



# **National Oceanic and Atmospheric Administration**

## **Climate Database Modernization Program**

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Beltsville, MD 20704-1387  
March 28, 2002

KINGSTON:—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky)						Weather: Remarks, &c.
	7 a.m.			3 p.m.			
	Lower.	Middle.	Upper.	Lower.	Middle.	Upper.	
1	...	1 Cum. E	...	7 Str.	1 Cum.	...	Fine a.m. Cloudy p.m.
2	6 Str	...	2 Cir. s	1 Str <sup>c</sup> 2 Str	...	6 Cir. s	Cloudy. Strong Norther.
3	...	2 Alt. c.	1 Cir.	3 Str. NE	...	...	Fine.
4	...	...	...	1 Str. c. E	...	...	Fine.
5	...	...	2 Cir. s. E	3 Str. c. E	...	...	Fair a.m. Cloudy p.m.
6	7 Str.	...	1 Cir. s.	1 Str. c	...	7 Cir. s.	Cloudy.
7	...	1 Cum.	4 Cir.	3 Str. c	1 Cum.	3 Cir.	Fine a.m. Cloudy p.m.
8	...	...	...	1 Str. c.	1 Cum.	2 Cir.	Fine a.m. Fair p.m.
9	...	...	...	...	3 Cum	2 Cir. c.	Fine a.m. Cloudy p.m.
10	...	...	...	...	1 Cum.	3 Cir. s.	Fine a.m. Fair p.m.
11	...	...	...	6 Str. c.	1 Cum.	2 Cir. s.	Fine a.m. Cloudy p.m.
12	...	...	...	...	1 Cum. SE	...	Fine.
13	...	...	...	...	1 Cum	1 Cir.	Fine.
14	...	...	...	1 Str. c.	1 Cum.	...	Fine.
15	...	...	...	7 Str. c. SE	1 Cum	...	Fine a.m. Cloudy p.m.
16	...	...	...	1 Str	2 Cum.	1 Cir.	Fine a.m. Fair p.m.
17	...	...	3 Cir.	7 Str. c.	1 Cum.	1 Cir. s.	Fine a.m. Cloudy p.m.
18	3 Str.	...	1 Str. c 3 Cir.	1 Str.	2 Cum. SE	1 Cir. s.	Cloudy a.m. Fine p.m.
19	7 Str	1 Cum. E	2 Cir. s. E	3 Str. c. SE	2 Cum.	1 Cir. s.	Cloudy.
20	...	...	3 Cir.	1 Str. c.	1 Cum.	6 Cir. s.	Fair a.m. Cloudy p.m.
21	...	1 Cum.	...	4 Str. c. SE	2 Cum. SE	2 Cir. s.	Fine a.m. Cloudy p.m.
22	4 Str. c. SE	...	...	3 Str. 2 Str. c.	...	2 Cir.	Fine a.m. Fair p.m. Slight shock of Earthquake at 11.10 p.m.
23	...	...	...	...	2 Cum. E	...	Fine a.m. Cloudy p.m.
24	...	...	...	...	2 Cum. SE	...	Fine, squall from SE at 3.57 p.m. Light R. at 4.12 p.m. to 4.23 p.m.
25	...	...	...	...	2 Cum. SE	1 Cir. S	Fine.
26	...	...	...	...	2 Cum	...	Fine.
27	1 Str. c.	1 Cum.	...	...	1 Cum	...	Fine.
28	1 Str. c.	...	...	...	1 Cum.	4 Cir. SE	Fine a.m. Fair p.m.
29	...	...	...	2 Str. c.	1 Cum	1 Cir. s.	Fine a.m. Fair p.m.
30	...	...	...	4 Str. c. SE	1 Cum.	2 Cir. s. SE	Fine a.m. Cloudy p.m.
31	...	...	...	1 Str.	1 Cum.	...	Fine.
Means	.9	.2	.8	2.3	1.1	1.6	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure.		Temperature.				Extreme Temperature.					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range
Morant Point L. H.	8	In.	In.	°	°	°	°	°	°	°	°	°	°
Negril Point L. H.	33	29.988	29.940	...	...	...	...	...	...	...	...	...	...
Kingston	50	30.001	29.926	71.2	82.1	84.0	68.2	15.8	87	9*	68	4	24
Montego Bay	160	29.999	29.938	69.2	84.1	86.8	68.1	18.7	93.5	13	63.4	4	30.1
Castleton Gardens	496	29.998	29.920	68.7	80.1	81.7	67.8	14.4	85.0	26	63.1	30	21.9
Hope Gardens	600	...	...	65.7	78.2	84.8	69.4	24.4	85	23 & 25	55	28	30
Stony Hill Reftry.	1,400	...	...	65.6	82.3	87.7	63.2	24.5	93	22	59	4	34
Hill Gardens	4,907	25.251	25.219	66.3	77.7	82.7	63.1	19.6	86	30	54	2 & 3	32
Hill Gardens	4,907	25.251	25.219	57.1	64.1	67.4	53.1	14.3	73	12, 31	46	3	27

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.				Rain-fall.	Wind per diem.	Wind: direction (from) and miles per hour.			Amount of Cloud. Lower, Middle, and Upper					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.		3 p.m.		
		°	°	°	°			In.	°	°	°	°	°	°	°	
Morant Point L.H.	8	65.8	83	69.4	66	1.92	NEbN	9.0	NE	11.0	L.	M.	U.	L.	M.	U.
Negril Point L. H.	33	65.8	83	69.4	66	1.89	NE	12.6	Var.	13.3	2.6	2.0	.9	3.5	1.5	.7
Kingston	50	62.7	80	66.6	57	.03	N	3.1	SEbs	5.3	1.5	1.1	1.8	3.4	2.0	.3
Montego Bay	160	65.0	88	83.0	67	.14	E	2.5	ENE	6.3	.9	.2	.8	2.3	1.1	1.6
Castleton Gardens	530	64.8	88	70.0	72	4.67	...	...	...	...	2.1	.3	1.0	.4	1.4	.7
Hope Gardens	600	62.1	90	69.7	67	.92	...	...	...	...	...	...	...	...	...	...
Stony Hill Reftry.	1,400	63.9	92	72.0	83	3.40	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	51.7	80	53.8	82	3.04	SE	...	Ely	...	...	...	...	...	...	...

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 three 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:—

		JANUARY.	
		1898.	Average.
Infantile diseases not otherwise specified	...	28	21
Lung diseases	...	25	19
Fever and Malaria	...	25	10
Dysentery and Diarrhœa	...	10	9
Various	...	67	58
Total	...	155	117

BLUE MOUNTAIN PEAK :—ELEVATION 7,423 FEET.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initial
		Max.	Min.				
1898.		°	°	°	in.		
February 1st	... 7.35 a.m.	66.9	37.8	50	7.25	Misty.	D. W.

RAINFALL FOR JANUARY, 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.	JANUARY, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.
		Amount.	Date.		
	In.	in.	Date.	Days on which .01 or more fell.	in.
Hordley	2.47	1.90	18	7	6.69
Manchioneal P.W.D.	3.26	1.01	5	16	...
Fair Prospect P.W.D.	3.98	2.47	1	11	...
Bath P. W. D.	3.31	1.48	18	16	...
Moore Town P. W. D.	15.93	2.84	5	15	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	6.62	3.74	1	22	10.02
Fellowship P. W. D.	8.43	3.32	1	21	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	15.16	5.16	1	16	...
Cedar Valley P. W. D.	1.72	1.48	1	6	...
Green Vale	...	...	...	...	...
Cinchona Plantation	3.04	2.20	1	8	8.32
Resource	.90	...	...	0	...
Buff Bay P. W. D.	7.32	1.65	1	16	...
Cold Spring	2.67	2.00	1	5	...
Avocat P.W.D.	8.15	4.41	5	10	...
Hardware Gap P.W.D.	3.26	1.30	1	5	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	5.84	1.66	1	14	...

\* Also 29.

NORTH-EASTERN DIVISION, contd.	JANUARY, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.
		Amount.	Date.		
	In.	in.	Date.	Days on which .01 or more fell.	in.
Stony Hill Rfty	.40	.30	2	2	4.31
Castleton Gardens	4.67	2.20	2	5	8.36
Lawrence's Tavern P. W. D.	1.53	1.10	1	3	...
Albany P. W. D.	5.02	1.70	1	13	...
Quebec	...	...	...	...	8.17
Richmond P. W. D.	3.80	2.11	2	8	...
Highgate P. W. D.	...	...	...	...	...
Gayle	2.60	1.45	2	...	8.21
Gayle P. W. D.	3.53	1.45	1	11	...
Rio Hoe	1.29	.93	6	4	6.05
Unity Valley	.10	.03	17	6	5.28
Moneague P.W.D.	.65	.37	6	5	...
Claremont P.W.D.	1.90	.60	5	3	...
Albion	...	...	...	...	5.35
Averham Park	3.03	1.61	1	8	5.64
Ballintoy P.W.D.	.79	.64	1	4	...
Means	2.69	...	...	...	6.99
NORTHERN DIVISION					
Port Maria P.W.D.	6.23	3.01	1	10	7.50
Ocho Rios P.W.D.	4.07	2.25	1	5	...
Drax Hall	2.73	1.16	1	6	7.08
St. Ann's Bay P.W.D.	2.59	1.02	1	10	...
Seville	...	...	...	...	6.01
Richmond Estate	...	...	...	...	6.98
Llandovery	4.10	1.87	1	6	6.19
Brown's Town P.W.D.	3.94	3.20	1	4	...
Dry Harbour P.W.D.	1.95	1.10	6	4	...
Chewmagna P. W. D.	2.00	1.95	1	2	...
Home Castle	4.25	2.40	1	4	5.41
Richmond Pen	2.90	1.90	1	2	4.49
Mahogany Hall	5.18	4.82	1	3	4.30
Brampton Bryan	1.92	.97	1	3	...
Bryan Castle	3.65	1.68	1	4	...
Braco	3.08	2.00	1	3	4.37

