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No. 228.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1898.

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	29.880	29.831	76.6	80.7	86.8	72.8	14.0	71.0	83	72.1	66	0.00	13	N	1	S	2
2	.867	.844	76.2	83.9	85.8	70.4	15.4	66.8	75	70.8	65	0.00	20	Z	0	NE	2
3	.913	.879	76.8	83.7	87.9	70.0	17.9	67.1	72	72.9	70	0.00	53	N	2	SE	4
4	.921	.868	77.6	84.8	87.3	72.5	14.8	68.6	64	71.3	64	0.00	37	Z	0	SE	9
5	.894	.840	76.4	84.0	88.2	72.3	15.9	70.1	81	72.5	69	0.00	70	N	1	E	5
6	.870	.823	78.1	75.8	85.4	74.9	10.5	72.2	82	73.4	92	2.38	78	N	1	E	3
7	.870	.842	73.1	84.4	85.7	71.1	14.6	71.5	95	73.6	71	0.22	33	Z	0	SE	5
8	.898	.856	78.3	86.5	87.9	75.7	12.2	73.1	84	72.9	64	0.00	72	N	1	SE	6
9	.927	.886	82.1	86.5	87.4	80.3	7.1	71.1	70	72.7	64	0.00	91	ESE	3	SE	6
10	.958	.908	81.8	86.3	88.9	79.6	9.3	69.8	67	68.8	56	0.00	91	E	4	SE	5
11	.959	.893	77.1	86.8	88.3	73.6	14.7	68.8	76	70.9	59	0.53	76	N	2	SE	8
12	.954	.896	77.8	86.5	87.9	71.7	16.2	71.7	82	70.4	59	0.00	35	N	1	SE	7
13	.987	.926	75.0	86.5	90.3	71.4	18.9	66.6	75	72.2	62	0.00	52	N	1	SE	5
14	30.006	.947	74.8	87.0	89.1	72.8	16.3	67.7	79	71.2	60	0.00	21	N	1	N	2
15	29.975	.911	77.5	87.7	90.6	72.8	17.8	68.8	75	67.5	51	0.00	58	N	1	SE	7
16	.932	.880	78.5	85.4	87.9	71.1	16.8	67.8	78	70.5	61	0.00	38	N	1	ESE	5
17	.929	.917	82.5	87.8	88.5	72.8	15.7	69.3	65	67.2	51	0.00	96	N	1	SE	7
18	.942	.904	82.2	87.4	88.9	75.1	13.8	70.3	68	66.1	49	0.00	113	N	1	SE	7
19	.933	.902	82.0	87.0	88.5	76.1	12.4	69.8	67	69.6	56	0.00	115	N	1	SE	9
20	.943	.912	79.2	81.6	88.3	74.2	14.1	63.9	60	72.9	75	0.00	106	N	1	SE	8
21	.961	.941	76.2	84.8	85.5	75.3	10.2	72.1	87	69.0	59	0.01	87	Z	0	SE	8
22	.974	.940	73.3	85.0	87.7	72.3	15.4	71.2	93	70.1	61	0.25	72	N	1	SE	6
23	.984	.946	75.6	84.3	87.3	72.1	15.2	70.3	84	71.1	64	0.00	62	N	1	SE	8
24	.979	.929	75.7	84.5	88.2	71.4	16.8	71.4	87	73.8	70	0.00	44	N	1	SE	9
25	.944	.917	77.6	82.4	87.1	72.1	15.0	70.7	79	71.9	71	0.00	80	Z	0	SE	5
26	.961	.925	73.3	89.3	90.6	71.4	19.2	64.4	74	70.6	54	0.00	70	N	2	SE	4
27	.976	.974	79.1	84.2	85.7	71.2	14.5	71.0	76	69.3	61	0.00	45	N	5	SE	3
28	.988	.906	73.6	87.6	88.7	71.6	17.1	66.9	80	72.2	61	0.00	26	N	1	S	1
29	.929	.897	76.4	80.5	86.7	72.6	14.1	69.2	78	72.5	77	0.00	46	Z	0	S	2
30	.936	.886	77.4	84.1	87.5	71.9	15.6	71.1	81	72.6	69	0.00	35	Z	0	SE	6
Means.	29.940	29.898	77.4	84.9	87.8	73.1	14.7	69.5	77	71.1	64		61.1	N	1.2	SE	5.6
Total	...	...	...	...	...	...	...	...	...	...	...	3.39	...		...		

National Oceanic and Atmospheric Administration

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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.	Weather: Remarks, &c.
1	...	...	3 Cir.	8 Str. c.	1 Cum	...	Fine a.m. Cloudy p.m.
2	...	...	9 Cir. s.	2 Alt. s. 3 Str. c.	2 Cum. SE	2 Cir. s.	Cloudy T. to N. at 1.7 p.m. and at 2.57 p.m.
3	...	1 Cum.	...	1 Str. c.	1 Cum. SE 3 Alt. c.	3 Cir.	Fine a.m. Cloudy p.m.
4	...	1 Cum.	7 Cir.	1 Str. c.	2 Cum. SE 1 Alt. c.	5 Cir.	Cloudy.
5	...	1 Cum.	...	1 Alt. s.	2 Cum. 3 Alt. c.	4 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 1.50 p.m.
6	3 Alt. s.	1 Cum	5 Cir. s.	3 Str. c. 4 Alt. s. 2 Nim.	...	...	Cloudy a m. Raining p.m. T. to S. at 6 a.m. light R. at 9.43 a.m. T. to S.W. at 10.12 a.m. R. at noon to 12.37 p.m. and from 2.9 p.m. to midnight. T. to N. at 4.17 p.m. with L. during the night.
7	10 Alt. s.	...	...	...	2 Cum. SE	6 Cir.	Raining a.m. R. during early morning to 8.39 a.m. Cloudy p.m.
8	1 Str.	2 Cum. SE	7 Cir. s.	...	2 Alt. c. 2 Cum. SE	3 Cir.	Cloudy.
9	...	1 Cum. SE	9 Cir.	...	2 Cum. SE	6 Cir.	Cloudy.
10	...	1 Cum. SE	5 Cir.	...	1 Cum.	5 Cir.	Cloudy.
11	...	...	6 Cir.	...	3 Cum.	5 Cir.	Cloudy. Squall from S.E at 6.28 p.m. R 6.36 to 7.17 p.m. Squall at 10.47 p.m. R. at 10.55 p.m.
12	1 Alt. s.	1 Cum.	7 Cir s.	...	1 Cum.	7 Cir.	Cloudy.
13	...	1 Cum.	3 Cir. s.	...	2 Cum.	2 Cir.	Fair.
14	...	...	1 Cir.	4 Str. c. 4 Alt. s.	...	2 Cir. s.	Fine a.m. Cloudy p.m.
15	...	1 Alt. c. SE	2 Cir.	2 Str. c.	...	5 Cir. 1 Cir. s.	Fine a.m. Cloudy p.m.
16	...	1 Cum. E	2 Cir.	3 Str. c.	...	5 Cir. s. 1 Cir. c.	Fine a.m. Cloudy p.m.
17	...	1 Cum.	...	...	1 Cum.	6 Cir.	Fair a. m. Cloudy p. m.
18	...	1 Cum. E	...	1 Str. c.	...	2 Cir. s.	Fine.
19	...	1 Cum. E	1 Cir.	...	2 Cum. E	5 Cir. 1 Cir. s.	Fine a.m. Cloudy p.m.
20	...	1 Cum. SE	1 Cir.	2 Str. c.	4 Cum.	2 Cir. s.	Fine a.m. Cloudy p.m.
21	6 Str. 1 Nim.	2 Cum.	...	1 Str. c.	...	9 Cir. s.	Cloudy. R. during early morning and at 7.15 a.m. T. to N.E
22	7 Str. 1 Str. c. E	...	2 Cir.	2 Str. E	...	8 Cir. s.	Cloudy. L. & T. N.E. at 5.30 a.m. R. from 5.40 to 6.40 and from 6.57 to 7.15 a.m.
23		2 Cum. E	1 Cir. 2 Cir. s.	2 Str. c.	...	6 Cir. s.	Fair a.m. Cloudy p.m.
24	6 Str. 2 Str.c. E	...	1 Cir.	4 Str. c.	...	5 Cir. s.	Cloudy.
25	...	1 Cum. E	1 Cir.	2 Str. c.	...	7 Cir. s.	Fine a.m. Cloudy p.m.
26	...	...	3 Cir.	7 Str. c. 1 Alt. s.	1 Alt. c.	...	Fine a.m. Cloudy p.m. Squall from S. E. at 1.1 p.m.
27	2 Str.	3 Cum. E	3 Cir. c. 2 Cir.	1 Alt. Str.	1 Cum.	7 Cir. s.	Cloudy.
28	...	...	3 Cir.	...	2 Cum. E	2 Cir. s. E	Fine a.m. Fair p.m.
29	...	...	4 Cir. s.	5 Str. c. 1 Alt. s.	...	4 Cir. s.	Fair a.m. Cloudy p.m.
30	...	1 Cum. E	1 Cir.	...	1 Cum. NW	3 Cir.	Fine.
Means	1.3	0.8	3.0	2.2	1.4	4.3	

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	29.937	29.911	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.937	29.907	78.6	83.1	86.8	73.2	13.6	88.8	26	67.9	28	20.9
Kingston ...	50	29.940	29.898	77.4	84.9	87.8	73.1	14.7	90.6	15, 26	70.0	3	20.6
Montego Bay ...	160	29.943	29.898	75.7	83.3	86.6	70.7	15.9	88.4	21	68.3	28	20.1
Castleton Gardens...	496	29.964	29.887	71.7	82.7	88.1	67.0	21.1	92	19	63	2	29
Hope Gardens ...	600	...	...	74.0	82.7	87.0	68.0	19.0	90	20	64	9†	26
Stony Hill Refty. ...	1,400	...	...	73.0	80.0	85.8	67.5	18.3	88	10*	65	3†	23
Hill Gardens ...	4,907	25.232	25.210	62.1	66.2	70.0	58.5	11.5	74	23	55	3	19

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.											
Morant Point L.H.	8	...	...	...	...	4.05	...	EbN	6.9	E	8.6	3.6	1.8	0.7	3.9	1.7	0.8
Negril Point L. H.	33	71.9	80	75.6	73	6.07	225.5	NEbE	7.0	EbS	12.3	1.6	1.2	4.6	5.9	2.3	0.9
Kingston ...	50	69.5	77	71.1	64	3.39	61.1	N	1.2	SE	5.6	1.3	0.8	3.0	2.2	1.4	4.3
Montego Bay ...	160	71.0	86	73.5	73	5.57	53.9	ENE	1.8	ENE	5.0	0.1	0.2	4.6	0.0	6.1	2.2
Castleton Gardens...	496	69.0	88	74.3	75	6.52	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	68.4	81	71.0	67	5.07	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	69.5	89	74.9	85	5.08	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	56.8	81	61.8	85	8.73	41.5	E	...	E	...	...	...	...	...	...	...

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 3 other days. † and 2 other days.

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AUG 16 1898
Weather Bureau

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:—

		June. 1898.	June. Average.
Infantile diseases not otherwise specified	...	34	16
Lung diseases	...	15	14
Fever and Malaria	...	7	9
Dysentery and Diarrhœa	...	17	11
Various (Influenza, 1)	...	54	54
Total	...	127	104

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initial
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	D. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	J. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6 25	Light rain.	W. H.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	J. W.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.

Rainfall for June, 1898.

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.	June. 1898. 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	6.57	2.15	6	11	15.06
Manchioneal P.W.D.	6.57	1.40	22	18	...
Fair Prospect P.W.D.	14.93	7.98	6	18	...
Bath P. W. D.	8.21	1.35	6	24	...
Moore Town P. W. D.	41.80	13.12	6	22	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	22.15	8.68	6	23	19.41
Fellowship P. W. D.	28.93	10.98	6	20	...
Serge Island P.W.D.	9.64	1.95	11	12	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	17.50	5.65	20	11	...
Cedar Valley P. W. D.	17.49	7.12	6	17	...
Green Vale	...	...	...	...	...
Cinchona Plantation	8.73	4.50	6	11	8.13
Resource	...	..	...	..	...
Buff Bay P. W. D.	9.97	2.40	21	11	...
Cold Spring	...	...	...	..	...
Avocat P.W.D.	6.19	2.10	16	10	...
Hardware Gap P.W.D.	10.54	3.80	6	10	...
Rose Hill	...	..	..	...	...
Annotto Bay P. W. D.	12.84	2.93	6	15	...

North-Eastern Division, *contd.*	June. 1898. 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.
Stony Hill Rfty	5.08	1.65	6	10	8.15
Stony Hill P. W. D.	5.08	1.65	6	10	...
Castleton Gardens	6.52	1.50	6, 12	14	10.56
Lawrence Tavern P W D	7.12	2.62	11	10	...
Albany P. W. D.	6.45	1.40	11	10	...
Quebec	...	...	...	...	8.13
Richmond P. W. D.	6.47	1.57	4	14	...
Highgate P. W. D.	...	...	...	...	...
Gayle	6.95	2.70	4	7	9.27
Gayle P. W. D.	5.67	1.88	4	11	...
Rio Hoe	9.20	2.61	6	12	11.38
Unity Valley	9.49	2.90	6	17	8.71
Moneague P.W.D.	10.83	3.16	6	18	5.08
Claremont P.W.D.	9.08	3.23	6	12	...
Albion	11.48	2.96	6	17	6.50
Averham Park	8.22	2.75	6	15	9.08
Ballintoy P.W.D.	9.89	2.30	6	15	...
Means	9.57	...	...	...	10.12
Northern Division					
Port Maria P.W.D.	6.71	1.60	6	13	8.01
Ocho Rios P.W.D.	3.98	1.54	6	8	...
Drax Hall	8.49	3.75	30	9	4.97
St. Ann's Bay P.W.D.	6.62	2.07	6	17	3.14
Seville	...	...	...	...	5.89
Richmond Estate	6.00	...	...	13	6.80
Llandovery	4.98	1.60	7	9	5.87
Brown's Town P.W.D.	4.99	1.40	6	11	3.25
Dry Harbour P.W.D.	2.92	1.86	6	6	...
Chewmagna P. W. D.	5.35	1.68	11	12	...
Home Castle	3.92	1.45	6	10	4.77
Richmond Pen	6.60	2.20	1	7	5.87
Mahogany Hall	4.92	1.10	6	12	5.16
Brampton Bryan	1.85	.75	6	8	2.43
Bryan Castle	3.05	1.50	6	9	2.85
Braco	2.30	1.50	6	6	3.85

Northern Division, *contd.*	June. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell	Average.
	In.	in.			in.
Arcadia	2.24	1.26	6	9	5.14
Arcadia Great House	2.67	...	...	...	...
Harmony Hall	...	...	...	...	2.75
Lancaster	2.67	1.35	6	7	3.33
Vale Royal	2.20	.89	6	10	4.39
Colchis Pen	3.22	1.00	5	8	5.46
Hyde	5.42	1.19	26	10	5.66
Georgia	1.90	.95	6	5	3.69
Long Pond	4.16	.95	27	14	...
Steelfield	2.98	1.04	5	13	4.60
Oxford	3.15	1.05	5	8	5.12
Cambridge	5.62	1.20	11	10	5.27
Dry Valley	...	...	...	...	...
Lottery	4.40	1.00	5	8	4.05
Hampstead	...	...	...	...	...
Falmouth	3.28	...	...	...	2.41
Falmouth P.W.D.	2.06	.48	6	8	...
Fontabelle	7.20	2.05	29	14	...
Martha Brae	...	...	...	...	...
Holland Pen	2.10	.60	5	7	4.45
Pembroke	...	...	...	...	4.78
Golden Grove	8.20	...	...	...	6.02
Green Park	2.14	.53	6	10	3.78
Tilston	7.80	...	...	...	5.44
Weston Favell	6.11	3.00	6	6	8.29
Orange Valley	2.57	...	...	...	3.38
Kent	3.16	...	...	...	3.80
Dundee	3.17	...	...	...	4.47
Phœnix	6.11	...	...	...	8.98
Gale's Valley	7.45	...	...	...	6.87
Greenwood	...	...	...	...	3.82
Canaan	2.14	1.00	23	6	...
Lima	3.28	1.00	5	8	...
Content	...	...	...	...	3.28
Bellfield	...	...	...	...	...
Guilsbro'	5.67	...	...	...	8.05
Tryall	...	...	...	...	...
Leogan	...	...	...	...	4.73
Success	2.85	.80	7	7	2.05
Cinnamon Hill	2.03	.59	11	8	3.94
Rose Hall	1.40	.65	7	5	4.18
Running Gut	...	...	...	...	2.84
Spring	2.25	...	...	...	...
Ironshore	3.73	...	...	...	4.43
Friendship	...	...	...	...	...
Providence	...	...	...	...	4.34
Montego Bay P.W.D.	5.57	1.51	6	12	7.76
Catherine Hall	9.40	...	...	...	6.18
Catherine Mount	...	...	...	...	6.41
Fairfield	...	...	...	...	6.82
Anchovy	...	...	...	...	8.27
Round Hill	...	...	...	...	6.52
Tryall	...	...	...	...	6.94
Sandy Bay P.W.D.	6.27	1.75	29	7	...
Lucea P.W.D.	8.37	2.14	30	12	...
Orange Cove	...	...	...	...	7.71
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	6.03	5.27	6	6	8.09
Linstead P.W.D.	7.05	2.05	6	8	8.85
Point Hill P.W.D.	...	...	...	...	...

Northern Division, *contd.*	June. 1898. 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.	8.42	2.00	6	17	...
Worthy Park	8.19	4.70	7	19	...
Kellits P. W. D.	7.30	4.46	6	11	...
Chapelton P.W.D.	4.90	3.65	6	8	7.86
Danks Savoy	5.33	3.86	6	9	...
Mears P.W.D.	6.92	3.53	6	8	...
Cave Valley	5.08	2.35	6	10	7.71
Means	4.55	...	...	...	5 23
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	9.87	6.00	6	12	...
Farm Plantation	9.89	6.40	6	9	11.84
Brockenhurst Pln.	...	...	...	...	18.63
Christiania P.W.D.	8.32	3.31	6	10	...
Kendal P.W.D.	5.37	2.30	6	11	...
Mandeville P.W.D.	9.55	4.15	6	16	6.46
Carlton (Mandeville)	10.46	3.78	6	15	...
Marshalls Pen	...	...	...	...	6.69
Ulster Spring P.W.D.	4.11	1.50	29	4	...
Troy P.W.D.	5.64	2.15	2	8	...
Windsor Pen	4.92	1.35	3	10	12.84
Balaclava P.W.D.	1.09	.95	6	3	...
Elim	4.02	1.37	6	4	...
Appleton	6.45	3.00	1	9	8.77
Maggotty P.W.D.	7.10	1.65	6	13	...
Spring Vale	...	...	...	...	11.30
Maroon Town	...	...	...	...	13.51
Kempshot	11.31	2.65	4	16	9.77
Kepp	9.49	2.12	2	18	8.48
Kew Park	7.42	1.35	5	12	8.99
Hazelymph	10.15	2.41	26	13	9.31
King Gate P.W.D.	6.39	2.40	5	11	...
Windsor Forest	...	...	...	...	9.55
Chester Castle	...	...	...	...	8.93
Darliston P.W.D.	7.07	1.06	4	15	...
Whithorn, P.W.D.	7.13	1.27	6	20	...
New Galloway	5.36	1.12	4	9	...
Lethe Bridge	...	...	...	...	...
Copse	9.27	1.90	5	14	8.50
Cacoon Castle	10.81	2.55	2	12	9.48
Golden Grove	...	...	...	...	11.30
Great Valley	8.22	2.60	6	8	17.67
Brownsville	12.59	1.92	1	17	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	10.30
Morgan's Bridge P.W.D.	6.31	1.20	4, 5	17	...
King's Valley	10.20	1.90	6	16	12.17
Dias	17.35	2.87	20	21	...
Spring Hill	...	...	...	...	...
Abingdon	...	...	...	...	12.17
Means	8.97	...	...	...	10.36
Southern Division.					
Morant Point L.H. P.W.D.	4.05	1.16	12	19	7.70
Morant Bay P.W.D.	6.24	1.56	11	8	...
Lyssons	...	...	...	...	..
Easington P.W.D.	7.25	1.60	6	18	...
Halberstadt	...	...	...	...	...

Southern. Division, *contd.*	June.				
	Total Fall.	1898. Greatest fall in 24 hours. Amount	Date.	Days on which .01 or more fell.	Average.
	in.	in.			in.
Bull Bay P.W.D.	2.18	1.5	6	4	...
Gordon Town P.W.D.	5.95	2.03	6	10	...
Hope Gardens	5.07	1.58	6	9	6.18
Hope Reservoir	...	...	...	...	6.18
Cherry Garden	...	...	...	...	10.09
King's House	5.35	1.60	7	8	...
Cavaliers	...	...	...	...	...
Shortwood	5.57	1.90	2	9	...
Constant Spring	...	...	...	...	...
Monaltrie	4.19	2.78	6	12	5.33
Halfway-Tree P.W.D.	5.19	2.55	6	9	...
Lunatic Asylum ...	3.44	2.42	6	4	...
Kingston Gardens ...	3.86	2.77	6	7	...
Public Works Office Kn.	3.39	2.38	6	5	4.41
Plumb Point L. H.	3.62	1.76	6	5	4.74
Ferry P. W. D.	4.56	3.82	6	5	...
Caymanas	...	...	...	...	2.88
Spanish Town P. W. D.	8.80	8.13	5	3	5.93
Windsor Park	6.10	5.10	6	4	6.85
Hog Hole Pen P.W.D.	8.80	8.00	6	4	6.92
Old Harbour P.W.D.	11.60	10.41	6	5	9.62
Somerset Hall	...	...	...	...	..
May Pen P.W.D.	...	...	...	...	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	4.86
Yarmouth P.W.D.	10.07	5.35	6	4	...
Victoria Town P.W.D.	10.10	8.14	6	5	...
Stone's Hope	9.68	5.84	6	8	12.70
Newport P.W.D.	10.11	4.92	6	11	...
Alligator Pond P.W.D.	9.09	1.12	4	7	...
Southfield P.W.D.	...	...	...	...	...
Potsdam	3.55	2.60	6	5	9.63
Long Hill	2.87	1.10	1	7	7.27
Pepper	4.38	1.95	6	7	5.47
Torrington P.W.D.	3.81	2.02	6	10	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	6.43	1.65	6	7	7.14
Holland	...	...	...	...	...
Black River P.W.D.	5.16	1.64	6	9	3.92
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	4.50	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	5.58	2.14	29	14	...
Mount Edgecombe	4.08	1.66	29	12	7.01
Sweet River	8.57	1.45	14	13	6.89
Cornwall	4.20	.65	5	10	...
Windsor, Sav.-la-Mar	...	...	...	...	6.74
Sav.-la-Mar P.W.D.	4.47	1.30	24	11	...
Blackheath	...	...	...	...	...
Retreat	5.70	1.84	1	12	...
Negril Pt. Lighthouse	6.07	1.68	1	12	...
Means. ...	5.90	...	...	...	6.92

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

	June. 1898.	Average.
	In.	In.
North Eastern Division	9.57	10.12
Northern "	4.55	5.23
West Central "	8.97	10.36
Southern "	5.90	6.92
Means	7.25	8.16

The greatest monthly fall, viz., 41.80 ins. was recorded at Moore Town and the least fall, viz.: 1.09 ins. was recorded at Balaclava P.W.D.

The greatest fall in 24 hours was 13.12 ins at Moore Town on the 6th. The greatest number of days on which rain fell was 24 at Bath. Sixteen stations had (as their maximum falls) in 24 hours falls between 3 and 5 inches, and seven had falls of between 5 and 7 inches. Six had falls of between 7 and 10 inches, while three had 10 inches or upwards in twenty-four hours.

The mean approximate rainfall as arrived at on the 5th inst., (when a preliminary report on June was issued) was 7.17 inches. This result was obtained from 47 stations with "averages." The results shown in the Comparative Table now published are from 84 such Stations, and show a rainfall for the Island of 7.25 ins., as compared with an average of 8.16. ins.

It will thus be seen that the island rainfall for June was about seven-eighths of the average and that every division received about this proportion. A noticeable feature was the heavy rain experienced all over the island on the 6th, some places also reporting much thunder and lightning. The greatest fall was 13.12 at Moore Town, which as already stated was the greatest fall in twenty-four hours for the month, but the fall of 10.41 at Old Harbour, usually a dry place on the Southern plain of Jamaica, is also remarkable.

The following notes have come to hand :—

N.E. Division.

Rio Hoe Pen—Good showers for the month of June, from the 1st to 30th and also strong breezes during the month.

Moneague—Excessively hot during entire month. The rainfall of the 6th was accompanied by much thunder and vivid flashes of lightning.

N. Division.

St. Ann's Bay—Very close during entire month. Mean Temp. 7 a.m. 79° and at 3 p.m. 85°. Bar. 7 a.m. 29.935 and at 3 p.m. 29.906 Corr. to 32°, sea-level and gravity 45.°

W. C. Division.

Elim—No rain from the 12th. Very dry and hot, strong breezes in afternoon.

