Old Harbour, Stones Hope, Sweet River, and Windsor, Sav.-la-Mar. There are still larger proportionate falls in the shape of Hordley and Hog Hole Pen with three and a half times the average, while Montego Bay, Spanish Town and Windsor Park had four times the average fall for October.

With regard to the week of particularly heavy rain or rather the 6 days 15th to 21st, the following details have been tabulated.

October 1897.	Hordley.	Hill Gardens.	Stony Hill.	Castleton.	Chapelton.	Danks Savoy.	Montego Bay.	Morant Pt., L. H.	Hope Gardens.	Kings House.	Shortwood.	Kingston.	Plumb Pt., L. H.	Ferry.	Spanish Town.	Hermitage, (Vere)	Stones Hope.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
15th	2.83	2.76	1.30	1.20	...	...	4.03	.69	1.35	1.55	...	1.52	1.12	.50	.00	3.13	...
16th	6.10	10.60	7.25	4.00	...	...	1.07	4.48	7.50	5.10	...	6.58	5.90	10.00	9.85	5.20	...
17th	2.54	3.25	1.30	1.30	...	...	.14	2.35	3.46	4.25	...	2.06	1.32	5.05	2.82	1.72	...
18th	3.80	4.90	1.70	1.20	...	...	.30	.79	1.74	1.75	...	2.33	1.90	5.15	3.02	4.50	...
19th	3.03	3.25	1.68	1.00	...	...	1.04	1.75	2.35	3.10	...	2.45	1.70	3.11	3.58	3.90	...
20th	1.90	2.58	3.60	3.70	...	...	1.05	1.64	4.05	4.58	...	3.35	2.40	7.14	4.40	3.82	...
Total for the 6 days	20.20*	27.23	16.83†	12.40‡	20.00	17.07	7.63§	11.70	20.45	20.33	16.50	18.29	14.34	30.95	24.27	22.27	25.76
Total for Month	52.36	32.93	24.97	20.88	27.53	22.83	20.43	25.08	24.60	28.75	21.98	21.75	22.13	34.84	31.66	30.13	31.67

* Hordley had also 6.10 on the 21st. On both the 16th and 21st the gauge overflowed and the estimated loss may be put at least at 3 inches for the two days. The estimated total for the 6 days would therefore be 23 inches and for the month 57 inches.

† Stony Hill had also 1.05 on the 14th.

‡ Castleton had also 1.90 on the 14th.

§ Montego Bay had also .95 on the 14th and .90 on the 21st.

It will be seen that the heaviest rainfall for the six days, viz., thirty-one inches, was at the Ferry, between Kingston and Spanish Town, thus beating the mountain station known as Hill Gardens, which was the next heaviest fall, by three-and-a-half inches. Kingston, it will be observed, had eighteen inches.

There have been no such heavy rains for nine years, viz.: since May, 1888, which month of flood rains, in its turn, was preceded two years before by the flood rains of June, 1886.

In May 1888 there was a week of heavy continuous rain, chiefly in the eastern portion of the Island (not very unlike the present case) which generally speaking exceeded the October 1897 fall as will be seen from the following table. In order to make the figures strictly comparable and to have a complete week the rainfall for the 21st of October, 1897, has been included in these figures, which therefore differ from those in the Table immediately preceding.

	Hordley.	Hill Gardens	Morant Point.	Plumb Point.	Kingston.
	Ins.	Ins.	Ins.	Ins.	Ins.
1888. Week ending 10 p.m. 15th May	33.28	22.48	17.78	33.16	27.37
1897. Week ending 21st Oct. ...	26.30*	27.31	12.19	14.50	18.29
1888. Total for May ...	60.03	29.52	38.76	38.63	28.66
1897. Total for October	52.36†	32.93	25.08	22.13	21.75

Here we see that in 1888 the rainfall was heavier at these five stations both for the week of heavy rain and also for the month, with the one exception of Cinchona Plantation, or, as it is now termed, Hill Gardens where this year the fall was heavier for the week and also for the month than it was in 1888.

If we now compare the Rainfall Divisions one with the other in the three months of heavy rain, October 1897, May, 1888, and June, 1886, we get the following figures :—

	Oct. 1897.	May, 1888.	June, 1886.
	Ins.	Ins.	Ins.
North Eastern Division	20.76	27.39	30.05
Northern Division	11.51	12.09	12.70
West Central "	21.12	17.28	18.60
Southern "	23.81	23.97	32.31
The Island ...	19.30	20.18	23.42

Here we see that in the NE and N Divisions in 1897 the rain was less than in 1888, which in its turn was less than in 1886. In the WC Division October 1897 however beat both May 1888 and June 1886; while in the Southern Division the fall in 1897 was about the same as 1888, both being largely exceeded in June 1886. The result for the Island shows that the fall in October 1897 was not so heavy as that in May 1888 and that June 1886 exceeded both.

If we extend this comparison for the Island generally a little further, so as to show other large monthly falls on record during the last twenty seven years, we find the following, which shows that October 1897 takes the third place in the quarter of a century.

* Say 29 ins., if allowance be made for the overflowing of the gauge.

† " 57 " "

Month.		Rainfall.
		Ins.
1870, May	...	17.38
1870, October	...	16.74
1879, October	...	15.69
1885, December	...	15.60
1886, June	...	23.42
1888, May	...	20.18
1897, October	...	19.30

The recent rains have done a considerable amount of damage to the roads, and, unfortunately, they have also been attended by some loss of life, notably at Montego Bay, where the gullies or creeks overflowed their banks and swept away some of the wooden houses built on them. Full details of these, however, were duly published in the daily papers and need not perhaps be further alluded to here.

Below will be found a statement of the Rainfall recorded during the year, compared with the average fall for the months in question.

		1897.	Average.
		ins.	ins.
January	...	0.82	4.09
February	...	0.69	2.64
March	...	1.82	3.01
April	...	7.52	4.61
May	...	11.57	9.57
June	...	5.23	8.21
July	...	5.87	5.20
August	...	6.51	7.83
September	...	9.52	7.70
October	...	19.30	9.34
	Totals	68.85	62.20

We thus find that the anticipation expressed about the middle of October in the last Weather report has been more than realised and that the total fall for this year to the end of October shows an excess of six and a half inches over the average.

ROBT. JOHNSTONE.

Weather Office,
Kingston, 24th November 1897.

No. 220.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1897.