NORTHERN DIVISION, contd.	JANUARY, 1898.					NORTHERN DIVISION, contd.	JANUARY, 1898.						
	Total	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.		Total	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.		
		Fall.	Amount.					Date.	Fall.			Amount.	Date.
Arcadia	1.86	.90	1	3	4.93	Harker's Hall P.W.D.	...	...	...	...			
Arcadia Great House	3.20	1.55	1	3	...	Kellits P. W. D.	...	...	...	...			
Harmony Hall	...	...	...	...	3.93	Chapelton P.W.D.	.00	...	...	0			
Lancaster	3.65	2.45	1	3	4.73	Danks Savoy	.15	.15	27	1			
Vale Royal	1.80	.85	6	3	5.09	Mears P.W.D.	.00	...	...	0			
Colohis Pen	1.84	1.20	1	2	2.91	Cave Valley	.58	.58	2	1			
Hyde	2.04	1.52	1	3	5.12	Means	2.02	...	...	...			
Georgia	1.54	1.54	6	1	4.05	WEST CENTRAL DIVISION.	...	...	...	...			
Long Pond	2.87	2.00	1	5	...	Mochos P.W.D.	...	...	...	...			
Steelfield	2.80	1.60	1	2	4.85	Baillieston P.W.D.	.00	...	...	0			
Oxford	1.30	1.30	6	1	4.11	Farm Plantation	.65	.45	7	2			
Cambridge	.70	.60	6	2	5.29	Brookenhurst Pln.	...	...	...	...			
Dry Valley	...	...	...	...	...	Christiania P.W.D.	.75	.00	1	3			
Lottery	1.80	1.00	1	2	4.08	Kendal P.W.D.	.27	.10	14	4			
Hampstead	...	...	...	...	...	Mandeville P.W.D.	.26	.00	15	3			
Falmouth	.63	...	...	...	3.46	Marshall's Pen	...	...	...	...			
Falmouth P.W.D.	1.20	1.20	6	1	...	Ulster Spring P.W.D.	2.35	2.26	2	2			
Fontabelle	2.70	2.10	1	3	...	Troy P.W.D.	.69	.66	1	2			
Martha Brae	...	...	...	...	...	Windsor Pen	1.89	1.66	1	3			
Holland Pen	1.00	.50	4	2	2.98	Balaclava P.W.D.	.09	.09	1	1			
Pembroke	...	...	...	...	3.96	Elim	.00	...	...	0			
Golden Grove	...	...	...	...	2.89	Appleton	1.08	.71	31	4			
Green Park	1.83	.50	1	3	4.19	Maggotty P.W.D.	.61	.19	31	7			
Tilston	...	...	...	...	3.45	Spring Vale	.58	.86	1	2			
Weston Favell	...	...	...	...	3.24	Maroon Town	...	...	...	...			
Orange Valley	...	...	...	...	3.64	Kempshot	3.65	3.62	1	2			
Kent	...	...	...	...	4.35	Kepp	.56	.17	20	9			
Dundee	...	...	...	...	4.07	Kew Park	.00	...	...	0			
Phoenix	1.12	1.12	1	1	3.62	Hazelymph	.34	.34	1	1			
Gale's Valley	...	...	...	...	3.26	King Gate P.W.D.	.40	.40	1	1			
Greenwood	...	...	...	...	3.27	Windsor Forest	...	...	...	...			
Canaan	.06	.06	6	1	...	Chester Castle	...	...	...	...			
Lima	.59	.35	1	2	...	Darliston P.W.D.	.96	.26	7	5			
Content	...	...	...	...	...	Whithorn, P.W.D.	.19	.19	1	1			
Bellfield	1.82	1.10	1	3	...	New Galloway	.23	.23	1	1			
Gullsbro'	...	...	...	...	2.84	Lethe Bridge	.90	.90	1	1			
Tryall	...	...	...	...	...	Means	1.26	...	...	...			
Leogan	...	...	...	...	5.60	SOUTHERN DIVISION.	...	...	...	...			
Success	1.35	1.05	6	3	...	Morant Point L.H. P. W.D.	1.92	.44	19	14			
Cinnamon Hill	.95	.90	6	3	3.04	Morant Bay P.W.D.	1.27	.75	1	6			
Rose Hall	1.01	.96	6	3	3.40	Lyssons	...	...	...	...			
Running Gut	...	...	...	...	9.23	Easington P.W.D.	.31	.15	1	4			
Spring	...	...	...	...	...	Halberstadt	...	...	...	...			
Ironshore	...	...	...	...	2.77	...	...	...	...	...			
Friendship	...	...	...	...	...	...	...	...	...	...			
Providence	...	...	...	...	3.15	...	...	...	...	...			
Montego Bay P.W.D.	.14	.14	5	1	...	...	...	...	...	...			
Catherine Hall	...	...	...	...	3.71	...	...	...	...	...			
Catherine Mount	...	...	...	...	4.04	...	...	...	...	...			
Fairfield	...	...	...	...	3.38	...	...	...	...	...			
Anchovy	...	...	...	...	2.82	...	...	...	...	...			
Round Hill	...	...	...	...	1.98	...	...	...	...	...			
Tryall	...	...	...	...	1.92	...	...	...	...	...			
Sandy Bay P.W.D.	.25	.25	6	1	...	...	...	...	...	...			
Lucea P.W.D.	.23	.10	31	3	...	...	...	...	...	...			
Orange Cove	...	...	...	...	3.08	...	...	...	...	...			
Spring Valley	...	...	...	...	...	...	...	...	...	...			
CENTRAL SUB-DIVISION—	...	...	...	...	...	...	...	...	...	...			
Headworks R.C.C.	.00	...	...	0	2.57	...	...	...	...	...			
Linstead P.W.D.	.00	...	...	0	2.63	...	...	...	...	...			
Point Hill P.W.D.	...	...	...	...	...	...	...	...	...	...			

SOUTHERN. DIVISION, contd.	JANUARY.				Average.
	Total Fall.	1898.			
		Greatest fall in 24 hours.		Days on which fall or more fall.	
		Amount	Date.		
in.	in.			in.	
Bull Bay P.W.D.	.00	...	...	0	...
Gordon Town P.W.D.	1.61	1.49	1	4	...
Hope Gardens	.92	.87	1	2	2.27
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	2.62
King's House	...	...	...	...	1.54
Cavaliers	...	...	...	...	...
Shortwood	1.08	1.03	1	3	...
Monaltrie	.23	.15	10	3	1.64
Halfway-Tree P.W.D.	1.07	.28	1	2	...
Lunatic Asylum	.00	...	...	0	...
Kingston Gardens	.00	...	...	0	...
Public Works Office Kn.	.03	.03	24	1	1.45
Plumb Point L. H.	.08	.08	1	1	1.03
Ferry P. W. D.	.30	.30	1	1	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	.00	...	...	0	1.80
Windsor Park	...	...	...	...	1.50
Hog Hole Pen P.W.D.	.00	...	...	0	2.02
Old Harbour P.W.D.	.54	.44	1	2	2.62
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	.22	.16	1	3	...
Amity Hall	.30	.30	9	1	...
Hermitage	.15	.02	...	6	...
Denbigh	...	...	...	...	1.51
Yarmouth P.W.D.	.00	...	...	0	...
Victoria Town P.W.D.	.44	.40	1	2	...
Stone's Hope	.40	.40	1	1	3.49
Newport P.W.D.	.24	.14	8	2	...
Alligator Pond P.W.D.	.00	...	...	0	...
Southfield P.W.D.	...	...	...	...	...
Potsdam	.07	.05	19	2	2.53
Long Hill	.14	.06	7	3	2.25
Pepper	.00	...	...	0	1.75
Torrington P.W.D.	.59	.32	10	4	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	.21	.14	31	3	...
Holland	...	...	...	...	...
Black River P.W.D.	.64	.54	7	2	...
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	.00	...	...	0	...
Grand Vale	...	...	...	...	...
Peter's Ville	1.09	.43	14	5	...
Mount Edgecombe	1.31	.68	19	5	1.89
Sweet River	1.11	.73	7	3	2.09
Cornwall	...	...	...	...	...
Windsor, Sav.-la-Mar	...	...	...	...	1.97
Sav.-la-Mar P.W.D.	1.71	1.41	20	5	...
Blackheath	...	...	...	...	...
Retreat	.15	.15	7	1	...
Negril Pt. Lighthouse	.39	.55	7	5	...
Means.	.49	...	...	...	2.21

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

	JANUARY.	
	1898.	Average.
	In.	In.
North Eastern Division	2.69	6.99
Northern	2.02	4.27
West Central	1.26	3.28
Southern	.49	2.21
Means	1.62	4.19

The greatest monthly fall, viz., 15.93 ins. was recorded at Moore Town, and no rain was recorded at Resource in the N. E. Div., three places in the Central Sub-division, three places in the West Central, and nine places in the Southern Division.

The greatest fall in 24 hours was 5.16 ins. at Shrewsbury. The greatest number of days on which rain fell at any one place was 22 at Port Antonio. Six stations had in 24 hours falls of between 3 and 5 inches, and one had over five inches in 24 hours.

The mean approximate rainfall as arrived at on the 5th inst., (when a preliminary report on January was issued) was 1.45 inches. This result was obtained from 45 stations with "averages" The results shown in the Comparative Table now published are from 61 such Stations, and show a rainfall for the Island of 1.62 ins., as compared with an average of 4.19 ins.

From the above, it will be seen that the rainfall in January was a little over a third of the average in the North Eastern and West Central Divisions, about half the average in the Northern, and a fifth of the average in the Southern Division. The mean for the Island was a little over a third of the average fall. The Kingston fall was only two per cent. of the average.

The following notes have come to hand:—

*Gayle.*—Very mild, two days' rain. 2nd January, cold, 64°.

*Moneague.*—On 1st January, 1898, at 6 a.m. the temperature was 58°; there were strong Northerly winds for first ten days of the month, very dry, cool and bright.

*St. Ann's Bay.*—Very cold with strong Northerly winds, first week, and dry three weeks to end of month. Average indoor temperature at 7 a.m. 74°, and at 3 p.m. 78°. Bar 7 a.m. 29.993, and at 3 p.m. 29.959. Oorr. to 32° sea-level and gravity 45°.

*Brown's Town.*—Very dry latter part of month.

*Ballintoy.*—No rain has fallen since the 6th inst.

*Fontabelle (Trelawny).* A dry month—only three days' rain, viz.: on the 1st, 2.10 in.; 6th, 1.0 parts; and on the 31st, 50 parts.

*Farm Plantation.*—Very dry and seasonable. Money very scarce and trade dull.

*Mandeville.*—A very dry month, want of water beginning to be felt.

*Elim.*—Not one drop of rain fell this month. Very strong wind every day.

*Copse.*—Very dry, commons parched, and water in ponds getting low.

*Brownsville.*—On the 3rd January, the temperature was 60° all day.

EARTHQUAKES.

The Hon. Thos. Capper reports that he felt a light shock of earthquake at Cassia Grove in St. Andrew at about 6 a.m. on the 20th January, and there was a light shock of earthquake felt in Kingston and at Constant Spring Hotel at 11 19 p.m. on the 22nd lasting about two seconds. (By a mistake in last month's report the time of the earthquake on the 14th December at Cassia Grove and Constant Spring Hotel was put at 8 40 and 8 39 a.m. respectively instead of 7 30 and 7 39.)

NORTHER.

On the 2nd January a strong "Norther" was felt in Kingston and other parts of the Island.