Hazelymph—On Sunday the 26th at about one o'clock in the day a sudden gust of wind uprooted a number of trees and did damage to huts on the property.

Copse—Severe thunderstorm; two cocoa-nut trees struck by lightning—one of them was one that was struck last year.

S. Division.

Stones Hope—Ten years average 7.67 inches. Strong S.E. winds.

Torrington—Mr. Smith reports "very strong S.E. winds during entire month, sufficiently powerful to tear down large limbs of trees and doing much damage to crops, &c., generally. Weather very hot."

Mount Edgecombe.—Mr. Chas. B. Vickers forwarded the following note last month too late for insertion in the May report.

"It is remarkable that during the last 8 or 10 years existing gullies have been made larger by the rains and new gullies have been formed where none existed be-

fore, so that in places it is difficult to ride across gullies which till lately were quite passable, where they existed at all. I suppose this must arise either from more rain falling in a shorter time, or from the land being now kept clean and free from bush; or from both causes. In these remarks I refer only to this property ranging from 590ft. to the sea, and also to the adjoining land Belmont to the west.

"In the gullies referred to, the water runs off at once after cessation of rain. The difficulty of passing them arises from their depth and precipitousness.

"If we compare the average rainfall here of the first and second half of past eighteen years, the average for the 9 years 1880 to 1888 is 61.85 inches, and for the 9 years 1889 to 1897 is 69.19 inches—no doubt the space of time is too short on which to found a fair judgment. If we compare the 10 years 1880 to 1889 with the 8 years 1890 to 1897, the average of the former will be 61.14 in. and of the latter 71.00 in. or an increase of over 10 in.

"The rainfall in June, so far, is very poor; only 1.74 in. with ten rainy days."

With the June report Mr. Vickers adds. "Up to the 28th the month was very dry, only 1.74 inches having fallen; but on 28th there was a good rain of .68 and on 29th 1.66 inches."

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3.70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
Total	...	35.01	31.59

The Rainfall for the first six months of the year is thus three and a half inches or about ten per cent more than the average.

ROBT. JOHNSTONE,

Weather Office, Kingston, 18th July, 1898.

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JAMAICA.

WEATHER REPORT

FOR THE MONTH OF

JULY, 1898.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure.		Temperature.					Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour.			
	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.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.970	29.913	76.3	88.2	89.6	73.0	16.6	69.1	78	72.0	59	0.00	43	N	1	SE	4
2	.982	.939	80.9	88.7	91.4	72.3	19.1	69.0	67	72.6	59	0.00	49	N	1	SE	4
3	30.000	.922	80.5	89.0	91.8	73.3	18.5	68.9	68	72.5	60	0.00	72	N	1	SE	6
4	29.968	.901	77.9	86.3	89.4	73.0	16.4	71.0	79	70.5	59	0.00	97	N	1	SE	7
5	.944	.942	75.4	80.2	87.8	73.6	14.2	68.7	80	70.3	72	0.01	42	N	1	E	3
6	30.007	.963	76.8	88.9	89.6	72.7	16.9	69.5	78	70.5	55	0.00	74	N	1	SE	3
7	.029	.950	77.7	90.5	91.2	71.3	19.9	68.2	73	67.6	47	0.00	89	Z	0	SE	8
8	29.992	.953	78.8	79.5	88.5	71.2	17.3	67.1	68	72.1	78	0.00	38	N	1	N	1
9	.901	.851	77.3	83.9	88.2	72.2	16.0	69.3	76	72.4	70	0.00	45	N	1	E	2
10	.852	.814	77.8	81.0	88.3	72.1	16.2	70.2	78	72.8	76	0.30	45	N	1	SE	7
11	.874	.847	74.7	82.2	85.3	71.8	13.5	69.4	82	72.0	71	0.05	74	N	1	SE	5
12	.915	.885	77.5	84.2	85.3	74.3	11.0	68.5	74	71.1	65	0.00	102	E	3	SE	8
13	.908	.899	75.5	82.6	86.4	72.9	13.5	68.5	77	71.9	70	0.00	54	N	1	SE	6
14	.941	.890	77.0	82.6	85.0	72.8	12.2	69.0	76	70.9	63	0.00	56	N	1	SE	6
15	.930	.899	77.2	85.3	85.5	73.7	11.8	74.0	90	74.4	70	0.49	39	E	1	E	7
16	.970	.953	76.2	85.6	87.7	73.0	14.7	70.0	81	66.0	52	0.00	65	N	1	SE	4
17	30.029	.935	77.4	88.1	88.4	73.5	14.9	70.1	78	68.7	53	0.00	51	N	1	SE	5
18	.006	.928	78.9	81.7	88.3	74.0	14.3	71.1	77	75.2	81	0.00	66	N	1	SE	4
19	29.922	.902	75.5	85.7	89.4	70.3	19.1	68.3	78	69.2	58	0.00	47	N	1	N	1
20	.916	.877	76.2	87.8	88.3	73.0	15.3	68.8	78	69.3	54	0.11	56	N	1	S	6
21	.887	.873	73.8	83.4	88.1	72.9	15.2	66.5	78	70.2	65	0.00	33	N	1	SE	8
22	.928	.902	79.1	84.5	88.5	73.2	15.3	70.5	75	72.8	74	0.00	55	N	1	E	4
23	.943	.898	76.1	87.1	89.6	73.3	17.3	66.9	73	69.1	55	0.00	80	N	1	SE	7
24	.933	.892	74.2	85.4	88.6	72.1	16.5	68.4	80	69.7	60	0.00	45	Z	0	SE	6
25	.926	.862	76.8	86.9	89.2	71.9	17.3	68.1	75	71.2	60	0.00	81	N	1	SE	10
26	.914	.851	76.4	87.5	90.1	72.3	17.8	63.0	75	74.2	62	0.00	69	N	1	SE	8
27	.936	.882	77.2	88.3	91.7	73.7	18.0	67.8	73	74.4	64	0.00	59	N	1	SE	3
28	.938	.863	78.9	88.3	91.1	75.3	15.8	71.0	77	70.8	56	0.00	75	N	1	SE	4
29	.931	.852	77.7	89.2	91.8	73.7	18.1	70.1	78	74.7	63	0.62	59	N	1	SE	5
30	.904	.884	76.8	85.3	89.4	72.8	16.6	72.2	86	71.9	64	0.05	69	N	1	SE	5
31	.943	.902	73.5	84.2	85.4	72.0	13.4	69.7	88	70.5	64	0.00	49	Z	0	S	4
Means.	29.943	29.898	77.0	85.6	88.7	72.8	15.9	69.1	77	71.3	63	..	60.3	N	1.0	SE	5.0
Total	...	...	...	...	...	...	...	...	...	...	...	1.63	...		...		

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. SE	3 Cir. SE	Fine.
2	...	1 Cum.	...	5 Str. c.	1 Cum. SE	1 Cir. s.	Fine a.m. Cloudy p.m.
3	...	...	9 Cir.	...	3 Cum. SE	1 Cir. s.	Cloudy a.m. Fair p.m.
4	...	1 Cum.	1 Cir.	...	1 Cum.	4 Cir.	Fine a.m. Fair p.m.
5	...	...	7 Cir. s.	3 Str. c.	1 Cum.	5 Cir. s.	Cloudy. R. at 11.18 a.m and at 1.4 to 1.12 p.m.
6	...	1 Cum.	3 Cir.	...	2 Cum. SE	5 Cir.	Fair a.m. Cloudy p. m.
7	...	...	1 Cir.	...	2 Cum.	1 Cir.	Fine.
8	...	...	2 Cir.	3 Str. c.	1 Cum.	5 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 12.47 p.m.
9	...	1 Cum	...	7 Str. c.	...	2 Cir. s.	Fine a.m. Cloudy p.m. T. at intervals from 5.23 to 6.7 p.m.
10	...	...	1 Cir.	3 Str. c. SE 1 Alt. s.	1 Cum. SE	4 Cir. s.	Fine a.m. Cloudy p.m. R at 11.55 a.m. to 12.23 p.m, and from 12.32 to 12·41 T. to N. at 12.51 with intervals to 3 p.m.
11	...	2 Cum. SE	1 Cir. c. 4 Cir. SE	...	1 Cum. 2 Alt. c.	9 Cir. s 6 Cir.	Cloudy. R. at 7.28 to 7.46 p.m.
12	1 Alt. s.	1 Cum. SE	7 Cir. s.	...	1 Cum.		Cloudy. Squalls from S.E. during early morning with light rain.
13	...	1 Cum. SE	8 Cir.	1 Str. c. SE	3 Cum. SE	4 Cir.	Cloudy.
14	1 Alt. s.	...	3 Cir. 5 Cir. s.	...	3 Cum. SE	2 Cir.	Cloudy a.m. Fair p.m.
15	2 Str.c. 4 Alt. s.	...	2 Cir. s.	3 Str. c.	2 Cum.	4 Cir.	Raining a.m. Cloudy p.m. R. during early morning R. at 6.47 to 7.26 a.m. and at intervals to 8.58 R. at 9.33 to 9.40 a.m. and from 12·55 to 1.8 p.m. T. to S.E. at 8.24 p.m.
16	1 Nim.	1 Cum.	1 Cir.	1 Alt. s.	3 Cum.	4 Cir.	Fine a.m. Cloudy p.m. T. to N.W. at 3 p.m.
17	...	...	...	...	1 Cum.	...	Fine.
18	...	...	...	1 Str. c.	1 Cum.	4 Cir.	Fine a.m. Cloudy p.m. R. at 5.47 to 6.19 p.m.
19	...	...	...	...	1 Cum.	4 Cir. W	Fine a.m. Fair p.m.
20	...	...	...	...	2 Cum. SE	2 Cir. S.E.	Fine a.m. Fair p.m.
21	...	1 Cum.	6 Cir s.	3 Str. c. SE 1 Alt. s.	1 Cum.	4 Cir s. W	Cloudy. T. to N.W. at 2.54 p.m. and S.E. at 5.24 p.m.
22	...	1 Cum.	..	2 Str. c.	2 Cum. SE	3 Cir. s. SE	Fine a.m. Cloudy p.m.
23	7 Alt. c.	1 Cum.	...	1 Str. c.	1 Cum. SE	3 Cir.	Cloudy a.m. Fair p.m.
24	...	...	9 Cir. s.	3 Str. c.	1 Cum.	2 Cir.	Cloudy.
25	...	...	...	...	2 Cum.	...	Fine.
26	...	...	2 Cir.	...	2 Cum. SE	...	Fine.
27	...	...	...	3 Str. c. SE	1 Cum. SE	...	Fine a.m. Fair p.m.
28	...	...	2 Cir.	...	2 Cum. SE	4 Cir. SE	Fine a m Cloudy p.m.
29	...	...	1 Cir.	4 Str. c. SE	1 Cum.	4 Cir.	Fine a.m. Cloudy p.m. T. to N. at 2.57 p.m. and at 5.6. p.m. with lightning. R. at 5.21 to 5.41 p.m.
30	...	...	1 Cir.	3 Str. c.	3 Cum. SE	3 Cir.	Fine a.m. Cloudy p.m. T. to N. at 4.6 p.m. with L. Squall from S.E. at 6.47 p.m. L. R at 6.51 p.m. with T. S.E. R. at 8.46 to 10.14 p.m. Squall from S.E. at 9.10 p.m.
Means	0.5	0.4	2.5	1.5	1.6	3.0	

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	29.938	29.909	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.939	29.914	78.0	82.9	86.9	72.2	14.7	88.8	30	69.1	10	19.7
Kingston ...	50	29.943	29.898	77.0	85.6	88.7	72.8	15.9	91.8	3, 29	70.3	19	21.5
Montego Bay ...	160	29.930	29.882	75.8	81.7	86.5	70.5	16.0	89.0	6	68.4	11	20.6
Castleton Gardens...	496	29.958	29.898	70.9	82.0	87.4	66.3	21.1	97	29	65	1	32
Hope Gardens ...	600	...	...	73.7	84.3	88.6	68.2	20.4	92	24	65	11	27
Stony Hill Refty. ...	1,400	...	...	72.2	78.3	85.2	67.6	17.6	89	7	66	2, 11	23
Hill Gardens ...	4,907	25.299	25.199	62.9	67.3	71.0	58.6	12.4	75	25	56	6	19

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.											
Morant Point L.H.	8	...	...	...	...	5.99	...	ENE	6.7	E b N	11.0	...	...	...	...	...	...
Negril Point L. H.	33	71.5	80	73.3	73	6.88	202.6	ENE	7.5	SE bE	10.3	0.1	1.5	3.7	4.8	3.9	0.5
Kingston ...	50	69.1	77	71.3	63	1.63	60.3	N	1.0	SE	5.0	0.5	0.4	2.5	1.5	1.6	3.0
Montego Bay ...	160	72.6	89	73.8	78	7.60	56.4	E	1.3	ENE	3.3	0.0	0.1	2.9	0.8	0.2	2.0
Castleton Gardens...	496	68.7	90	75.0	78	9.63	...	...	...	...	...	...	...	...	...	...	..
Hope Gardens ...	600	68.3	81	71.7	67	5.59	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	57.5	81	62.3	83	3.78	26.1	E	...	E	...	...	...	...	...	...	...

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:—

		July. 1898.	July. Average.
Infantile diseases not otherwise specified	...	22	18
Lung diseases	...	18	18
Fever and Malaria	...	18	11
Dysentery and Diarrhœa	...	16	7
Various (Influenza, 1)	...	52	57
Total	...	126	111

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initial
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	D. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	J. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	W. H.
June 1st ...	11 a.m.	67.9	46.8	60	[illegible]	Heavy Clouds.	J. W.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ...	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.

Rainfall for July, 1898.

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.	July. 1898. 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	9.00	3.75	31	8	7.83
Manchioneal P.W.D.	9.94	2.25	12	19	...
Fair Prospect P.W.D.	14.69	2.42	15	21	...
Bath P. W. D.	15.71	4.29	30	23	...
Moore Town P. W. D.	20.57	3.25	30	20	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	18.27	3.68	15	22	9.68
Fellowship P. W. D.	20.75	7.17	15	23	...
Serge Island P.W.D.	13.24	4.66	30	12	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	8.94	2.05	30	10	...
Cedar Valley P. W. D.	10.59	2.45	15	17	...
Green Vale	...	...	...	...	...
Cinchona Plantation	3.78	.82	14	14	3.90
Resource	...	...	...	...	...
Buff Bay P. W. D.	5.71	1.40	23	16	...
Cold Spring	...	...	...	...	...
Avocat P.W.D.	4.22	1.33	13	8	...
Hardware Gap P.W.D.	4.95	1.10	15	8	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	3.08	1.03	7	10	...

North-Eastern Division, *contd.*	July. 1898. 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.
Stony Hill Rfty	7.68	2.00	21	18	5.48
Stony Hill P. W. D.	6.55	2.00	21	13	...
Castleton Gardens	10.72	2.20	10	15	6.38
Lawrence Tavern P W D	9.82	2.22	21	16	...
Water Valley P.W.D.*	3.19	.90	13	9	...
Quebec	...	...	...	...	...
Richmond P. W. D.	4.09	1.54	16	13	...
Highgate P. W. D.	...	...	...	...	...
Gayle	3.70	1.35	16	5	2.20
Gayle P. W. D.	3.15	1.15	16	7	...
Rio Hoe	4.93	1.35	10	11	5.43
Unity Valley	5.60	1.43	10	17	6.07
Moneague P.W.D.	4.71	1.69	10	12	...
Claremont P.W.D.	6.67	2.65	10	10	...
Albion	7.22	1.93	10	15	4.23
Averham Park	5.24	1.03	23	11	4.12
Ballintoy P.W.D.	3.44	1.03	19	8	...
Means	7.61	...	...	...	5.53
Northern Division					
Port Maria P.W.D.	3.83	1.54	16	13	2.58
Ocho Rios P.W.D.	2.44	.71	23	6	...
Drax Hall	3.93	1.00	16	8	2.61
St. Ann's Bay P.W.D.	4.04	.85	13	13	...
Seville	...	...	...	...	2.17
Richmond Estate	3.11	.65	13	9	1.81
Llandovery	2.76	.85	10	8	1.63
Brown's Town P.W.D.	2.83	.79	10	6	...
Dry Harbour P.W.D.	2.33	1.93	10	3	...
Chewmagna P. W. D.	4.23	2.15	10	10	...
Home Castle	3.22	.72	13	9	2.03
Richmond Pen	4.05	1.05	11	9	2.48
Mahogany Hall	5.10	1.15	13	11	4.41
Brampton Bryan	2.31	.50	24	8	2.68
Bryan Castle	1.50	.65	10	5	1.95
Braco	1.31	1.15	10	3	2.15

* Gauge transferred from Albany to Water Valley.

Northern Division, *contd.*	July. 1898. Total Fall.	Greatest fall in 24 hours. Amount	Date.	Days on which .01 or more fell	Average.
	In.	in.			in.
Arcadia	2.14	.75	31	9	2.13
Arcadia Great House	1.66	.50	10	7	...
Harmony Hall	...	...	...	...	1.63
Lancaster	1.01	.56	10	3	2.22
Vale Royal	2.56	.67	10	8	3.08
Colchis Pen	3.85	1.40	13	4	3.07
Hyde	6.00	1.17	13	14	5.27
Georgia	...	...	...	...	2.55
Long Pond	...	...	...	...	...
Steelfield	3.25	1.24	10	8	2.93
Oxford	2.75	1.20	22	5	2.42
Cambridge	6.56	2.38	22	10	3.28
Dry Valley	...	...	...	...	...
Lottery	4.81	1.25	22	7	2.84
Hampstead	...	...	...	...	...
Falmouth	1.80	..	...	...	1.75
Falmouth P.W.D.	1.41	.60	10	4	...
Fontabelle	11.20	3.20	10	15	...
Martha Brae	...	...	...	...	...
Holland Pen	3.40	1.50	10	6	1.75
Pembroke	...	...	...	...	3.10
Golden Grove	5.30	...	...	...	3.46
Green Park	4.56	1.65	10	12	2.06
Tilston	8.00	...	...	...	3.32
Weston Favell	7.95	2.00	10	12	4.94
Orange Valley	3.65	...	...	...	1.75
Kent	3.92	1.90	10	8	1.58
Dundee	5.40	...	...	...	2.73
Phœnix	6.37	...	...	...	5.34
Gale's Valley	8.30	...	...	...	4.20
Greenwood	3.86	2.00	10	5	1.38
Canaan	6.87	1.20	10	10	...
Lima	4.85	1.00	10	7	...
Content	...	...	...	...	2.20
Bellfield	5.82	1.55	10	10	...
Guilsbro'	7.37	...	...	...	4.36
Tryall	...	...	...	...	...
Leogan	...	...	...	...	3.02
Success	2.95	1.00	13	7	1.51
Cinnamon Hill	2.63	.65	13	6	.34
Rose Hall	2.46	.59	13	6	.84
Running Gut	...	...	...	...	1.02
Spring	3.20	...	...	...	...
Ironshore	3.10	...	...	...	2.02
Friendship	...	...	...	...	...
Providence	...	...	...	...	1.38
Montego Bay P.W D.	7.60	3.32	10	9	3.79
Catherine Hall	9.60	...	...	...	3.96
Catherine Mount	...	...	...	...	4.17
Fairfield	...	...	...	...	3.97
Anchovy	...	...	...	...	5.57
Round Hill	...	...	...	...	3.94
Tryall	...	...	...	...	4.68
Sandy Bay P.W.D.	8.36	1.60	15	14	...
Lucea P W.D.	9.81	1.90	15	14	...
Orange Cove	...	...	...	...	5.45
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	2.27	.98	29	7	4.37
Linstead P.W.D.	9.13	1.70	21	13	5.80
Point Hill P.W.D.	5.76	1.00	21	13	...

Northern Division, *contd.*	July. 1898. 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.	11.50	2.16	13	23	...
Worthy Park	8.37	3.45	10	12	...
Kellits P. W. D.	9.20	3.50	10	12	...
Chapelton P.W.D.	3.28	.73	21	10	4.08
Danks Savoy	4.24	1.15	21	11	...
Mears P.W.D.	4.97	.98	11	17	...
Cave Valley	6.87	.70	27	16	5.01
Means	4.38	...	...	...	2.89
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	5.34	.70	15	15	...
Farm Plantation	6.24	2.65	11	9	5.56
Brockenhurst Pln.	...	...	...	...	7.68
Christiania P.W.D.	5.53	1.60	8	13	...
Kendal P.W.D.	7.79	1.72	22	17	...
Mandeville P.W.D.	6.28	1.32	11	15	6.08
Carlton (Mandeville)	6.42	1.53	11	16	...
Marshalls Pen	...	...	...	...	5.45
Ulster Spring P.W.D.	4.23	1.27	20	12	...
Troy P.W.D.	9.20	2.88	9	10	...
Windsor Pen	6.69	1.28	30	13	7.73
Balaclava P.W.D.	6.41	1.95	10	12	...
Elim	...	...	...	...	...
Appleton	10.48	1.40	1, 9	21	6.72
Maggotty P.W.D.	15.87	2.55	21	21	...
Spring Vale	8.99	2.30	5	14	7.86
Maroon Town	7.50	1.90	10	10	11.49
Kempshot	8.50	2.37	16	16	6.62
Kepp	10.59	1.88	10	22	8.39
Kew Park	...	...	...	...	10.58
Hazelymph	11.39	1.23	23	22	11.11
King Gate P.W.D.	9.07	2.50	5	10	...
Windsor Forest	...	...	...	...	9.46
Chester Castle	...	...	...	...	9.38
Darliston P.W.D.	12.84	2.14	21	26	...
Whithorn, P.W.D.	8.81	1.37	21	27	...
New Galloway	9.02	1.75	21	16	...
Lethe Bridge	...	...	...	...	...
Copse	11.92	1.70	26	21	6.86
Cacoon Castle	10.10	1.93	5	12	7.81
Golden Grove	...	...	...	...	8.84
Great Valley	8.39	2.40	26*	11	10.96
Brownsville	10.79	1.29	12	21	...
George's Plain Estate	...	...	...	...	...
Fontabelle	...	...	...	...	8.55
Morgan's Bridge PWD.	8.28	1.36	9	19	...
King's Valley	9.15	1.60	25	22	12.69
Dias	9.98	2.70	13	18	...
Spring Hill	...	...	...	...	...
Abingdon	...	...	...	...	10.61
Means ...	8.94	...	...	...	8.45
Southern Division.					
Morant Point L.H. P. W.D.	5.99	1.96	12	18	2.88
Morant Bay P.W.D.	7.32	2.30	30	12	...
Lyssons	...	...	...	...	...
Easington P.W.D.	7.80	1.45	21	15	...
Halberstadt	...	...	...	...	...

* Also 12.

SOUTHERN. DIVISION, *contd.*	JULY. 1898. 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.	.70	.40	30	2	...
Gordon Town P.W.D.	2.58	.70	15	9	...
Hope Gardens	1.59	.45	10	10	3.22
Hope Reservoir	...	...	...	...	3.22
Cherry Garden	...	...	...	...	3.85
King's House	2.02	.55	30	8	2.91
Cavaliers	...	...	...	...	...
Shortwood	1.97	.53	10	12	...
Constant Spring	2.64	.60	21	...	...
Monaltrie	3.30	.57	10	11	2.43
Halfway-Tree P.W.D.	2.27	.71	29	9	...
Lunatic Asylum ...	1.21	.42	14	4	...
Kingston Gardens ...	2.02	.86	29	7	...
Public Works Office Kn.	1.63	.62	29	7	2.09
Plumb Point L. H.	.87	.25	11	5	2.27
Ferry P. W. D.	1.03	.50	18	5	...
Caymanas	...	...	...	...	2.63
Spanish Town P. W. D.	3.01	2.25	15	4	3.00
Windsor Park	...	...	...	...	3.36
Hog Hole Pen P.W.D.	2.62	1.92	15	2	3.31
Old Harbour P.W.D.	2.36	.73	18	5	3.38
Somerset Hall	...	...	...	...	..
May Pen P.W.D.	5.86	2.14	18	11	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	2.77
Yarmouth P.W.D.	4.85	3.50	11	4	...
Victoria Town P.W.D.	3.45	.90	13	8	...
Stone's Hope	5.39	1.70	11	17	4.83
Newport P.W.D.	5.47	2.00	11	11	...
Alligator Pond P.W.D.	3.38	2.06	11	7	...
Southfield P.W.D.	3.29	2.11	9	6	...
Potsdam	3.74	1.33	8	8	3.36
Long Hill	6.73	2.30	9	9	3.82
Pepper	3.56	1.00	29	7	2.57
Torrington P.W.D.	...	...	...	...	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	8.50	1.52	20	13	4.59
Holland	...	...	..	...	...
Black River P.W.D.	5.80	1.59	18	18	4.90
Spring Hill	8.06	1.10	10	17	...
Whitehall	...	...	...	...	...
Fout Hill	7.85	2.10	18	13	...
Grand Vale	...	...	...	...	...
Peter's Ville	9.70	1.30	30	22	...
Mount Edgecombe	7.51	1.12	9	26	6.19
Sweet River	7.13	1.02	5	15	6.39
Cornwall	7.25	1.50	21	16	...
Windsor, Sav.-la-Mar	...	...	...	...	7.09
Sav.-la-Mar P.W.D.	5.77	1.34	31	14	...
Blackheath	...	...	...	...	...
Retreat	11.34	3.60	5	17	...
Negril Pt. Lighthouse	6.88	1.61	5	18	...
Means. ...	4.22	...	...	...	3.66

COMPARATIVE TABLE OF RAINFALL.
(*Based upon the "Average" Stations only.*)

	JULY. 1898. In.	JULY. Average. In.
North Eastern Division	7.61	5.53
Northern "	4.38	2.89
West Central "	8.94	8.45
Southern "	4.22	3.66
Means	6.29	5.14

The greatest monthly fall, viz.. 20.75 ins. was recorded at Fellowship and the least fall, viz. : .70 ins. was recorded at Bull Bay P.W.D.