LIBRARY
JAN 12 1898
WEATHER BUREAU

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour. 7 a.m.		Wind: Direction (from) and miles per hour. 3 p.m.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.981	29.863	75.3	86.5	89.4	73.0	16.4	70.5	85	74.8	69	0.00	40	N	1	SE	6
2	.971	.853	75.1	85.8	89.5	73.3	16.2	71.8	89	72.0	64	0.00	50	N	1	S	4
3	.981	.900	76.2	80.4	88.8	72.9	15.9	70.2	82	73.8	80	0.00	17	N	3	N	2
4	.931	.871	73.2	84.0	88.3	71.3	17.0	69.9	89	68.7	64	0.00	22	N	1	S	2
5	.930	.897	72.4	83.9	88.3	70.7	17.6	69.2	96	71.9	67	0.00	30	N	2	S	3
6	.985	.900	70.2	87.5	88.8	69.1	19.7	64.4	82	67.3	51	0.00	17	N	1	S	1
7	.959	.882	73.4	86.4	89.7	69.1	20.6	68.7	85	74.4	68	0.00	25	N	1	N	3
8	.907	.833	72.4	86.4	90.7	71.8	18.9	70.3	93	69.9	58	0.00	20	Z	0	SW	3
9	.911	.833	72.8	87.4	90.2	71.7	18.5	68.8	87	69.3	55	0.00	23	N	2	S	2
10	.927	.872	72.4	83.6	89.1	70.8	18.3	66.8	83	73.0	71	0.00	16	N	1	NE	1
11	.921	.864	74.5	82.8	88.9	72.9	16.0	68.8	82	72.6	71	0.00	22	N	2	NE	1
12	.907	.832	76.2	76.4	90.6	74.8	15.8	69.5	80	74.5	94	0.06	22	N	3	Z	0
13	.914	.843	73.8	77.7	86.9	72.8	14.1	69.5	86	73.0	86	0.04	15	N	1	N	1
14	.873	.838	72.8	82.9	87.4	72.3	15.1	70.2	91	72.8	71	0.00	16	N	1	N	2
15	.925	.882	73.4	87.6	90.2	71.2	19.0	68.4	84	68.1	53	0.00	53	N	1	SE	7
16	.956	.884	74.3	86.5	89.2	72.9	16.3	68.9	83	69.6	57	0.00	73	N	1	SE	6
17	.927	.832	72.2	87.2	89.1	71.0	18.1	66.8	83	72.9	63	0.00	50	N	1	SSE	5
18	.920	.825	73.4	85.9	89.8	72.9	16.9	67.9	83	72.4	65	0.00	51	N	1	S	6
19	.887	.789	73.2	85.5	88.3	71.9	16.4	68.8	86	72.0	64	0.00	45	N	1	SE	8
20	.897	.964	72.9	75.8	89.3	72.0	17.3	68.0	84	73.9	94	0.14	31	N	1	N	3
21	.980	.865	71.6	79.5	84.9	70.0	14.9	70.0	95	72.4	79	0.08	19	N	2	N	1
22	.915	.836	71.4	81.8	84.3	70.4	13.9	70.0	95	70.8	70	0.16	58	N	2	SE	8
23	.899	.849	70.2	84.2	86.4	69.3	17.1	65.6	85	70.8	65	0.00	38	N	1	S	2
24	.945	.907	70.1	84.6	86.4	69.2	17.2	65.1	84	70.2	60	0.00	22	N	1	SW	3
25	.956	.885	69.6	85.7	88.3	68.7	19.6	67.1	93	68.9	57	0.00	36	N	1	N	2
26	.940	.853	69.5	87.5	89.5	68.7	20.8	64.4	84	68.3	53	0.00	30	N	1	W	2
27	.891	.826	71.8	86.2	88.3	71.1	17.2	69.5	92	69.5	51	0.00	33	N	1	SW	3
28	.917	.862	70.8	83.7	86.1	70.1	16.0	68.0	91	67.3	58	0.00	45	N	2	E	3
29	.951	.876	70.5	83.0	86.6	69.8	16.8	67.5	90	66.9	59	0.00	36	N	1	Z	0
30	.928	.852	74.2	82.8	86.4	72.1	14.3	69.2	84	68.4	62	0.00	81	N	1	N	1
31	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...
Means.	29.931	29.862	72.7	83.9	88.3	71.3	17.0	68.5	87	71.0	66	..	34.5	N	1.3	Var,	3.0
Total	...	...	...	...	...	...	...	...	...	...	...	0.48	...	...	...	...	...

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky) 7 a.m. Lower.	7 a.m. Middle.	7 a.m. Upper.	3 p.m. Lower.	3 p.m. Middle.	3 p.m. Upper.	Weather: Remarks, &c.
1	4 Str. c. SE	2 Cum. SE	1 Cir. SE	...	2 Cum. SE	...	Cloudy a.m. Fine p.m.
2	...	...	...	...	1 Cum. 2 Alt c	...	Fine.
3	...	1 Cum.	8 Cir.	1 Str. c.	1 Cum.	3 Cir. s.	Cloudy a.m. Fair p.m.
4	...	...	3 Cir.	7 Str c	...	...	Fine a.m. Fair p.m.
5	...	2 Cum.	6 Cir.	2 Str. c.	1 Cum. E	5 Cir. s.	Cloudy.
6	...	...	...	...	2 Cum	...	Fine.
7	...	1 Cum. E	...	1 Alt s	2 Cum SE	5 Cir. s SE	Fine a.m. Cloudy p.m. T. to N at 12.27 p.m
8	...	1 Cum.	...	3 Str. c.	...	...	Fine.
9	...	1 Cum.	...	2 Str. c.	..	...	Fine.
10	...	...	2 Cir. s	2 Alt s	1 Cum. 3 Alt. c	4 Cir. s.	Fine a.m. Cloudy p.m.
11	...	1 Alt. c. 2 Cum.	4 Cir.	2 Str c	1 Cum.	6 Cir. s	Cloudy.
12	1 Alt. s.	...	9 Cir. s.	2 Alt s	2 Cum 1 Alt. c.	5 Cir. s.	Cloudy. Light R. at 2.20 to 2.44 p.m.
13	...	1 Cum.	1 Cir. s.	3 Str. c. 1 Alt. s.	2 Cum	4 Cir. s.	Fine a.m. Cloudy p.m. Light R. at 12.38 to 1.14 p.m.
14	...	2 Cum.	7 Cir.	1 Alt s	3 Cum	6 Cir. s	Cloudy.
15	...	1 Cum.	2 Cir. s. E	...	1 Alt c. 1 Cum.	1 Cir. s. E	Fine.
16	...	1 Cum. E	6 Cir	...	1 Cum SE	2 Cir.	Cloudy a.m. Fine p.m.
17	...	...	4 Cir.	1 Str. c SE	2 Cum SE	5 Cir. s. E	Fair a.m. Cloudy p.m.
18	...	...	9 Cir.	...	3 Cum. SE	4 Cir. s.	Cloudy. Squall from SE at 3.12 p.m. T. to N at 3.38 p.m.
19	...	4 Alt. c. 1 Cum.	4 Cir.	6 Str c SE	...	3 Cir. s.	Cloudy.
20	...	...	1 Cir.	3 Str c. SE 4 Alt s.	1 Cum SE	2 Cir. s.	Fine a.m. Raining p.m. T. to N. at 1.30 p.m. R. at 1.43 to 2.4 p.m. and at 2.38 to 3.26 p.m.
21	10 Alt s.	...	...	1 Str c	2 Cum SE	6 Cir. s. SE	Raining a.m. Cloudy p.m. R. at 5.15 to 5.37 a.m. and from 6.32 to 8.26 a.m.
22	3 Alt s. 4 Str. c.	...	2 Cir s.	...	1 Cum.	2 Cir	Cloudy a.m. Fine p.m.
23	...	1 Cum.	1 Cir.	...	1 Cum	1 Cir.	Fine.
24	...	1 Cum.	3 Cir.	...	1 Cum. SE	2 Cir.	Fair a.m. Fine p.m.
25	...	1 Cum.	...	...	1 Cum	..	Fine but hazy a.m. Fine p.m.
26	...	...	1 Cir.	...	1 Cum. SE	1 Cir. SE	Fine.
27	...	1 Cum.	...	...	1 Cum SE	1 Cir.	Fine but hazy a.m. Fine p.m.
28	...	...	...	...	1 Cum SE	...	Fine but hazy a.m. Fine p.m.
29	...	...	...	2 Str c	...	...	Fine but hazy a.m. Fine p.m.
30	...	...	9 Cir. s.	...	1 Cum. SE	...	Cloudy a.m. Fine p.m.
Means	.1	.1	2.8	1.5	1.4	2.3	
	...	...	...	...	...	...	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range	Extreme Temperature. Max.	Date.	Min.	Date.	Range
	ft.	In.	In.	°	°	°	°	°	°		°		°
Morant Point L. H.	8	29.918	29.862	81.5	83.9	...	...	...	...	...	...	...	...
Negril Point L. H.	33	...	...	...	...	...	...	...	...	...	...	...	...
Kingston ...	50	29.931	29.862	72.7	83.8	88.6	71.2	17.0	90.7	8	68.7	25 & 26	22.0
King's House ...	400	...	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens...	580	29.588	29.563	70.7	80.2	84.3	66.3	18.0	88	3	62	5 et al	26
Hope Gardens ...	600	...	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	25.355	25.331	60.5	65.8	69.8	57.3	12.5	75	4	54	20 & 29	21

The bar. pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°., and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens: their readings have been corrected for instrumental errors.

Station.	Elevation.	Dewpoint and Humidity. 7 a.m.		3 p.m.		Rainfall.	Wind per diem.	Wind: direction (from) and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud. Lower, Middle, and Upper. 7 a.m. L.	M.	U.	3 p.m. L.	M.	U.
	ft.	°		°		In.											
Morant Point L.H.	8	...	...	...	...	4.10	...	NE b N	8.1	NE	11.0	3.0	2.4	1.1	3.0	1.4	0.9
Negril Point L. H.	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kingston ...	50	68.5	87	71.0	66	.48	34.5	N	1.3	Var.	3.0	0.1	0.1	2.8	1.5	1.4	2.3
King's House ...	400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens...	580	68.0	90	72.4	76	12.68	...	...	..	...	...	...	...	...	...	...	...
Hope Gardens ...	600	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	56.3	83	61.5	85	11.09	30.8	E by	...	SE	...	...	...	...	...	...	...