In Kingston the wind commenced to rise between 9 and 10 p.m. on the night of the 1st January after heavy rain in the neighbourhood that afternoon. Although at one time or another the rain was on almost every side, none fell in Kingston itself. The wind for the 24 hours of the 2nd blew at an average velocity of 17 miles per hour. For 9 hours the speed was 19 miles and some of the gusts showed a pressure per square foot of eight pounds, which represents a velocity of 40 miles per hour. The wind continued during the night but gradually subsided; between 10 and 11 a.m. on the 3rd there were 9 miles of wind, after which it died away, there being only 3 miles between 11 a.m. and noon.

Various casualties among the smaller craft on the Northside of the Island were reported in the newspaper press, as well as damage done to banana cultivation in different parts of the Island.

It may be of interest perhaps to draw a few comparisons between the "Norther" of the 2nd January, 1898, and previous ones, in respect of the two points, wind and temperature.

The fall in maximum temperature during the day the wind blows is generally most marked, although the actually lowest temperature generally occurs in the calm or comparatively calm nights following the Norther. On the 2nd January, 1898, the maximum temperature was only 74°.3, twelve degrees below the average maximum for that month. This is with one exception the lowest maximum yet recorded in Kingston, and the exception is only one tenth of a degree lower, viz.: 74°.2 on the 27th December, 1885. The occasions when, during Northers, the maximum temperature for the day was below 80° are the following, viz.:-

74°.2	on the 27th December, 1885
74.8	" 2nd January, 1898
77.8	" 29th December, 1894
78.3	" 28th " 1885
79.2	" 3rd " 1885
79.6	" 11th " 1895

The following is a list of the more or less pronounced Northers since the year 1881:-

- 1882—14th & 15th November. Moderate.
- 1885—25th November. Light.
- " 2nd & 3rd December. Strong.
- " 26th & 27th " Strong.
- 1887—28th & 30th Nov., and 1st Dec. Moderate.
- 1888—25th November. Moderate.
- " 6th, 11th & 21st Dec. All three moderate.
- 1889—29th January. Strong
- " 6th & 23rd December. Light.
- 1890—30th November. Moderate.
- " 2nd, 3rd & 18th December. Light.
- 1892—28th October. Moderate.
- " 29th December. Strong.
- 1894—16th to 20th December. Moderate to strong.
- " 29th December. Strong.
- 1895—11th December. Strong.
- " 13th & 14th December. Strong both days.
- 1898—2nd January. Strong.

This makes eight strong "Northers," some lasting two days, and twelve moderate or light in strength, in seventeen years, an average of a little over one a year.

With regard to low minimum temperatures, if we exclude all those over 65°, we get the following:-

- 1835—Dec. 27th, 61°.8 (at 11 p.m. The minimum reading taken at the usual hour, 7 a.m. on the 27th, being 63°.3); 28th 59°.1; 29th 58°.2.
- 1837—Nov. 29th, 64°.0.
- " Dec. 4th, 56°.7, which is the absolute minimum temperature for Kingston.
- 1868—Nov. 27th, 63°.7.
- 1890—Dec. 2nd, 63°.3.
- 1894—Dec. 17th, 64°.7; 20th, 64°.9; 29th, 63°.5.
- 1895—Although both of the "Northers" in December of this year were "strong," the temperature did not fall as low as 65°. The minimum on

the 12th was 68°.4, and on the 15th 65°.4.\*

1898—January 3rd 65°.0; 4th, 63°.4.

The most noticeable Northers in regard to both wind and temperature are therefore those on the 26th and 27th December, 1885; 29th December, 1894, and 2nd January, 1898; and if we tabulate them we get the following:-

Date.	Temperature.		Wind in Miles.				Barometer—Lowest Reading.
	Max.	Min.	Total.	Average per Hour.	Max. in one Hour.	Number in 24 Hours.	
1885, 26 and 27 Dec.	74.2	63.2	515 in 44 hrs.	12	270	40	29.639
1894, 29 Dec.	77.8	63.6	248 in 18 hrs.	14.17	14	17	29.735
1898, 2 Jan.	74.3	63.4	542 in 38 hrs.	14.19	416	40	29.890

† Estimated.

Thus as regards wind the total number of miles was greater and was recorded in less time on this occasion than in any previous Norther of which we have records, although as regards total December 1885 ran it close, and as regards high average rate per hour December 1894 was not far behind. With regard to the fall of barometer however 1898 does not take anything like the first place. The barometer did not fall by as much as two tenths as low as it did in 1885. We have seen already that in low maximum temperature 1898 was practically as low as any, but as regards low minimum temperature 1898 was not remarkable.

ROBT. JOHNSTON,  
Weather Office, Kingston, 25th Feb., 1898.

NOTE. It appears that in the returns from Castleton (Sept.-Dec. 1897) the barometer was not reduced. After the readings have been reduced to the standards of Kew (-.005) gravity (-.063) and 32° and compared with the Kingston readings the height of Castleton appears to be 496 feet, there being used the following approximate formula.

$$\text{Height} = \left\{ 48727 + 58.3 (T_1 + T_2) \right\} \left\{ \frac{B_1 - B_2}{B_1 + B_2} \right\}$$

After the Castleton readings have been further reduced to sea level the corrected readings for the months in question are as follows:-

	Sep.	Oct.	Nov.	Dec.
7 a.m.	29.932	.887	.926	.970
3 p.m.	29.872	.828	.866	.903

It also appears that in the returns from Cinchona Plantation or Hill Gardens the barometer hitherto has only been reduced to the standard of Kew. In all future readings published both of these barometers (Castleton and Hill Gardens) will be reduced in accordance with the footnote to be found on page 2 of the Weather Report, and are so reduced in this report.

\* Similarly in the case of the strong one on 2nd and 3rd December, 1885, the temperature went down on the morning of the 4th only to 67.5.



No. 223.



JAMAICA

# WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 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.				
1	In. 29.970	In. 29.941	70.5	84.2	85.3	68.8	16.5	61.9	74	67.6	57	0.00	54	N			
2	.956	.895	69.9	82.2	84.9	68.9	16.0	60.9	73	67.1	61	0.07	56	N			
3	30.039	.985	69.8	83.9	86.2	68.2	18.0	65.4	86	70.6	55	0.02	37	N			
4	.027	.968	71.1	82.4	85.9	68.4	17.5	66.3	85	70.0	66	0.00	39	N			
5	29.970	.919	69.6	84.3	86.3	68.5	17.8	62.3	72	69.9	62	0.00	29	N			
6	.938	.899	68.8	80.1	84.9	67.2	17.7	63.1	83	69.9	71	0.28	27	N			
7	.993	.944	67.0	79.7	82.4	63.2	19.2	61.2	82	66.3	61	0.00	35	N			
8	30.022	.957	64.9	81.3	82.5	65.9	18.6	56.6	74	71.9	72	0.00	25	N			
9	29.933	.899	64.2	84.1	85.3	63.4	21.9	56.7	76	60.0	45	0.00	46	N			
10	.960	.890	65.1	83.4	85.6	63.2	22.3	60.0	84	61.7	48	0.00	38	N			
11	30.003	.971	66.0	84.6	85.8	63.2	22.6	68.2	93	65.8	53	0.00	82	N			
12	.014	.961	67.0	84.9	85.8	65.0	20.8	57.2	71	64.4	50	0.00	36	N			
13	29.995	.941	68.1	84.4	85.8	63.8	22.0	58.6	72	63.2	49	0.00	23	N			
14	.977	.923	68.0	80.2	85.3	63.6	21.7	61.0	79	64.4	59	0.00	22	N			
15	.987	.935	70.7	80.4	81.7	69.1	12.6	63.3	77	63.8	57	0.00	30	N			
16	.987	.931	66.6	82.4	84.6	66.1	18.5	59.9	79	64.9	56	0.00	32	N			
17	.980	.913	64.6	82.8	87.3	63.4	23.9	61.3	89	67.0	57	0.00	60	N			
18	.992	.891	63.1	80.6	84.4	66.8	17.6	62.2	82	65.8	61	0.00	81	N			
19	.945	.862	66.3	83.2	86.1	65.8	20.2	58.7	76	67.0	58	0.07	66	N			
20	.942	.888	69.1	82.6	85.4	67.3	18.1	59.7	72	67.1	59	0.00	46	N			
21	.939	.855	67.3	82.4	84.9	67.1	17.8	65.1	81	69.4	66	1.18	33	N			
22	.917	.840	61.4	81.6	82.9	66.2	16.7	65.4	93	69.1	66	0.00	22	N			
23	.929	.862	68.7	82.1	83.7	67.6	16.1	63.9	85	68.6	64	0.04	26	N			
24	.958	.912	69.1	74.8	85.0	67.5	17.5	65.7	89	72.2	92	0.24	20	N			
25	.959	.904	70.5	79.7	83.1	69.2	13.9	64.5	81	68.8	69	0.01	23	N			
26	.963	.869	68.4	82.2	85.2	67.0	18.2	63.7	86	68.8	58	0.00	30	N			
27	.927	.856	69.3	82.8	84.6	68.2	16.4	63.4	82	68.3	63	0.00	26	N			
28	.869	.787	69.6	82.2	83.2	68.2	15.0	64.1	83	67.5	61	0.82	23	N			
Means.	29.970	29.907	68.2	82.2	84.8	66.4	18.4	62.2	81	67.1	61		56.3	N			
Total	...	...	...	...	...	...	...	...	...	...	...	2.66	...	...	2.1	SE	by 4.8



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:—

		FEBRUARY.	
		1898.	Average.
Infantile diseases not otherwise specified	...	26	24
Lung diseases	...	23	14
Fever and Malaria	...	17	8
Dysentery and Diarrhoea	...	11	12
Various (Influenza, 20)	...	66	53
<b>Total</b>	...	<b>145</b>	<b>111</b>

BLUE MOUNTAIN PEAK :—ELEVATION, 7,423 FEET.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initial
		Max.	Min.				
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.

RAINFALL FOR FEBRUARY, 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.	FEBRUARY, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.1 or more fell.	Average.
		Amount.	Date.		
	In.	in.			in.
Hordley	4.94	1.50	15	10	4.42
Mauchioneal P.W.D.	10.24	3.43	6	13	...
Fair Prospect P.W.D.	9.78	2.30	6	16	...
Bath P. W. D.	6.86	2.30	1	12	...
Moore Town P. W. D.	23.72	4.30	23	17	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	13.69	3.40	25	19	5.34
Fellowship P. W. D.	21.47	7.35	26	20	...
Serge Island	...	...	...	...	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	19.37	8.50	26	14	...
Cedar Valley P. W. D.	4.57	2.67	6	12	...
Green Vale	...	...	...	...	...
Cinchona Plantation	4.51	1.10	27	16	3.22
Resource	...	...	...	...	...
Buff Bay P. W. D.	9.83	5.57	26	14	...
Cold Spring	1.59	1.00	25	4	...
Avocat P.W.D.	2.45	.55	24	12	...
Hardware Gap P.W.D.	4.44	1.00	28	10	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	4.35	1.44	26	10	...