The greatest fall in 24 hours was 7.17 ins. at Fellowship on the 15th. The greatest number of days on which rain fell was 27 at Whithorn, P. W. D. Eleven stations had (as their maximum falls) in 24 hours falls between 3 and 5 inches, and one had a fall of over seven inches.

The mean approximate rainfall as arrived at on the 4th inst., (when a preliminary report on July was issued) was 6.26 inches. This result was obtained from 42 stations with "averages." The results shown in the Comparative Table now published are from 82 such Stations, and show a rainfall for the Island of 6.29 ins., as compared with an average of 5.14 ins.

It will thus be seen that the rainfall was above the average in every division of the island, the excess being largest proportionately in the Northern Division, closely followed by the North Eastern. The mean for the island shows a fall of one-fifth above the average.

The following notes have come to hand :—

Fair Prospect, P.W.D.—Severe thunderstorm on night of 11th.

Moneague, P.W.D.—Oppressively hot with frequent thunderstorms.

St. Ann's Bay, P.W.D.—Bar. at 7 a.m. 29.942, and at 3 p.m. 29.907. corr. to 32°, sea level and gravity 45.° Indoor Temp., 7 a.m., 79° and at 3 p.m. 84.° Bar. depression noticed from 9th to 12th.

Farm.—Splendid rains. Coffee just commenced ripening.

Copse.—Heaviest fall for July for many years.

Stones Hope.—High intermittent breezes.

Mount Edgecombe.—I think it is seldom we have had so many rainy days in a month as in this July.—(*Chas. B. Vickers.*)

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

		1898. ins.	Average. ins.
January	...	1.62	4.19
February	...	3.70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
Total	...	41.30	36.73

The rainfall to the end of July was four and a half inches or thirteen per cent. above the average.

EARTHQUAKE.

A shock of earthquake was felt at the north western end of the island over a stretch of country, extending from Belfield in the east of St. James to Brownsville in the centre of Hanover, a distance of about twenty miles. The following accounts of it have been received :—

Belfield.- Slight shock of earthquake felt here 9.55 p.m. on 10th July.—(*J. H. Watson.*)

Cinnamon Hill.— Sharp shock of earthquake on 10th July at 10 p.m.—direction apparently from SE to NW lasting between 3 and 4 seconds. There was a distinct feeling of upheaval followed by several rockings, but no rumbling.

The direction is that of the valley opening on the sea along which stream runs. (*Joseph Shore.*)

Montego Bay, P.W.D.—On the 10th at about 10 p.m. a shock of earthquake, lasted about three seconds. (*Stuart H. King.*)

Brownsville.—On 10th Sabbath, 10 p.m. there was a slight shock of earthquake. (*John F. Gartshore.*)

HAIL.

Two falls of hail are reported. The first occurred at Mandeville on the 2nd, was very heavy but of short duration, with hailstones as large as pigeons' eggs. The second occurred on the 8th at Darliston where "a fair quantity of hail" is reported to have fallen.

ROBERT JOHNSTONE,

Weather Office,
Kingston, 22nd August, 1898.

THE JAMAICA WEATHER SERVICE.

Notice for the Hurricane Season of 1898.

(1.) During the hurricane months of August, September and October, the weather will be considered disturbed when the barometer is falling and when it has fallen between one and two tenths of an inch below its mean value for the time of day and year, all due corrections having been applied.

(2.) Should the weather during these months be disturbed at any time, a circular telegram will be despatched as soon as possible, and copies of this telegram will be posted at all the telegraph stations in the Island.

(3.) Each circular telegram will give the hour of despatch, the reading of the barometer, corrected and reduced, the direction and force of the wind, the weather, and any remarks which may be necessary. The forms used in posting copies of the telegram are printed on red paper.

(4.) After the first circular telegram has been despatched, a second circular telegram will be sent either to convey special warning, or to relieve unnecessary alarm, as soon as the position and motion of the centre of the disturbance can be approximately ascertained.

(5.) The first circular telegram is intended to call public attention to the disturbed state of the weather as soon as possible; the second circular telegram is intended to give definite information and warning when necessary. But due care should always be taken after the issue of the first telegram; for the telegraph wires may be broken before the second can be despatched, or two cyclones, or the curvature of a single cyclone on its course, may confuse the indications.

(6.) In order to render the Weather Service effective in warning the shipping in the different ports of the Island, copies of the telegrams referred to above will be given to the Harbour Masters at Milk River, Black River, Sav.-la-Mar, Lucea, Montego Bay, Falmouth, St. Ann's Bay, Port Maria, Port Antonio and Morant Bay, who, upon the receipt of the first telegram, will keep themselves in readiness to warn the shipping in harbour should the second telegram render such warning necessary.

(7.) Warnings will be given by means of flags and lamps; the flags are six feet square, having red borders enclosing black centres two feet square; the lamps for use at night emit a strong red light.

(8.) The Hurricane signals will be hoisted only under the following circumstances: when specially ordered by warning telegrams, or when the telegraph wires are broken and a storm is clearly approaching.

(9.) The usual special arrangements will be made with the Harbour Master for Kingston for warning the shipping in this port. As heretofore, notices will be posted during the day, when necessary, at the Colonial Secretary's Office, the Merchants Exchange in Duke Street, and Mr. MacDonald's Store in Harbour Street; and if necessary, hurricane flags will be hoisted at the two former places.

(10.) Arrangements have been made with the Jamaica Post Office, so that when, under special circumstances, due notice can be given to the Postmaster for Jamaica, the wires may be kept open between 5 p.m. and 7 a.m., and also on Sundays.

(11.) Since the establishment of the service in 1880, thirty-two cyclonic disturbances have passed within barometric range of Jamaica, and information respecting them has been telegraphed round the Island without causing unnecessary alarm in a single case, for on three occasions only, namely, before the hurricane of August 18th, 1880, and August 20th, 1886, and before the conflicting cyclones of September 15th, 1889, have orders been given to hoist the hurricane signals.

We may therefore expect that two or three disturbances will, on an average, be telegraphed around the Island each hurricane season.

MAXWELL HALL, Govt. Meteorologist.

Montego Bay, 28th July, 1898.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1898.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure.		Temperature.					Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: Direction (from) and miles per hour.			
	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.	
	In.	In.	°	°	°	°	°	°		°		In.	Miles				
1	29.988	29.898	73.7	84.4	88.4	71.1	17.3	66.8	79	73.9	71	0.19	32	N	1	SE	5
2	.958	.901	73.8	78.6	86.5	72.3	14.2	67.6	81	72.0	80	0.07	18	N	1	Z	0
3	.920	.850	75.5	86.7	87.3	72.9	14.4	70.0	83	74.7	68	0.00	72	N	1	SE	11
4	.931	.880	76.4	84.4	88.7	73.7	15.0	70.1	81	71.0	64	0.00	66	N	1	SE	9
5	.965	.921	76.3	83.7	88.2	73.0	15.2	67.9	75	69.5	55	0.00	104	N	0	SE	11
6	.978	.940	73.7	83.8	88.3	72.8	15.5	65.4	75	71.2	67	0.00	50	N	1	S	1
7	.945	.887	73.5	85.6	89.7	72.2	17.5	68.5	84	73.9	68	0.00	46	N	1	SE	9
8	.972	.865	76.8	86.6	89.2	74.2	15.0	70.7	82	74.5	67	0.00	90	N	2	SE	8
9	.954	.871	77.4	88.8	91.8	74.5	17.3	69.9	78	65.9	45	0.00	60	N	1	SE	5
10	.931	.864	77.4	89.6	90.8	75.2	15.6	69.7	77	68.8	51	0.00	81	N	1	SE	12
11	.934	.883	76.8	82.8	89.3	74.0	15.3	68.1	76	75.0	77	0.03	34	N	2	E	2
12	.927	.903	74.7	74.9	84.8	73.4	11.4	67.0	77	72.0	94	0.36	27	N	1	NE	2
13	.906	.896	75.9	81.1	87.3	72.9	14.4	68.9	83	72.9	76	0.08	32	N	2	NE	2
14	.943	.905	74.4	84.7	87.7	71.4	16.3	69.0	83	73.6	70	0.09	45	N	1	E	2
15	.957	.884	75.2	87.3	87.4	72.6	14.8	71.9	89	70.7	58	0.00	69	N	1	S	9
16	.894	.858	76.7	78.1	86.5	73.2	13.3	71.3	83	72.2	82	0.04	8	N	1	N	1
17	.879	.829	73.8	86.2	88.3	71.8	16.5	69.5	86	69.5	58	0.00	30	N	1	NE	2
18	.849	.807	76.0	82.2	87.3	74.4	12.9	70.2	82	71.5	70	0.02	79	N	1	SE	7
19	.920	.912	77.3	83.6	89.0	74.8	14.2	72.0	84	73.0	72	0.00	57	N	1	NE	4
20	.918	.933	77.1	80.7	89.6	75.6	14.0	69.6	78	76.3	87	0.03	29	N	2	N	1
21	.954	.904	77.1	80.7	80.8	74.3	6.5	73.2	88	75.0	83	0.66	9	N	1	S	1
22	.920	.894	73.8	81.6	85.7	72.7	13.0	70.9	91	73.6	77	0.00	16	N	1	N	2
23	.936	.945	74.7	76.7	84.9	73.5	11.4	70.4	87	73.6	90	0.23	8	N	2	N	4
24	.996	.951	74.7	86.5	88.4	72.5	15.9	70.4	87	71.6	61	0.00	56	N	1	SE	6
25	.997	.910	73.8	85.3	87.9	72.1	15.8	65.8	76	72.8	66	0.00	35	N	1	SE	13
26	.938	.870	75.8	86.5	89.0	73.9	15.1	69.4	81	72.0	62	0.00	40	N	2	N	3
27	.882	.839	74.8	86.3	88.9	73.3	15.6	68.4	78	72.9	65	0.00	31	N	1	N	2
28	.913	.879	76.4	86.7	88.9	73.0	15.9	71.1	84	72.8	64	0.00	64	Z	0	SE	10
29	.952	.910	75.5	87.3	89.3	75.0	14.3	69.9	83	72.4	62	0.00	80	N	1	SE	9
30	.924	.875	74.7	85.7	90.9	73.6	17.3	68.0	80	71.8	63	0.00	39	N	1	S	5
31	.905	.873	77.4	87.8	91.2	74.1	17.1	69.1	76	70.9	57	0.06	38	N	2	N	2
Means.	29.935	29.888	75.5	84.0	88.1	73.4	14.7	69.4	82	72.3	69	..	46.6	N	1.1	...	5.2
Total	...	...	...	...	...	...	...	...	...	...	...	1.86	...		...		

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	1 Cum. SE	4 Cir.	Fine a.m. Cloudy p.m. T. to N. at 4 p.m. R. at 4.12 to 5.7 p.m.
2	...	2 Cum.	...	...	2 Cum.	7 Cir. s	Fine a.m. Cloudy p.m. T. at intervals during forenoon. R. at 12.11 to 12.54 p.m.
3	...	2 Cum.	7 Cir.	...	2 Cum. SE	5 Cir.	Cloudy.
4	...	1 Cum. SE	3 Cir.	...	2 Cum.	7 Cir. s.	Fair a.m. Cloudy p.m.
5	...	1 Cum.	4 Cir.	...	1 Cum. SE	1 Cir.	Fair a.m. Fine p.m.
6	...	...	7 Cir.	...	1 Cum.	2 Cir.	Cloudy a.m. Fine p.m. T. to N. W. at 2.44 p.m.
7	...	...	...	4 Str. c.	...	6 Cir. s.	Fine a.m. Cloudy p.m. T. to N.W. at 12.46 p.m.
8	...	1 Cum E	6 Cir	...	1 Cum. SE	...	Cloudy a.m. Fine p.m.
9	...	1 Cum.	...	...	2 Cum. SE	2 Cir. s.	Fine a.m. Fair p.m.
10	...	1 Cum.	6 Cir.	...	1 Cum.	...	Cloudy a.m. Fine p.m.
11	...	...	...	2 Str. c.	2 Cum.	5 Cir. s.	Fine a.m. Cloudy p.m. R at 12.12 p.m. to 2.24 p.m. L. and T. during early part of night.
12	1 Str. c.	...	7 Cir. s.	10 Alt. s.	..	...	Cloudy a.m. Raining p.m. R. at 1.17 to 3 p.m. T. to SE. at 1.27 p.m. and to E. at 2.9 p.m. T. to N. at 2.27 p.m. R. from 3 to 3.37 p.m.
13	...	2 Alt c.	5 Cir. s.	...	1 Cum.	8 Cir. s.	Cloudy. R. at 11.30 a.m. to 12.9 p.m. and at 1.22 to 1.43 p.m.
14	...	1 Cum. SE	8 Cir.	...	1 Cum. SE	9 Cir s.	Cloudy. L. R. at 11.37 to 11.52 a.m. Squall from SE. at 8.47 p.m. R. at 9.13 to 9.22 p.m.
15	...	1 Cum. SE	7 Cir.	...	2 Cum. SE	4 Cir.	Cloudy.
16	...	1 Cum. SE	4 Cir.	...	...	10 Cir. s.	Fair a. m. Cloudy p. m. L. R. at 1.54 to 2.56 p.m.
17	...	1 Cum.	...	3 Str. c.	1 Cum.	4 Cir. SE	Fine a.m. Cloudy p.m.
18	...	1 Cum. SE	8 Cir.	2 Str. c.	1 Cum. SE	6 Cir. s.	Cloudy. L. R. at 9.12 to 9.48 p.m.
19	...	1 Cu.m	5 Cir.	2 Str. c. SE	2 Cum. SE	5 Cir. s.	Cloudy.
20	8 Alt. s.	...	1 Cir. s.	4 Str. c. / 1 Alt. s.	1 Cum.	4 Cir. s.	Cloudy. T. to N. at 2.5 p.m. L. R. at 2.13 to 2.49 p.m. L. to E. at 3.25 p.m.
21	4 Str. c. SE	1 Cum. SE	4 Cir. s. SE	...	4 Alt. c. / 2 Cum.	4 Cir.	Cloudy. T. during early morning. T. to S.E. at 7.20 a.m. R. at 7.36 to 8.2 a.m. R. at 8.49 to 9.2 a.m. T. to SE. at 9.25 a.m. R. at 9.48 to 11.22 a.m., and at 6.22 to 7.8 p.m. Earthquake at 4.20 p.m.
22	...	1 Cum. SE	...	...	2 Cum.	8 Cir. s.	Fine a.m. T. at 1.17 p.m., N.
23	...	1 Cum.	1 Cir. s.	3 Str. c. E / 5 Alt. s.	1 Cum.	...	Fine. R. at 1.21 to 3 p.m., and from 3 to 6.36 p.m. T. to N. at 1.46 p.m., and to E. at 2.55 p.m. T. and L. at intervals during early part of night.
24	...	1 Cum. E	...	...	1 Cum.	3 Cir. s.	Fine a.m. Fair p.m. Squall from SE. at 8.47 a.m.
25	...	...	2 Cir. s. / 8 Cir.	2 Str. c.	2 Cum. SE	6 Cir.	Cloudy. T. to NE. at 2.7 p.m.
26	...	...	1 Cir.	...	1 Cum.	4 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 1.16 p.m.
27	...	...	1 Cir.	4 Str. c. E	1 Cum.	4 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 12.44 p.m., and at 2.7 p.m.
28	...	...	1 Cir.	4 Str. c.	2 Cum. SE	2 Cir.	Fine a.m Cloudy p.m.
29	...	1 Cum. E	...	...	2 Cum. SE	1 Cir.	Fine.
30	...	...	1 Cir.	8 Str. c. SE	1 Cum.	...	Fine a.m. Cloudy p.m. T. to NW. at 2.57 p.m.
31	...	...	10 Cir. s.	4 Str. c. SE	2 Cum. SE	4 Cir. s.	Cloudy. T. to N. at 5.5 p.m. T. to SE at 6.27 p.m. L. at 6.23 p.m. Squall E SE. at 6.40 p.m. L. R. at 7.27 to 8.30 p.m.
Means	0.5	0.4	2.5	1.5	1.6	3.0	

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	...	...	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.929	29.896	77.8	83.9	87.2	72.8	14.4	...	...	...	...	...
Kingston ...	50	29.935	29.888	75.5	84.0	88.1	73.4	14.7	91.8	9	71.1	1	20.7
Montego Bay ...	160	29.932	29.882	75.2	83.1	86.8	70.9	15.9	89.8	9	68.3	1	21.5
Castleton Gardens...	496	...	...	73.3	82.1	87.5	68.6	18.9	92	9	65	6	27
Hope Gardens ...	600	...	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	71.8	78.6	85.5	67.9	17.6	89	10	66	6	23
Hill Gardens ...	4,907	...	...	...	...	...	...	...	...	...	...	...	—

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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kingston ...	50	69.4	82	72.3	69	1.86	46.6	N	1.1	...	5.2	0.4	0.7	8.5	2.0	1.5	4.0
Montego Bay ...	160	72.5	90	75.8	79	4.70	48.2	ENE	1.2	NE	3.8	0.2	0.3	8.8	1.1	5.0	1.8
Castleton Gardens...	496	68.7	87	72.5	74	5.34	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	..	9.15	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

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. 1898.	August. Average.
Infantile diseases not otherwise specified	...	26	12
Lung diseases	...	19	15
Fever and Malaria	...	12	9
Dysentery and Diarrhœa	...	6	4
Various (Influenza, 1)	...	52	50
Total	...	115	90

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initials
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	D. W.
March 1st ...	11.10 a.m	64.9	48.8	53	5.55	Cloudy.	J. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	W. H.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	J. W.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ...	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.
September 1st ...	11.15 a.m.	68.9	50.8	56	7.60	Raining.	J. W.

Rainfall for August, 1898.

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. 1898. 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	11.66	1.55	14	14	11.09
Manchioneal P.W.D.	...	...	...	...	...
Fair Prospect P.W.D.	...	...	...	...	...
Bath P. W. D.	13.74	2.70	12	21	...
Moore Town P. W. D.	...	...	...	...	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	...	...	...	...	12.62
Fellowship P. W. D.	...	...	...	...	...
Serge Island P.W.D.	20.17	5.70	23	16	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	...	...	...	...	...
Cedar Valley P. W. D.	13.64	2.11	21	13	...
Green Vale	...	...	...	...	...
Cinchona Plantation	5.21	.70	18	17	9.75
Resource	...	...	...	...	...
Buff Bay P. W. D.	...	...	...	...	...
Cold Spring	3.73	.92	2	12	...
Avocat P.W.D.	...	...	...	...	...
Hardware Gap P.W.D.	7.23	1.20	27	16	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	...	...	...	...	...

North-Eastern Division, *contd.*	August. 1898. 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.
Stony Hill Rfty	9.15	1.30	25	19	11.82
Stony Hill P. W. D.	9.25	1.30	25	19	...
Castleton Gardens	10.99	1.20	12	16	11.04
Lawrence Tavern PWD	8.11	1.70	26	15	...
Water Valley P.W.D.*	4.47	1.04	22	14	...
Quebec	...	...	...	...	3.89
Richmond P. W. D.	7.83	4.90	19	14	...
Highgate P. W. D.	...	...	...	...	...
Gayle	3.78	1.00	14	8	6.65
Gayle P. W. D.	4.50	1.00	14	16	...
Rio Hoe	4.66	.97	22	16	8.02
Unity Valley	5.92	1.58	8	22	6.79
Moneague P.W.D.	4.56	.60	2,28	20	5.93
Claremont P.W.D.	2.33	.58	14	6	...
Albion	8.48	1.99	8	17	6.58
Averham Park	2.50	.49	22	15	5.97
Ballintoy P.W.D.	5.26	.80	28	13	...
Means	6.69	...	...	...	8.36
Northern Division					
Port Maria P.W.D.	5.16	.78	23	24	4.81
Ocho Rios P.W.D.	4.21	1.35	14	5	...
Drax Hall	4.62	1.52	27	11	4.10
St. Ann's Bay P.W.D.	4.54	1.53	27	16	3.15
Seville	...	...	...	...	4.35
Richmond Estate	2.05	.32	23	14	4.19
Llandovery	...	...	...	...	3.57
Brown's Town P.W.D.	3.93	1.12	23	11	4.25
Dry Harbour P.W.D.	1.12	.72	21	3	...
Chewmagna P. W. D.	6.11	2.35	22	13	...
Home Castle	1.54	.75	29	9	4.28
Richmond Pen	2.97	.80	22	6	6.23
Mahogany Hall	3.33	1.08	22	8	6.13
Brampton Bryan	1.52	.52	22	9	4.20
Bryan Castle	2.48	1.30	21	6	3.17
Braco	1.65	.72	21	3	3.62

* Gauge transferred from Albany to Water Valley.

Northern Division, *contd.*	August. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	2.12	.85	22	6	4.27
Arcadia Great House	1.50	.60	22	7	...
Harmony Hall	...	...	...	...	2.91
Lancaster	1.86	.93	22	4	3.77
Vale Royal	1.33	.68	22	7	5.20
Colchis Pen	3.45	1.20	22	5	5.51
Hyde	4.45	1.25	22	8	6.36
Georgia	1.90	.75	12	7	4.17
Long Pond	3.29	1.35	24	8	...
Steelfield	2.27	.70	8	7	4.08
Oxford	1.65	.55	22	4	3.48
Cambridge	2.77	.70	21	6	4.37
Dry Valley	...	...	...	...	...
Lottery	1.98	.60	22	6	4.24
Hampstead	...	...	...	...	...
Falmouth	1.98	...	...	...	3.22
Falmouth P.W.D.	1.69	.68	22	8	...
Fontabelle	8.50	1.35	14	16	...
Martha Brae	...	...	...	...	...
Holland Pen	3.05	1.75	3	4	3.45
Pembroke	...	...	...	...	5.15
Golden Grove	6.40	...	...	...	5.62
Green Park	2.97	1.02	23	...	3.83
Tilston	7.75	...	...	...	6.03
Weston Favell	5.54	1.16	19	...	7.74
Orange Valley	3.37	...	...	...	3.43
Kent	3.38	...	...	...	3.61
Dundee	4.90	...	...	...	4.68
Phœnix	5.33	1.12	22	16	5.25
Gale's Valley	8.30	...	...	...	6.51
Greenwood	...	...	...	...	3.53
Canaan	3.43	.80	21	10	...
Lima	3.27	1.00	28	7	...
Content	...	...	...	...	4.59
Bellfield	...	...	...	...	...
Guilsbro'	4.18	...	...	...	6.04
Tryall	...	...	...	...	...
Leogan	...	...	...	...	6.14
Success	1.00	.80	22	2	2.59
Cinnamon Hill	.79	.64	22	3	2.51
Rose Hall	.55	.55	22	1	2.56
Running Gut	...	...	...	...	2.69
Spring	3.10	...	...	...	...
Ironshore	1.68	...	...	...	5.12
Friendship	...	...	...	...	...
Providence	...	...	...	...	4.65
Montego Bay P.W D.	4.70	1.22	19	10	6.29
Catherine Hall	7.25	...	...	...	6.72
Catherine Mount	...	...	...	...	7.04
Fairfield	5.35	1.40	8	9	6.89
Anchovy	...	...	...	...	8.79
Round Hill	2.95	.90	14	7	5.55
Tryall	...	...	...	...	6.61
Sandy Bay P.W.D.	3.44	.95	21	8	...
Lucea P.W.D.	7.92	1.82	19	15	...
Orange Cove	...	...	...	...	6.46
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	1.03	.86	12	10	7.02
Linstead P.W.D.	2.35	1.13	13	4	8.64
Point Hill P.W.D.	5.62	1.00	18	10	...