The miles of wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the lower clouds are for the most part fracto-stratus; the middle clouds, cumulus; and the upper clouds, cirrus, or cirro-stratus

The Health of Kingston.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

		November. 1897.	Average.
Infantile diseases not otherwise specified	...	9	17
Lung diseases	...	15	15
Fever and Malaria	...	25	10
Dysentery and Diarrhœa	...	14	4
Various	...	43	57
Total	...	106	103

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Min.	Temp.	Rain.	Remarks.	Observer's Initial.
1897.		°	°	°	in.		
January 31st ...	10.30 a.m.	70.9	38.8	61	4.30	Fine.	D. W.
February 27th ...	3.30 p.m.	70.9	40.8	51	0.90	Fine, clear, high wind from N.E.	W. H.
March 31st ...	2.30 p.m.	67.9	39.8	61	3.10	Fine, but cloudy.	W. H.
April 30th ...	10 a.m.	70.9	42.8	60	10.08	Misty.	D. W.
May 31st ...	12.30 p.m.	66.9	42.8	64	11.10	Cloudy.	D. W.
June 30th ...	10.00 a.m.	70.9	44.8	65	6.03	Cloudy.	D. W.
July 31st ...	9.15 a.m.	69.9	41.8	54	5.15	Light rain.	D. W.
August 31st ...	12.30 p.m.	68.9	44.8	51	8.50	Raining.	D. W.
September 30th ...	12.10 p.m.	66.9	40.8	53	14.10	Cloudy.	D. W.
October 31st ...	11.45 a.m.	68.9	43.8	66	24.20	Cloudy.	D. W.
November 30th ...	12.15 p.m.	68.9	40.8	65	24.55	Fine.	D. W.

Rainfall for November, 1897.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report: the last column contains the corresponding Rainfall average for the month, according to the Tables published in January, 1892, as No. 124 (A) of the preceding series of Reports, Vol. II. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island: embracing the four divisions.

North-Eastern Division.	November. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	13.72	5.14	22	9	9.02
Manchioneal P.W.D.	6.49	1.53	12	18	...
Bath P. W. D.	12.23	5.25	21	17	...
Moore Town P. W. D.	25.32	5.96	21	20	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	6.69	1.77	29	22	13.72
Fellowship P. W. D.	12.99	3.18	21	24	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	16.68	2.80	20	23	...
Cedar Valley P. W. D.	4.90	1.80	21	14	...
Green Vale	...	...	...	...	...
Cinchona Plantation	11.09	3.75	21	15	10.11
Resource	6.8[illegible]	...	...	...	...
Buff Bay P. W. D.	...	...	...	...	...
Cold Spring	...	...	...	...	...
Hardware Gap P.W.D.	10.86	3.08	21	12	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	9.92	2.47	21	18	...

North-Eastern Division, *contd.*	November. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Stony Hill Rfty	5.30	1.33	20	9	6.07
Castleton Gardens	12.68	3.50	7	15	9.52
Lawrence's Tavern P. W. D.	6.26	1.46	21	9	...
Albany P. W. D.	6.45	2.50	19	11	...
Quebec	...	...	...	...	7.14
Richmond P. W. D.	10.51	4.58	21	14	...
Highgate P. W. D.	7.09	3.90	21	3	...
Gayle	14.15	4.50	21	15	10.56
Gayle P. W. D.	11.01	4.00	21	18	...
Rio Hoe	7.70	3.00	21	10	8.31
Unity Valley	8.48	2.75	21	19	6.89
Moneague P.W.D.	7.77	2.02	22	15	...
Claremont P.W.D.	6.45	2.07	21	11	...
Albion	6.01	1.30	14	13	8.73
Averham Park	8.51	2.57	21	17	7.91
Ballintoy P.W.D.	3.36	1.59	21	12	...
Means	9.43	...	...	...	9.08
Northern Division					
Port Maria P.W.D.	12.59	3.50	21	16	8.46
Ocho Rios P.W.D.	10.61	3.70	21	13	...
Drax Hall	8.54	2.00	14	13	9.56
St. Ann's Bay P.W.D.	8.58	2.40	21	19	...
Seville	8.05	1.80	14	...	9.54
Richmond Estate	4.07	1.20	21	4	9.18
Llandovery	5.80	1.35	14	10	8.49
Brown's Town P.W.D.	9.26	4.77	14	12	...
Dry Harbour P.W.D.	5.50	1.37	12	...	...
Home Castle	5.32	2.60	14	8	5.56
Richmond Pen	...	...	...	...	3.85
Mahogany Hall	7.50	4.98	14	7	5.15
Brampton Bryan	4.66	1.56	13	9	...
Bryan Castle	7.86	2.00	13	10	...
Brace	6.46	2.20	12	12	5.76

Northern Division, *contd.*	November. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	6.39	2.30	14	9	6.06
Arcadia Great House	5.60	1.56	14	11	...
Harmony Hall	...	...	...	...	5.69
Lancaster	6.42	2.48	12	11	6.22
Vale Royal	6.67	2.40	14	10	6.68
Colchis Pen	5.85	4.00	14	3	3.51
Hyde	6.48	4.15	14	8	6.18
Georgia	5.93	2.50	13	8	5.38
Long Pond	5.16	3.00	14	13	...
Steelfield	6.87	2.30	14	10	5.60
Oxford	4.49	1.85	14	8	4.44
Cambridge	4.55	1.90	14	6	5.04
Dry Valley	...	...	...	...	...
Lottery	3.45	1.90	14	6	5.07
Hampstead	...	...	...	...	...
Falmouth	2.72	..	...	...	5.30
Falmouth P.W.D.	2.29	1.00	14	7	...
Fontabelle	3.15	2.50	14	5	...
Martha Brae	...	...	...	...	...
Holland Pen	2.35	.80	13	5	3.88
Pembroke	...	...	...	...	5.12
Golden Grove	2.80	...	...	...	5.17
Green Park	2.73	1.36	14	6	5.20
Tilston	2.55	1.50	14	...	5.01
Weston Favell	...	..	...	...	4.39
Orange Valley	2.90	...	...	...	4.23
Kent	2.75	...	...	...	4.18
Dundee	2.50	...	..	...	5.39
Phœnix	2.11	1.25	13	8	5.28
Gale's Valley	1.95	...	...	...	5.02
Greenwood	...	...	...	...	4.42
Canaan	...	...	...	...	...
Lima	...	...	...	...	...
Content	...	...	...	...	...
Bellfield	2.29	1.10	14	9	...
Guilsbro'	1.31	...	...	...	6.24
Tryall	...	...	...	...	...
Leogan	...	...	...	...	4.90
Success	...	...	...	...	...
Cinnamon Hill	...	...	...	...	3.86
Rose Hall	...	...	...	...	3.98
Running Gut	...	...	...	...	4.19
Spring	3.00	...	...	...	...
Ironshore	2.00	...	...	...	3.59
Friendship	...	...	...	...	...
Providence	...	...	...	...	3.69
Montego Bay P.W.D.	2.75	1.65	2	5	3.44
Catherine Hall	3.20	...	...	...	3.70
Catherine Mount	...	...	...	...	3.84
Fairfield	3.65	2.70	1	5	3.73
Anchovy	...	...	...	...	3.55
Round Hill	3.25	1.50	2	7	3.34
Tryall	...	...	...	...	3.31
Sandy Bay P.W.D.	1.07	.37	3	4	...
Lucea P.W.D.	2.52	1.38	3	8	...
Orange Cove	...	...	...	...	3.95
Spring Valley	7.75	3.50	2	4	...
Central Sub-Division—					
Headworks R.C.C.	1.76	.85	21	9	4.77
Linstead P.W.D.	6.41	2.05	20	6	4.25
Point Hill P.W.D.	7.94	3.30	20	8	...