NORTH-EASTERN DIVISION, contd.	FEBRUARY, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.1 or more fell.	Average.
		Amount.	Date.		
	In.	in.			in.
Stony Hill Rfty	2.52	1.00	23	7	2.16
Castleton Gardens	1.44	.34	23	15	4.04
Lawrence's Tavern P. W. D.	2.95	2.30	5	3	...
Albany P. W. D.	6.72	2.20	24	11	...
Quebec	...	...	...	...	...
Richmond P. W. D.	1.89	.35	23	10	...
Highgate P. W. D.	...	...	...	...	...
Gayle	4.50	1.25	23	6	5.43
Gayle P. W. D.	3.54	1.20	23	7	...
Rio Hoe	4.75	2.26	5	8	3.64
Unity Valley	5.79	1.53	5	12	3.01
Moneague P.W.D.	4.69	1.41	5	9	...
Claremont P.W.D.	1.65	.65	23	5	...
Albion	2.91	1.42	23	8	3.26
Averham Park	2.47	.76	25	7	3.54
Ballintoy P.W.D.	3.43	1.29	23	7	...
<b>Means</b>	<b>4.75</b>	...	...	...	<b>3.81</b>
<b>NORTHERN DIVISION</b>					
Port Maria P.W.D.	10.97	4.32	26	16	3.95
Ocho Rios P.W.D.	2.40	1.60	2	4	...
Drax Hall	1.76	.75	2	5	3.81
St. Ann's Bay P.W.D.	2.05	.79	2	10	...
Seville	...	...	...	...	...
Richmond Estate	1.77	...	...	7	3.50
Llandoverly	1.48	.62	25	3	3.12
Brown's Town P.W.D.	2.25	1.12	25	7	...
Dry Harbour P.W.D.	.38	.24	24	2	...
Chewmagna P. W. D.	6.11	2.95	4	7	...
Home Castle	.80	.40	23	5	3.34
Richmond Pen	2.20	.85	6	4	1.76
Mahogany Hall	.87	.23	23	5	2.57
Brampton Bryan	.12	.12	24	1	1.56
Bryan Castle	.52	.30	24	2	2.10
Braco	.50	.30	7	3	2.21

NORTHERN DIVISION, contd.	FEBRUARY, 1898.					NORTHERN DIVISION, contd.	FEBRUARY, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell	Average.
		Amount	Date.					Amount.	Date.		
		In.	in.					In.	in.		
Arcadia	.37	.13	2	4	2.41	Harker's Hall P.W.D.	1.66	.55	4*	8	...
Arcadia Great House	.40	.35	25	2	...	Kellits P. W. D.	7.23	2.60	21	11	...
Harmony Hall	...	...	...	...	...	Chapelton P.W.D.	4.68	1.00	21	10	2.14
Lancaster	.77	.16	23	6	2.28	Danks Savoy	3.63	.95	23	11	...
Vale Royal	.28	.16	24	4	2.76	Mears P.W.D.	6.45	1.83	23	12	...
Colchis Pen	.12	.12	23	1	1.12	Cave Valley	5.89	1.96	5	7	2.33
Hyde	1.17	.33	28	6	2.38	Means	1.85	...	...	...	2.27
Georgia	.72	.42	6	2	2.50	WEST CENTRAL DIVISION.					
Long Pond	1.01	.56	24	4	...	Moch P.W.D.	4.95	1.80	24	6	...
Steelfield	1.00	.56	23	4	2.31	Baillieston P.W.D.	7.05	2.64	5	5	...
Oxford	.70	.35	6	3	2.10	Farm Plantation	3.54	1.90	23	7	2.31
Cambridge	.50	.15	6	5	2.43	Brookenhurst Pln.	...	...	...	...	2.65
Dry Valley	...	...	...	...	...	Christiania P.W.D.	...	...	...	...	...
Lottery	.96	.43	5	4	2.10	Kendal P.W.D.	5.82	1.40	23	13	...
Hampstead	...	...	...	...	...	Mandeville P.W.D.	7.27	1.19	23	11	...
Falmouth	2.05	...	...	...	1.41	Marshall's Pen	5.16	1.70	23	10	2.47
Falmouth P.W.D.	2.74	1.68	4	7	...	Ulster Spring P.W.D.	...	...	...	...	2.74
Fontabelle	1.95	.75	4	5	...	Troy P.W.D.	3.06	.83	4	9	...
Martha Brae	...	...	...	...	...	Windsor Pen	7.00	1.50	4	9	...
Holland Pen	1.00	.50	4	2	2.31	Balaclava P.W.D.	3.95	2.18	5	6	1.79
Pembroke	...	...	...	...	1.54	Elim	7.77	1.56	23	12	...
Golden Grove	1.30	...	...	...	1.82	Appleton	12.32	3.73	21	11	...
Green Park	4.10	1.50	5	8	1.75	Maggotty P.W.D.	5.00	1.23	24	11	3.29
Tilston	.65	...	...	...	1.63	Spring Vale	6.46	1.36	24	12	...
Weston Favell	.66	.25	28	4	2.72	Maroon Town	...	...	...	...	2.44
Orange Valley	3.31	...	...	...	2.04	Kempshot	2.41	1.60	5	4	2.05
Kent	3.15	...	...	...	2.46	Kepp	2.83	.92	5	7	2.70
Dundee	1.93	...	...	...	2.03	Kew Park	4.33	.98	3	11	4.42
Phoenix	1.05	...	...	...	2.32	Hazelymph	5.25	1.30	26	10	2.70
Gale's Valley	.00	...	...	...	1.78	King Gate P.W.D.	3.06	.85	24	10	...
Greenwood	...	...	...	...	1.98	Windsor Forest	3.33	1.60	6	3	...
Canaan	1.46	.53	23	6	...	Chester Castle	...	...	...	...	4.32
Lima	1.75	1.00	6	5	...	Darliston P.W.D.	...	...	...	...	2.46
Content	...	...	...	...	2.12	Whithorn, P.W.D.	3.34	1.06	3	13	...
Bellfield	...	...	...	...	2.21	New Galloway	1.24	.64	2	7	...
Guildsbro'	1.95	...	...	...	2.04	Lethe Bridge	.88	.48	2	4	...
Tryall	...	...	...	...	2.11	Copse	...	...	...	...	2.01
Leogan	...	...	...	...	1.84	Cacoon Castle	4.75	1.70	2	7	1.92
Success	2.00	1.00	5	7	1.74	Golden Grove	...	...	...	...	2.86
Cinnamon Hill	1.43	1.00	5	6	1.74	Great Valley	5.75	1.10	2	12	2.31
Rose Hall	.88	.70	5	6	2.04	Brownsville	3.14	.87	2	15	...
Running Gut	...	...	...	...	1.65	George's Plain Estate	...	...	...	...	...
Spring	2.00	...	...	...	1.94	Fontabelle	...	...	...	...	2.79
Ironshore	3.05	...	...	...	2.65	Morgan's Bridge P.W.D.	2.03	.47	2	11	...
Friendship	...	...	...	...	...	King's Valley	4.35	2.00	24	6	1.49
Providence	...	...	...	...	...	Dias	2.86	1.38	2	7	...
Montego Bay P.W.D.	1.68	1.10	3	5	...	Spring Hill	1.41	.39	23	6	...
Catherine Hall	2.00	...	...	...	2.02	Abingdon	...	...	...	...	2.09
Catherine Mount	...	...	...	...	1.66	Means	4.30	...	...	...	2.50
Fairfield	...	...	...	...	1.84	SOUTHERN DIVISION.					
Anchovy	...	...	...	...	1.37	Morant Point L.H. P. W.D.	2.74	.67	7	13	2.26
Round Hill	...	...	...	...	1.09	Morant Bay P.W.D.	.72	.30	20	4	...
Tryall	...	...	...	...	1.06	Lyssons	...	...	...	...	...
Sandy Bay P.W.D.	2.75	1.41	3	4	...	Easington P.W.D.	1.75	1.40	6	6	...
Lucea P.W.D.	4.24	1.79	2	8	...	Halberstadt	...	...	...	...	.84
Orange Cove	...	...	...	...	2.25						
Spring Valley	...	...	...	...	...						

\* Also 28.

SOUTHERN DIVISION, contd.	FEBRUARY.				
	Total Fall.	1898.			Average.
		Greatest fall in 24 hours.		Days on which .51 or more fell.	
		Amount	Date.		
	in.	in.		in.	
Bull Bay P.W.D.	.32	.27	6	2	
Gordon Town P.W.D.	3.62	.74	23	14	
Hope Gardens	2.72	.51	6	9	
Hope Reservoir	...	...	...	...	
Cherry Garden	...	...	...	1.24	
King's House	4.00	2.02	22	8	
Cavaliers	...	...	...	...	
Shortwood	2.40	.53	23	11	
Constant Spring	2.18	.67	1	9	
Monaltrie	3.35	2.62	21	11	
Halfway-Tree P.W.D.	3.15	.30	6	9	
Lunatic Asylum	1.65	.80	21	4	
Kingston Gardens	3.44	2.41	21	10	
Public Works Office E.N.	2.66	1.13	21	3	
Plumb Point L. H.	1.76	1.29	6	4	
Ferry P. W. D.	2.72	1.55	21	7	
Caymanas	...	...	...	...	
Spanish Town P. W. D.	5.41	1.41	21	9	
Windsor Park	...	...	...	1.03	
Hog Hole Pen P.W.D.	6.19	1.45	22	9	
Old Harbour P.W.D.	7.47	1.71	21	11	
Somerset Hall	...	...	...	...	
May Pen P.W.D.	4.82	1.24	25	9	
Amity Hall	1.85	1.25	14	4	
Hermitage	3.91	2.35	22	6	
Denbigh	...	...	...	...	
Yarmouth P.W.D.	3.55	1.16	22	7	
Victoria Town P.W.D.	3.65	1.56	23	7	
Stone's Hope	2.33	.73	23	8	
Newport P.W.D.	3.54	.90	23	8	
Alligator Pond P.W.D.	.61	.31	23	5	
Southfield P.W.D.	.76	.43	21	4	
Potsdam	3.03	1.05	23	8	
Long Hill	6.06	2.54	24	10	
Pepper	9.54	3.95	23	10	
Torrington P.W.D.	3.47	1.65	23	9	
Bethlehem	...	...	...	...	
Santa Cruz P.W.D.	5.49	1.72	21	9	
Holland	...	...	...	...	
Black River P.W.D.	1.40	.57	24	5	
Spring Hill	...	...	...	...	
Whitehall	...	...	...	...	
Font Hill	1.90	...	...	...	
Grand Vale	...	...	...	...	
Peter's Ville	1.05	.40	23	7	
Mount Edgecombe	.92	.35	22	6	
Sweet River	1.28	1.04	2	4	
Cornwall	1.60	.60	23	5	
Windsor, Sav.-la-Mar	...	...	...	2.50	
Sav.-la-Mar P.W.D.	1.44	.86	2	6	
Blackheath	...	...	...	...	
Retreat	3.30	2.16	15	4	
Negril Pt. Lighthouse	.79	.45	2	6	
Means	3.90	...	...	1.74	

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

	FEBRUARY.	
	1898.	Average.
	In.	In.
North Eastern Division	4.75	3.81
Northern "	1.85	2.27
West Central "	4.30	2.50
Southern "	3.90	1.74
Means	3.70	2.58

The greatest monthly fall, viz., 23.72 ins. was recorded at Moore Town, and no rain was recorded at Gales Valley in the N. Division.