Northern Division, *contd.*	August. 1898. 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.	8.69	1.47	2	...	...
Worthy Park	2.14	.95	12	6	...
Kellits P. W. D.	...	...	...	...	...
Chapelton P.W.D.	5.65	.95	22	14	8.98
Danks Savoy	6.25	1.17	22	17	...
Mears P.W.D.	11.47	2.70	27	20	...
Cave Valley	3.40	1.00	12	11	8.24
Means	3.37	...	...	...	4 96
West Central Division.					
Mocho P.W.D.	7.05	1.00	20	19	...
Baillieston P.W.D.	2.66	1.00	12	5	...
Farm Plantation	7.68	2.35	18	15	9.39
Brockenhurst Pln.	...	...	...	...	10.01
Christiania P.W.D.	4.03	.98	28	10	...
Kendal P.W.D.	7.63	1.22	20	18	...
Mandeville P.W.D.	6.74	1.50	20	16	10.60
Carlton (Mandeville)	5.81	1.20	20	15	...
Marshalls Pen	...	...	...	...	9.39
Ulster Spring P.W.D.	8.93	2.11	25	13	...
Troy P.W.D.	7.38	2.58	22	18	...
Windsor Pen	7.64	1.75	22	12	9.47
Balaclava P.W.D.	6.22	1.04	16	16	...
Elim	12.10	2.10	26	14	...
Appleton	8.08	1.40	11	20	11.48
Maggotty P.W.D.	10.40	1.54	9	21	...
Spring Vale	12.33	2.95	4	17	11.86
Maroon Town	...	...	...	...	13.80
Kempshot	4.47	.75	29	15	9.46
Kepp	13.76	2.86	27	21	11.14
Kew Park	...	...	...	...	11.67
Hazelymph	12.57	1.57	28	20	12.01
King Gate P.W.D.	2.92	.90	19	8	...
Windsor Forest	...	...	...	...	13.53
Chester Castle	...	...	...	...	11.73
Darliston P.W.D.	17.37	3.00	23	22	...
Whithorn, P.W.D.	7.82	1.80	18	23	...
New Galloway	7.90	1.50	14	14	...
Lethe Bridge	8.51	1.70	19	14	...
Copse	9.45	2.20	15	17	10.82
Cacoon Castle	9.58	2.45	22	14	10.66
Golden Grove	...	...	...	...	12.34
Great Valley	13.34	2.00	22	13	14.38
Brownsville	13.03	2.32	8	21	...
George's Plain Estate	...	...	...	...	..
Fontabelle	...	...	...	...	11.79
Morgan's Bridge P.W.D.	7.79	1.25	23	21	...
King's Valley	15.91	3.50	22	20	11.41
Dias	19.06	3.77	29	22	...
Spring Hill	...	...	...	...	...
Abingdon	...	...	...	...	9.19
Means	9.93	...	...	...	10.98
Southern Division.					
Morant Point L.H. P. W.D.	5.48	1.08	24	17	5.62
Morant Bay P.W.D.	9.06	2.90	12	12	...
Lyssons	...	...	...	...	..
Easington P.W.D.	9.68	2.60	23	19	...
Halberstadt	...	...	...	...	...

Southern. Division, *contd.*	August. Total Fall.	1898. Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Bull Bay P.W.D.	2.80	1.60	20	6	...
Gordon Town P.W.D.	4.55	1.12	27	16	...
Hope Gardens	5.34	1.30	1	15	7.23
Hope Reservoir	...	...	...	...	7.23
Cherry Garden	...	...	...	...	9.19
King's House	3.47	.65	13	10	7.31
Cavaliers	...	...	...	...	...
Shortwood	...	...	...	...	...
Constant Spring	...	...	...	...	...
Monaltrie	3.04	1.40	1	12	5.93
Halfway-Tree P.W.D.	2.51	.93	1	9	...
Lunatic Asylum ...	1.88	.61	21	8	...
Kingston Gardens ...	1.61	.50	21	9	...
Public Works Office Kn.	1.86	.66	21	12	5.05
Plumb Point L. H.	2.43	.59	12, 21	8	4.29
Ferry P. W. D.	4.84	2.00	1	6	...
Caymanas	...	...	...	...	6.34
Spanish Town P. W. D.	2.96	.90	1	9	5.75
Windsor Park	2.73	.70	16	9	2.95
Hog Hole Pen P.W.D.	3.75	.75	11	13	5.79
Old Harbour P.W.D.	2.68	.61	12	7	3.77
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	2.01	...	...	11	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	5.20	2.60	18	6	5.03
Yarmouth P.W.D.	7.67	2.22	18	8	...
Victoria Town P.W.D.	7.23	3.15	19	9	...
Stone's Hope	6.95	1.75	18	13	6.44
Newport P.W.D.	4.79	1.00	18	9	...
Alligator Pond P.W.D.	4.48	1.68	18	7	...
Southfield P.W.D.	2.82	1.16	18	7	...
Potsdam	4.65	1.09	20	10	5.43
Long Hill	7.31	2.15	16	10	6.60
Pepper	8.78	4.00	20	9	7.06
Torrington P.W.D.	7.12	1.15	16	14	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	12.23	1.90	26	14	7.42
Holland	...	...	...	...	...
Black River P.W.D.	7.11	1.57	23	15	5.89
Spring Hill	10.48	1.60	23	20	...
Whitehall	...	...	...	...	...
Font Hill	8.94	1.40	12	12	...
Grand Vale	...	...	...	...	...
Peter's Ville	10.20	1.76	12	20	...
Mount Edgecombe	7.64	1.51	20	21	6.02
Sweet River	6.94	1.00	18	18	7.68
Cornwall	6.30	1.30	14	12	...
Windsor, Sav.-la-Mar	...	...	...	...	7.04
Sav.-la-Mar P.W.D.	5.30	1.28	25	12	...
Blackheath	...	...	...	...	...
Retreat	6.03	1.14	6	11	...
Negril Pt. Lighthouse	4.16	1.24	18	16	...
Means. ...	5.29	...	...	...	5.86

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	August. 1898. In.	Average. In.
North Eastern Division	6.69	8.36
Northern "	3.37	4.96
West Central "	9.93	10.98
Southern "	5.29	5.86
Means	6.32	7.54

The greatest monthly fall, viz., 20.17 ins. was recorded at Serge Island P. W. D., and the least fall, viz.: .55 ins. was recorded at Rose Hall.

The greatest fall in 24 hours was 5.70 ins. at Serge Island P. W. D. on the 23rd. The greatest number of days on which rain fell was 24 at Port Maria. Six stations had (as their maximum falls) in 24 hours falls between 3 and 5 inches, and one had a fall between five and seven inches.

The mean approximate rainfall as arrived at on the 6th inst., (when a preliminary report on August was issued) was 6.33 inches. This result was obtained from 41 stations with "averages." The results shown in the Comparative Table now published are from 84 such Stations, and show a rainfall for the Island of 6.32 ins., as compared with an average of 7.54 ins.

It will thus be seen that the rainfall was below the average in every division of the island, the deficiency being least proportionately in the West Central and Southern Divisions. The mean for the island shows a fall of six-sevenths of the average.

The following notes have come to hand:—

N. E. Division.

Richmond—4.80 fell in 2 hours on 19th, severe Thunderstorms during month.

Gayle—Light showers, high winds.

Rio Hoe—Good showers from the 2nd to the 31st.

Moneague—Intensely hot during month.

N. Division.

St. Ann's Bay—Bar. at 7 a.m. 29.933, and at 3 p.m. 29.893, corr. to 32°, sea level and gravity 45.° Indoor Temp., 7 a.m., 79° and at 3 p.m. 85.°

Brown's Town—Very hot during month.

Mahogany Hall—Three inches less than August 1897 but 3 ins. more for the 8 months of last year.

Cinnamon Hill—Very dry August on N. sea coast.

Fairfield—Rains very seasonable and well distributed.

W. C. Division.

Mandeville—An unusually wet month. Showers very partial, falling heavily and quite locally.

Copse—Unusual rains for August. Fine for cane cultivation, unfortunately the Industry is dying out in this Parish (Hanover).

S. Division.

Windsor Park—The weather throughout August has been hot and gloomy and threatening all round for rain, but it seldom fell here.

Denbigh—This has been a very seasonable year from June to the present time, (1st Sept.). We have had the rains just as we could have wished.

Torrington—More rains this August than any on record.

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3.70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
August	...	6.32	7.54
Total	...	47.62	44.27

Although the August fall was below the average, the rainfall for the year to the end of August was still more than three inches or eight per cent. above the average.

Robt. Johnstone.

Weather Office,

22nd September, 1898.

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No. 231.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1898.

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	29.930	29.903	75.2	85.3	90.3	73.0	17.3	68.5	80	67.5	55	0.00	63	N	1	NE	3
2	.920	.889	74.4	76.2	89.4	71.9	17.5	69.4	84	73.5	91	0.34	15	N	1	N	1
3	.897	.858	74.7	86.9	87.8	73.1	14.7	73.0	94	70.3	58	0.13	21	N	1	S	7
4	.909	.872	75.5	82.5	87.2	73.0	14.2	70.5	84	73.8	75	0.15	21	N	2	SE	5
5	.947	.895	75.8	86.4	88.7	74.1	14.6	71.0	85	73.4	67	0.00	28	N	1	SE	11
6	.949	.899	75.6	85.2	89.6	73.7	15.9	68.9	80	68.8	58	0.00	72	N	3	N	2
7	.910	.826	73.4	87.1	88.5	72.1	16.4	67.7	82	73.5	64	0.00	79	N	1	SSE	10
8	.901	.811	72.4	86.9	89.8	71.9	17.9	66.8	83	71.0	59	0.00	79	N	1	SSE	11
9	.916	.858	75.6	84.8	88.3	70.8	17.5	70.3	84	73.1	68	0.20	16	Z	0	SW	2
10	.900	.890	73.6	73.5	75.4	72.5	2.9	69.6	87	72.7	97	1.32	8	N	3	NW	2
11	.876	.886	72.8	79.6	85.2	71.7	13.5	71.2	95	73.0	80	0.01	15	N	1	Z	0
12	.854	.808	72.4	84.9	88.2	71.6	16.6	68.2	87	73.2	68	0.00	23	N	1	SE	2
13	.859	.827	72.5	86.5	88.3	71.8	16.5	67.5	84	70.3	59	0.00	24	N	1	SE	4
14	.849	.787	73.6	86.4	87.6	72.0	15.6	68.4	83	73.0	65	0.00	19	Z	0	SE	2
15	.823	.797	74.5	87.3	88.0	73.7	14.3	70.8	88	72.6	62	0.00	28	N	1	SE	3
16	.865	.846	76.0	83.9	88.2	74.0	14.2	71.0	85	72.7	69	0.00	24	Z	0	S	2
17	.926	.866	76.3	87.9	89.5	74.0	15.5	72.0	87	73.7	63	0.00	46	N	1	SE	5
18	.933	.849	77.3	86.2	90.1	75.4	14.7	72.4	85	74.2	68	0.08	46	N	2	SE	5
19	.952	.857	75.6	76.2	86.8	72.7	14.1	71.5	87	73.0	90	0.15	33	N	1	NE	2
20	.915	.852	72.7	84.4	85.6	72.0	13.6	69.0	88	72.9	69	0.00	45	Z	0	SE	4
21	.916	.880	75.6	83.5	85.5	73.8	11.7	73.0	92	72.5	70	0.00	42	N	1	ESE	3
22	.928	.874	74.8	77.2	86.8	74.3	12.5	69.0	82	74.0	90	0.05	46	N	1	N	2
23	.869	.846	72.3	83.7	88.7	71.0	17.7	67.7	86	72.4	69	0.00	36	N	2	S	1
24	.895	.813	74.4	84.8	89.1	72.1	17.0	69.0	83	74.7	65	0.21	28	N	1	N	1
25	.862	.813	73.8	85.4	87.6	72.1	15.5	71.0	91	68.4	57	0.25	16	N	1	S	2
26	.855	.817	74.2	85.2	86.4	72.6	13.8	71.8	92	71.2	63	0.06	18	Z	0	SW	2
27	.865	.801	74.4	87.1	89.1	71.9	17.2	69.7	85	74.6	62	0.00	46	Z	0	SE	3
28	.889	.822	73.9	87.3	88.8	72.0	16.8	69.2	85	72.7	62	0.00	19	N	1	S	3
29	.861	.786	75.4	82.8	89.3	73.0	16.3	71.8	89	72.9	72	0.00	32	N	1	NW	2
30	.778	.721	75.2	88.8	92.3	74.3	18.0	71.4	88	71.5	57	0.00	42	NW	1	E	2
Means.	29.891	29.840	75.5	84.1	87.9	72.7	15.2	70.1	86	72.4	68		34.3	N	1.0	...	3.4
Total	...	...	...	...	...	...	...	...	...	...	...	2.95	...		...		

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 Cum. E	2 Cir. s. E	2 Str. c. SE 2 Alt. s.	1 Cum.	4 Cir.	Fair a.m. Cloudy p.m. T. to N.W. at 2.7 p.m.
2	...	2 Cum.	6 Cir. s. E	...	1 Cum. SE 1 Alt. c.	8 Cir. s	Cloudy. Light R. at 1.16 to 1.36 p.m. T. S.E. at 1.19 p.m. T. to N. at 1,37 p.m.
3	1 Alt. s. 1 Str. c.	1 Cum. E	7 Cir. s.	...	3 Cum. SE	3 Cir. s. 4 Cir.	Raining early morning. Light R. from 7 to 7.19 and at 10.53 to 11 a.m. Squall from S.E. at 5.30 p.m. T. to N. at 5.34 p.m. R. from 6.47 to 7.46 p.m.
4	6 Alt. s. 1 Str. c.	...	3 Cir. s.	...	3 Cum. SE	3 Cir. s. 4 Cir.	Cloudy. T. to S.E. at 10.50 a.m. Light R. at 11 to 11.10 a.m. and from 12.30 to 1 p.m. and at intervals from 1.32 to 2.40 p.m.
5	...	1 Cum.	9 Cir.	...	2 Cum. SE	1 Cir.	Cloudy a.m. Fine p.m.
6	...	1 Cum.	9 Cir. s.	...	3 Cum.	6 Cir. s.	Cloudy.
7	...	...	5 Cir.	...	2 Cum. SE	1 Cir.	Fair a.m. Fine p.m.
8	...	1 Cum. SE	4 Cir.	...	2 Cum.	2 Cir.	Fair a.m. Fine p.m.
9	...	1 Cum.	...	5 Str. c. E	2 Cum.	2 Cir. E	Fine a.m. Cloudy p.m. R. at 12.15 to 12.38 p.m.
10	3 Alt. s. 3 Cir. c. SE	...	4 Cir. s.	10 Alt. s.	..	...	Light R. during early morning, and from 7.18 to 12.26 p.m and from 12.58 to 3 p.m. R. from 3 to 4.14 p.m, and from 4.59 to 6.27 p.m.
11	3 Str. 5 Str. c.	1 Cum. SE	1 Cir. s.	1 Str. c. SE	1 Cum. SE	3 Cir. s. SE 4 Cir.	Cloudy. R. at 6.28 to 6.40 a.m. L. during the night.
12	...	1 Cum.	3 Cir.	2 Str. c. 1 Nim. 1 Alt. s.	...	3 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 3.32 p.m.
13	...	...	8 Cir.	...	2 Cum. SE	...	Cloudy a. m. Fine p. m.
14	...	...	...	...	2 Cum. SE	...	Fine.
15	...	1 Cum.	...	...	1 Cum. SE	3 Cir	Fine.
16	...	1 Cum.	...	...	2 Cum.	6 Cir. s.	Fine a.m. Cloudy p.m.
17	...	...	1 Cir.	1 Str. c.	2 Cum.	2 Cir. s.	Fine a.m. Fair p.m.
18	...	1 Cum.	4 Cir.	...	1 Cum.	1 Cir. s.	Fair a.m. Cloudy p.m. T. to N. at 2.27 p.m. R. from 5.37 to 6.3 p.m. T. to N.W. at 6 p.m. L. during the night.
19	2 Alt. s.	1 Cum.	3 Cir. s. 1 Cir.	2 Str. c.	1 Cum.	7 Cir. s.	Cloudy. Light R. at 1.12 to 2.56 p.m. Squall from S.E. at 1.10 p.m.
20	1 Str.	1 Cum.	8 Cir.	1 Str.	2 Cum.	3 Cir. 4 Cir. s.	Cloudy.
21	...	...	10 Cir. s.	...	1 Cum.	6 Cir. 3 Cir. s.	Cloudy.
22	...	2 Cum.	5 Cir. s.	2 Str. 1 Str. c.	...	6 Cir. s.	Cloudy. Squall from S. at noon. R. at 12.34 to 12.47 p.m., and at 1.49 to 2.28 p.m.
23	...	...	...	1 Str. 6 Str. c.	...	2 Cir. s.	Cloudy. T. to N. at 2.7 p.m. and at intervals to 3 p.m.
24	...	1 Cum.	...	3 Str. c.	2 Cum.	4 Cir. s.	Fine a.m. Cloudy p.m. T. to N. at 1.46 p.m. Light R. from 5.23 to 5.41 p.m. T. to SW. at 6.24 p.m. with L. R. from 6.39 to 7.42 p.m.
25	...	1 Cum	6 Cir. 2 Cir. c.	3 Alt. s.	1 Cum.	3 Cir.	Cloudy. T. to W. at 2.2 p.m. R. during the night.
26	...	1 Cum. SE	9 Cir	...	1 Cum.	8 Cir.	Cloudy. R. during early morning.
27	...	1 Cum.	...	...	2 Cum.	1 Cir. SE	Fine.
28	...	1 Cum.	...	...	1 Cum.	6 Cir. s.	Fine a.m Cloudy p.m.
29	...	...	7 Cir.	...	1 Cum.	1 Cir.	Cloudy a.m. Fine p.m. L. to S. during the night.
30	...	1 Cum.	3 Cir.	1 Str.	2 Cum. W	2 Cir. W	Fair.
Means	0.9	0.8	4.0	1.5	1.5	3.9	

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	29.887	29.888	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.880	29.846	77.2	83.4	87.3	73.0	14.4	90.8	18	70.8	12	20.0
Kingston ...	50	29.891	29.840	75.5	84.1	87.9	72.7	15.2	92.3	30	70.8	9	21.5
Montego Bay ...	160	29.886	29.851	75.2	79.5	86.9	70.8	16.1	90.1	26	68.5	8	21.6
Castleton Gardens...	496	29.888	29.825	71.0	81.4	86.9	65.8	21.1	91	17*	64	3†	27
Hope Gardens ...	600	...	...	72.5	81.8	87.5	68.4	19.1	91	17	66	12, 13	25
Stony Hill Refty. ...	1,400	...	...	71.9	77.9	84.9	68.0	16.9	88	8, 28	66	12	22
Hill Gardens ...	4,907	25.202	25.173	61.9	65.5	69.7	58.2	11.5	75	18	56	7†	19

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	...	...	...	...	10.18	...	Var.	5.3	Var.	7.3	3.8	1.7	1.0	3.4	1.8	0.9
Negril Point L. H.	33	73.5	88	73.3	72	3.87	212.6	NE	6.3	Var.	11.2	1.2	1.7	5.0	3.9	2.5	1.
Kingston ...	50	70.1	86	72.4	68	2.95	34.3	N	1.0	SE	3.4	0.9	0.8	4.0	1.5	1.5	3.8
Montego Bay ...	160	73.2	93	75.5	86	9.26	45.4	ENE	1.3	ENE	2.3	0.1	0.7	4.5	2.8	3.9	2.9
Castleton Gardens...	496	69.1	88	74.3	80	7.76	...	...	...	...	...	...	...	...	...	...	..2
Hope Gardens ...	600	67.8	84	72.9	74	4.48	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	..	5.92	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	57.7	85	62.9	90	8.55	17.3	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

* Also 28 and 30. † And 5 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. 1898.	Average.
Infantile diseases not otherwise specified	...	31	11
Lung diseases	...	14	12
Fever and Malaria	...	9	7
Dysentery and Diarrhœa	...	3	2
Various	...	34	47
Total	...	91	79

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initia
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	D. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	J. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	W. H.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	J. W.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ...	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.
September 1st ...	11.15 a.m.	68.9	5[illegible].8	56	7.60	Raining.	J. W.
October 1st ...	10.15 a.m.	69.9	46.8	63	10.20	Fine.	J. W.

Rainfall for September, 1898.

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. 1898. 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	11.38	2.60	10	13	12.58
Manchioneal P.W.D.	12.41	3.32	11	21	...
Fair Prospect P.W.D.	15.33	4.02	9	13	...
Bath P. W. D.	14.51	3.40	10	14	...
Moore Town P. W. D.	18.20	4.25	10	7	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	19.71	4.94	9	16	9.67
Fellowship P. W. D.	23.08	7.59	11	16	...
Johnson River Bridge	12.15	3.50	10	11	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	14.23	4.53	10	13	...
Cedar Valley P. W. D.	12.01	2.57	10	16	...
Green Vale	...	...	...	...	...
Cinchona Plantation	8.55	1.95	23	17	9.79
Resource	...	...	...	...	...
Buff Bay P. W. D.	10.23	4.19	10	10	...
Cold Spring	...	...	...	...	...
Avocat P.W.D.	6.85	1.73	10	14	...
Hardware Gap P.W.D.	7.08	2.00	24	14	...
Rose Hill	10.90	2.18	12	15	...
Annotto Bay P. W. D.	5.35	2.43	10	6	...

North-Eastern Division, *contd.*	September. 1898. 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.
Stony Hill Rfty	5.94	1.55	11	14	9.85
Stony Hill P. W. D.	...	...	...	...	...
Castleton Gardens	7.76	2.90	22	14	9.55
Lawrence Tavern P.W.D.	4.58	1.40	23	5	...
Water Valley P.W.D.	6.42	2.20	10	8	...
Quebec	...	...	...	...	3.48
Richmond P. W. D.	5.31	1.90	10	15	...
Highgate P. W. D.	...	...	...	...	...
Gayle	...	...	...	...	6.05
Gayle P. W. D.	5.98	1.40	10	14	...
Rio Hoe	6.32	1.28	10	14	6.61
Unity Valley	12.08	2.33	23	21	7.27
Moneague P.W.D.	8.41	1.73	16	19	...
Claremont	7.56	1.40	16	13	...
Albion	9.53	2.21	22	16	6.84
Averham Park	6.44	1.06	15	16	4.57
Ballintoy P.W.D.	7.60	1.13	24	14	...
Means	9.75	...	...	...	8.53
Northern Division					
Port Maria P.W.D.	9.95	2.59	2	13	3.68
Ocho Rios P.W.D.	3.69	1.09	10	6	...
Drax Hall	3.65	1.00	10	11	4.25
St. Ann's Bay P.W.D.	3.23	1.04	10	16	...
Seville	...	...	...	...	3.83
Richmond Estate	3.91	1.20	10	13	4.33
Llandovery	...	...	...	...	4.21
Brown's Town P.W.D.	6.49	1.44	11	11	...
Dry Harbour P.W.D.	3.83	1.00	6	12	...
Chewmagna P. W. D.	7.84	1.73	14	14	...
Home Castle	7.52	2.35	11	12	4.86
Richmond Pen	9.44	1.65	24	11	6.28
Mahogany Hall	9.99	1.64	11	15	5.95
Brampton Bryan	5.57	.96	11	13	4.08
Bryan Castle	6.11	1.02	5	13	3.39
Braco	4.40	.95	22	12	3.76

Northern Division, *contd.*	September. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	5.73	.80	1	15	4.38
Arcadia Great House	5.64	.93	1	13	...
Harmony Hall	...	...	...	...	3.81
Lancaster	5.15	1.27	21	13	4.20
Vale Royal	5.10	.98	22	14	4.66
Colchis Pen	6.12	1.09	19	12	4.73
Hyde	6.81	1.10	1	18	6.38
Georgia	4.48	1.00	22	11	3.93
Long Pond	6.04	.90	1	14	...
Steelfield	7.60	1.52	23	15	4.34
Oxford	6.40	1.70	21	11	4.04
Cambridge	7.88	1.80	21	12	4.22
Dry Valley	...	..	...	...	...
Lottery	6.38	1.40	21	9	4.55
Hampstead	...	...	...	...	...
Falmouth	4.33	..	...	...	3.39
Falmouth P.W.D.	3.40	1.02	29	12	...
Fontabelle	10.75	1.75	11	21	...
Martha Brae	...	...	...	...	...
Holland Pen	4.40	1.20	1	7	3.47
Pembroke	...	...	...	...	4.53
Golden Grove	4.90	...	...	...	6.19
Green Park	4.00	...	...	...	4.30
Tilston	6.30	...	...	...	5.77
Weston Favell	4.00	.70	22	12	8.12
Orange Valley	4.73	...	...	...	3.78
Kent	4.52	...	...	...	4.70
Dundee	5.33	..	...	...	4.80
Phœnix	6.44	1.12	11	16	7.23
Gale's Valley	4.95	...	...	...	6.75
Greenwood	2.31	...	...	...	4.59
Canaan	5.17	1.00	25	15	...
Lima	3.99	.90	8	8	...
Content	...	...	...	...	...
Bellfield	4.87	.70	22	14	...
Guilsbro'	4.72	...	...	...	7.52
Tryall	.	...	...	...	...
Leogan	...	...	...	...	5.73
Success	2.95	1.13	21	6	...
Cinnamon Hill	3.97	1.72	21	9	4.09
Rose Hall	3.57	1.72	21	6	5.06
Running Gut	...	...	...	...	4.22
Spring	5.10	...	...	...	...
Ironshore	4.45	...	...	...	4.65
Friendship	...	...	...	...	5.43
Providence	...	...	...	...	...
Montego Bay P.W D.	9.26	1.81	22	18	5.63
Catherine Hall	14.35	...	...	...	6.89
Catherine Mount	...	..	...	...	6.05
Fairfield	11.60	1.80	22	16	6.62
Anchovy	...	...	...	...	8.52
Round Hill	5.25	1.00	22	13	5.54
Tryall	...	...	...	...	6.70
Sandy Bay P.W.D.	5.81	1.35	21	15	...
Lucea P W.D.	4.86	1.10	3	16	...
Orange Cove	...	...	...	...	7.01
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	4.76	.96	10	10	6.39
Linstead P.W.D.	3.75	1.40	23	6	7.99
Point Hill P.W.D.	8.76	1.07	2	15	...