Northern Division, *contd.*	November. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Harker's Hall P.W.D.	...	...	...	...	...
Chapelton P.W.D.	1.52	.63	21	8	4.42
Danks Savoy	2.27	.99	12	8	...
Mears P.W.D.	2.63	1.02	21	9	...
Cave Valley	2.53	1.48	18	6	5.14
Means	4.45	...	...	...	5.45
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	3.89	1.50	12	8	...
Farm Plantation	4.76	1.25	20	12	4.74
Brockenhurst Pln.	...	...	...	...	5.87
Christiania P.W.D.	3.08	.79	21	9	...
Kendal P.W.D.	4.76	1.40	17	9	...
Mandeville P.W.D.	3.89	1.01	23	14	6.56
Marshalls Pen	...	...	...	...	...
Ulster Spring P.W.D.	4.40	1.38	12	7	...
Troy P.W.D.	4.57	1.38	3	8	...
Windsor Pen	1.80	.83	12	7	4.95
Balaclava P.W.D.	4.70	1.72	13	8	...
Elim	...	...	...	...	...
Appleton	4.05	.98	25	14	5.17
Maggotty P.W.D.	4.70	1.04	19	17	...
Spring Vale	1.70	.85	14	3	5.73
Maroon Town	4.30	1.00	16	6	4.81
Kempshot	1.71	.57	16	6	5.10
Kepp	6.43	1.74	13	19	5.71
Kew Park	...	...	...	...	4.28
Hazelymph	...	...	...	...	...
King Gate P.W.D.	2.85	1.30	2	5	...
Windsor Forest	...	...	...	...	5.99
Chester Castle	...	...	...	...	5.42
Darliston P.W.D.	5.48	1.65	15	15	...
Whithorn, P.W.D.	6.87	1.39	10	14	...
New Galloway	6.81	1.75	10	8	...
Lethe Bridge	1.55	.55	13	5	...
Copse	1.85	.70	5	5	5.75
Cacoon Castle	...	...	...	...	4.89
Golden Grove	...	...	...	...	5.20
Great Valley	2.80	1.52	12	8	...
Brownsville	2.79	1.36	16	7	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	2.84
Morgan's Bridge P.W.D.	5.74	2.04	2	15	...
King's Valley	6.45	2.80	2	8	4.73
Dias	7.06	3.00	2	10	...
Spring Hill	5.92	1.47	24	14	...
Abingdon	...	...	...	...	4.80
Means	3.69	...	...	...	5.32
Southern Division.					
Morant Point L.H. P.W.D.	4.10	1.23	22	20	5.22
Morant Bay P.W.D.	4.02	1.00	21	14	...
Lyssons	...	..	...	...	...
Easington P.W.D.	1.20	.57	20	8	...
Abbey	...	...	...	...	...
Halberstadt	...	...	...	...	...

Southern Division, *contd.*	November. 1897. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which .01 or more fell.	Average.
	in.	in.			in.
Bull Bay P.W.D.	.85	..50	22	2	...
Gordon Town P.WD.	5.06	2.05	20	9	...
Hope Gardens	3.82	1.30	20	8	3.73
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	3.41
King's House	...	...	...	...	2.17
Cavaliers	...	...	...	...	...
Shortwood	3.50	1.95	20	8	...
Monaltrie	.93	.46	21	6	3.54
Halfway-Tree P.W.D.	1.10	.50	21	5	...
Lunatic Asylum ...	1.61	1.22	21	5	...
Kingston Gardens ...	1.08	.51	20	7	...
Public Works Office Kn.	.48	.16	22	5	2.56
Plumb Point L. H.	.37	.23	20	2	2.28
Ferry P. W. D.	3.14	1.21	3	4	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	1.78	.90	3	2	2.84
Windsor Park	.68	.50	21	3	3.10
Hog Hole Pen P.W.D.	4.63	1.22	13	8	3.55
Old Harbour P.W.D.	2.21	1.02	26	5	4.33
Somerset Hall	...	...	...	...	..
May Pen P.W.D.	1.06	.30	12	6	...
Amity Hall	.70	.30	13	3	...
Hermitage	.88	.35	4	3	...
Denbigh	...	...	...	...	4.82
Yarmouth P.W.D.	1.00	.80	7	2	...
Victoria Town P.W.D.	...	...	...	...	...
Stone's Hope	5.81	1.63	12	13	4.37
Newport P.W.D.	6.43	2.00	12	7	...
Alligator Pond P.W.D.	1.17	1.17	12	1	...
Southfield P.W.D.	3.74	1.00	14	13	...
Potsdam	8.26	2.10	12	17	4.61
Long Hill	...	...	...	...	4.91
Pepper	2.82	.75	13	8	5.39
Torrington P.W.D.	9.22	1.90	13	11	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	8.05	2.46	6	13	...
Holland	6.27	1.80	24	16	...
Black River P.W.D.	7.80	1.54	20	13	4.36
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	6.73	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	6.97	1.73	13	14	...
Mount Edgecombe	6.08	1.46	13	17	4.11
Sweet River	8.45	2.59	2	11	2.81
Cornwall	9.90	2.75	2	10	...
Windsor, Sav.-la-Mar	...	...	...	...	3.65
Sav.-la-Mar P.W.D.	6.09	2.75	2	13	...
Blackheath	...	...	...	...	...
Retreat	7.41	5.25	2	7	...
Negril Pt. Lighthouse	4.32	1.90	2	13	...
Means. ...	3.88	...	...	...	3.79

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	November. 1897. In.	Average. In.
North Eastern Division	9.43	9.08
Northern "	4.45	5.45
West Central "	3.69	5.32
Southern "	3.88	3.79
Means	5.36	5.91

The greatest monthly fall viz., 25.32 ins., was recorded at Moore Town and the least fall, viz., .37 ins., was recorded at Plumb Point L. H. The greatest fall in 24 hours was 5.96 ins., also at Moore Town on the 21st, although this was very nearly approached at Retreat in Westmoreland, where there was a curiously heavy fall of 5.25 on the 2nd, although the total for the month was only 7.41 inches. The greatest number of days on which rain fell at any one place was 24 at Fellowship. Nineteen stations had in 24 hours falls of between 3 and 5 inches, and five had falls of between 5 and 7 inches.

The mean approximate rainfall as arrived at on the 4th instant (when a preliminary report on November was issued) was 5.34 ins. This result was obtained from 25 stations with "averages." The result now published in the comparative Table shows 5.36 ins, as compared with an average of 5.91 ins.

From the above it will be seen that in the N.E. and S. Divisions the fall was slightly over the average while in the N. and W.C. Divisions it was under the average by about one-fifth and one-third respectively, the mean for the island being a little below the average. A curious thing is to be noticed this month viz., the irregularity of the falls in each division. For instance in the N.E. Division out of 10 stations with averages there are 6 above and 4 below the average; in the N. Division out of 38 stations there are 11 above and 27 below the average; in the W.C. Division out of 10 stations there are 3 above and 7 below; while in the Southern Division with 15 stations there are 7 falls above the average and 8 below the average.

The following notes have come to hand:—

N. E. Division.

Rio Hoc.—Good showers in the month of November.

Moneague.—The weather during the greater part of the month has been hot and close. Frequent showers in Moneague keeping roads in soft condition. Fall rather below average, though very near Moneague the fall has been heavier, and in Pedro District very heavy and roads somewhat cut up.

N. Division.

St. Ann's Bay.—Average indoor temperature at 7 a.m., 77° and at 3 p.m., 81°. Bar. 7 a.m., 29.930 and at 3 p.m., 29.875 Cor., to 32°, sea level and gravity 45°.

Browns Town.—Seasonable weather throughout month.

W. C. Division.

Copse.—Beautiful weather for ripening up the canes.

Appleton.—Rains in the hills were heavier and more frequent.

S. Division.

Windsor Park.—If we had had a few more light showers the ill-effects of last month's heavy rain would have been at any rate diminished but the ground is now dry and baked and very hard and grass does not come up well.

Below will be found a statement of the Rainfall recorded during the year, compared with the average fall for the months in question.

		1897.	Average.
		ins.	ins.
January	...	0.82	4.09
February	...	0.69	2.64
March	...	1.82	3.01
April	...	7.52	4.61
May	...	11.57	9.57
June	...	5.23	8.21
July	...	5.87	5.20
August	...	6.51	7.83
September	...	9.52	7.70
October	...	19.30	9.34
November	...	5.36	5.91
	Totals	74.21	68.11

The total fall to the end of November is thus still six inches above the average, a result of course produced by the heavy rains of October.

EARTHQUAKES.