The greatest fall in 24 hours was 8.50 ins. at Shrewsbury on the 26th. The greatest number of days on which rain fell at any one place was 20 at Fellowship. Five stations had in 24 hours falls of between 3 and 5 inches, one had between five and seven inches and two had over seven inches in 24 hours.

The mean approximate rainfall as arrived at on the 3rd inst., (when a preliminary report on February was issued) was 3.28 inches. This result was obtained from 35 stations with "averages." The results shown in the Comparative Table now published are from 77 such Stations, and show a rainfall for the Island of 3.70 ins., as compared with an average of 2.58. ins.

From the above it will be seen that the rainfall in February, was one fourth above the average in the N. E. Division and one fifth below in the N. Division, more than two thirds above the average in the W. C. Division, and more than twice the average in the S. Division. The mean for the Island was half as much again as the average. In Kingston the fall was four times the average, but as it was only two per cent. of the average in January the net result for the two months for Kingston shows one third above the average. The mean for the Island for the two months is one fifth below the average.

The following notes have come to hand:—

*Gayle*.—Very seasonable; cold mornings.

*Moneague P. W. D.*.—Rains very partial during month, sometimes heavy showers from Mount Diablo to Unity Valley line and the near district and not reaching Moneague. On 28th 1.38 inches rain fell at Moneague flooding main road.

*St. Ann's Bay P. W. D.*.—Average indoor temperature at 7 a.m. 73° and at 3 p.m. 78°. Bar. 7 a.m. 29.966 and at 3 p.m. 29.933. Corr. to 32°, sea level and gravity 45.°

*Farm*.—The rain on 23rd was a great relief, as water was getting very scarce.

*Mandeville*.—Month very dry up to 21st since that fair showers.

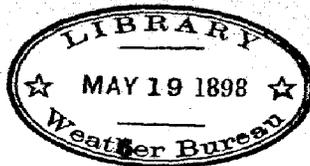
*Windsor Pen.*—Genial showers end of month.

*Elim*.—The first week of the month 1.33 inches rain fell and the last week we had 10.94. Two very heavy rains fell on 21st and 25th, viz.: 3.73 and 3.66.

*Hermitage*.—The fall on the 22nd (2.35 inches) fell between 4.10 and 5.20 p.m.

HAIL.

At King's Valley "there was a hailstorm on the 24th between 12 and 1 p.m. The hailstones were large, being



from  $\frac{1}{8}$  to  $\frac{3}{4}$  in. long many were nearly 1 inch long, and resembled pieces of chipped ice. This is the first hail I have seen in the lowlands."

With respect to this latter point it may be recalled here that the following cases of hail in the lowlands (below 500 ft.) are on record since 1880.

Kingston, 2nd May, 1887. The size of hailstones varied from that of a pea to that of a pigeon's egg.

Near Montego Bay. 27th March, 1890. Size of a pigeon's egg.

Castleton. 7th September, 1894. Size of hailstones not mentioned.

George's Plain. 22nd July, 1895. "Large" size.

Pepper. 21st May, 1896. "Size of marbles."

Bito District, near Bull Bay. 3rd July, 1896.

Middle Quarters and Black River. 15th July, 1896. "Good sized pebbles."

ROBT. JOHNSTONE,

Weather Office, Kingston, 22nd March, 1898.



KINGSTON:—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky)						Weather: Remarks, &c.
	7 a.m.			8 p.m.			
	Lower.	Middle.	Upper.	Lower.	Middle.	Upper.	
1	...	...	...	...	1 Cum.	...	Fine.
2	...	...	1 Cir.	...	1 Cum.	1 Cir. c.	Fine.
3	...	1 Alt. c. 1 Cum.	SE 1 Cir. SE	...	1 Cum.	9 Cir. s.	Fair a.m. Cloudy p.m.
4	3 Str.	1 Cum.	{ 3 Cir. s. 2 Cir.	...	2 Cum SE	8 Cir.	Cloudy.
5	...	1 Cum.	2 Cir. s.	1 Str. c.	2 Cum. SE	4 Cir. s.	Fair a. Cloudy p. m.
6	...	...	{ 2 Cir. 1 Cir.	E 3 Str. c. SE	1 Cum.	5 Cir. s. SE	Fair a.m. Cloudy p. m.
7	1 Str. 8 Str. c.	...	1 Cir. s.	1 Str. 6 Str. c.	SE 2 Cum	1 Cir. s.	Cloudy.
8	...	1 Cum.	...	...	2 Cum. NW	1 Cir. s. W	Fine, R. at 4.37 to 7.4 p.m.
9	...	...	...	...	2 Cum.	1 Cir. SE	Fine R. at 5.36 to 5.58 p.m.
10	4 Str. c.	3 Cum.	1 Cir. s.	...	1 Cum.	...	Cloudy a.m. Fine p.m.
11	...	...	...	6 Str. c.	1 Cum.	2 Cir. s.	Fine a.m. Cloudy p.m.
12	...	...	...	...	1 Cum.	5 Cir. s.	Fine a.m. Cloudy p.m.
13	...	...	...	...	...	2 Cir.	Fine.
14	...	...	...	...	...	1 Cir. s.	Fine.
15	...	1 Cum.	...	...	...	...	Fine.
16	...	1 Cum.	...	...	...	1 Cir.	Fine.
17	...	1 Cum.	E	...	1 Cum. E	1 Cir. NE	Fine.
18	...	1 Cum.	...	...	1 Cum.	...	Fine.
19	...	1 Cum.	...	2 Str. c.	1 Cum.	1 Cir.	Fine a.m. Fair p.m.
20	...	1 Cum. SE	...	...	1 Cum SE	2 Cir. SE	Fine.
21	...	...	1 Cir.	...	1 Cum SE	...	Fine.
22	...	...	1 Cir. s.	...	2 Cum. SE	2 Cir. SE	Fine a.m. Fair p.m.
23	...	2 Alt. c.	...	...	1 Cum. SE	...	Fine.
24	...	...	...	...	2 Cum. SE	2 Cir. SE	Fine.
25	...	...	...	...	1 Cum SE 4 Alt c.	3 Cir. s.	Fine a.m. Cloudy p.m.
26	...	1 Cum.	...	...	3 Cum SE	2 Cir. SE	Fine a.m. Fair p.m.
27	...	1 Cum.	...	...	1 Cum.	...	Fine.
28	2 Str.	2 Cum.	2 Cir. s.	1 Str. c. SE	2 Cum. SE	4 Cir. s. SE	Cloudy.
29	...	1 Cum.	...	...	2 Cum.	1 Cir. s.	Fine.
30	...	...	...	3 Str. e. NE	1 Cum.	5 Cir. s.	Fine a.m. Cloudy p.m.
31	...	1 Cum.	...	...	1 Cum.	1 Cir. SE	Fine.
Means	.6	.7	.6	.7	1.3	2.1	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	8 p.m.	7 a.m.	8 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		In.	In.	°	°	°	°	°	°	°	°	°	°
Morant Point L. H.	8	29.947	29.912	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.964	29.900	78.6	82.8	85.3	69.0	16.3	90	26	64	15, 16	26
Kingston	50	29.962	29.892	69.7	83.7	85.7	67.4	18.3	89.6	29	64.0	14, 15	26.6
Montego Bay	160	29.961	29.896	70.3	80.7	82.4	67.2	15.4	87.0	4	62.9	10	24.1
Castleton Gardens	496	...	...	66.6	79.6	82.4	63.6	18.8	87	3, 4, 23	56	10	31
Hope Gardens	600	...	...	67.1	82.6	86.0	62.3	23.7	88	21*	59	15, 22	29
Stony Hill Recty.	1,400	...	...	67.0	77.6	82.1	68.1	19.0	85	3 & 4	60	1	25
Hill Gardens	4,907	...	...	65.7	63.4	67.1	62.8	14.3	71	15, 24	56	4, 5	15

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.				Rain-fall.	Wind per diem.	Wind: direction (from) and miles per hour.				Amount of Cloud. Lower, Middle, and Upper					
		7 a.m.		8 p.m.				7 a.m.	8 p.m.	7 a.m.			8 p.m.				
		°	%	°	%					L.	M.	U.	L.	M.	U.		
Morant Point L.H.	8	...	...	...	...	0.28	...	NNE	11	NE to N	12	2.5	1.8	.8	2.6	1.5	.7
Negril Point L. H.	33	63.1	83	70.7	67	.09	261.0	NE to E	10.6	Var.	16.5	1.7	1.2	.3	2.8	2.2	.7
Kingston	50	63.5	81	68.0	56	1.31	41.7	N	1.5	SE to S	4.2	.6	.7	.6	.7	1.3	2.1
Montego Bay	160	65.1	84	64.6	58	.66	110.3	E to NE	2.6	NE	9.6	.7	1.4	.7	.0	2.2	.6
Castleton Gardens	496	64.2	89	70.0	70	2.37	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	600	61.7	84	67.0	58	.66	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Recty.	1,400	62.5	86	74.7	91	2.60	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	51.4	85	57.4	80	2.08	61.4	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.

\* Also 29 and 28.

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:—

	MARCH.	
	1898.	Average.
Infantile diseases not otherwise specified	31	32
Lung diseases	29	17
Fever and Malaria	10	7
Dysentery and Diarrhoea	7	15
Various (Influenza, 8)	61	68
<b>Total</b>	<b>138</b>	<b>139</b>

BLUE MOUNTAIN PEAK :—ELEVATION 7,423 FEET.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initial
		Max.	Min.				
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.