Northern Division, *contd.*	September. 1898. 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.	...	...	...	...	...
Worthy Park	8.26	2.16	23	14	...
Kellits P. W. D.	10.30	2.40	23	11	...
Chapelton P.W.D.	4.18	1.10	23	10	7.65
Danks Savoy	4.13	1.19	10	11	...
Mears P.W.D.	5.52	1.11	12	16	...
Cave Valley	5.34	2.25	10	7	7.68
Means	5.88	...	...	...	5 23
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	5.45	.87	24	12	...
Farm Plantation	4.71	1.05	10	11	8.83
Brookenhurst Pln.	...	...	...	...	10.40
Christiania P.W.D.	10.92	3.00	12	12	...
Kendal P.W.D.	5.08	.90	2	18	...
Mandeville P.W.D.	7.52	1.56	2	18	10.07
Carlton (Mandeville)	1.52	1.36	2	14	...
Marshalls Pen	...	...	...	..	8.43
Ulster Spring P.W.D.	11.18	2.70	25	13	...
Troy P.W.D.	10.42	...	...	12	...
Windsor Pen	9.39	1.40	3	20	10.18
Balaclava P.W.D.	6.38	1.44	17	16	...
Elim	11.25	2.11	12	10	...
Appleton	6.68	1.20	2	20	10.92
Maggotty P.W.D.	6.17	1.00	2	19	...
Spring Vale	7.09	1.25	23	14	10.49
Maroon Town	7.40	1.20	11	12	12.13
Kempshot	10.92	1.42	21	24	9.23
Kepp	...	...	...	...	11.44
Kew Park	9.63	2.00	3	23	10.90
Hazelymph	12.97	2.08	16	26	...
King Gate P.W.D.	11.08	1.60	22	14	...
Windsor Forest	...	...	...	...	11.41
Chester Castle	...	...	...	...	9.43
Darliston P.W.D.	9.57	1.74	24	15	...
Whithorn, P.W.D.	5.41	1.33	2	16	...
New Galloway	5.62	1.28	6	13	...
Lethe Bridge	11.55	1.60	1	18	...
Copse	16.08	3.55	3	22	9.75
Cacoon Castle	14.43	2.45	13	21	9.52
Golden Grove	...	...	...	...	...
Great Valley	11.04	3.50	11	13	11.71
Brownsville	10.94	2.44	3	19	...
George's Plain Estate	...	...	...	...	..
Fontabelle	...	...	...	...	10.83
Morgan's Bridge P.W.D.	7.53	2.33	3	17	...
King's Valley	9.53	2.40	18	13	13.90
Dias	7.85	1.66	5	17	...
Spring Hill	...	...	...	...	...
Abingdon	...	...	...	...	9.79
Means	9.54	...	...	...	10.62
Southern Division.					
Morant Point L.H. P.W.D.	10.18	2.76	20	16	8.49
Morant Bay P.W.D.	12.18	3.25	10	7	...
Lyssons	...	...	...	...	..
Easington P.W.D.	7.93	2.28	10	13	...
Halberstadt	...	...	...	...	..

Southern. Division, *contd.*	September. 1898. 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.	3.20	1.97	10	4	...
Gordon Town P.W.D.	5.34	.95	10	17	...
Hope Gardens	4.48	1.34	10	1	6.54
Hope Reservoir	4.25	1.30	10	15	...
Cherry Garden	...	...	...	...	6.58
King's House	4.48	1.34	10	15	4.52
Cavaliers	3.35	2.12	10	3	...
Shortwood	...	...	...	...	...
Constant Spring Reservoir	1.85	.31	12	17	...
Constant Spring Estate	...	...	..	...	...
Monaltrie	3.59	1.49	11	16	5.60
Halfway-Tree P.W.D.	3.47	1.35	10	12	...
Lunatic Asylum ...	2.73	1.45	10	8	...
Kingston Gardens ...	2.96	1.47	10	8	...
Public Works Office Kn.	2.95	...	...	...	4.31
Plumb Point L. H.	3.17	1.70	10	11	3.92
Ferry P. W. D.	4.14	1.20	2	8	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	3.73	1.00	25	9	5.21
Windsor Park	...	...	...	...	5.97
Hog Hole Pen P.W.D.	4.92	1.75	2	6	6.55
Old Harbour P.W.D.	3.22	1.12	10	11	6.47
Somerset Hall	6.39	1.50	10	7	...
May Pen P.W.D.	4.41	1.00	10	11	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	3.00	1.25	15	6	5.39
Yarmouth P.W.D.	1.80	1.30	10	2	...
Victoria Town P.W.D.	3.05	.72	3	9	...
Stone's Hope	3.12	1.30	10	8	9.06
Newport P.W.D.	6.18	1.37	10	11	...
Alligator Pond P.W.D.	2.15	1.42	11	3	.
Southfield P.W.D.	1.97	.91	2	4	...
Potsdam	3.72	1.02	2	9	7.45
Long Hill	2.19	1.08	10	6	9.47
Pepper	5.85	2.40	16	9	7.99
Torrington P.W.D.	3.49	.86	10	10	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	2.71	1.20	11	10	11.06
Holland	...	...	..	...	...
Black River P.W.D.	1.79	.51	25	13	5.27
Spring Hill	4.33	.75	16	13	...
Whitehall	...	...	...	...	...
Font Hill	2.40	.60	2	9	...
Grand Vale	...	...	...	...	...
Peter's Ville	3.69	1.00	24	12	...
Mount Edgecombe	3.37	.57	24	17	7.98
Sweet River	2.14	.50	3	11	7.80
Cornwall	5.40	1.40	3	12	...
Windsor, Sav.-la-Mar	3.74	.70	3	13	6.96
Sav.-la-Mar P.W.D.	3.45	.73	1	10	...
Blackheath	...	...	...	...	...
Retreat	5.18	1.57	2	9	...
Negril Pt. Lighthouse	3.87	1.25	2	13	...
Means. ...	3.81	...	...	...	6.85

Comparative Table of Rainfall.

(*Based upon the "Average" Stations only.*)

	September. 1898.	Average.
	In.	In.
North Eastern Division	9.75	8.53
Northern "	5.88	5.23
West Central "	9.54	10.62
Southern "	3.81	6.85
Means	7.24	7.81

The greatest monthly fall, viz., 23.08 ins. was recorded at Fellswship and the least fall, viz. : 1.79 ins. was recorded at Black River.

The greatest fall in 24 hours was 7.59 ins. at Fellowship on the 11th. The greatest number of days on which rain fell at any one place was 26 at Hazelymph. Twelve stations had in 24 hours falls of between 3 and 5 inches, and one station had a fall of over 7 inches in 24 hours.

The mean approximate rainfall as arrived at on the 6th October (when a preliminary report on September was issued) was 7.04 inches. This result was obtained from 56 stations with "averages." The results shown in the Comparative Table now published are from 83 such Stations, and show a rainfall for the Island of 7.24 inches, as compared with an average of 7.81 inches.

It will be seen that the rainfall in the North Eastern Division was a seventh above the average, and in the Northern Division an eighth above the average, while in the West Central Division it was a tenth below the average and in the Southern Division it was only about half the average. The mean for the island was half an inch below the average of about eight inches.

The following notes have come to hand :—

N. E. Division.

Rio Hoe—Good showers for the month from the 2nd to the 24th.

Moneague—Intensely hot during the whole of the month.

N. Division.

St. Ann's Bay—Bar. at 7 a.m. 29.886, and at 3 p.m 29.833, corr. to 32°, sea level and gravity 45.° Indoor Temp., 7 a.m., 78° and at 3 p.m. 84°. Depression noticed 9th to 15th and also 28th to 30th.

Brown's Town—Sultry for several days and nights especially noticeable on 10th and 29th.

Fontabelle Estate—A thunderstorm with heavy rain at midnight on the 29th.

Green Park—Slight thunderstorm on Thursday night 29th.

W. C. Division.

Farm—Very warm and nice showers.

Mandeville—An unusually rainy month.

Brownsville—Last year, 21.45 in 28 days, thus the fall for this year for September is only half what it was last year.

Hazelymph—Very high breeze on the 29th.

Copse—Heavy thunderstorm night of the 29th. Excessive heat the last 6 days of the month.

S. Division.

Stone's Hope—Weather phenomenally hot and sultry.

Cornwall—3.50 fell in the first week, high winds and comparative drought prevailing.

Hail.

Windsor Pen (Trelawny.)—About 2 p.m. on the 1st a shower of Hail fell accompanied by a violent squall of wind uprooting large trees and wrecking huts in its track. Apparently quite local as no sign of its being outside the place was seen.

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3 70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
August	...	6.32	7.54
September	...	7.24	7.81
Total	...	54.86	52.08

The rainfall for the first three quarters of the year was thus 2 inches and three quarters or five per cent. above the average.

Barometric Depressions, September.

Two destructive cyclones were within barometric range of Jamaica in September. The first is the hurricane which swept with such disaster in its train over Barbados and St. Vincent on the night of the 10th and on the 11th respectively, the centre passing to the South of the former and over the latter island. It then skirted the chain of the Lesser Antilles passing up to the West of them in a North-Westerly course; and is supposed afterwards to have taken a more Northerly course in the direction of Bermuda (Vide Pilot Chart for October). In order to dispel alarm in Jamaica a notice was issued on the afternoon of the 12th stating that there did not seem any chance of the hurricane visiting this Island but that the barometer might be expected to go down under its influence for the two or three days following. The lowest barometer reading was at 7 a.m., on the 15th, viz.: 29.823 or, if further corrected for Diurnal Variation, 29.808 which was about a tenth below the mean. The cyclone was therefore probably nearest to us during the night of the 14th and morning of the 15th.

The second cyclone was nearest to us on the 30th September. It passed far to the north of Jamaica and is understood to have skirted the Bahama Islands on a North Westerly course and on Sunday the 2nd October was felt at Savannah and the Sea Islands U.S.A. The barometer was lowest, both at Kingston and St. Ann's Bay, at 9 p.m., on the 30th, when at the former place it was nearly a tenth and a half below the mean, (29.875) as will be seen from the following readings : —

—	Kingston.		St. Ann's Bay.	
	Bar. cor. to 32° sea level and gravity.	Bar. further corrected for Diurnal variation.	Bar. cor. to 32° sea level and gravity.	Bar. further corrected for Diurnal variation.
	In.	In.	In.	In.
September 29th 7 a.m.	29.861	29.846	29.850	29.835
3 p.m.	.786	.826	.777	.817
30th 7 a.m.	.778	.763	.772	.757
11 a.m.	.791	.764	.794	.764
1 p.m.	.738	.750	.750	.762
3 p.m.	.721	.761	.722	.762
5 p.m.	.730	.764	.720	.754
9 p.m.	.756	.734	.773	.751
October 1st 7 a.m.	.806	.792	29.785	.771

This cyclone was reported in the newspapers of the 30th to have been in the neighbourhood of San Domingo the night before. During the afternoon of the 30th in order to dispel alarm which existed on account of the propinquity of this cyclone a notice was issued stating that it would probably pass North and not visit Jamaica and this notice duly appeared in the papers next day.

Perhaps it may not be out of place to offer here a brief word of welcome to Mr. W. B. Stockman and his *confréres* of the U. S. Weather Bureau. Their arrival had been announced to Mr. Maxwell Hall, by Prof. Cleveland Abbé in a letter appreciative of the work done by the Jamaica Weather Service, and Mr. Stockman also brought a letter of introduction from Prof. Cleveland Abbé to the undersigned. Mr. Stockman is in charge of the West Indian Weather Service lately established by the United States Government and by aid of the readings telegraphed tohim twice daily from a chain of observers ronnd the Caribbean Sea is able and willing to inform us of the locality of any depression within reach of those observers. Information was thus obtained from him at an early date of the existence of the two cyclones above referred to, which news was all the more valuable in that the West India and Panama Telegraph Company, owing to discontinuance of their subsidy, no longer supply the public of Jamaica with any bulletin of news.

Robt. Johnstone.

Weather Office,
2nd November, 1898.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1898.

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	29.806	29.772	74.6	87.2	90.5	74.2	16.3	70.5	87	70.1	58	0.00	30	Z	0	SE	3
2	.925	.865	75.7	86.0	87.6	75.2	12.4	73.7	94	73.3	68	0.39	37	Z	0	SE	5
3	.915	.830	74.8	89.5	90.8	73.8	17.0	68.4	80	71.2	55	0.00	24	N	2	SW	3
4	.878	.793	75.5	88.5	92.1	73.7	18.4	71.9	89	72.7	59	0.00	22	N	1	NW	1
5	.832	.787	74.7	78.4	89.4	73.7	15.7	70.4	87	75.4	91	0.47	15	Z	0	N	2
6	.826	.788	76.0	84.8	86.8	74.9	11.9	73.3	91	71.4	64	0.00	28	N	1	SSE	3
7	.865	.799	75.6	83.3	88.3	72.0	16.3	71.5	87	70.7	66	0.00	21	N	1	NE	4
8	.874	.823	75.4	86.7	89.3	72.4	16.9	70.3	84	72.1	62	0.00	36	N	1	SSE	4
9	.871	.849	77.0	76.4	82.4	72.3	10.1	72.6	86	70.4	90	2.56	20	N	1	N	2
10	.894	.915	76.6	72.4	79.5	71.4	8.1	74.7	94	71.1	96	2.39	17	N	1	N	2
11	.916	.868	72.8	80.5	81.8	69.7	12.1	71.6	97	74.1	81	0.02	8	Z	0	E	3
12	.882	.804	73.8	84.6	87.9	72.0	15.9	71.4	92	71.2	65	0.00	10	N	1	S	3
13	.868	.814	74.1	84.3	86.9	73.3	13.6	70.1	87	70.4	63	0.00	8	N	1	E	1
14	.882	.816	73.1	87.7	90.6	71.0	19.6	66.5	80	72.0	60	0.00	8	N	1	ESE	4
15	.903	.860	74.4	83.5	87.4	73.1	14.3	70.6	88	72.9	71	0.00	12	N	1	S	1
16	.909	.827	75.5	86.3	88.8	75.1	13.7	72.6	91	74.3	68	0.03	37	N	2	ESE	5
17	.884	.772	74.2	86.5	89.2	73.0	16.2	70.4	88	73.5	66	0.56	40	N	1	SE	8
18	.879	.832	74.5	78.9	79.2	74.0	5.2	72.4	93	74.8	87	0.36	11	N	1	SE	4
19	.902	.851	71.4	86.3	87.6	74.6	13.0	71.4	77	73.8	67	0.05	78	N	1	SE	6
20	.957	.859	73.8	85.8	88.1	75.4	12.7	71.7	80	73.4	62	0.00	82	SE	2	SE	9
21	.904	.869	73.7	85.6	87.6	75.8	11.8	73.8	85	73.2	67	0.13	46	SE	4	SE	7
22	.921	.855	76.6	85.5	87.4	72.8	14.6	73.4	90	73.8	68	0.04	36	N	1	SE	4
23	.939	.840	73.6	87.6	89.9	71.7	18.2	68.6	73	71.4	59	0.00	5	N	1	S	1
24	.891	.839	73.0	86.2	89.1	71.8	17.3	65.9	78	71.8	62	0.00	8	N	1	S	3
25	.901	.843	75.1	85.9	88.4	72.4	16.0	68.9	81	69.2	58	0.00	22	N	1	SE	8
26	.891	.826	74.2	79.5	86.2	71.3	14.9	67.5	80	74.9	73	0.05	11	N	2	N	3
27	.801	.749	73.0	80.8	81.4	71.8	9.6	67.3	82	71.1	72	0.13	18	N	2	N	2
28	.814	.771	72.4	78.8	79.5	71.2	8.3	69.4	90	73.9	82	0.24	34	Z	0	ESE	4
29	.815	.758	72.8	80.0	84.8	71.7	13.1	67.8	92	67.5	66	0.06	45	N	2	SE	5
30	.831	.779	74.8	79.1	79.2	74.6	4.6	72.9	94	73.5	83	1.06	45	SE	1	E	3
31	806	.786	78.5	74.3	79.6	73.8	5.8	72.2	81	73.0	96	1.23	59	E	4	E	2
Means.	29.876	29.820	74.9	83.2	86.4	73.0	13.4	70.8	86	72.3	71	...	28.2	N	1.2	...	3.7
Total	...	...	...	...	...	...	...	...	...	...	...	9.77	...		...	S.E.	

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.	...	1 Cum.	3 Cir.	Fine T. to N. at 7.4 p.m. T. & L. during the night.
2	6 Str. c. 3 Alt. s.	...	...	...	1 Cum. SE	2 Cir.	Raining a.m.. Fine p.m. T. to L. during early morning. R. at 5.42 to 8.28 a.m.
3	...	1 Cum.	...	...	1 Cum. SE	1 Cir. S E.	Fine.
4	...	1 Cum. SE	3 Cir.	3 Str. c. NW	1 Cum. NW	5 Cir. s.	Fair a m Cloudy p.m.
5	...	1 Cum.	3 Cir. s.	9 Str. c. SE 1 Nim.	...	...	Fair a.m. Cloudy p.m. T. to N. at 12.28 p.m. R. at 12.38 to 1.27 p.m. T. to S.E. at 1 p.m. R. at 3.16 to 3.52 p.m. T. to S.E at 4.47 p.m. L. during the night.
6	...	3 Cum.	6 Cir. s.	1 Alt. s.	1 Cum.	7 Cir. s. S.E.	Cloudy.
7	1 Alt. s.	1 Cum.	7 Cir. s.	...	1 Cum. SE	9 Cir. s.	Cloudy. T. and L. to S. at 5.43 a.m.
8	...	...	8 Cir.	...	5 Cum. SE	2 Cir. s. S.E.	Cloudy.
9	1 Str. c. SE	1 Cum. SE 6 Alt. c.	1 Cir. s.	9 Alt. s.	1 Cum.	...	Cloudy a.m. Raining p.m. L. R. during early morning. R. at 9 to 10.12 a.m. T. to S.E. at 9.3 a.m. R. at 12.17 to 5.22 p.m. T. to S.E. at 1.47 p.m.
10	6 Str. c.	2 Cum. SE	2 Cir.	10 Alt. s.	..	...	Cloudy a.m. Raining p.m. R. at 8.55 to 9.37 a.m. and at 9.48 to 10.17 a.m. and again from 11.19 a.m. to 4.27 p.m.
11	4 Str.c.SE 3 Str.	2 Cum.	1 Cir. s.	...	1 Cum.	9 Cir. s.	Cloudy. R. during early morning and at 7.38 to 8 a.m. L. R. at 2.11 to 2.48 p.m.
12	...	1 Cum.	3 Cir.	...	2 Cum.	7 Cir.	Fair a.m. Cloudy p.m. Squall S.E. at 4.58 p.m.
13	1 Str. c.	1 Alt. c.	8 Cir. s.	...	5 Alt. c. 1 Cum. SE	4 Cir. s.	Cloudy.
14	...	1 Cum.	2 Cir.	...	2 Cum. SE	3 Cir.	Fine a.m. Fair p.m.
15	7 Alt. s.	...	3 Cir. s.	...	1 Cum.	9 Cir. s.	Cloudy.
16	3 Str. 3 Str. c.	1 Cum.	2 Cir. s.	...	1 Cum.	9 Cir	Cloudy. L. R. from about 5 to 6.32 a.m. T. to S.E at 7.14 a.m.
17	...	...	6 Cir.	...	2 Cum.	2 Cir.	Cloudy a.m. Fair p.m. Squall S.E. at 7.4 p.m. R. at 7.10 to 7.35 p.m., L. to S.E. early part of night R. at 8.5 to 8.26 p.m.
18	1 Str. c. 9 Alt. s.	...	...	5 Str. c. 3 Alt. Str.	...	2 Cir. s.	Raining a.m. Cloudy p.m. R. during early morning, and from 7a.m. with short intervals to 12.56 p.m. T. to S.E. at 8.29 a.m.
19	...	2 Cum. SE	7 Cir. SE	...	2 Cum. SE	7 Cir.	Cloudy R. during early morning. Squall from S.E. at 11.7. R. at 11.10 to 11.17 p.m.
20	3 Str.c.SE 1 Str.	1 Cum. SE	3 Cir. SE	...	1 Cum.	...	Cloudy a.m. Fine p. m.
21	...	2 Cum. SE	...	...	1 Cum.	3 Cir. s.	Fine a.m. Fair p.m. R. about 1.30 a.m. and at 12.30 to 12.36 p.m.
22	5 Str. c. SE	1 Cum.	2 Cir. s. SE	...	1 Cum.	...	Cloudy a.m. Fine p.m. L. R. at 5.56 to 6.2 a.m. and at 7.41 to 8.11 a.m.
23	...	...	9 Cir.	1 Str. c. SE	1 Cum.	2 Cir. S.E.	Cloudy a.m. Fair p.m.
24	...	...	...	...	2 Cum. SE	...	Fine. L. during the night.
25	...	1 Cum.	9 Cir. s.	...	2 Cum. SE	7 Cir.	Cloudy. T. and L. to S.E. at 5.28 p.m. Squal from S.E. at 5.48 p.m. R. at 6.33 to 7.27 p.m.
26	7 Str. c. SE	...	2 Cir. s.	7 Str. c. NW 2 Alt. s.	1 Cum.	...	Cloudy. T. & L. to S.W. at 1.19 p.m.
27	...	1 Cum.	8 Cir.	...	1 Cum. SE	8 Cir. s.	Cloudy. L. R. at 12.47 to 1.3 p.m. R. at 5.42 to 7.3 p.m. and at 7.31 to 8.4 p.m. R. at 9.7 to 9 57 p.m.
28	4 Str. c. E	1 Cum	5 Cir.	2 Str. c. 1 Str.	2 Cum. SE	5 Cir. s.	Cloudy. R. at 7.36 to 9.57 a.m. R. at 12.50 to 1.36 p.m. and again at 2.9 to 2.27 p.m.
29	...	1 Cum.	9 Cir. s.	3 Str. c. SE 2 Alt. s.	1 Cum.	4 Cir. s.	Cloudy a.m. Raining p.m. Squall from S.E at 2.51 p.m. R. at 2.53 to 3.6 p.m. Squall from S.E. at 4.27 with R. to 4.38 p.m.
30	8 Str.c.SE 1 Alt. Str.	1 Cum. SE	...	2 Str. c. SE 1 Str.	2 Cum. SE	5 Cir. s.	Cloudy. Squall with R. from S.E. at 5.44 to 6.15 a.m. T. to S.E. at 8.17 a.m T. to S.E. at 8.38 a.m. R. at 8.33 to 9.13 a.m. and at 12.45 to 1.4 p.m.
31	5 Str. c. SE	2 Cum. SE	3 Cir. SE	1 Alt. Str.	...	...	Cloudy a.m. Raining p.m. R. during early morning and at 8.17 to 8.21 a.m. T. to N. at 8.22 a.m. R. at 9.23 to 9.36 a.m. also from 9.59 to 12.35 p.m. and again at 1.1 to 4.18 p.m. T. to S. 1.10 p.m.
Means	2.6	1.2	3.6	2.3	1.4	3.7	

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	29.867	29.821	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.855	29.813	77.8	82.8	86.6	74.8	11.8	90.7	4	70.0	27	20.7
Kingston ...	50	29.876	29.820	74.9	83.2	86.4	73.0	13.4	92.1	4	69.7	11	22.4
Montego Bay ...	160	29.864	29.815	74.9	81.0	87.2	71.3	15.9	90.5	1	68.9	14	21.6
Castleton Gardens...	496	29.920	29.774	70.9	80.9	83.4	66.4	17.0	91	20	63	14	28
Hope Gardens ...	600	...	...	72.5	81.0	86.0	68.8	17.8	91	2	62	23	29
Stony Hill Refty. ...	1,400	...	...	72.1	78.3	84.6	68.2	16.4	89	17	65	27, 28	24
Hill Gardens ...	4,907	25.186	25.152	61.6	65.5	68.7	58.5	10.2	74	3, 4	56	11, 26	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.		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	...	...	...	...	...	...	Var.	6.2	Var.	8.7	4.4	1.8	0.9	3.7	2.4	0.8
Negril Point L. H.	33	72.8	84	73.7	74	7.83	281.8	ENE	10.5	SE	13.5	2.7	1.8	4.1	4.1	3.1	2.0
Kingston ...	50	70.8	86	72.3	71	9.77	28.2	N	1.2	SEbyS	3.7	2.6	1.2	3.6	2.8	1.4	3.7
Montego Bay ...	160	72.9	92	75.6	84	5.15	46.5	ENE	0.8	ENE	2.6	0.8	0.0	5.4	2.5	4.2	1.3
Castleton Gardens...	496	69.2	92	74.3	82	8.64	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	70.2	90	73.6	79	13.30	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	...	...	...	...	12.13	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	58.6	88	62.2	98	16.79	21.4	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. 1898.	Average.
Infantile diseases not otherwise specified	...	12	13
Lung diseases	...	12	14
Fever and Malaria	...	10	7
Dysentery and Diarrhœa	...	5	4
Various	...	48	54
Total	...	87	92

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initial
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	J. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	D. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	J. W.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	W. H.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ...	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.
September 1st ...	11.15 a.m.	68.9	5[illegible].8	56	7.60	Raining.	J. W.
October 1st ...	10.15 a.m.	69.9	46.8	63	10.20	Fine.	J. W.
November ...	11.45 a.m.	70.9	50.8	54	23.10	Cloudy.	J. W.