The Revd. S. Negus reports a "slight shock of earthquake" at 9 a.m., on the 10th at Shortwood College. Two light shocks were felt by Mr. Gall at his residence Waverly not far distant, the first about 8.50 and the latter about 9 a.m. These two shocks were felt in Kingston but were evidently very light as many people did not feel them. In fact the writer has been informed that of two persons conversing close to each other one of these only felt one of the shocks. The seismograph in Kingston gave a record of the vibrations, no doubt of both shocks, but it is not possible to separate them. The general direction of the oscillations was N.N.E. to S.S.W. and the extreme length was .134 ins.

ROBT. JOHNSTONE.

Weather Office,
Kingston, 13th December 1897.

CORREGENDUM.

The rainfall for Annotto Bay P.W.D. for September was 14.18 inches and not 1.72 as reported and published.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1897.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.
Elevation above Sea-level 50 feet.

Day.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range.	Dew Point and Humidity. 7 a.m.		Dew Point and Humidity. 3 p.m.		Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour. 7 a.m.		Wind: Direction (from) and miles per hour. 3 p.m.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.918	29.861	69.4	83.2	88.3	67.8	20.5	61.7	77	67.2	59	0.00	31	N	2	Z	0
2	.945	.913	71.8	84.6	88.1	71.0	17.1	66.4	83	69.7	61	0.00	42	N	1	W	2
3	.937	.917	69.7	85.5	89.8	69.0	20.8	65.5	87	69.0	58	0.00	28	N	1	SW	2
4	.996	.904	70.2	84.8	89.3	69.7	19.6	65.8	82	69.8	67	0.00	24	N	1	SW	2
5	.954	.866	72.5	84.1	87.2	71.2	16.0	66.6	82	69.8	62	0.00	29	N	1	NE	2
6	.950	.865	70.6	84.3	88.0	68.9	19.1	65.7	84	67.9	58	0.00	40	N	3	NW	2
7	.950	.904	68.8	85.6	87.2	67.8	19.4	65.9	91	67.8	55	0.00	42	N	1	S	2
8	.965	.865	69.6	85.3	87.0	68.4	18.6	66.2	89	67.9	56	0.00	31	N	1	SW	2
9	.937	.866	70.4	85.8	88.7	68.2	20.5	62.1	75	67.5	55	0.00	31	N	1	Z	0
10	.922	.843	70.2	85.2	87.7	69.1	18.6	66.5	88	70.2	61	0.00	38	N	1	E	2
11	.919	.842	69.7	84.7	88.8	70.3	18.5	64.6	84	67.2	56	0.02	58	N	1	SW	2
12	.914	.876	70.5	82.2	86.3	69.1	17.2	64.4	81	68.3	53	0.00	44	N	1	N	1
13	.875	.789	71.9	84.6	86.9	69.0	17.9	64.4	77	69.3	60	0.00	61	N	2	SE	5
14	.901	.855	72.2	83.8	88.0	70.0	18.0	64.1	76	72.0	69	0.00	40	N	1	SE	2
15	.922	.861	71.4	84.3	86.3	70.8	15.5	66.6	84	67.5	57	0.00	29	N	1	S	1
16	.973	.904	69.6	87.3	91.3	69.1	22.2	66.2	89	63.4	45	0.00	27	N	1	S	2
17	.988	.920	70.4	85.5	91.3	69.0	22.3	65.6	85	67.2	54	0.00	53	N	1	Z	0
18	.954	.868	71.4	83.4	87.9	70.3	17.6	68.8	91	68.4	61	0.05	29	N	1	Z	0
19	.905	.896	75.4	85.4	88.8	70.6	18.2	67.1	75	66.4	53	0.00	29	Z	0	N	2
20	.946	.880	74.2	84.6	89.9	70.8	19.1	68.0	81	72.6	67	0.00	94	N	2	SE	4
21	.950	.874	73.4	84.7	87.8	70.8	17.0	67.8	83	69.2	59	0.00	40	N	1	SE	9
22	.973	.902	72.2	84.8	87.9	71.2	16.7	67.5	85	69.3	60	0.00	85	N	2	SE	6
23	.014	.935	68.2	85.5	89.5	67.7	21.8	64.1	87	62.9	47	0.00	49	N	1	S	3
24	.028	.962	71.6	85.7	90.4	69.7	20.7	62.7	74	69.4	58	0.00	44	N	1	SE	3
25	.051	.940	69.2	86.6	88.9	68.3	20.6	66.9	90	66.8	52	0.00	38	N	1	SE	3
26	.039	.926	71.8	85.3	88.6	68.0	20.6	64.6	78	69.8	60	0.00	59	N	3	SE	3
27	.022	.932	69.7	88.5	90.8	69.4	21.4	64.0	82	67.9	51	0.00	27	N	2	S	3
28	.016	.938	71.8	85.2	89.4	71.3	18.1	66.9	85	69.3	59	0.00	46	N	3	S	4
29	.016	.940	72.6	84.6	87.4	72.3	15.1	68.4	87	71.2	64	0.02	36	N	1	N	3
30	.016	.933	71.6	83.7	89.6	70.4	19.2	66.5	85	68.2	60	0.00	22	N	2	S	2
31	.985	.883	71.3	85.3	89.2	70.9	18.3	66.5	85	70.9	62	0.00	40	N	2	S	4
Means.	29.965	29.893	71.1	85.0	88.6	69.7	18.9	65.7	83	68.5	58	..	41.1	N	1.4	SSE	2.7
Total	...	...	...	...	...	...	...	...	...	...	...	0.09	...	...	...	...	...

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky) 7 a.m. Lower.	7 a.m. Middle.	7 a.m. Upper.	3 p.m. Lower.	3 p.m. Middle.	3 p.m. Upper.	Weather: Remarks, &c.
1	...	...	...	2 Str. c.	...	...	Fine.
2	...	...	...	...	2 Cum. SE	2 Cir. s. E	Fine a.m. Fair p.m.
3	...	...	...	2 Str c	...	...	Fine.
4	...	...	...	...	1 Cum SE	...	Fine.
5	...	...	...	...	2 Alt c 2 Cum. NW	1 Cir. NW	Fine a.m. Fair p.m.
6	...	2 Alt. c.	5 Cir.	...	1 Cum	3 Cir.	Cloudy a.m. Fair p.m.
7	...	...	...	...	1 Cum SE	...	Fine but hazy a.m. Fine p.m.
8	...	1 Cum.	...	...	2 Cum. SE	...	Fine.
9	...	...	...	1 Str. c.	3 Cum SE	3 Cir. s.	Fine a.m. Cloudy p.m.
10	...	1 Cum.	...	...	1 Cum.	...	Fine.
11	...	1 Cum.	...	...	1 Alt c. 2 Cum. SE	1 Cir. s.	Fine, light rain at 4.57 to 5.6 p.m.
12	...	...	...	...	6 Alt. c 1 Cum.	...	Fine a.m. Cloudy p.m.
13	...	3 Alt. c.	...	...	1 Cum	...	Fair a.m. Fine p.m.
14	...	8 Alt. c.	...	1 Alt s	3 Cum. E	3 Cir. s. E	Cloudy. Slight shock Earthquake at about 7.40 a.m.
15	...	...	1 Cir.	...	2 Cum	5 Cir. s.	Fine a.m. Cloudy p.m.
16	...	1 Cum. E	...	...	1 Cum	..	Fine. R. to N. during night.
17	...	1 Cum.	...	3 Str. c.	...	...	Fine. R. during early morning.
18	1 Alt s.	1 Cum.	6 Cir s.	1 Str c	...	...	Cloudy a.m. Fine p.m.
19	1 Alt s.	1 Cum.	6 Cir. s.	...	2 Cum.	1 Cir. s.	Cloudy a.m. Fine p.m.
20	...	2 Cum.	2 Cir. s.	3 Str. c SE	2 Cum SE	4 Cir. s.	Fair a.m. Cloudy p.m.
21	2 Str. c. SE	1 Cum. SE	6 Cir. s. SE	...	1 Cum. SE	1 Cir. SE	Cloudy a.m. Fine p.m.
22	...	...	...	...	1 Cum SE	...	Fine but hazy a.m. Fine p.m.
23	...	...	...	...	1 Cum	...	Fine.
24	1 Str. c. SE	...	7 Cir. s. E	...	1 Cum	...	Cloudy a.m. Fine p.m.
25	...	1 Cum.	...	...	3 Cum E	1 Cir. s. SE	Fine but hazy a.m. Fair p.m.
26	...	1 Cum.	...	3 Str c. SE	1 Cum SE	...	Fine a.m. Fair p.m.
27	...	...	...	1 Str c SE	1 Cum. SE	...	Fine but hazy a.m. Fine p.m.
28	...	1 Cum.	1 Cir. s. SE	1 Str c SE	1 Cum.	3 Cir. s. SE	Fine but hazy a.m. Fair p.m.
29	2 Cir. s.	1 Cum.	4 Str. c.	...	1 Cum.	2 Cir.	Cloudy a.m. Fair p.m. R at 2.10 to 2.21 p.m.
30	...	...	...	7 Str c SE	2 Cum.	...	Fine but hazy a.m. Cloudy p.m.
31	...	1 Cum.	1 Cir.	...	1 Cum.	4 Str. c	Fine but hazy a.m. Fair p.m.
Means	.2	.9	1.3	.8	1.6	1.1	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure. 7 a.m.	Bar. Pressure. 3 p.m.	Temperature. 7 a.m.	Temperature. 3 p.m.	Temperature. Max.	Temperature. Min.	Temperature. Range	Extreme Temperature. Max.	Date.	Min.	Date.	Range
	ft.	In.	In.	°	°	°	°	°	°		°		°
Morant Point L. H.	8	29.955	29.902	80.0	82.5	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.965	29.901	72.4	83.0	86.1	69.0	17.1	90	16 & 18	64	1	26
Kingston ...	50	29.965	29.893	71.1	85.0	88.6	69.7	18.9	91.3	16 & 17	67.7	23	23.6
Montego Bay ...	160	29.961	29.896	70.9	81.2	83.5	68.4	15.1	86.0	6	63.6	1 & 24	22.4
Castleton Gardens...	580	29.626	29.600	69.1	80.3	83.5	64.4	19.1	87	27	60	11 & 13	27
Hope Gardens ...	600	...	...	68.3	84.3	88.8	65.3	23.5	90	*4	62	1	28
Stony Hill Refty. ...	1,400	...	...	69.1	78.0	84.5	64.8	19.7	87	5 9 & 28	62	1 & 13	25
Hill Gardens ...	4,907	25.365	25.338	59.4	64.4	68.5	55.8	12.7	72	3 & 23	52	7	20