RAINFALL FOR MARCH, 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, <i>contd.</i>	MARCH.					
	Total	1898.		Days on which .01 or more fell.	Average.	
		Fall	Greatest fall in 24 hours.			
			Amount			Date
	In.	in.			in.	
Stony Hill Rfty	2.60	1.45	8	3	3.11	
Castleton Gardens	1.83	.60	5	14	4.45	
Lawrence's Tavern P. W. D.	1.20	1.20	8	1	...	
Albany P. W. D.	3.15	1.30	6	5	...	
Quebec	...	...	...	...	...	
Richmond P. W. D.	3.41	1.87	6	6	...	
Highgate P. W. D.	...	...	...	...	...	
Gayle	3.20	2.60	6	2	5.10	
Gayle P. W. D.	3.10	1.40	6	9	...	
Rio Hoe	2.13	.82	7	6	4.63	
Unity Valley	3.07	1.23	8	13	4.28	
Moneagne P.W.D.	2.29	.78	8	9	...	
Claremont P.W.D.	2.21	.90	6	6	...	
Albion	1.17	...	...	6	3.87	
Averham Park	3.49	1.20	8	12	3.20	
Ballintoy P.W.D.	1.04	.37	4	5	...	
<b>Means</b>	<b>2.29</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>4.37</b>	
<b>NORTHERN DIVISION</b>						
Port Maria P.W.D.	2.49	1.59	6	8	3.26	
Ocho Rios P.W.D.	1.57	.80	6	3	...	
Drax Hall	.77	.30	4	4	3.62	
St. Ann's Bay P.W.D.	1.38	.50	5	11	...	
Seville	...	...	...	...	3.78	
Richmond Estate	.98	...	...	7	2.32	
Llandoverly	2.04	.15	7	4	2.35	
Brown's Town P.W.D.	.89	.35	11	6	...	
Dry Harbour P.W.D.	1.28	.58	5*	3	...	
Chewmagna P. W. D.	.85	.25	4	5	...	
Home Castle	1.30	.70	6	5	2.27	
Richmond Pen	.30	.30	7	1	2.15	
Manogony Hall	.80	.48	5	4	1.87	
Brampton Bryan	.92	.24	2*	6	2.00	
Bryan Castle	1.58	.43	6	7	1.84	
Braco	.98	.45	5	4	1.79	

\* Also 29.

\* Also 6.

NORTH-EASTERN DIVISION.	MARCH.					
	Total	1898.		Days on which .01 or more fell.	Average.	
		Fall	Greatest fall in 24 hours.			
			Amount			Date
	In.	in.			in.	
Hordley	1.03	.75	25	7	4.44	
Mauchioneal P.W.D.	2.24	.56	12	14	...	
Fair Prospect P.W.D.	1.86	1.17	11	8	...	
Bath P. W. D.	2.22	.60	28	13	...	
Moore Town P. W. D.	3.11	2.10	4	13	...	
Mt. Ephraim	...	...	...	...	...	
Port Antonio P. W. D.	2.30	.60	2	14	4.28	
Fellowship P. W. D.	4.81	1.48	3	20	...	
Serge Island	...	...	...	...	...	
Coley Estate	...	...	...	...	...	
Burlington	...	...	...	...	...	
Shrewsbury P. W. D.	4.07	.80	19	11	...	
Cedar Valley P. W. D.	.52	.37	2	3	...	
Green Vale	...	...	...	...	...	
Cinchona Plantation	2.08	...	...	...	5.38	
Resource	.15	...	...	...	...	
Buff Bay P. W. D.	2.06	.56	6	15	...	
Cold Spring	1.29	.50	9	5	...	
Avocat P.W.D.	4.81	1.00	28*	12	...	
Hardware Gap P.W.D.	1.30	1.00	9	2	...	
Rose Hill	...	...	...	...	...	
Annotto Bay P. W. D.	.45	.21	6	3	...	

NORTHERN DIVISION, contd.	MARCH, 1898.					NORTHERN DIVISION, contd.	MARCH, 1898.						
	Total	Greatest fall in 24 hours.			Average.		Total	Greatest fall in 24 hours.			Average		
		Fall.	Amount	Date.				Days on which .01 or more fell.	Fall.	Amount		Date.	Days on which .01 or more fell.
Arcadia	.55	.19	28	4	1.75	Harker's Hall P.W.D.	...	...	...	...	...		
Arcadia Great House	.91	.30	27	5	...	Worthy Park	5.32	3.47	8	5	...		
Harmony Hall	...	...	...	...	1.70	Kellits P. W. D.	...	...	...	...	...		
Lancaster	1.20	.25	4	6	2.17	Chapelton P.W.D.	.45	.84	8	8	2.85		
Vale Royal	.68	.22	6	6	2.26	Danks Savoy	...	...	...	...	...		
Colchis Pen	.20	.11	6	2	1.05	Mears P.W.D.	...	...	...	...	...		
Hyde	.77	.17	28	6	2.89	Cave Valley	.00	...	...	0	3.20		
Georgia	.85	.70	7	3	1.98	Means	.93	...	...	...	2.10		
Long Pond	.65	.15	5	7	2.18	WEST CENTRAL DIVISION.	...	...	...	...	...		
Steelfield	.83	.40	7	5	...	Mocho P.W.D.	...	...	...	...	...		
Oxford	1.25	1.00	6	4	1.48	Baillieston P.W.D.	.59	.31	7	2	...		
Cambridge	1.07	.60	6	4	2.18	Farm Plantation	.50	.33	2	2	3.35		
Dry Valley	...	...	...	...	...	Brockenhurst Ph.	...	...	...	...	3.04		
Lottery	.9	.30	6	4	2.02	Christiania P.W.D.	.62	.44	7	2	...		
Hampstead	...	...	...	...	...	Kendal P.W.D.	.20	.10	3	3	...		
Falmouth	1.89	...	...	...	1.80	Mandeville P.W.D.	1.17	.63	30	5	4.76		
Falmouth P.W.D.	.46	.24	29	3	...	Marshall's Pen	...	...	...	...	3.80		
Fontabelle	.90	...	...	...	...	Ulster Spring P.W.D.	.89	.15	7	8	...		
Martha Brae	...	...	...	...	...	Troy P.W.D.	.61	.51	5	2	...		
Holland Pen	1.05	.50	1	3	1.56	Windsor Pen	.32	.16	6	3	1.13		
Pembroke	...	...	...	...	2.00	Balaclava P.W.D.	2.52	2.35	4	2	...		
Golden Grove	.60	...	...	...	2.80	Elim	.31	.31	4	1	...		
Green Park	.67	.23	6	4	2.01	Appleton	1.78	1.30	4	6	4.29		
Tilston	1.05	...	...	...	2.55	Maggotty P.W.D.	2.04	1.37	4	6	...		
Weston Favell	.00	...	...	0	2.06	Spring Vale	.13	.08	26	2	2.84		
Orange Valley	1.5	...	...	...	1.64	Maroon Town	...	...	...	...	3.14		
Kent	.78	...	...	...	1.77	Kempshot	.52	.20	28	3	2.35		
Dundee	1.64	...	...	...	2.18	Kepp	.71	.28	24	5	3.71		
Phoenix	.50	...	...	...	2.14	Kew Park	.00	...	...	0	...		
Gaie's Valley	1.05	...	...	...	2.02	Hazelymph	.08	.08	5	1	...		
Greenwood	...	...	...	...	1.64	King Gate P.W.D.	.59	.59	3	1	...		
Canaan	.27	.16	6	2	...	Windsor Forest	...	...	...	...	4.17		
Lima	.30	.30	3	1	...	Chester Castle	...	...	...	...	...		
Content	...	...	...	...	2.39	Darliston P.W.D.	1.46	1.40	24	2	...		
Bellfield	.79	.40	4	5	...	Whithorn, P.W.D.	1.47	1.41	24	2	...		
Guildsbro'	.52	...	...	...	1.60	New Galloway	1.25	1.25	24	1	...		
Tryall	...	...	...	...	...	Lethe Bridge	.10	.10	5	1	...		
Leogan	...	...	...	...	1.89	Copse	.00	...	...	0	2.55		
Success	.61	.40	7	3	2.30	Cacoon Castle	...	...	...	...	2.35		
Cinnamon Hill	.97	.42	7	4	1.05	Golden Grove	...	...	...	...	3.21		
Rose Hall	1.06	.47	7	6	1.05	Great Valley	.32	.17	5	2	1.98		
Running Gut	...	...	...	...	1.41	Brownsville	.42	.27	25	4	...		
Spring	.95	...	...	...	...	George's Plain Estate	...	...	...	...	...		
Ironshore	1.18	...	...	...	...	Fontabelle	...	...	...	...	3.05		
Friendship	...	...	...	...	1.10	Morgan's Bridge P.W.D.	.37	.23	7	3	...		
Providence	...	...	...	...	...	King's Valley	1.80	1.10	7	4	2.79		
Montego Bay P.W.D.	.56	.29	7	5	...	Dias	3.30	1.87	7	5	...		
Catherine Hall	.15	...	...	...	1.94	Spring Hill	...	...	...	...	...		
Catherine Mount	...	...	...	...	1.66	Abingdon	...	...	...	...	3.41		
Fairfield	...	...	...	...	1.89	Means	.72	...	...	...	2.97		
Anchovy	...	...	...	...	1.67	SOUTHERN DIVISION.	...	...	...	...	...		
Round Hill	...	...	...	...	2.09	Morant Point L.H. P. W.D.	.23	.10	4	4	2.02		
Tryall	...	...	...	...	1.67	Morant Bay P.W.D.	.28	.18	2	2	...		
Sandy Bay P.W.D.	.00	...	...	0	...	Lyssons	...	...	...	...	...		
Lucea P.W.D.	.91	.40	26	6	...	Easington P.W.D.	.19	.11	2	3	...		
Orange Cove	...	...	...	...	2.60	Halberstadt	...	...	...	...	2.27		
Spring Valley	...	...	...	...	...	...	...	...	...	...	...		
CENTRAL SUB-DIVISION—	...	...	...	...	...	...	...	...	...	...	...		
Headworks R.C.C.	1.15	1.15	8	1	3.76	...	...	...	...	...	...		
Linstead P.W.D.	...	...	...	...	2.14	...	...	...	...	...	...		
Point Hill P.W.D.	3.03	2.68	8	3	...	...	...	...	...	...	...		

\* Also 7 and 28.