Rainfall for October, 1898.

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. 1898. 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	28.11	5.38	9	18	14.95
Manchioneal P.W.D.	23.64	4.30	9	27	...
Fair Prospect P.W.D.	21.76	3.30	28	21	...
Bath P. W. D.	31.03	5.71	8	23	...
Moore Town P. W. D.	28.99	8.60	17	15	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	20.17	4.80	17	26	13.39
Fellowship P. W. D.	23.18	5.95	17	28	...
Johnson River Bridge	28.80	5.70	10	17	...
Coley Estate	...	...	...	...	...
Burlington	...	...		...	...
Shrewsbury P. W. D.	13.23	4.15	18	14	...
Cedar Valley P. W. D.	35.98	4.75	10	23	...
Green Vale	...	...	...	...	...
Cinchona Plantation	16.79	3.06	31	21	17.38
Resource	13.50	...	...	...	...
Buff Bay P. W. D.	9.41	2.30	17	19	...
Cold Spring	...	...	...	...	...
Avocat P.W.D.	8.02	1.85	6	14	...
Hardware Gap P.W.D.	11.10	2.80	31	7	...
Rose Hill	15.77	3.00	10	18	...
Annotto Bay P. W. D.	5.75	1.65	15	17	...

North-Eastern Division, *contd.*	October. 1898. 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.
Stony Hill Rfty	12.13	2.20	9	16	13.30
Stony Hill P. W. D.	11.28	1.80	10	15	...
Castleton Gardens	8.64	2.00	2	17	13.71
Lawrence Tavern P.W.D.	7.00	1.45	9	8	...
Albany P.W.D.	13.59	6.08	7	16	...
Quebec	...	...	...	...	8.35
Richmond P. W. D.	6.08	1.35	31	19	...
Highgate P. W. D.	...	...	...	...	...
Gayle	...	...	...	...	11.11
Gayle P. W. D.	4.19	1.00	13	20	...
Rio Hoe	5.31	1.24	1	13	10.29
Unity Valley	8.32	2.68	1	21	8.39
Moneague P.W.D.	7.42	1.61	1	20	...
Claremont	3.37	1.00	30	9	...
Albion	4.08	.81	31	16	8.14
Averham Park	3.58	.76	31	16	5.69
Ballintoy P.W.D.	4.20	1.16	31	17	...
Means	12.39	...	...	...	12.26
Northern Division					
Port Maria P.W.D.	7.91	2.58	5	16	7.74
Ocho Rios P.W.D.	4.60	2.60	19	5	...
Drax Hall	5.58	1.53	7	14	7.00
St. Ann's Bay P.W.D.	3.74	1.05	7	17	...
Seville	...	...	...	...	6.09
Richmond Estate	2.31	1.00	8	11	8.14
Llandovery	...	...	...	...	7.53
Brown's Town P.W.D.	6.14	2.78	8	8	...
Dry Harbour P.W.D.	2.89	.80	8, 15	5	...
Chewmagna P. W. D.	4.65	1.13	27	17	...
Home Castle	3.52	1.00	8	10	6.13
Richmond Pen	8.45	1.25	15	13	6.61
Mahogany Hall	5.06	1.90	8	13	6.26
Brampton Bryan	2.45	.60	8	10	4.79
Bryan Castle	3.67	.67	12	15	4.60
Braco	2.17	.35	15	11	4.95

Northern Division, *contd.*	October. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	4.24	1.26	12	14	5.55
Arcadia Great House	2.99	.70	12	14	...
Harmony Hall	...	...	...	...	4.62
Lancaster	3.28	.70	12	12	5.50
Vale Royal	3.95	.76	10	15	6.08
Colchis Pen	5.48	1.32	5	9	6.14
Hyde	5.02	.70	2	13	7.16
Georgia	5.33	2.00	2	13	5.67
Long Pond	...	...	...	...	...
Steelfield	5.62	1.53	2	19	5.94
Oxford	5.30	1.20	2	14	6.93
Cambridge	6.90	.90	12	14	5.84
Dry Valley	6.50	2.00	10	6	...
Lottery	7.78	1.22	8	14	5.92
Hampstead	...	...	...	...	...
Falmouth	5.40	...	...	...	5.55
Falmouth P.W.D.	4.46	.97	9	18	...
Fontabelle	11.70	1.75	25,27	18	...
Martha Brae	...	...	...	...	...
Holland Pen	5.20	.90	15	12	4.44
Pembroke	...	...	...	...	5.22
Golden Grove	5.30	...	...	...	6.06
Green Park	5.88	1.39	27	10	5.09
Tilston	5.20	...	...	...	6.28
Weston Favell	...	...	...	...	6.63
Orange Valley	4.68	...	...	...	5.15
Kent	3.78	.94	27	10	5.57
Dundee	5.29	...	...	...	5.46
Phœnix	6.02	.75	8	17	8.51
Gale's Valley	5.20	...	...	...	5.88
Greenwood	6.33	1.70	9	9	4.65
Canaan	4.48	1.20	8	14	...
Lima	4.00	1.40	27	11	...
Content	...	...	...	...	...
Bellfield	...	...	...	...	...
Guilsbro'	2.72	...	...	...	6.51
Tryall	...	...	...	...	...
Leogan	...	...	...	...	7.21
Success	4.27	.75	13	15	5.37
Cinnamon Hill	3.70	.67	13	12	3.69
Rose Hall	3.83	.82	2	14	4.17
Running Gut	...	...	...	...	4.77
Spring	4.20	...	...	...	...
Ironshore	5.14	...	...	...	4.85
Friendship	...	...	...	...	...
Providence	...	...	...	...	4.88
Montego Bay P.W D.	5.15	1.52	6	14	5.38
Catherine Hall	4.65	...	...	...	6.76
Catherine Mount	...	...	...	...	6.65
Fairfield	5.30	1.60	6	12	6.10
Anchovy	...	...	...	...	6.99
Round Hill	...	...	...	...	5.14
Tryall	...	...	...	...	...
Sandy Bay P.W.D.	3.84	1.65	6	6	...
Lucea P W.D.	4.69	1.64	6	20	...
Orange Cove	...	...	...	...	7.69
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	10.11	2.41	31	17	9.09
Linstead P.W.D.	7.65	2.30	9	10	8.80
Point Hill P.W.D.	16.62	2.10	31	23	...

Northern Division, *contd.*	October. 1898. 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.	...	...	...	...	...
Worthy Park	10.18	1.85	31	19	...
Chapelton P.W.D.	13.81	2.84	31	22	11.68
Danks Savoy	13.00	2.90	31	7	...
Mears P.W.D.	12.68	2.24	31	20	...
Cave Valley	11.59	2.00	25	15	9.45
Means	5.48	...	...	...	6.22
West Central Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	15.73	4.15	31	17	...
Farm Plantation	23.22	4.25	31	21	13.84
Brockenhurst Pln.	...	...	...	...	10.60
Christiania P.W.D.	9.52	2.69	31	15	...
Kendal P.W.D.	17.66	3.10	31	21	...
Mandeville P.W.D.	21.45	4.82	31	23	17.19
Carlton (Mandeville)	21.92	5.27	31	23	...
Marshalls Pen	...	...	...	...	12.89
Ulster Spring P.W.D.	7.62	1.26	7	15	...
Troy P.W.D.	10.68	1.71	7	15	...
Windsor Pen	6.49	1.14	6	19	7.03
Balaclava P.W.D.	5.96	1.43	7	15	...
Elim	9.56	2.14	10	11	...
Appleton	9.43	1.74	25	15	11.51
Maggotty P.W.D.	13.12	1.97	11	21	...
Spring Vale	...	...	...	...	8.81
Maroon Town *	...	...	...	...	11.02
Kempshot	6.81	2.00	6	19	6.86
Kepp	...	...	...	...	10.76
Kew Park	...	...	...	...	9.54
Hazelymph	6.78	...	...	...	...
King Gate P.W.D.	6.08	1.46	1	13	...
Windsor Forest	...	...	...	...	12.49
Shettlewood	7.15	2.45	6	15	...
Chester Castle	...	...	...	...	8.05
Darliston P.W.D.	9.89	2.06	24	20	...
Whithorn, P.W.D.	5.78	1.15	26	18	...
New Galloway	5.38	1.25	26	14	...
Lethe Bridge	8.26	2.75	6	12	...
Copse	7.10	2.55	6	11	8.96
Cacoon Castle	6.71	2.70	6	13	7.83
Golden Grove	...	...	...	...	9.45
Great Valley	4.62	1.31	13	8	...
Brownsville	6.90	1.92	14	16	...
George's Plain Estate	...	...	...	...	..
Fontabelle	...	...	...	...	9.81
Morgan's Bridge PWD.	7.43	1.82	27	17	...
King's Valley	7.15	2.00	27	16	11.56
Dias	6.29	1.48	13	18	...
Abingdon	...	...	...	...	7.23
Means	11.04	...	...	...	10.60
Southern Division.					
Morant Point L.H. P. W.D.	13.43	2.39	9	24	10.44
Morant Bay P.W.D.	25.08	5.10	8	18	...
Lyssons	...	...	...	...	..
Easington P.W.D.	23.03	3.90	9	20	...
Abbey	...	...	...	...	11.89
Halberstadt	...	...	...	...	...

* Gauge out of order.

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Southern. Division, *contd.*	October. 1898. 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.	15.28	4.00	9	15	...
Gordon Town P.W.D.	14.51	2.91	31	18	...
Hope Gardens	13.20	2.82	10	18	8.45
Hope Reservoir	12.59	2.80	10	15	...
Cherry Garden	...	...	...	...	9.16
King's House	9.92	2.00	10	12	8.54
Cavaliers	8.92	2.42	9	9	...
Shortwood	...	...	...	...	...
Constant Spring Reservoir	5.15	.90	9	18	...
Constant Spring Estate	...	...	..	..	...
Monaltrie	8.75	2.67	10	18	8.56
Halfway-Tree P.W.D.	9.03	2.47	9	13	...
Lunatic Asylum ...	9.32	2.35	10	12	...
Kingston Gardens ...	9.16	2.41	9	1[illegible]	...
Public Works Office Kn.	9.77	2.39	10	17	7.48
Plumb Point L. H.	13.39	2.87	10	17	7.48
Ferry P. W. D.	13.91	4.00	9	13	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	15.15	3.30	9	15	7.72
Windsor Park	...	...	...	...	6.39
Hog Hole Pen P.W.D.	14.07	3.40	31	19	7.85
Old Harbour P.W.D.	14.31	3.45	18	14	9.72
Somerset Hall	15.67	3.15	9	15	..
May Pen P.W.D.	20.90	4.10	29	...	...
Amity Hall	...	...	...	...	...
Hermitage	19.25	...	...	...	...
Denbigh	20.05	3.40	9	19	8.83
Yarmouth P.W.D.	14.60	2.50	29	12	...
Victoria Town P.W.D.	18.43	3.10	29	15	...
Stone's Hope	18.32	4.10	6	22	10.89
Newport P.W.D.	18.20	3.13	28	17	...
Alligator Pond P.W.D.	13.38	2.40	10	11	...
Southfield P.W.D.	11.84	4.50	31	10	...
Potsdam	12.21	2.32	6	14	8.77
Long Hill	10.68	2.73	28	13	10.43
Pepper	10.32	2.00	28	16	11.16
Torrington P.W.D.	12.67	2.50	10	17	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	9.76	1.80	28	16	...
Holland	...	...	...	...	...
Black River P.W.D.	6.18	1.85	6	15	8.69
Spring Hill	9.76	2.41	6	15	...
Whitehall	...	...	...	...	...
Font Hill	10.10	3.35	6	13	...
Grand Vale	...	...	...	...	...
Peter's Ville	9.58	3.27	6	19	...
Mount Edgecombe	9.46	2.39	6	21	9.48
Sweet River	6.52	2.00	6	13	8.57
Cornwall	4.90	1.20	27	10	...
Windsor, Sav.-la-Mar	3.94	1.55	25	10	7.70
Sav.-la-Mar P.W.D.	4.93	1.67	27	11	...
Blackheath	...	...	...	...	...
Retreat	6.13	1.89	27	9	...
Negril Pt. Lighthouse	7.83	2.64	27	14	...
Means. ...	11.66	...	...	...	8.84

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	October. 1898. In.	Average. In.
North Eastern Division	12.39	12.26
Northern "	5.48	6.22
West Central "	11.04	10.60
Southern "	11.66	8.84
Means	10.14	9.48

The greatest monthly fall, viz., 31.03 ins. was recorded at Bath and the least fall, viz : 2.17 ins. was recorded at Braco. The greatest fall in 24 hours was 8.60 ins. at Moore Town on the 17th. The greatest number of days on which rain fell at any one place was 28 at Fellowship. Twenty-four stations had in 24 hours falls of between 3 and 5 inches, and five had falls of between 5 and 7 inches. One had a fall of between 7 and 10 inches in twenty-four hours.

The mean approximate rainfall as arrived at on the 5th October (when a preliminary report on October was issued) was 10.39 inches. This result was obtained from 37 stations with "averages." The result now published in the Comparative Table shows 10.14 ins. as compared with an average of 9.48 ins.

The rainfall for October was a little above the average in the North Eastern and West Central divisions and about a third as much again as the average in the Southern division. In the Northern division there was a deficiency of about a tenth. This occurred chiefly in a strip of coast line between St. Ann's Bay and Montego Bay, although there was also another curious deficiency of about one half, in the upland district of St. Ann, (N. E. Div.) round Rio Hoe, Albion, and Averham Park, while strange to say at Unity Valley which is close to Rio Hoe the rainfall was up to the average. There was also a deficiency in a small strip of coast line as evidenced by the Returns from Black River, Sweet River and Sav.-la-Mar, at the latter place the fall also being only about one half the average.

At nearly all other places the fall was above the average, in some cases very considerably, *e.g.*, Hordley (N.E.), Farm Pln. (W.C.) Plumb Point Light House, Spanish Town, Denbigh and Stones Hope (all in the S. Division) where the fall was about double the average. Denbigh in Clarendon had the largest proportionate fall, viz., two and a half times the average and it is very likely that Morant Bay with its twenty five inches received a similar proportion although as its average is not yet known this cannot be stated definitely.

The mean result for the Island shows that the fall for October was seven per cent above the average.

The following notes have come to hand :—

N. E. Division.

Rio Hoe—Very favourable month for October good showers.

Albion.—Smallest rainfall for October since 1888.

Moneague—Exceedingly hot all through month. On 31st strong squalls of wind and rain all day. Rainfall 1.16 inches.

N. Division.

St. Ann's Bay—Bar. at 7 a.m. 29.854, and at 3 p.m 29.810, corr. to 32°, sea level and gravity 45.° Indoor Temp., 7 a.m., 78° and at 3 p.m. 84°. Barometric depression noticeable from 27th to 31st October inclusive.

Brown's Town—The rainfall of 2 78 inches on the 8th fell in about 1¼ hours.

Richmond Estate.—Extraordinarily dry for October. 2.31 for that month is unprecedented.

W. C. Division.

Mandeville P. W. D.—The old fashioned October seasons. Note that at Christiania the rainfall is less—due to deforesting?

Copse—Very sultry weather for October—more like August.

Kings Valley.—The first part of the month was very dry, regular 'March weather.'

S. Division.

Denbigh.—The rainfall this month was all that could be desired, having been so well distributed throughout the entire month.

Black River.—Very heavy weather in Black River on 30th and 31st—sea running very high.

Mt. Edgecombe—Up to morning of 24th the total fall was only 4.58 in., and there seemed little likelihood of the usual October fall; but after that it rained every day but one, bringing the total to 9.46 in.; being very near the average for the month for 19 years, viz.: 9.80 in.

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3.70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
August	...	6.32	7.54
September	...	7.24	7.81
October	...	10.14	9.48
Total	...	65.00	61.56

This shows that for the ten months the Island Rainfall was six per cent. above the average.

Robt. Johnstone.

Weather Office,
2nd December, 1898.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1898.

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	29.811	29.784	78.8	81.4	85.2	73.6	11.6	70.9	77	70.1	69	0.17	70	E	3	E	2
2	.865	.832	76.1	83.6	86.8	73.8	13.0	71.5	86	71.3	67	0.01	50	N	1	ESE	4
3	.922	.834	73.1	86.2	89.7	71.8	17.9	69.4	88	71.2	64	0.00	12	N	1	S	1
4	.919	.835	73.8	85.5	88.9	73.1	15.8	69.0	85	73.5	68	0.00	27	N	1	SE	2
5	.868	.781	74.5	85.4	87.2	73.9	13.3	71.4	90	73.5	68	0.00	10	N	1	N	1
6	.808	.782	74.6	84.8	88.2	74.4	13.8	71.7	91	73.9	71	0.03	30	N	1	E	3
7	.815	.765	72.5	86.1	88.8	72.1	16.7	69.7	91	70.3	51	0.00	26	N	1	S	2
8	.860	.795	74.2	83.7	89.9	72.9	17.0	64.9	86	75.1	75	0.00	20	N	1	N	2
9	.904	.829	74.8	81.7	88.8	73.7	15.1	69.1	82	65.2	58	0.00	18	N	1	N	1
10	.877	.796	73.4	85.4	88.2	72.3	15.9	69.2	87	65.8	52	0.00	75	N	1	SE	9
11	.889	.826	73.8	87.4	89.5	73.3	16.2	68.3	81	67.4	54	0.00	32	N	1	S	1
12	.923	.853	69.4	83.5	86.2	62.6	23.6	66.4	90	66.5	57	0.00	48	N	1	SE	5
13	.909	.828	69.8	85.1	88.8	68.2	20.6	61.7	76	66.8	54	0.00	37	N	3	SE	5
14	.889	.821	73.2	85.4	87.4	72.2	15.2	68.8	86	71.9	64	0.00	13	N	1	S	2
15	.915	.832	71.6	85.7	88.9	70.0	18.9	60.9	69	66.7	53	0.00	20	N	2	S	1
16	.901	.850	71.3	80.8	88.5	69.9	18.6	65.6	83	71.3	73	0.00	24	N	1	S	1
17	.908	.825	71.0	85.4	88.2	69.3	18.9	67.0	87	70.4	61	0.00	17	N	1	S	1
18	.881	.826	70.8	83.5	86.6	70.0	16.6	65.9	84	73.0	71	0.00	24	N	1	SE	4
19	.906	.831	72.0	85.6	87.4	70.4	17.0	66.2	82	70.9	63	0.00	15	N	2	S	1
20	.904	.835	72.3	83.8	88.8	71.9	16.9	67.4	85	72.8	70	0.00	10	N	1	N	1
21	.909	.822	71.1	85.8	88.4	69.9	18.5	66.2	85	70.0	59	0.00	19	N	1	SE	5
22	.923	.857	71.5	80.6	87.7	70.9	16.8	65.5	81	69.3	69	0.28	18	N	1	NE	4
23	.894	.832	70.8	83.4	85.4	70.0	15.4	68.2	91	70.4	65	0.00	38	Z	0	S	4
24	.929	.846	72.2	84.0	86.8	69.3	17.5	66.8	83	72.5	69	0.00	35	N	2	NW	4
25	.949	.844	71.2	84.2	88.5	70.2	18.3	66.8	86	70.3	63	0.00	32	N	1	SE	9
26	.960	.898	72.4	83.5	87.4	71.8	16.1	68.0	86	70.7	66	0.00	41	N	1	N	3
27	.949	.880	72.9	82.2	87.8	71.4	16.4	67.5	83	71.0	69	0.54	28	N	1	NW	2
28	.932	.835	70.7	83.4	85.8	69.7	16.1	68.8	94	71.5	68	0.00	25	N	1	ESE	3
29	.897	.833	71.2	81.8	84.9	70.3	14.6	67.0	87	71.3	61	0.00	16	N	1	NE	1
30	.919	.879	70.6	83.5	85.5	70.3	15.2	65.0	82	71.4	67	0.00	18	N	3	E	2
Means. Total ...	29.898	29.828	72.5	84.1	87.7	71.1	16.6	67.5	85	70.5	64	1.03	28.2	N	1.3	SEbyS	3.0

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	...	3 Cum. SE	7 Cir.	2 Str o. SE	2 Cum. SE	6 Cir.	Cloudy. Squall from E. with R. at 12.46 a.m. Squall from S.E. at 3.56 p.m. with R. to 4.18 p.m.
2	...	1 Cum.	7 Cir.	4 Str o. SE	1 Cum. SE	2 Cir. SE	Cloudy. R. at 3.55 to 4.11 p.m.
3	...	1 Alt. c. 1 Cum.	3 Cir.	...	1 Alt. c. 1 Cum.	2 Cir.	Cloudy a.m. Fine p.m.
4	...	1 Cum.	2 Cir.	5 Str. c.	1 Cum.	1 Cir.	Fine a.m. Cloudy p.m.
5	...	1 Cum.	3 Cir.	5 Str. c. SE	1 Cum.	2 Cir. s. SE	Fair a.m. Cloudy p.m.
6	...	...	4 Str. Cir.	2 Str. c.	1 Cum.	2 Cir.	Fair. Light R. during early morning.
7	...	1 Cum. E	...	...	1 Cum.	1 Cir. E	Fine.
8	...	...	1 Cir.	1 Str. 6 Str.c. SE	...	3 Cir. SE	Fine a.m. Cloudy p.m.
9	1 Frac. s.	1 Cum.	7 Str. Cir.	3 Str. c. 1 Alt. s.	1 Cum. SE	3 Cir. SE	Cloudy a.m. Fine p.m.
10	1 Str. c. E.	1 Cum.	4 Str. Cir.	...	2 Cum. SE	1 Cir. SE	Cloudy a.m. Fine p.m.
11	1 Frac. s.	1 Cum.	3 Str. Cir.	...	1 Cum. E	1 Cir.	Fair a.m. Fine p.m.
12	...	...	...	...	..	2 Cir. s.	Fine.
13	...	...	...	...	1 Cum.	...	Fine.
14	3 Frac. s.	2 Cum. E 1 Alt. c.	1 Cir.	1 Str. c.	1 Cum.	3 Str. Cir.	Cloudy a.m. Fair p.m.
15	...	...	...	...	1 Cum.	...	Fine
16	...	...	...	3 Frac. s. 3 Str. c.	1 Cum. 3 Alt. c.	...	Fine a.m. Cloudy p.m.
17	...	...	...	...	2 Cum. SE	...	Fine.
18	1 Frac. s.	...	...	1 Str. c.	2 Cum. SE	2 Cir.s. S.E.	Fine a.m. Fair p.m.
19	...	...	...	...	2 Alt. c. 1 Cum.	...	Fine.
20	...	1 Cum.	...	5 Str. c. 2 Alt. s.	1 Cum.	...	Fine a.m. Cloudy p.m.
21	...	...	...	...	1 Cum. 1 Alt. c,	1 Cir. s.	Fine a.m. Fair p.m.
22	...	...	...	4 Str. c. 5 Alt. s.	...	...	Fine a.m. Raining p.m. R. at 2.58 to 3.47 p.m.
23	...	1 Cum.	...	1 Str. c.	1 Cum.	2 Cir. s.	Fine a.m. Fair p.m.
24	...	1 Cum	1 Cir.	3 Str. c. 3 Alt. s.	1 Cum.	...	Fine a.m. Cloudy p.m. T. to N. at 2.25 p.m
25	2 Frac. s.	1 Cum.	...	2 Str. c. SE	...	...	Fine.
26	1 Frac. s.	...	...	1 Alt. S.	1 Cum.	6 Cir. s. SE	Fine a.m. Cloudy p.m.
27	...	...	...	3 Str.c. NW 2 Alt. s.	1 Cum.	4 Cir. s.	Fine a.m. Cloudy p.m. R. at 3.29 to 4.50 p.m.
28	...	...	7 Cir.	2 Str. c. SE	2 Cum.	3 Cir. s. SE	Cloudy.
29	...	...	10 Cir.	1 Str. c.	2 Cum.	6 Cir.	Cloudy.
30	...	1 Cum.	...	7 Str. c.	1 Cum.	1 Cir. s.	Fine a.m. Cloudy p.m.
Means	.3	.7	2.0	2.6	1.3	1.8	

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	29.897	29.882	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.893	29.837	74.7	82.9	86.2	71.2	15.0	88.0	16	68.0	12	20.0
Kingston ...	50	29.898	29.828	72.5	84.1	87.7	71.1	16.6	89.9	3	62.6	12	27.3
Montego Bay ...	160	29.894	29.833	72.5	81.6	85.2	69.4	15.8	87.5	2	66.8	16	20.7
Castleton Gardens...	496	29.941	29.860	70.0	80.0	85.3	64.8	20.5	87	*1	62	15	25
Hope Gardens ...	600	...	...	69.8	78.4	86.0	67.7	18.3	87	†4	63	12‡	24
Stony Hill Refty. ...	1,400	...	...	70.7	78.5	84.0	66.8	17.2	86	*4	65	21§	21
Hill Gardens ...	4,907	25.150	25.112	59.7	64.6	68.5	56.5	12.0	72	3, 10	53	24	19

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.											
Morant Point L.H.	8	...	...	...	...	6.32	...	NE	5.4	NE	9.0	2.5	2.0	0.9	3.2	1.9	0.8
Negril Point L. H.	33	70.6	87	71.7	69	2.05	201.7	NE by E	7.6	Var.	11.0	0.7	2.0	3.2	1.6	5.3	0.8
Kingston ...	50	67.5	85	70.5	64	1.03	28.2	N	1.3	SE by S	3.0	0.3	0.7	2.0	2.6	1.3	1.8
Montego Bay ...	160	70.0	91	73.0	75	3.05	84.2	ENE	2.1	ENE	3.4	0.1	0.4	2.3	1.4	2.5	1.6
Castleton Gardens...	496	64.2	91	72.3	76	9.52	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	66.6	90	74.3	87	2.43	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	67.9	91	74.1	87	3.96	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	56.6	84	61.3	88	6.76	15.5	E	14.3	E	2.0	...	...	...	...	...	...