The bar. pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°., and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

Station.	Elevation.	Dewpoint and Humidity. 7 a.m.		3 p.m.		Rainfall.	Wind per diem.	Wind: direction (from) and miles per hour. 7 a.m.		3 p.m.		Amount of Cloud, Lower, Middle, and Upper 7 a.m. L.	M.	U.	3 p.m. L.	M.	U.
	ft.	°		°		In.											
Morant Point L.H.	8	...	...	...	...	3.42	...	NE	7.6	NE	10.2	2.0	2.0	0.9	1.8	1.7	0.7
Negril Point L. H.	33	69.3	89	71.2	67	1.99	222.9	NE	8.8	NE b N	18.4	1.6	1.5	0.2	4.0	1.9	0.5
Kingston ...	50	65.7	83	68.5	58	.09	41.1	N	1.4	SSE	2.7	0.2	0.9	1.3	1.8	1.6	1.1
Montego Bay ...	160	69.0	94	71.7	74	3.37	31.3	E	1.8	ENE	5.1	1.8	0.1	0.3	1.1	1.5	0.0
Castleton Gardens...	580	67.2	85	72.1	71	7.75	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	64.4	87	71.3	65	.75	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	65.7	89	73.3	86	2.90	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	54.9	82	59.8	84	6.63	50.9	E ly	...	E ly	...	...	...	...	...	...	...

The miles of wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the lower clouds are for the most part fracto-stratus; the middle clouds, cumulus; and the upper clouds, cirrus, or cirro-stratus

* And several other days.

The Health of Kingston.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

		December. 1897.	Average.
Infantile diseases not otherwise specified	...	31	16
Lung diseases	...	23	16
Fever and Malaria	...	35	10
Dysentery and Diarrhœa	...	10	6
Various	...	49	59
Total	...	148	107

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Min.	Temp.	Rain.	Remarks.	Observer's Initial.
1897.		°	°	°	in.		
January 31st ...	10.30 a.m.	70.9	38.8	61	4.30	Fine.	D. W.
February 27th ...	3.30 p.m.	70.9	40.8	51	0.90	Fine, clear, high wind from N.E.	W. H.
March 31st ...	2.30 p.m.	67.9	39.8	61	3.10	Fine, but cloudy.	W. H.
April 30th ...	10 a.m.	70.9	42.8	60	10.08	Misty.	D. W.
May 31st ...	12.30 p.m.	66.9	42.8	64	11.10	Cloudy.	D. W.
June 30th ...	10.00 a.m.	70.9	44.8	65	6.03	Cloudy.	D. W.
July 31st ...	9.15 a.m.	69.9	41.8	54	5 15	Light rain.	D. W.
August 31st ...	12.30 p.m.	68.9	44.8	51	8.50	Raining.	D. W.
September 30th ...	12 10 p.m.	66.9	40.8	53	14.10	Cloudy.	D. W.
October 31st ...	11.45 a.m.	68.9	43.8	66	24.20	Cloudy.	D. W.
November 30th ...	12.15 p.m.	68 9	40.8	65	24.55	Fine.	D. W.
December 31st ...	11.45 a.m.	66.9	41 8	65	18.35	Cloudy.	J. W.

Rainfall for December, 1897.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to the Tables published in January, 1892, as No. 124 (A) of the preceding series of Reports, Vol. 11. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island: embracing the four divisions.

North-Eastern Division.	December. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	4.45	1.20	26	6	9.85
Manchioneal P.W.D.	3.75	.86	*28	20	...
Bath P. W. D.	6.12	1.59	28	18	...
Moore Town P. W. D.	17.05	2.84	18	18	...
Mt. Ephraim	...	...		...	...
Port Antonio P. W. D.	5.88	1.07	29	19	...
Fellowship P. W. D.	11.00	1.57	20	26	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	12.20	1.66	18	22	...
Cedar Valley P. W. D.	2.14	67	11	11	...
Green Vale	...	...	...	...	...
Cinchona Plantation	6.63	2.45	17	17	12.15
Resource	2.00		...	...	...
Buff Bay P. W. D.	5.74	.97	20	20	...
Cold Spring	5.10	2.50	18	7	...
Hardware Gap P.W.D.	5.79	3.20	17	9	...
Rose Hill	...		...	...	...
Annotto Bay P. W. D.	6.00	1.25	6	14	...
Stony Hill Rfty	2.90	1.50	17	5	4.60

* Also 29.

North-Eastern Division, *contd.*	December. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Castleton Gardens	7.75	3.20	17	10	12.76
Lawrence's Tavern P. W. D.	1.93	1.15	18	3	...
Albany P. W. D.	4.63	1.00	18	10	...
Quebec	5.95	...	...	...	10.42
Richmond P. W. D.	3.83	2.22	20	10	...
Highgate P. W. D.	...	...	...	...	...
Gayle	7.82	2.45	28	8	11.48
Gayle P. W. D.	8.24	2.90	20	16	...
Rio Hoe	5.28	1.35	20	9	10.62
Unity Valley	4.47	1.20	20	16	7.84
Moneague P.W.D.	4.64	1.22	21	12	...
Claremont P.W.D.	8.46	2.66	20	12	...
Albion	7.60	2.30	20	12	8.00
Averham Park	7.77	1.75	17	14	12.29
Ballintoy P.W.D.	3.41	.84	18	7	...
Means	6 06	...	...	...	10.00
Northern Division					
Port Maria P.W.D.	6.11	1.50	21	18	8.89
Ocho Rios P.W.D.	4.80	1.00	20	11	...
Drax Hall	5.64	1.80	20	15	9.26
St. Ann's Bay P.W.D.	7.33	1.95	20	19	...
Seville	7.35	...	...	...	9.15
Richmond Estate	1.45	.70	18	4	10.31
Llandovery	3.93	1.10	31	8	10.21
Brown's Town P.W.D.	5.90	1.00	29	11	...
Dry Harbour P.W.D.	6.66	1.44	20	11	...
Chewmagna P. W. D.	2.54	1.05	18	9	...
Home Castle	5.46	2.05	29	10	7.48
Richmond Pen	...	...	...	...	4.40
Mahogany Hall	3.97	1.41	18	6	5.71
Brampton Bryan	2.40	.57	29	10	6.12
Bryan Castle	6.07	1.75	20	14	6.48
Braco	4.42	1.20	20	8	6.48