SOUTHERN. DIVISION. <i>contd.</i>	MARCH.				
	Total Fall.	1898.			
		Greatest fall in 24 hours.		Days on which ,01 or more fell.	Average.
		Amount	Date.		
in.	in.			in.	
Bull Bay P.W.D.	.09	...	...	0	...
Gordon Town P.W.D.	.44	.24	8	4	...
Hope Gardens	.66	.11	8	4	2.36
Hope Reservoir	...	...	...	...	...
Cherry Garden	...	...	...	...	2.66
King's House	...	...	...	...	1.65
Cavaliers	...	...	...	...	...
Shortwood	1.15	.67	8	3	...
Constant Spring	1.23	.87	8	3	...
Monaltrie	1.48	1.22	9	3	1.63
Halfway-Tree P.W.D.	1.40	1.35	8	2	...
Lunatic Asylum	.86	.86	8	1	...
Kingston Gardens	1.17	1.13	8	2	...
Public Works Office Kn.	1.31	1.28	8	2	1.98
Plumb Point L. II.	.42	.42	8	1	1.17
Ferry P. W. D.	1.50	1.50	8	1	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	.87	.61	8	5	2.79
Windsor Park	...	...	...	...	2.21
Hog Hole Pen P.W.D.	.15	.08	1	2	3.11
Old Harbour P.W.D.	1.42	1.01	8	3	2.41
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	1.22	.69	8	4	...
Amity Hall	.20	.20	24	1	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	2.05
Yarmouth P.W.D.	.00	...	...	0	...
Victoria Town P.W.D.	.11	.11	30	1	...
Stone's Hope	.32	.25	8	2	2.90
Newport P.W.D.	.25	.25	3	1	...
Alligator Pond P.W.D.	.76	.76	30	1	...
Southfield P.W.D.	.98	.72	30	3	...
Potsdam	.42	.40	30	2	2.98
Long Hill	1.12	.89	5	4	3.11
Popper	.67	.45	6	3	3.96
Torrington P.W.D.	1.00	.70	30	3	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	1.21	1.13	4	3	3.10
Holland	...	...	...	...	...
Black River P.W.D.	.19	.12	30	3	2.17
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	.90	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	1.08	.70	4	5	...
Mount Edgecombe	.59	.30	4	7	2.77
Sweet River	.40	.20	24	3	3.19
Cornwall	.40	.40	7	1	...
Windsor, Sav.-la-Mar	...	...	...	...	2.93
Sav.-la-Mar P.W.D.	1.33	1.33	7	1	...
Blackheath	...	...	...	...	...
Retreat	.25	.25	7	1	...
Negril Pt. Lighthouse	.09	.09	7	1	...
Means.	.72	...	...	...	2.56

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

	MARCH.	
	1898.	Average.
	In.	In.
North Eastern Division	2.29	4.37
Northern	.93	2.10
West Central	.72	2.97
Southern	.72	2.56
Means	1.16	3.00

The greatest monthly fall, viz., 8.11 ins. was recorded at Moore Town, and no rain was recorded at Weston Favell, Sandy Bay, Cave Valley, Kew Park, Copse, Bull Bay and Yarmouth.

The greatest fall in 24 hours was 2.68 ins. at Point Hill on the 8th, when a general rain fell on the South-side of the island from, say, Kingston to May Pen. The greatest number of days on which rain fell at any one place was 20 at Fellowship. No station had in 24 hours a fall of as much as three inches.

The mean approximate rainfall as arrived at on the 5th inst., (when a preliminary report on March was issued) was 1.19 inches. This result was obtained from 33 stations with "averages." The results shown in the Comparative Table now published are from 78 such Stations, and show a rainfall for the Island of 1.16 ins., as compared with an average of 3.00. ins.

From the above it will be seen that the rainfall in March was about one half the average in the Northern half of the Island (comprising the N. E. and N. Divisions) and about one fourth in the Southern half (comprising the W. C. and S. Divisions), the mean for the whole island being about one third of the average. In Kingston the fall was just about the average so that the fall for Kingston for the first quarter of the year remains a little over the average.

The following notes have come to hand:—  
*Castleton Gardens.*—The driest time for years, not one third of the usual rain.

*Gayle.*—Last three weeks dry—strong wind.  
*Rio Hoc.*—Strong breeze during the whole month.

*Moneague.*—Cool and frequent northers.  
*St. Ann's Bay.*—Bar. at 7 a.m. 29.973 and at 3 p.m. 29.921. Corr. to 32°, sea level and gravity 45° indoor temp. 7 a.m. 74°8 and at 3 p.m. 80°0. Dry and gradually getting warmer.

*Brown's Town.*—Very dry and high winds. Water very scarce in Dry Harbour mountains.

*Farm Plantation.*—Extremely dry, pastures all burnt up.

*Mandeville.*—The few showers that have fallen prevented what threatened to be a disastrous drought.

*Windsor.*—Smallest rainfall for March on record.  
*Elim.*—Very strong breeze the whole month.  
*Lethe Bridge.*—The Great River is very low.

*Copse.*—Dry throughout the month with high winds, Water getting very low in ponds.

*Brownville.*—Last year March the fall was 2.97, thus this year is far below. For the quarter last year there was a fall of 4.21; this year for the quarter a fall of 4.25.

*Cornwall.*—Last year 3.88; severe drought; only 2 inches in three months; very high breezes.

#### HALL.

At Appleton on the 4th March, Mr. Wm. Hill writes that there was a "heavy hailstorm, stones size and shape of almonds with end of sharp point off."

From "Gall's News Letter" it appears that there was a hailstorm at Balaclava on the 25th February last.

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
Total	6.48	9.77

From this it will be seen that the fall for the first quarter of the year was two-thirds of the average.

ROBT. JOHNSTONE.

Weather Office, Kingston, 26th April, 1898.

**CORRIGENDUM**—By a printer's error the whole of the rainfall figures under the West Central Division in February Weather Report as far as Lethe Bridge were misplaced one line e. g. the figures in the same line with Baillieston really are the figures in respect of the station above it, viz, Mocho P.W.D., and so on in each case down to the figures opposite Lethe Bridge, which should have been opposite New Galloway.



No. 225.



JAMAICA

# WEATHER REPORT

FOR THE MONTH OF

APRIL, 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	29.989	29.931	69.2	80.3	84.4	68.3	16.1	61.0	75	73.7	81	0.00	32	N	1	E	1
2	30.012	.935	69.2	82.7	84.9	67.4	17.5	60.9	80	67.8	81	0.00	31	N	3	SE	4
3	29.981	.923	69.4	83.0	86.3	67.6	18.7	63.5	82	66.1	87	0.00	30	Z	0	SE	15
4	.965	.880	70.9	83.7	84.8	67.9	17.5	64.6	81	68.3	80	0.00	112	N	5	SE	12
5	.987	.955	72.4	83.4	83.3	69.9	14.4	65.7	64	69.0	59	0.00	144	N	5	SE	13
6	30.062	.955	72.4	83.4	83.3	69.9	14.4	65.7	73	67.4	59	0.00	99	N	2	SE	2
7	.081	.928	69.8	82.3	83.9	66.8	17.1	64.3	83	69.3	85	0.00	28	N	1	S	2
8	29.964	30.001	71.2	82.1	83.7	68.8	14.9	67.5	88	69.5	85	0.00	30	N	1	S	1
9	30.004	29.973	72.7	79.8	85.9	68.8	20.1	65.9	79	68.9	69	0.00	35	N	1	S	5
10	.055	.976	73.8	83.2	84.1	72.1	12.0	67.1	80	66.3	57	0.04	40	Z	0	SE	9
11	.052	.949	71.8	82.1	85.3	68.7	18.6	66.5	85	68.2	63	0.00	55	N	2	SE	2
12	.039	.952	71.3	82.4	86.3	68.3	18.0	66.9	86	66.2	58	0.00	29	Z	0	SE	5
13	29.928	.860	70.6	83.6	85.6	69.3	16.3	66.7	87	66.6	57	0.00	32	N	1	S	2
14	.922	.850	71.7	82.4	85.0	69.9	15.1	65.7	81	68.9	64	0.00	34	Z	0	S	4
15	.949	.903	71.2	82.7	84.2	69.3	14.9	67.0	87	66.2	58	0.00	28	Z	0	S	2
16	.996	.944	74.9	83.7	84.9	72.2	12.7	68.9	82	67.9	59	0.00	81	Z	0	S	2
17	30.023	.957	71.6	83.5	87.3	70.0	17.3	64.6	79	68.9	62	0.00	29	Z	0	N	2
18	.000	.940	72.9	80.3	87.9	71.3	16.6	65.8	78	68.7	68	0.00	61	Z	0	SE	13
19	29.976	.916	74.0	81.4	86.2	71.1	15.1	65.5	75	70.0	69	0.00	71	Z	0	SE	11
20	.980	.892	73.2	82.7	86.6	69.7	16.9	66.6	80	68.0	61	0.00	63	Z	0	SE	9
21	30.009	.914	73.7	83.2	85.6	70.0	15.6	66.3	78	68.5	61	0.09	53	N	1	SE	6
22	29.992	.901	73.3	82.6	85.7	70.3	15.4	67.8	83	66.5	57	0.02	46	N	1	SE	3
23	.971	.885	72.5	82.4	87.5	69.0	18.5	66.0	80	69.1	64	0.00	79	Z	0	SE	8
24	.947	.900	75.2	83.0	86.2	70.1	16.1	67.1	76	65.0	61	0.00	72	N	1	SE	7
25	30.010	.970	74.8	84.4	86.7	70.0	16.7	65.1	73	69.4	61	0.00	34	Z	0	SE	6
26	.005	.976	74.7	83.7	86.7	70.1	16.6	69.4	83	68.7	61	0.00	34	Z	0	SE	6
27	28.968	.876	78.6	81.5	84.9	72.2	12.7	63.3	72	68.5	65	0.00	39	N	1	SSE	2
28	.894	.832	72.9	82.4	84.9	69.9	15.0	66.0	79	69.4	65	0.06	39	N	1	SE	2
29	.829	.875	75.2	83.4	85.3	70.0	15.3	63.8	78	70.1	64	0.05	84	N	1	SE	8
30	.956	.820	75.1	84.4	88.5	69.9	18.7	66.7	76	70.4	63	0.00	35	N	2	SE	6
Means.	29.987	29.952	73.9	82.7	85.9	69.7	16.2	66.0	79	68.5	62	...	49.5	N	.9	SE	6.0
Total	...	...	...	...	...	...	...	...	...	...	...	0.17	...	...	...	...	...