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 3 other days; † and 4 other days; ‡ and 2 other days; § and 5 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:—

		November. 1898.	Average.
Infantile diseases not otherwise specified	...	26	17
Lung diseases	...	16	15
Fever and Malaria	...	9	10
Dysentery and Diarrhœa	...	3	4
Various	...	45	57
Total	...	99	103

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Min.	Temp.	Rain.	Remarks.	Observers' Initial
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	J. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	D. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	J. W.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	W. H.
July 1st ...	11 a.m.	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ...	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.
September 1st ...	11.15 a.m.	68.9	5[illegible].8	56	7.60	Raining.	J. W.
October 1st ...	10.15 a.m.	69.9	46.8	63	10.20	Fine.	J. W.
November 1st ...	11.45 a.m.	70.9	50.8	54	23.10	Cloudy.	J. W.
November 30th ...	10.15 a.m.	68.9	44.8	62	14.70	Light rain.	W. H.

Rainfall for November, 1898.

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. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Hordley	22.50	2.53	2	21	9.02
Manchioneal P.W.D.	8.56	1.55	24	25	...
Fair Prospect P.W.D.	7.43	.88	1	24	...
Bath P. W. D.	8.22	1.26	1	23	...
Moore Town P. W. D.	27.61	4.00	6	24	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	7.62	1.42	1	23	13.72
Fellowship P. W. D.	16.74	2.24	22	30	...
Johnson River Bridge	3.70	1.10	1	13	...
Coley Estate	...	...	...	..	...
Burlington	...	...		...	...
Shrewsbury P. W. D.	13.43	2.90	9	18	...
Cedar Valley P. W. D.	3.45	1.10	1	9	...
Green Vale	...	...	...	...	...
Cinchona Plantation	6.76	1.08	9	22	10.11
Resource	5.56	...	...	...	...
Buff Bay P. W. D.	10.67	3.10	9	25	...
Cold Spring	...	...	...	...	...
Avocat P.W.D.	11.06	2.22	5	12	...
Hardware Gap P.W.D.	...	...	...	...	...
Rose Hill	2.15	.73	23	6	...
Annotto Bay P. W. D.	5.14	1.02	9	19	...

North-Eastern Division, *contd.*	November. 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Stony Hill Rfty	3.96	1.25	24	9	6.07
Stony Hill P. W. D.	3.96	1.25	24	9	...
Castleton Gardens	9.52	1.80	9	14	9.52
Lawrence Tavern P WD	2.46	.86	26	6	...
Water Valley P.W.D.	...	...	...	...	...
Quebec	...	...	...	...	7.14
Richmond P. W. D.	7.32	1.19	5	23	...
Albany	8.29	1.05	23	19	...
Gayle	...	...	...	...	10.56
Gayle P. W. D.	7.95	1.34	8	19	...
Rio Hoe	4.34	1.38	8	9	8.31
Unity Valley	5.26	1.20	8	19	6.89
Moneague P.W.D.	4.31	1.25	8	15	...
Claremont	4.28	1.15	20	12	...
Albion	5.81	.97	21	14	8.73
Averham Park	4.86	.87	7	15	7.91
Ballintoy P.W.D.	4.56	2.05	26	10	...
Means	7.85	...	...	...	8.92
Northern Division					
Port Maria P.W.D.	5.93	1.30	5	16	8.46
Ocho Rios P.W.D.	3.97	.85	2	10	...
Drax Hall	4.79	1.04	20	11	9.56
St. Ann's Bay P.W.D.	5.60	.89	6	17	...
Seville	...	...	...	...	9.54
Richmond Estate	4.68	.83	2	13	9.18
Llandovery	5.93	1.40	7	9	8.49
Brown's Town P.W.D.	3.47	1.23	8	9	...
Dry Harbour P.W.D.	2.51	.71	6	6	...
Chewmagna P. W. D.	2.79	1.15	24	9	...
Home Castle	4.20	.95	8	9	5.56
Richmond Pen	1.27	.30	2	6	3.85
Mahogany Hall	2.45	.80	6	8	5.15
Brampton Bryan	3.02	.80	7	11	...
Bryan Castle	2.39	.95	9	6	...
Braco	2.37	.77	7	7	5.76

Northern Division, *contd.*	November, 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell	Average.
	In.	in.			in.
Arcadia	2.85	1.05	9	9	6.06
Arcadia Great House	3.16	.70	7	10	...
Harmony Hall	...	...	...	...	5.69
Lancaster	2.64	.95	7	9	6.22
Vale Royal	3.27	1.20	9	12	6.68
Colchis Pen	.80	.31	8	3	3.51
Hyde	1.90	.76	8	4	6.18
Georgia	3.15	1.05	9	8	5.38
Long Pond	4.06	1.80	8	8	...
Steelfield	3.56	1.75	9	10	5.60
Oxford	3.20	1.40	9	6	4.44
Cambridge	3.70	1.80	9	5	5.04
Dry Valley	3.40	1.00	4	4	...
Lottery	2.25	1.25	9	6	5.07
Hampstead	...	...	...	...	...
Falmouth	3.20	..	...	...	5.30
Falmouth P.W.D.	2.36	.61	8	13	...
Fontabelle	1.60	.90	8	4	...
Martha Brae	...	...	...	...	...
Holland Pen	2.50	1.20	9	4	3.88
Pembroke	...	...	...	...	5.12
Golden Grove	1.70	...	...	...	5.17
Green Park	5.18	1.10	23	7	5.20
Tilston	1.55	...	...	...	5.01
Weston Favell	...	...	...	...	4.39
Orange Valley	3.17	...	...	...	4.23
Kent	3.92	...	...	...	4.18
Dundee	2.77	...	...	...	5.39
Phœnix	1.77	.65	8	7	5.28
Gale's Valley	1.20	...	...	...	5.02
Greenwood	3.54	...	...	...	4.42
Canaan	1.58	.70	8	5	...
Lima	3.80	1.10	2	8	...
Content	...	...	...	...	...
Bellfield	...	...	...	...	...
Guilsbro'	2.28	...	...	...	6.24
Tryall	...	...	...	...	...
Leogan	3.38	...	...	...	4.90
Success	3.80	1.30	22	9	...
Cinnamon Hill	2.48	.86	22	7	3.86
Rose Hall	2.75	1.00	22	8	3.98
Running Gut	...	...	...	...	4.19
Spring	3.65	...	...	...	...
Ironshore	2.37	...	...	...	3.59
Friendship	...	...	...	...	...
Providence	...	...	...	...	3.69
Montego Bay P.W D.	3.05	1.25	24	10	3.44
Catherine Hall	4.00	...	...	...	3.70
Catherine Mount	...	...	...	...	3.84
Fairfield	...	...	...	...	3.73
Anchovy	...	...	...	...	3.55
Round Hill	...	...	...	...	3.34
Tryall	...	...	...	...	3.31
Sandy Bay P.W.D.	1.18	1.18	24	1	...
Lucea P W.D.	3.53	.96	23	12	...
Orange Cove	...	...	...	...	3.95
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	3.12	2.24	27	5	4.77
Linstead P.W.D.	2.69	1.73	24	3	4.25
Point Hill P.W.D.	2.88	.65	18	12	...

Northern Division, *contd.*	November, 1898. 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.	...	...	...	...	...
Worthy Park	1.61	.34	20	11	...
Kelletts P.W.D.	...	...	...	...	...
Chapelton P.W.D.	1.56	.50	19	5	4.42
Danks Savoy	2.45	.83	22	7	...
Mears P.W.D.	1.51	.42	30	12	...
Cave Valley	1.91	1.02	10	5	5.14
Means	2.98	...	...	...	5 29
West Cen. Division.					
Mocho P.W.D.	...	...	...	...	...
Baillieston P.W.D.	4.98	3.40	1	6	...
Farm Plantation	4.70	2.50	4	9	4.74
Brockenhurst Pln.	...	...	...	...	5.87
Christiania P.W.D.	6.88	5.60	22	11	...
Kendal P.W.D.	4.17	1.42	22	11	...
Mandeville P.W.D.	4.50	.99	22	16	6.56
Carlton (Mandeville)	3.30	.97	1	15	...
Marshalls Pen	...	...	...	...	...
Ulster Spring P.W.D.	1.79	.65	24	4	...
Troy P.W.D.	...	...	...	...	...
Windsor Pen	1.57	.72	23	5	4.95
Balaclava P.W.D.	2.68	.46	2	9	...
Elim	...	...	...	...	...
Appleton	2.68	1.13	27	9	5.17
Maggotty P.W.D.	4.28	.91	4	17	...
Spring Vale	...	...	...	...	5.73
Maroon Town	...	...	...	...	4.81
Kempshot	5.87	3.61	23	11	5.10
Kepp	...	...	...	...	5.71
Kew Park	...	...	...	...	4.28
Hazelymph	2.34	.93	23	6	...
King Gate P.W.D.	1.31	.50	24	5	...
Windsor Forest	...	...	...	...	5.99
Shettlewood	1.70	.80	23	5	...
Chester Castle	...	...	...	...	5.42
Darliston P.W.D.	5.50	1.75	23	13	...
Whithorn, P.W.D.	4.27	1.38	23	10	...
New Galloway	6.50	2.03	23	11	...
Lethe Bridge	2.30	1.15	24	5	...
Copse	1.70	.70	22	8	5.75
Cacoon Castle	1.17	.53	8	5	4.89
Golden Grove	...	...	...	...	5.20
Great Valley	2.08	.58	23	8	...
Brownsville	2.59	.55	24	8	...
George's Plain Estate	...	...	...	...	..
Fontabelle	...	...	...	...	2.84
Morgan's Bridge P.W.D.	3.84	2.23	23	11	...
King's Valley	4.17	1.35	3	6	4.73
Dias	4.32	.95	3	11	...
Spring Hill	...	...	...	...	...
Abingdon	...	...	...	...	4.80
Means ...	3.30	...	...	...	5.24
Southern Division.					
Morant Point L.H. P. W.D.	6.82	1.22	1	21	5.22
Morant Bay P.W.D.	2.54	.80	1	5	...
Lyssons	...	..	...	...	..
Easington P.W.D.	1.72	1.09	1	11	...
Abbey	...	...	...	...	...
Halberstadt	...	...	...	...	..

JAN 25 1899
Weather Bureau

Southern. Division, *contd.*	November. Total Fall.	1898. Greatest fall in 24 hours. Amount	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Bull Bay P.W.D.	1.04	.32	1	6	...
Gordon Town P.W.D.	...	...	...	...	...
Hope Gardens	2.43	.70	22	14	3.73
Hope Reservoir	.74	.52	27	2	...
Cherry Garden	...	...	...	...	3.41
King's House	1.40	.65	4	6	2.17
Cavaliers	.97	.52	27	3	...
Shortwood	...	...	...	...	...
Constant Spring Reservoir	.96	.22	26	11	...
Constant Spring Estate	...	...	...	...	...
Monaltrie	1.88	1.10	1	9	3.54
Halfway-Tree P.W.D.	.86	.38	5	5	...
Lunatic Asylum ...	.73	.50	22	6	...
Kingston Gardens ...	1.24	.96	26	4	...
Public Works Office Kn.	1.03	.54	27	5	2.56
Plumb Point L. H.	.62	.39	6	4	2.28
Port Royal (Nav. Hos.)	1.98	.82	5	4	...
Ferry P. W. D.	2.77	1.25	27	6	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	1.75	.55	8	7	2.84
Windsor Park	2.99	1.35	8	5	3.10
Hog Hole Pen P.W.D.	1.50	.47	4	8	3.55
Old Harbour P.W.D.	2.70	.50	6	11	4.33
Somerset Hall	...	...	...	...	..
May Pen P.W.D.	3.51	1.90	9	9	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	4.82
Yarmouth P.W.D.	1.18	1.00	1	3	...
Victoria Town P.W.D.	2.38	.82	2	5	...
Stone's Hope	...	...	...	...	4.37
Newport P.W.D.	3.34	1.62	1	6	...
Alligator Pond P.W.D.	2.07	1.33	1	4	...
Southfield P.W.D.	1.50	.54	9	7	...
Potsdam	4.04	.82	1	8	4.61
Long Hill	5.96	1.68	27	11	4.91
Pepper	1.82	.55	29	6	5.39
Torrington P.W.D.	3.35	1.07	9	8	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	6.01	2.15	4	12	...
Holland	...	...	...	...	...
Black River P.W.D.	6.11	1.74	22	16	4.36
Spring Hill	5.36	1.29	22	11	...
Whitehall	...	...	...	...	...
Font Hill	9.30	1.30	4	14	...
Grand Vale	...	...	...	...	...
Peter's Ville	10.49	2.91	30	16	...
Mount Edgecombe	5.18	1.02	30	17	4.11
Sweet River	4.64	1.50	23	11	2.81
Cornwall	3.40	1.05	23	7	...
Windsor, Sav.-la-Mar	3.40	1.48	24	13	3.65
Sav.-la-Mar P.W.D.	2.83	.95	24	12	...
Blackheath	...	...	...	...	...
Retreat	4.03	1.29	9	7	...
Negril Pt. Lighthouse	2.05	.61	10	8	...
Means. ...	3.19	...	...	...	3.72

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	November. 1898.	Average.
	In.	In.
North Eastern Division	7.85	8.92
Northern "	2.98	5.29
West Central "	3.30	5.24
Southern "	3.19	3.72
Means	4.33	5.79

The greatest monthly fall, viz., 27.61 ins. was recorded at Moore Town and the least fall, viz.: .62 ins. was recorded at Plumb Point Light House.

The greatest fall in 24 hours was 5.60 ins. at Christiania on the 6th. The greatest number of days on which rain fell at any one place was 25 at Manchioneal and Buff Bay. Three stations had in 24 hours falls of between 3 and 5 inches, and one station had a fall of over five inches in 24 hours.

The mean approximate rainfall as arrived at on the 6th instant (when a preliminary report on November was issued) was 3.98 inches. This result was obtained from 31 stations with "averages." The results shown in the Comparative Table now published are from 74 such Stations, and show a rainfall for the Island of 4.33 inches, as compared with an average of 5.79 inches.

The rainfall was below the average in every Division of the Island, being a little below the average in the N.E. and S. Divisions and considerably below in the N. and W.C. Divisions, in each of which latter it was about three-fifths of the average. The mean for the island shows a fall of about four-fifths of the average. While this is the case, Hordley had more than double its average, and there were a few places which had just about or over the average, viz.:—Castleton Gardens, (N. E.), Green Park (N.), Farm Plantation and Kempshot (W. C.), Morant Point, Windsor Park, Long Hill, Black River, Mt. Edgecombe, Sweet River and Sav.-la-Mar (S. Division).

The following notes have come to hand:—

N. E. Division.

Rio Hoe—Good showers for the month.

Moneague—First part of month hot and close; latter part cool.

N. Division.

St. Ann's Bay—Bar. at 7 a.m. 29.920, and at 3 p.m 29.860, corr. to 32°, sea level and gravity 45.° Indoor Temp., 7 a.m., 77° and at 3 p.m. 81°.

Brown's Town—Cool and pleasant during month.

Richmond Estate.—The fall of 4.68 is very much below an average of 11.62 for November. This following the drought in October is having a serious effect on our cane cultivation.

Fontabelle—A very dry November, the latter part of the month being without rain for three weeks in succession.

W. C. Division.

Farm.—First week of November heavy rains, since then scarcely any.

Copse—Sultry and high winds greater part of the month, not the usual weather for November.

S. Division.

Peter's Ville.—We have had more rain this November, than any since I have been keeping the rainfall from 1888. The month of May was the heaviest fall for the year so far, 15.04.

Mount Edgecombe.—Up to the 21st only 2.17 ins. had fallen and as the N.E. wind was very strong about middle of month, particularly at nights, it seemed as if the dry weather was upon us; but from 22nd there were good rains in six days making the total 5.18 ins. as above, the average for 19 years being 4.67 for the month.

Cornwall.—Last year 9.90. To date rainfall is 24.50 less than same date last year.

Earthquake.

Albion.—Earthquake on 25th at about 10 p.m., lasted for 3 or 4 seconds, but was not severe.

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3.70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
August	...	6.32	7.54
September	...	7.24	7.81
October	...	10.14	9.48
November	...	4.33	5.79
Total	...	69.33	67.35

For the eleven months of the year therefore the rainfall is in excess of the average by two inches or three per cent.

Robt. Johnstone.

Weather Office,
22nd December, 1898.

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JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1898.

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	29.965	29.898	71.2	84.4	89.9	69.2	20.7	62.2	73	71.3	65	0.00	49	N	1	SE	9
2	.954	.872	71.5	83.4	88.7	70.2	16.5	67.5	87	67.9	60	0.00	61	N	1	SE	7
3	.923	.886	69.6	83.6	87.3	68.8	18.5	62.7	79	62.2	49	0.00	52	N	1	SE	5
4	.922	.886	71.7	83.5	87.8	69.8	18.0	64.9	80	71.4	67	0.00	66	N	1	SE	13
5	.999	.951	71.5	83.5	87.3	70.0	17.3	69.1	92	68.4	61	0.00	19	NE	1	NE	2
6	30.026	.943	71.2	84.2	88.3	70.4	17.9	67.9	89	68.1	59	0.00	28	N	1	NE	1
7	.016	.928	74.5	83.7	86.1	73.3	12.8	69.6	85	68.5	53	0.00	37	N	1	Z	0
8	29.985	.947	71.7	80.2	85.6	71.3	14.3	66.6	84	68.4	70	0.00	33	N	1	NE	3
9	30.007	.929	69.6	82.7	87.6	68.3	19.3	64.1	83	70.8	67	0.00	37	N	1	SE	10
10	29.982	.910	67.7	82.4	88.4	67.0	21.4	60.7	78	67.2	60	0.00	30	N	1	NW	3
11	.944	.923	73.8	81.8	85.9	71.8	14.1	66.3	77	69.3	66	0.00	22	NW	1	S	2
12	.953	.925	68.4	82.2	86.1	67.5	18.6	64.3	89	68.2	63	0.00	24	N	1	NE	1
13	30.053	.981	69.8	83.7	87.4	68.5	18.9	64.0	82	68.9	61	0.00	31	N	1	NE	3
14	.078	.980	68.4	84.6	87.4	68.0	19.4	63.4	84	69.9	62	0.00	22	N	1	SW	2
15	.067	.979	69.4	84.3	88.3	68.7	19.6	67.0	92	68.2	59	0.00	38	N	1	SE	4
16	.010	.942	69.1	84.8	88.4	68.0	20.4	65.2	87	68.0	57	0.00	25	N	1	E	1
17	.034	.906	68.2	83.4	86.3	66.9	19.4	59.2	76	68.2	60	0.00	34	NE	1	ESE	4
18	29.969	.890	69.2	83.1	86.4	68.3	18.1	63.7	83	68.6	54	0.02	33	N	1	ESE	4
19	.975	.903	69.4	83.8	87.6	68.7	18.9	65.7	88	65.4	54	0.00	30	N	1	S	1
20	.979	.909	67.3	84.4	85.7	65.9	19.8	60.7	80	63.5	50	0.00	29	N	1	NE	2
21	.961	.890	67.9	80.8	85.9	67.0	18.9	63.6	86	68.2	66	0.00	60	N	1	SE	8
22	.946	.885	69.3	82.7	85.9	68.8	17.1	64.8	85	71.2	68	0.00	77	NW	2	SE	8
23	.991	.950	69.4	77.2	84.7	67.9	16.8	59.8	72	68.9	76	0.05	38	N	4	N	1
24	.998	.941	69.7	80.2	86.3	68.9	17.4	63.9	82	67.6	66	0.00	41	N	2	NW	5
25	.999	.925	69.7	80.0	87.3	67.9	19.4	62.6	78	67.6	66	0.00	27	N	2	SE	2
26	.997	.988	69.3	79.1	86.3	67.4	18.9	62.9	80	67.9	69	0.00	26	NW	2	S	2
27	.993	.922	77.1	85.4	87.3	67.1	20.2	65.4	85	69.1	58	0.00	50	NW	1	NE	1
28	.999	.946	70.8	82.4	86.3	69.5	16.8	65.2	82	70.9	68	0.07	21	NW	1	NE	1
29	30.015	.933	69.7	87.8	89.3	68.4	20.9	67.2	92	68.3	53	0.00	28	N	1	S	3
30	.019	.920	71.8	81.5	86.7	69.8	16.9	65.7	83	67.8	63	0.00	62	N	1	SE	13
31	29.972	.896	70.4	83.6	87.3	69.7	17.6	67.6	91	71.1	66	0.00	41	N	1	SE	7
Means. Total ...	29.988	29.924	70.0	82.9	87.0	68.8	18.2	64.6	83	68.4	62	0.14	37.8	N	1.2	SEbyS	4.1

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	...	...	10 Cir. s.	...	1 Cum.	4 Cir.	Cloudy a.m. Fair p.m.
2	...	...	10 Cir.	...	2 Cum.	7 Cir.	Cloudy.
3	...	...	8 Cir.	...	1 Cum. SE	1 Cir.	Fine.
4	...	1 Cum. E	...	...	1 Cum.	...	Fine L. to SE at 7.15 p.m.
5	...	1 Cum.	8 Cir.	1 Str. c.	2 Cum. E	6 Cir. SE	Cloudy.
6	...	1 Cum.	1 Cir.	3 Str c. SE	2 Cum.	3 Cir.s. SE	Fine a.m. Cloudy p.m.
7	2 Str. 4 Alt s.	...	3 Cir. s.	1 Frac. s.	2 Alt. c,	1 Cir. SE	Cloudy a.m. Fair p.m.
8	...	1 Cum.	...	4 Str. c. SE 1 Frac. s.	2 Cum.	2 Cir. s. SE	Fine a m Cloudy p.m. Squalls SE at 12.39 p.m and at 1.19 p.m.
9	...	...	...	...	2 Cum.	1 Cir.	Fine.
10	...	...	8 Cir.	1 Str. 3 Str.c.	1 Cum.	3 Str. Cir.	Cloudy.
11	2 Str.c. SE 8Frac.sSE	...	...	...	1 Cum.	8 Cir.	Cloudy.
12	...	...	5 Cir.	...	1 Cum.	1 Cir.	Fair a.m. Fine p.m.
13	...	...	2 Cir.	...	2 Cum. SE	1 Cir. SE	Fine
14	...	...	4 Cir.	...	1 Cum. 1 Alt. c.	1 Cir. W	Fair a.m. Fine p.m.
15	...	1 Cum.	1 Cir.	...	2 Cum. SE	4 Cir.	Fine a.m. Cloudy p.m.
16	...	4 Cir.c. 1 Cum.	1 Cir.	...	2 Cum.	1 Cir.	Cloudy a.m. Fine p.m.
17	...	1 Cum.	...	...	2 Cum. SE	...	Fine.
18	...	2 Cum.	5 Cir.	...	2 Cum. SE	4 Cir. s.	Cloudy. Light R. at 4.54 to 5.7 p.m.
19	...	...	...	...	2 Cum. SE	...	Fine.
20	...	...	...	...	1 Cum.	2 Cir.	Fine.
21	...	1 Cum.	...	2 Str. c. SE	2 Cum. SE	3 Cir. s. SE	Fine a.m. Cloudy p.m.
22	...	2 Cum. E	2Cir. s. E	...	2 Cum.SE 1 Alt. c.	1 Cir. s.	Fair.
23	...	2 Cum. 2 Alt. c.	3 Cir.	7 Str. c.	2 Cum SE	1 Cir. s.	Cloudy. R. at 5.10 to 5.21 p.m.
24	...	...	...	8 Str c. SE	1 Cum.	...	Fine a.m. Cloudy p.m.
25	...	...	...	8 Str. c. SE	...	1 Cir.	Fine a.m. Cloudy p.m.
26	...	...	...	2 Str. c. SE	2 Cum. SE	3 Cir. s. SE	Fine a.m. Cloudy p.m.
27	...	...	...	3 Str. c. SE	2 Cum.	2 Cir. s. SE	Fine a.m. Cloudy p.m.
28	...	1 Cum.	...	5 Str. c. SE 1 Alt. s.	2 Cum. SE	1 Cir. s.	Fine a.m. R. at 2.40 to 3.9 p.m.
29	...	...	3 Str. c.	3 Str. c. SE	2 Cum. SE	...	Fine.
30	...	...	...	...	2 Cum. SE	2 Cir. s. E	Fine a.m. Cloudy p.m.
31	...	...	...	...	3 Cum. SE	...	Fine
Means	.5	.7	2.2	1.7	1.7	2.1	

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	29.973	29.919	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.983	29.925	72.1	82.0	85.1	69.6	15.5	87.6	6	65.5	24	22.1
Kingston ...	50	29.988	29.924	70.0	82.9	87.0	68.8	18.2	89.9	1	66.9	20	24.0
Montego Bay ...	160	29.989	29.924	69.5	79.0	83.1	66.7	16.4	87.0	5	61.3	23	25.7
Castleton Gardens...	496	29.986	29.933	65.5	79.5	84.9	62.0	22.9	89	2, 3	58	17,21,23	31
Hope Gardens ...	600	...	...	67.1	81.3	85.3	64.2	21.1	87	*1	60	20	27
Stony Hill Refty. ...	1,400	...	...	67.6	77.9	83.3	64.3	19.0	86	4, 6	61	23	25
Hill Gardens ...	4,907	25.250	25.216	58.4	64.2	67.6	54.5	13.1	71	†2	50	6	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.		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.											
Morant Point L.H.	8	...	...	...	...	4.13	...	NE by N	4.8	NE	10.1	2.8	1.8	1.1	2.4	2.4	1.1
Negril Point L. H.	33	67.1	84	70.2	68	1.77	217.7	NE by E	9.3	Var.	11.4	1.4	1.3	2.6	2.0	4.3	1.8
Kingston ...	50	64.6	83	68.4	62	0.14	37.8	N	1.2	SE by S	4.1	0.5	0.7	2.2	1.7	1.7	2.1
Montego Bay ...	160	67.5	93	69.3	73	1.63	61.4	ENE	1.9	NE	4.7	0.2	0.8	2.7	2.6	1.9	0.0
Castleton Gardens...	496	62.0	88	71.7	74	4.29	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens ...	600	63.1	87	70.5	71	0.74	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty. ...	1,400	64.9	91	73.8	87	2.71	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens ...	4,907	54.1	84	60.7	87	1.69	11.1	E	8.7	E	2.4	...	...	...	...	...	...