Northern Division, *contd.*	December. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	4.82	2.17	26	9	7.29
Arcadia Great House	...	...	...	...	...
Harmony Hall	...	...	...	...	6.56
Lancaster	3.75	1.12	20	8	7.06
Vale Royal	5.02	1.02	20	11	8.39
Colchis Pen	.93	.60	19	3	5.31
Hyde	2.96	.82	30	7	6.89
Georgia	5.62	2.50	31	8	7.53
Long Pond	2.93	.75	9	9	...
Steelfield	3.26	.80	19	9	6.84
Oxford	5.10	1.40	20	10	7.60
Cambridge	3.46	.60	20	11	7.04
Dry Valley	...	..	...	...	...
Lottery	2.78	.68	8	10	6.14
Hampstead	...	...	...	...	...
Falmouth	6.50	..	...	...	5.85
Falmouth P.W.D.	3.30	.59	10	13	...
Fontabelle	4.60	1.20	*18	11	...
Martha Brae	...	...	...	...	...
Holland Pen	4.60	1.40	31	6	4.77
Pembroke	...	...	...	...	5.95
Golden Grove	3.40	...	...	...	5.00
Green Park	3.69	1.20	20	12	6.12
Tilston	5.05	...	...	...	5.15
Weston Favell	3.48	...	...	11	5.41
Orange Valley	6.02	...	...	...	5.97
Kent	4.65	...	..	...	5.28
Dundee	4.68	...	...	...	6.09
Phœnix	3.04	...	...	...	8.19
Gale's Valley	3.10	...	...	...	5.55
Greenwood	...	...	...	...	5.59
Canaan	3.29	.80	20	13	...
Lima	3.62	.90	20	12	...
Content		...	...	...	5.48
Bellfield	2.75	1.00	19	10	...
Guilsbro'	3.55	...	...	...	4.69
Tryall	...	...	...	...	...
Leogan	...	...	...	...	7.49
Success	3.82	.75	18	12	3.86
Cinnamon Hill	4.62	1.20	31	13	5.51
Rose Hall	4.68	1.35	31	14	6.47
Running Gut	...	...	...	...	5.72
Spring	4.80	...	...	...	...
Ironshore	4.58	...	...	...	5.81
Friendship	...	...	...	...	...
Providence	...	...	...	...	6.72
Montego Bay P.W D.	3.37	.75	19	8	...
Catherine Hall	4.50	...	...	...	5.70
Catherine Mount	...	...	...	...	6.16
Fairfield	...	...	...	...	5.83
Anchovy	...	...	...	...	3.85
Round Hill	...	...	...	...	3.50
Tryall	...	...	...	...	3.67
Sandy Bay P.W.D.	2.54	1.84	19	7	...
Lucea P W.D.	3.96	1.41	30	12	4.73
Orange Cove	...	...	...	...	...
Spring Valley	5.15	2.00	21	6	...
Central Sub-Division—					
Headworks R.C.C.	1.74	.69	20	6	2.29
Linstead P.W.D.	2.06	1.05	18	5	3.56
Point Hill P.W.D.	2.99	.72	20	8	...

Northern Division, *contd.*	December. 1897. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Harker's Hall P.W.D.	2.22	.20	20	5	...
Kellits P. W. D.	2.52	1.45	13	10	...
Chapelton P.W.D.	.64	.37	20	3	2.40
Danks Savoy	1.73	.64	28	7	...
Mears P.W.D.	...	...	..	...	...
Cave Valley	1.22	.35	12	5	2.71
Means	3.95	...	...	...	6.26
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	1.33	.50	19	4	...
Farm Plantation	.99	.50	29	3	3.40
Brockenhurst Pln.	...	...	...	...	6.73
Christiania P.W.D.	1.33	.33	14	8	...
Kendal P.W.D.	2.13	.89	28	8	...
Mandeville P.W.D.	1.02	.29	14	8	3.84
Marshalls Pen	...	...	...	...	3.51
Ulster Spring P.W.D.	3.31	.50	19	11	...
Troy P.W.D.	3.63	1.54	31	7	...
Windsor Pen	2.87	.70	19	12	7.01
Balaclava P.W.D.	2.17	.85	31	5	...
Elim	...	...	...	...	...
Appleton	3.52	1.00	27	13	3.44
Maggotty P.W.D.	3.81	.96	14	16	...
Spring Vale	3.88	1.17	19	12	6.60
Maroon Town	...	...	...	...	4.51
Kempshot	3.86	...	...	...	4.48
Kepp	1.74	.71	26	12	3.14
Kew Park	...	...	...	...	3.21
Hazelymph	2.15	.98	25	4	...
King Gate P.W.D.	3.15	.60	19	8	...
Windsor Forest	...	...	...	...	4.37
Chester Castle	...	...	...	...	2.82
Darliston P.W.D.	3.51	1.04	28	10	...
Whithorn, P.W.D.	3.09	1.11	28	5	...
New Galloway	3.00	1.15	28	3	...
Lethe Bridge	2.66	.85	20	6	...
Copse	2.89	.63	25	5	3.83
Cacoon Castle	2.55	.56	25	9	6.09
Golden Grove	...	...	...	...	4.10
Great Valley	4.51	1.90	21	6	6.84
Brownsville	3.49	1.73	30	10	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	3.05
Morgan's Bridge PWD.	2.83	.77	28	10	...
King's Valley	2.64	.67	28	8	4.49
Dias	4.25	2.10	21	10	...
Spring Hill	.68	.26	2	6	...
Abingdon	...	...	...	...	4.86
Means	2.77	...	...	...	4.83
Southern Division.					
Morant Point L.H. P. W.D.	3.42	1.29	29	13	6.65
Morant Bay P.W.D.	1.35	.56	28	7	...
Lyssons	...	...	...	...	...
Easington P.W.D.	.30	.10	29	7	...
Abbey	...	...	...	...	3.34
Halberstadt	...	...	...	...	2.85

* and 30.

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Southern. Division, *contd.*	December. Total Fall.	1897. Greatest fall in 24 hours. Amount	Date.	Days on which .01 or more fell.	Average.
	in.	in.			in.
Bull Bay P.W.D.	.00	.00	...	0	...
Gordon Town P.W.D.	.60	.23	26	4	...
Hope Gardens	.75	.44	11	4	2.55
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	2.77
King's House	.34	.14	31	2	...
Cavaliers	...	...	...	...	...
Shortwood	1.43	.45	11	7	...
Monaltrie	.47	.16	29	8	2.17
Halfway-Tree P.W.D.	.63	.28	11	5	...
Lunatic Asylum ...	.00	.00	...	0	...
Kingston Gardens ...	.09	.08	17	2	...
Public Works Office Kn.	.09	.05	18	3	1.91
Plumb Point L. H.	.03	.03	27	1	1.62
Ferry P. W. D.	.89	.50	17	3	...
Caymanas	...	...	...	...	1.79
Spanish Town P. W. D.	.85	.46	6	5	2.27
Windsor Park	...	...	...	...	2.42
Hog Hole Pen P.W.D.	1.02	.42	3	4	2.57
Old Harbour P.W.D.	.04	.04	29	1	2.66
Somerset Hall	1.80	.80	26	3	..
May Pen P.W.D.	.19	.19	12	1	...
Amity Hall	1.15	.85	30	3	...
Hermitage	.74	.46	5	3	...
Denbigh	...	...	...	...	2.29
Yarmouth P.W.D.	.60	.60	30	1	...
Victoria Town P.W.D.	...	...	...	..	...
Stone's Hope	.71	.45	29	4	2.52
Newport P.W.D.	1.02	.82	28	2	...
Alligator Pond P.W.D.	...	...	...	...	...
Southfield P.W.D.	2.79	.77	8	7	...
Potsdam	4.25	1.40	8	9	3.05
Long Hill	4.47	1.37	2	11	3.07
Pepper	6.05	3.00	14	5	2.48
Torrington P.W.D.	3.06	1.25	2	7	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	1.52	.54	5	4	...
Holland	1.15	.48	2	6	...
Black River P.W.D.	.97	.47	2	5	2.49
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	1.85	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	.49	.26	20	3	...
Mount Edgecombe	.47	.12	24	10	2.61
Sweet River	1.19	.65	28	3	2.87
Cornwall	2.95	.95	25	5	...
Windsor, Sav.-la-Mar	...	...	...	...	2.46
Sav.-la-Mar P.W.D.	1.34	.56	21	5	...
Blackheath	...	...	...	...	...
Retreat	3.60	1.30	21	2	...
Negril Pt. Lighthouse	1.99	.86	21	8	...
Means. ...	1.65	...	...	...	2.75

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	December. 1897. In.	Average. In.
North Eastern Division	6.06	10.00
Northern "	3.95	6.26
West Central "	2.77	4.83
Southern "	1.65	2.75
Means	3.61	5.96

Th greatest monthly fall, viz., 17.05 ins. was recorded at Moore Town, and no rain was recorded at Bull Ray, and the Lunatic Asylum.