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.

* And 8 other days; † and 3 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. 1898.	Average.
Infantile diseases not otherwise specified	...	21	16
Lung diseases	...	22	16
Fever and Malaria	...	7	10
Dysentery and Diarrhœa	...	7	6
Various	...	50	59
Total	...	107	107

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

Day.	Hour.	Temperature. Max.	Temperature. Min.	Temp.	Rain.	Remarks.	Observers' Initials
1898.		°	°	°	in.		
February 1st ...	7.35 a.m.	66.9	37.8	50	7.25	Misty.	J. W.
March 1st ...	11.10 a.m	64.9	48.8	58	5.55	Cloudy.	D. W.
April 1st ...	11 a.m.	67.9	50.8	60	5.42	Fine.	J. W.
April 30th ...	8.30 a.m.	65.9	38.2	54	6.25	Light rain.	J. W.
June 1st ...	11 a.m.	67.9	46.8	60	35.38	Heavy Clouds.	W. H.
July 1st ...	11 a.m	67.9	44.8	62	27.16	Cloudy.	J. W.
July 31st ..	Noon	68.9	52.8	56	10.85	Cloudy.	J. W.
September 1st ...	11.15 a.m.	68.9	5[illegible].8	56	7.60	Raining.	J. W.
October 1st ...	10.15 a.m.	69.9	46.8	63	10.20	Fine.	J. W.
November 1st ...	11.45 a.m.	70.9	50.8	54	23.10	Cloudy.	J. W.
November 30th ..	10.15 a.m.	68.9	44.8	62	14.70	Light rain.	W. H.
December 31st ...	10.30 a.m.	69.9	40.8	55	4.35	Cloudy.	J. W.

Rainfall for December, 1898.

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.	December. 1898. 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	3.62	1.72	19	6	9.85
Manchioneal P.W.D.	3.23	.60	23	18	...
Fair Prospect P.W.D.	4.14	.96	6	14	...
Bath P. W. D.	4.33	.94	6	15	...
Moore Town P. W. D.	11.16	3.28	28	10	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	7.32	1.50	28	18	14.02
Fellowship P. W. D.	7.57	1.12	7	28	...
Johnson River Bridge	1.36	.54	5	7	...
Coley Estate	...	...	...	..	...
Burlington	...	...		...	...
Shrewsbury P. W. D.	7.92	2.65	28	13	...
Cedar Valley P. W. D.	1.96	.80	25	6	...
Green Vale	...	...	...	...	...
Cinchona Plantation	1.69	.55	24	10	12.15
Resource	.75	...	...	...	...
Buff Bay P. W. D.	5.75	1.20	28	20	...
Cold Spring	...	...	...	...	...
Avocat P.W.D.	4.81	1.43	28	9	...
Hardware Gap P.W.D.	.26	.26	25	1	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	2.03	.32	29	16	...

North-Eastern Division, *contd.*	December. 1898. 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.
Stony Hill Rfty	2.71	1.30	24	9	4.60
Stony Hill P. W. D.	2.46	1.30	24	9	...
Castleton Gardens	4.29	1.70	28	7	12.76
Lawrence Tavern P W D	1.00	.36	25	4	...
Albany P.W.D.	3.41	.64	29	11	...
Quebec	2.91	..	...	6	10.42
Richmond P. W. D.	6.43	3.32	6	16	...
Highgate P. W. D.	...	...	...	...	...
Gayle	7.25	2.50	6	6	11.48
Gayle P. W. D.	6.63	2.10	6	16	...
Rio Hoe	3.57	1.30	6	8	10.62
Unity Valley	3.64	1.14	6	17	7.84
Moneague P.W.D.	3.79	1.23	6	13	...
Claremont	...	...	...	...	...
Albion	4.84	1.40	6	11	8.00
Averham Park	5.35	1.26	6	13	12.29
Ballintoy P.W.D.	...	...	...	...	...
Means	4 29	...	...	...	10.37
Northern Division					
Port Maria P.W.D.	4.50	1.58	28	15	8.89
Ocho Rios P.W.D.	3.71	1.33	3	5	...
Drax Hall	2.86	1.24	4	8	9.26
St. Ann's Bay P.W.D.	3.70	1.52	4	16	...
Seville	...	...		...	9.15
Richmond Estate	4.34	1.14	17	13	10.31
Llandovery	...	...	...	...	10.21
Brown's Town P.W.D.	5.24	2.92	6	9	...
Dry Harbour P.W.D.	4.19	2.20	14	6	...
Chewmagna P. W. D.	2.37	.55	6	12	...
Home Castle	4.76	1.65	29	7	7.48
Richmond Pen	3.27	1.20	7	6	4.40
Mahogany Hall	3.81	2.41	6	8	5.71
Brampton Bryan	3.39	1.26	6	10	6.12
Bryan Castle	5.40	1.94	14	8	6.48
Braco	3.81	.98	14	9	6.48

Northern Division, *contd.*	December, 1898. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which .01 or more fell.	Average.
	In.	in.			in.
Arcadia	4.95	2.20	14	8	7.29
Arcadia Great House	...	...	...	...	...
Harmony Hall	...	...	...	...	6.56
Lancaster	4.09	1.15	14	9	7.06
Vale Royal	5.27	2.23	13	8	8.39
Colchis Pen	2.20	1.90	6	3	5.31
Hyde	3.27	1.81	6	8	6.89
Georgia	4.54	1.77	14	8	7.53
Long Pond	5.03	2.82	6	9	...
Steelfield	4.30	1.90	14	6	6.84
Oxford	5.05	1.95	14	7	7.60
Cambridge	4.48	1.50	14	9	7.04
Dry Valley	...	...	...	...	...
Lottery	3.95	1.50	15	7	6.14
Hampstead	...	...	...	...	...
Falmouth	4.28	..	...	...	5.85
Falmouth P.W.D.	3.32	.91	15	10	...
Fontabelle	1.80	.50	6, 14	6	..
Martha Brae	...	...	...	...	...
Holland Pen	4.10	2.00	29	9	4.77
Pembroke	...	...	...	...	5.95
Golden Grove	2.40	...	...	...	5.00
Green Park	...	...	...	...	6.12
Tilston	3.70	...	...	...	5.15
Weston Favell	...	...	...	...	5.41
Orange Valley	3.07	...	...	...	5.97
Kent	3.51	...	...	...	5.28
Dundee	2.73	...	...	...	6.09
Phœnix	3.00	.75	14	10	8.19
Gale's Valley	2.60	...	...	...	5.55
Greenwood	...	...	...	...	5.59
Canaan	...	...	...	...	...
Lima	...	...	...	...	...
Content	...	...	...	...	5.48
Bellfield	...	...	...	...	...
Guilsbro'	.86	...	...	...	4.69
Tryall		...	...	...	...
Leogan	3.14	...	...	...	7.49
Success	...	...	...	...	3.86
Cinnamon Hill	...	...	...	...	5.51
Rose Hall	...	...	...	...	6.47
Running Gut	...	...	...	...	5.72
Spring	3.25	...	...	...	...
Ironshore	1.98	...	...	...	5.81
Friendship	...	...	...	...	...
Providence	...	...	...	...	6.72
Montego Bay P.W D.	1.63	.71	14	8	6.62
Catherine Hall	2.70	...	...	...	5.79
Catherine Mount	...	...	...	...	6.16
Fairfield	...	...	...	...	5.83
Anchovy	...	...	...	...	3.85
Round Hill	...	...	...	...	3.50
Tryall	...	...	...	...	3.67
Sandy Bay P.W.D.	2.83	1.10	5	4	...
Lucea P W.D.	3.78	1.92	4	4	...
Orange Cove	...	...	...	...	...
Spring Valley	...	...	...	...	...
Central Sub-Division—					
Headworks R.C.C.	.07	.02	31	5	2.29
Linstead P.W.D.	.88	.50	6	3	3.56
Point Hill P.W.D.	4.82	2.86	30	6	...

Northern Division, *contd.*	December, 1898. 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.	..	...	...	...	...
Worthy Park	2.05	.87	30	7	...
Chapelton P.W.D.	.59	.21	21	3	2.40
Danks Savoy	.71	.36	10	6	...
Mears P.W.D.	1.60	.52	24	11	...
Cave Valley	1.47	1.25	25	2	2.71
Means	3.26	...	...	...	5 90
West Cen. Division.					
Mocho P.W.D.	1.70	.50	18	8	...
Baillieston P.W.D.	4.45	2.00	30	6	...
Farm Plantation	2.91	.56	19	9	3.40
Brockenhurst Pln.	...	...	...	...	6.73
Christiania P.W.D.	3.65	1.37	30	9	...
Kendal P.W.D.	1.92	.60	20	9	...
Mandeville P.W.D.	1.56	.85	26	4	3.84
Carlton (Mandeville)	2.00	.60	30	8	...
Marshalls Pen	...	...	...	...	3.51
Ulster Spring P.W.D.	1.04	.23	4	8	...
Troy P.W.D.	2.69	.91	18	7	...
Windsor Pen	.63	.20	9	5	7.01
Balaclava P.W.D.	2.94	1.20	18	5	...
Elim	...	..	...	...	...
Appleton	2.56	1.27	18	10	3.44
Maggotty P.W.D.	2.99	1.14	25	11	...
Spring Vale	...	...	...	...	6.60
Maroon Town *	...	...	...	...	4.51
Kempshot	1.54	.36	16	8	4.48
Kepp	...	...	...	...	3.14
Kew Park	...	...	...	...	3.21
Hazelymph	1.19	.80	25	5	...
King Gate P.W.D.	1.45	.50	8	5	...
Windsor Forest	...	...	...	...	4.37
Shettlewood	...	...	...	...	...
Chester Castle	...	...	...	...	2.82
Darliston P.W.D.	3.01	.83	18	12	...
Whithorn, P.W.D.	1.63	.42	8	7	...
New Galloway	2.15	.78	18	6	...
Lethe Bridge	.99	.40	7	5	...
Copse	1.22	.52	25	6	3.83
Cacoon Castle	1.91	.61	5	4	6.09
Golden Grove	...	...	...	...	4.10
Great Valley	1.65	.78	15	4	6.84
Brownsville	1.74	.90	6	6	...
George's Plain Estate	...	...	...	...	..
Fontabelle	...	...	...	...	3.05
Morgan's Bridge P.W.D.	3.68	1.40	18	9	...
King's Valley	2.85	.95	15	7	4.49
Dias	4.55	2.25	4	7	...
Abingdon	...	...	...	...	4.86
Means ...	1.90	...	...	...	4.82
Southern Division.					
Morant Point L.H. P. W.D.	4.13	1.46	20	14	6.65
Morant Bay P.W.D.	1.21	1.21	6	1	...
Lyssons	...	...	...	...	...
Easington P.W.D.	.57	.42	8	6	..
Abbey	...	...	...	...	3.34
Halberstadt	...	...	...	...	2.85

*Gauge out of order.

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Weather Bureau

Southern. Division, *contd.*	December. 1898. 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.	.43	.25	25	3	...
Gordon Town P.W.D.	...	...	...	...	...
Hope Gardens	.74	.30	27	7	2.55
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	2.77
King's House	.20	.20	19	1	1.53
Cavaliers	...	...	...	...	...
Shortwood	...	...	...	...	...
Constant Spring Reservoir	...	...	...	...	...
Constant Spring Estate	...	...	...	...	...
Monaltrie	.19	.12	19	4	2.17
Halfway-Tree P.W.D.	.38	.18	18	5	...
Lunatic Asylum ...	...	...	...	...	...
Kingston Gardens ...	.21	.12	28	3	...
Public Works Office Kn.	.14	.07	28	3	1.91
Plumb Point L. H.	.29	.23	23	3	1.62
Port Royal (Nav. Hos.)	.50	.20	5	6	...
Ferry P. W. D.	.61	.26	23	3	...
Caymanas	...	...	...	...	1.79
Spanish Town P. W. D.	.60	30	27,28	2	2.27
Windsor Park	...	...	...	...	2.42
Hog Hole Pen P.W.D.	1.04	.40	31	4	2.37
Old Harbour P.W.D.	1.33	.51	7	6	2.66
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	1.40	1.25	9	2	...
Amity Hall	...	...	...	...	...
Hermitage	1.33	.98	28	2	...
Denbigh	...	...	...	...	2.29
Yarmouth P.W.D.	.60	.60	21	1	...
Victoria Town P.W.D.	1.73	.48	8	5	...
Stone's Hope	2.81	.80	22	11	2.52
Newport P.W.D.	2.92	.68	27	7	...
Alligator Pond P.W.D.	1.02	.39	25	3	...
Southfield P.W.D.	2.16	1.65	9	7	...
Potsdam	1.31	.47	18	5	3.05
Long Hill	3.96	1.68	25	9	3.07
Pepper	2.50	.50	24	8	2.48
Torrington P.W.D.	1.55	.50	6	8	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	3.19	.95	25	8	3.02
Holland	...	...	...	...	...
Black River P.W.D.	2.19	.98	25	7	2.49
Spring Hill	4.28	1.06	30	9	...
Whitehall	...	...	...	...	...
Font Hill	3.60	1.20	25	7	...
Grand Vale	...	...	...	...	...
Peter's Ville	3.40	1.43	30	13	...
Mount Edgecombe	1.29	.34	30	14	2.61
Sweet River	1.94	1.02	29	6	2.87
Cornwall	1.15	.80	8	3	...
Windsor, Sav.-la-Mar	...	...	...	...	2.46
Sav.-la-Mar P.W.D.	.83	.35	8	4	...
Blackheath	...	...	...	...	...
Retreat	...	...	...	...	...
Negril Pt. Lighthouse	1.77	.70	8	5	...
Means. ...	1.64	...	...	...	2.69

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	December. 1898.	Average.
	In.	In.
North Eastern Division	4.29	10.37
Northern "	3.26	5.90
West Central "	1.90	4.82
Southern "	1.64	2.69
Means	2.77	5.94

The greatest monthly fall, viz., 11.16 ins. was recorded at Moore Town and the least fall, viz.: 0.07 ins. was recorded at Head Works R. C. C. The greatest fall in 24 hours was 3.32 ins. at Richmond P. W. D. on the 6th. The greatest number of days on which rain fell at any one place was 28 at Fellowship. Two stations had in 24 hours falls of between 3 and 5 inches.

The mean approximate rainfall as arrived at on the 9th instant (when a preliminary report on December was issued) was 2.57 inches. This result was obtained from 47 stations with "averages." The results shown in the Comparative Table now published are from 72 such stations, and show a rainfall for the Island of 2.80 inches, as compared with an average of 5.96 inches.

From this it will be seen that the rainfall for December was only half the average. The N. E. and W. C. Divisions had a little less than this proportion and the N. and S. Divisions a little more than half the average. In the S. Division the following places, Stones Hope, Long Hill, Pepper and Santa Cruz, had falls a little above the average.; and the following places, viz., Head Works R. C. C. Windsor Pen, Monaltrie and Kingston, had less than a tenth of the average, but most of the other stations had about half.

The following notes have come to hand:—

N. E. Division.

Highgate and Richmond P. W. D.—Considered an exceptionally dry Christmas.

Rio Hoe—Favourable weather for the month of December.

Moneague P.W.D.—Showery first of month, but partial in the district. Cold in early morning of 22nd at 5·30 a.m., Temp. 59.° Latter part of month much warmer and showery.

N. Division.

St. Ann's Bay—Bar. at 7 a.m. 29.989 and at 3 p.m. 29.941, corr. to 32°, sea level and gravity 45°. Indoor Temp. at 7 a.m. 75° and at 3 p.m. 80°.

Richmond Estate.—We have had a fair number of showers for this month, but the fall of 4.34 is much below our average, as is the fall for the year, which is 41.23.

Mahogany Hall—The following are the totals for the years mentioned:—

1898	...	64.91
1897	...	66.83
1896	...	67.46
1895	...	85.27
1894	...	59.90

Fontabelle—(Trelawny) very dry weather; rain very much wanted.

W. C. Division.

Farm—Total rain for 12 months 83.50. A delightful month.

Mandeville P. W. D.—Fair weather until last week in month.

Copse—Unusual weather for December, feeding and water for stock getting short.

S. Division.

Monaltrie—Although the rainfall at Monaltrie was so small yet heavy showers fell, on several occasions, within half a mile and in the upper parts of the Liguanea.

Mount Edgecome—Our rainfall in December was very much of the kind one might expect in the month, perhaps a little more. The total fall for 1898 is 60.57 inches against 69.52 in 1897.

Earthquake.

Petersville—On the 14th a slight shock of earthquake from east to west (74.66 inches for the year). —*Thos. S. McNeel.*

Mount Edgecome—I wish to report that on Wednesday last 14th inst., [December] at 10.35 a.m., there was a slight shock of earthquake here. I was in the house when I, with two others, felt it: there was an upheaval, a cracking noise in the roof, a rattling of plates in an adjoining store-room and it was over; it seemed to move from S. E. to N. W. with the speed of lightning. I have never felt an earthquake that did not seem to me to move, more or less from East to West. —*Chas. B. Vickers.*

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

		1898.	Average.
		ins.	ins.
January	...	1.62	4.19
February	...	3 70	2.58
March	...	1.16	3.00
April	...	4.44	4.58
May	...	16.84	9.08
June	...	7.25	8.16
July	...	6.29	5.14
August	...	6.32	7.54
September	...	7.24	7.81
October	...	10.14	9.48
November	...	4.33	5.79
December	...	2.77	5.94
Total	...	72.10	73.29

From the above figures, which will be subject to revision on receipt of further information it will be seen that the rainfall for the year has been very slightly below the average—about one inch, or not two per cent, less than the average of 73 inches. The greatest deficiencies took place in January, March and December, while there was a considerable excess in May, and in February, July and October the fall was also above average.

The rainfall for Kingston for the year was about three inches (or one twelfth) less than the average

KINGSTON, JAMAICA—Mean Results for the Year 1898. Elevation 50 Feet.

Month.	Barometer.		Thermometers (F.)					Dew Point and Humidity.				Wind. Direction from and Miles per Hour.				Average Velocity per Day. (Miles.)
	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.		
	ins.	ins.	°	°	°	°	°	°		°						
January ...	30.001	29.926	69.2	84.1	86.8	68 1	18.7	62.7	80	66.6	57	N	3.1	SE by S	5.3	56.8
February ...	29.970	29.907	68.2	82.2	84.3	66.4	18.4	62.2	81	67.1	61	N	2.1	SE by S	4.3	36.3
March ...	29.962	29.892	69.7	83.7	85.7	67.4	18.3	63.5	81	66.0	56	N	1.5	SE by S	4.2	41.7
April ...	29.987	29.952	72.9	82.7	85.9	69.7	16.2	66.0	79	68.5	62	N	0.9	SE	6.0	49.5
May ...	29.917	29.867	77.1	83.6	86.0	72 4	13.6	70.6	81	71.9	69	N	1.1	SE	5.3	43.4
June ...	29.940	29.898	77.4	84.9	87.8	73.1	14.7	69.5	77	71.1	64	N	1.2	SE	5.6	61.1
July ...	29.943	29.898	77.0	85.6	88.7	72.8	15.9	69.1	77	71.3	63	N	1.0	SE	5.0	60.3
August ...	29.935	29 888	75.5	84.0	88.1	73.4	14.7	69.4	82	72.3	69	N	1.1	SE	5.2	46.6
September ...	29 891	29.840	75.5	84.1	87.9	72.7	15.2	70.1	86	72.4	68	N	1.0	SE by S	3.4	34.3
October ...	29.876	29.820	74.9	83.2	86.4	73.0	13.4	70.8	86	72.3	71	N	1.2	SE	3.7	28.2
November ...	29.898	29.828	72.5	84 1	87.7	71.1	16.6	67.5	85	70.5	64	N	1.3	SE by S	3.0	28.2
December ...	29.988	29.924	70.0	82.9	87.0	68.8	18.2	64.6	83	68.4	62	N	1.2	SE by S	4.1	37.8
Mean ...	29.942	29.887	73.3	83.8	86.9	70.7	16.2	67.2	82	69.9	64	N	1.4	SE	4.6	43.7

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 ...	.9	.2	.8	2.3	1.1	1.6	93.5	13	63.4	4	30.1	0.03	Strong Norther on 2nd.
February ...	.3	.9	1.1	2.6	1.4	1.0	87.3	17	63.2	7	24.1	2.66	Fine a.m. Fair p.m.
March ...	.6	.7	.6	.7	1.3	2.1	89.6	29	64.0	14,15	25.6	1.31	Fine.
April ...	.7	.9	2.0	3.2	1.2	2.2	88.9	9	67.3	4	21.6	.17	Fair.
May ...	.9	.8	2.2	3.1	1.6	1.9	89.1	5	69.2	7	19.9	9.66	Heavy "Seasons" last week.
June ...	1.3	.8	3.0	2.2	1.4	4.3	90.6	15, 26	70.0	3	20.6	3.29	Fair.
July ...	.5	.4	2.5	1.5	1.6	3.0	91.8	29	70.3	19	21.5	1.63	Fair.
August ...	.5	.4	2.5	1.5	1.6	3.0	91.8	9	71.1	1	20.7	1.86	Fair. Earthquake, 21st, 4 p.m.
September ...	.9	.8	4.0	1.5	1.5	3.9	92.3	30	70.8	9	21.5	2.95	Distant Cyclones to E. and N. on 14th and 30th.
October ...	2.6	1.2	3.6	2.3	1.4	3.7	92.1	4	69.7	11	22.4	9.77	"Seasons."
November ...	.3	.7	2.0	2.6	1.3	1.8	89.9	8	62.6	12	27.3	1.03	Fair.
December ...	.5	.7	2.2	1.7	1.7	2.1	89.9	1	65.9	20	24.0	.14	Fair.
Mean ...	.8	.7	2.2	2.1	1.4	2.6	90.6	.	67.3	.	23.3	.	
Total ...	...	...	...	...	...	...	...	...	...	...	...	34.60	

ROBT. JOHNSTONE.

Weather Office,
24th January, 1899.