The greatest fall in 24 hours was 3.20 ins. at Hardware Gap and also at Castleton Gardens on the 17th. The greatest number of days on which rain fell at any one place was 26 at Fellowship. Three stations had in 24 hours falls of between 3 and 5 inches.

The mean approximate rainfall as arrived at on the 4th inst., (when a preliminary report on December was issued) was 3.70 inches. This result was obtained from 31 stations with "averages." The result now published in the comparative Table shows 3.61 ins as compared with an average of 5.96 ins.

From the above it will be seen that the rainfall for December was considerably below the average in every Division, the mean for the island being three-fifths of the average.

The following notes have come to hand:—

Rio Hoe Pen.—Good showers in the month.

Moneague P. W. D.—The first two weeks very little rain fell and the temperature has varied much. Sometimes cool and pleasant, and then generally close and muggy before rain. Showers have been frequent the latter part of month, but apparently heavier in the surrounding districts than at Moneague.

St. Ann's Bay P. W. D.—Cloudy and much thunder to N. and NE. on 9th; northers to end of December. Average indoor temperature at 7 a.m. 75° and at 3 p.m. 80°. Bar. 7 a.m. 29.962 and at 3 p.m. 29.915. Cor. to 32°, sea level and gravity 45°. (J. F. B.)

Farm Plantation.—Country looks handsome, but Cash and Business very scarce.

King's Valley.—The first half of the month was exceedingly dry.

Sav.-la-Mar P. W. D.—The weather during December was warm on several days during the month.

Retreat.—Only two rains this month, 1.80 on 21st and 1.80 on 28th, altogether for the year 100.73 the largest rainfall on record here.

Below will be found a statement of the Rainfall recorded during the year, compared with the average fall for the months in question,

	1897. ins.	Average. ins.
January ...	0.82	4.09
February ...	0.69	2.64
March ...	1.82	3.01
April ...	7.52	4.61
May ...	11.57	9.57
June ...	5.23	8.21
July ...	5.87	5.20
August ...	6.51	7.83
September ...	9.52	7.70
October ...	19.30	9.34
November ...	5.36	5.91
December ...	3.61	5.96
Totals ...	77.82	74.07

From this approximate return it will be seen that the total rainfall for the year 1897, was nearly four inches above the average. The chief deficiencies were in January, February, March, June and December and the chief excesses were in April, May, September and October.

Earthquake.

An Earthquake was felt in Kingston and the neighbourhood on the 14th December. The Rev. S. Negus, from Shortwood College reports it as a "short sharp shock of Earthquake about 7.45 a.m." The Hon. Thos. Capper writes as follows :—"On the 14th December, at 8.40 a.m. a sharp shock of Earthquake was experienced at Cassia Grove, St. Andrew, preceded by the sound of an explosion like the firing of a heavy gun. This sound was heard distinctly at other places in the neighbourhood." The writer felt it as a sharp shock at Constant Spring Hotel lasting about four or five seconds at 8.39 a.m. The *Gleaner* reports it as a "very pronounced Earthquake" in Kingston.

The Seismograph at the Weather Office in Kingston gave a record of the vibrations which shows that it was not as severe in Kingston as the one of the 10th November. The general direction of the oscillations on the 14th December was NNE to SSW, and the extreme length was ·108 ins.

KINGSTON JAMAICA—Mean results for the year 1897. Elevation 50 Feet.

Month.	Barometer.		Thermometer F.					Dew point and Humidity.				Wind. Direction from and miles per hour.				Average velocity per day.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	7 a.m.		3 p.m.		7 a.m.		3 p.m.		
January ...	29.991	29.907	68.2	82.7	85.7	66.6	19.1	60 5	77	64.7	55	N	1.8	S by E	4.2	92.7
February ...	30.002	29.939	70.5	84.6	87 5	68.9	18.6	63.1	77	68.4	59	N	1.3	S E	5.9	107.1
March ...	29.986	29.905	71.4	84.5	86.4	69.6	16.8	64.9	81	68 2	59	N	0.8	SE by S	5.7	89 4
April ...	29.958	29.884	74.6	84.0	86.9	72.1	14.8	67.3	78	70.0	63	N	1.1	S E by S	5.8	94.0
May ...	29.903	29 855	78.1	85.1	87.9	73.6	14.3	70.7	78	73.8	66	N	1.1	S E by S	4.2	84.7
June ...	29.955	29.907	79.3	86.5	89.1	74.5	14.6	70.0	73	71.4	61	N	1.4	S E	9 2	119.0
July ...	29.965	29.918	77.5	86.2	89.1	73.5	15.6	69 4	77	72.5	66	N	1.0	S E	7.3	94.6
August ...	29.965	29.904	76.3	86.8	89.5	74.0	15.5	70.4	83	72.9	64	N	1.0	S E	7.1	89.5
September ...	29.927	29.873	76.4	85.1	88.8	73 9	14.9	71.1	84	73.2	68	N	1.3	S E	4.9	74.7
October ...	29.887	29.826	74.2	82.2	85.4	72.2	13.2	71.4	91	73.1	76	N	1.0	S E by S	3.5	32.8
November ...	29.931	29.862	72.7	83.9	88.3	71.3	17.0	68.5	87	71.0	66	N	1.3	Var.	3.0	34.5
December ...	29.965	29.893	71.1	85.0	88.6	69.7	18.9	65.7	83	68.5	58	N	1.4	S S E	2.7	41.1
Mean ...	29.953	29.889	74.2	84.7	87.8	71.7	16.1	67.8	81	70.6	63	N	1.2	S.E.byS.	5.3	79.5

KINGSTON JAMAICA.

Month.	Clouds in tenths of the sky.						Temperature.					Total Rainfall.	Weather Remarks, etc.
	7 a.m.			3 p.m.			Extremes for the Month.						
	Lower.	Middle.	Upper.	Lower.	Middle.	Upper.	Max.	Date.	Min.	Date.	Range.		
January ...	.2	.5	1.1	.5	1.4	1.4	89.5	18	62.0	12	27.5	0.02	Fine,
February ...	.2	.6	.7	1.4	1.0	1.0	92.3	26	65.8	14, 15	26.5	0.00	Fine.
March ...	.3	.7	1.0	1.5	1.2	1.9	91.3	17	65.1	12	26.2	0.13	Fine.
April ...	.7	.4	2.1	2.3	1.0	2.6	89.5	12	69.8	27	19.7	2.00	Fair.
May ...	.5	1 0	1.4	2.9	1.2	2 8	90.4	8, 23	69.9	18	20.5	3.47	"Seasons."
June ...	.5	.8	3.6	1.0	1.2	3.6	92.2	24	71.8	25	20.4	0.58	Cloudy.
July ...	1 1	.6	3.2	2.6	1.3	3.6	92.4	23, 30	70.8	23	21.6	1.74	Cloudy. Frequent Thunder.
August ...	.8	.6	3 5	1.5	1.1	4.0	94.0	9	71.0	26	23.0	2.13	Cloudy. Thunder and Lightning.
September ...	1.0	1.0	4.4	2.5	1.0	3.5	91.3	2	70.7	27	20.6	8.84	"Seasons" end of month.
October ...	2.5	1.1	2.3	3.5	1.1	2.8	90.9	7	70.3	24	20.6	23.45	Heavy "Seasons."
November ...	1	1.1	2.8	1.5	1.4	2.3	90.7	8	68.7	25, 26	22.0	0.48	Cloudy.
December ...	.2	.9	1.3	.8	1.6	1.1	91.3	16, 17	67.7	23	23.6	0.09	Fine.
Mean ...	.7	.8	2.3	1.8	1.2	2.6	91.3		68.6		22.7		
Total ...												42.93	

Weather Office,
Kingston, 22nd January, 1898.

Robt. Johnstone.