KINGSTON:—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky)						Weather: Remarks, &c.
	7 a.m.			3 p.m.			
	Lower.	Middle.	Upper.	Lower.	Middle.	Upper.	
1	...	...	7 Cir.	8 Str.	1 Cum.	...	Cloudy.
2	2 Str. c.	1 Alt. c.	3 Cir. s.	...	2 Cum.	...	Cloudy a.m. Fine p.m.
3	...	...	1 Cir.	...	2 Cum.	...	Fine.
4	...	...	...	...	1 Cum SE	...	Fine.
5	...	1 Cum.	...	...	1 Cum. SE	...	Fine.
6	...	...	1 Cir.	...	1 Cum. SE	1 Cir.	Fine.
7	...	...	4 Cir.	...	1 Cum.	8 Cir.	Fair a.m. Cloudy p.m.
8	...	1 Cum.	SE 4 Cir. S. SE	...	...	...	Fair a.m. Fine p.m.
9	{ 1 Str. 8 Str. c.	1 Cum	...	4 Str. c.	1 Cum.	8 Cir. s. SE	Cloudy.
10	4 Str.	1 Cum.	E { 3 Cir. 1 Cir. 2 Cir. c.	5 Str. c.	E 1 Cum.	3 Cir. s.	Cloudy. R. from 8.20 to 9.12 a.m. and from 10.47 to 11.12 a.m. squall from SE at 0.53 p.m.
11	...	1 Cum.	E { 1 Cir. 2 Cir. c.	2 Alt. s.	1 Cum. SE	5 Cir. s.	Fair a.m. Cloudy p.m.
12	...	4 Alt. c.	3 Cir.	1 Str. c.	E 1 Cum	6 Cir.	Cloudy.
13	...	1 Cum.	...	1 Str. c.	1 Cum.	5 Cir. s.	Fine a.m. Cloudy p.m.
14	...	...	2 Cir.	...	1 Cum	8 Cir.	Fine a.m. Cloudy p.m.
15	...	...	7 Cir.	...	1 Cum.	2 Cir.	Cloudy a.m. Fine p.m.
16	...	{ 9 Alt. c. 1 Cum.	...	...	2 Cum.	...	Cloudy a.m. Fine p.m.
17	{ 1 Str. 5 Str. c.	1 Cum.	E 2 Cir.	1 Str.	{ 1 Cum. 4 Alt. c.	3 Cir. s.	Cloudy.
18	...	...	1 Cir.	8 Str. c.	1 Cum.	1 Cir. s.	Fine a.m. Cloudy p.m.
19	...	...	3 Cir.	6 Str. c. NE	1 Cum.	2 Cir. s.	Fair a.m. Cloudy p.m.
20	...	...	...	4 Str. c. SE	1 Cum SE	2 Cir. s. SE	Fine a.m. Cloudy p.m.
21	...	...	...	...	{ 1 Cum. 2 Alt. c.	6 Cir. s.	Fine a.m. Cloudy p.m.
22	...	1 Cum.	1 Cir.	1 Str. c.	2 Cum. SE	6 Cir. s. NE	Fine a.m. Cloudy p.m. R. at 10.7 to 10.18 a.m.
23	...	...	2 Cir.	7 Str. c.	...	...	Fine a.m. Cloudy p.m.
24	...	1 Cum.	3 Cir.	{ 1 Str. 8 Str. c.	...	...	Fair a.m. Cloudy p.m.
25	...	...	1 Cir.	8 Str. c.	...	...	Fine a.m. Cloudy p.m.
26	...	...	1 Cir.	7 Str. c.	...	...	Fine a.m. Cloudy p.m.
27	...	1 Cum.	E 1 Cir.	6 Str. c.	...	...	Fine a.m. Cloudy p.m. R. at 3.55 p.m. heavy R. to N. 6.17 p.m.
28	...	...	{ 4 Cir. 2 Cir. s.	4 Str. c. SE	4 Cum N	...	Fine a.m. Cloudy p.m. R. at 5.30 p.m.
29	1 Str. c. SW	2 Cum. SE	...	5 Str. c.	...	4 Cir. s.	Cloudy a.m. Fair p.m.
30	...	1 Cum. N	...	9 Str. c.	...	...	Fair a.m. Cloudy p.m.
Means	.7	.9	2.0	3.2	1.2	2.2	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure.		Temperature.				Extreme Temperature.					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range
Morant Point L. H.	ft. 8	In. 29.976	In. 29.995	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.975	29.990	76.8	81.2	84.4	71.2	13.9	88	3 & 5	68	11	20
Kingston	50	29.987	29.982	72.9	82.7	85.0	69.7	16.2	88.9	9	67.3	4	21.6
Montego Bay	160	29.975	29.916	72.5	83.0	85.5	68.4	17.1	90.7	5	64.9	1	26.4
Castleton Gardens	496	29.999	29.916	69.1	82.2	86.4	63.2	23.2	91	4 & 5	58	1 & 6	33
Hope Gardens	600	...	...	70.7	82.8	82.9	64.0	18.9	90	6	61	*1	26
Stony Hill Refty.	1,400	...	...	68.7	78.3	83.4	64.6	18.8	87	5	61	1	26
Hill Gardens	4,907	25.237	25.195	69.1	64.1	67.2	54.8	12.4	72	19 & 22	50	1	22

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

Station.	Elevation.	Dewpoint and Humidity.		Rain. fall.	Wind per diem.	Wind: direction (from) and miles per hour.		Amount of Cloud. Lower, Middle, and Upper									
		7 a.m.	3 p.m.			7 a.m.	3 p.m.	7 a.m.			3 p.m.						
Morant Point L.H.	ft. 8	...	...	In. ...	...	...	...	L.	M.	U.	L.	M.	U.				
Negril Point L. H.	33	72.4	86	73.8	79	3.84	205.9	NEBE	4.7	ENE	5.9	3.0	1.6	0.9	2.8	1.8	0.9
Kingston	50	66.0	79	68.5	62	.17	49.5	NEBE	6.3	Var	9.3	1.2	2.2	2.3	5.0	3.2	0.5
Montego Bay	160	67.9	85	69.3	65	1.23	71.3	N	.9	SE	6.0	.7	0.9	2.0	3.2	1.2	2.2
Castleton Gardens	496	65.7	89	77.2	81	7.47	...	ENE	1.7	NE	6.9	.4	1.1	1.8	0.4	6.3	0.0
Hope Gardens	600	62.7	75	68.1	60	1.07	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Refty.	1,400	...	...	...	...	5.32	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	64.5	83	69.3	64	4.25	13.0	E	...	SE	...	Var.	...	...	...	...	...

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.

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 1831-1890:—

		APRIL.	
		1898.	Average.
Infantile diseases not otherwise specified	...	43	27
Lung diseases	...	29	16
Fever and Malaria	...	13	9
Dysentery and Diarrhoea	...	8	15
Various (Influenza, 3)	...	59	55
Total	...	152	122

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observers' Initial
		Max.	Min.				
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.

RAINFALL FOR APRIL, 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.	APRIL, 1898.				
	Total Fall.	Greatest fall in 24 hours.			Average.
		Amount.	Date.	Days on which .01 or more fall.	
Hordley	...	...	...	...	5.58
Manchioneal P.W.D.	2.15	.78	11	14	...
Fair Prospect P.W.D.	2.48	.48	10	16	...
Bath P. W. D.	2.15	.42	18	15	...
Moore Town P. W. D.	9.90	2.62	30	10	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	2.75	.50	10	13	6.87
Fellowship P. W. D.	6.68	1.40	30	17	...
Serge Island P.W.D.	1.73	.40	10	6	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	6.56	3.28	30	13	...
Cedar Valley P. W. D.	2.46	.97	10	5	...
Green Vale	...	...	...	...	...
Cinchona Plantation	4.25	...	...	...	7.17
Resource	...	...	...	...	...
Buff Bay P. W. D.	5.33	3.26	30	12	...
Cold Spring	3.15	1.50	28	10	...
Avocat P.W.D.	7.15	3.44	9	9	...
Hardware Gap P.W.D.	5.21	1.60	28	9	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	3.11	2.02	30	7	...

NORTH-EASTERN DIVISION, contd.	APRIL, 1898.				
	Total Fall.	Greatest fall in 24 hours.			Average.
		Amount.	Date.	Days on which .01 or more fall.	
Stony Hill Rfty	5.32	2.15	28	9	5.30
Castleton Gardens	7.37	2.80	28	11	6.74
Lawrence's Tavern P. W. D.	2.35	1.30	28	5	...
Albany P. W. D.	1.64	.90	28	4	...
Quebec	...	...	...	...	3.36
Richmond P. W. D.	3.47	1.81	27	7	...
Highgate P. W. D.	...	...	...	...	...
Gayle	6.90	3.00	30	6	4.50
Gayle P. W. D.	5.40	2.70	30	6	...
Rio Hoe	6.14	2.10	27	6	4.40
Unity Valley	3.07	3.78	27	11	4.70
Moneague P.W.D.	6.59	2.46	27	6	...
Claremont P.W.D.	4.93	1.10	9	7	...
Albion	6.80	2.61	23	11	4.55
Averham Park	3.46	1.12	9	7	5.13
Ballintoy P.W.D.	5.31	.88	27	11	...
Means	5.67	...	...	...	5.43
NORTHERN DIVISION					
Port Maria P.W.D.	3.65	.90	29	11	2.79
Ocho Rios P.W.D.	1.40	1.00	30	3	...
Drax Hall	2.30	.92	16	3	2.84
St. Ann's Bay P.W.D.	1.82	.58	9	9	...
Seville	...	...	...	...	2.56
Richmond Estate	2.33	...	...	6	2.75
Llandoverly	2.46	.93	9	4	2.76
Brown's Town P.W.D.	3.06	1.95	9	7	...
Dry Harbour P.W.D.	1.71	.59	14	6	...
Chewmagna P. W. D.	4.68	1.08	27	14	...
Home Castle	5.24	1.10	9	5	2.37
Richmond Pen	5.55	1.20	27	7	4.15
Mahogany Hall	4.74	1.73	9	9	3.37
Brampton Bryan	2.32	.75	10	6	...
Bryan Castle	1.84	.58	9	6	...
Braco	1.84	.63	14	5	2.32

NORTHERN DIVISION, contd.	APRIL, 1898.					NORTHERN DIVISION, contd.	APRIL, 1898.				
	Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.
		Amount	Date.					Amount.	Date.		
Arcadia	2.02	.65	14	7	...	Harker's Hall P.W.D.	5.23	2.00	28	11	...
Arcadia Great House	3.34	1.30	14	6	...	Worthy Park	6.15	2.75	27	6	...
Harmony Hall	...	...	...	...	1.91	Kellits P. W. D.	6.39	2.66	28	10	...
Lancaster	2.98	1.06	14	4	2.26	Chapelton P.W.D.	3.54	1.41	27	5	3.18
Vale Royal	3.03	.78	15	7	2.67	Danks Savoy	2.19	1.00	27	4	...
Colchis Pen	2.61	.70	10	9	3.02	Mears P.W.D.	...	...	...	...	...
Hyde	4.12	1.76	9	9	2.85	Cave Valley	2.92	1.45	27	5	5.40
Georgia	3.82	1.27	15	5	...	Means	3.00	...	...	...	2.70
Long Pond	3.55	.85	10	7	...	WEST CENTRAL DIVISION.					
Steelfield	...	...	...	...	2.26	Moch P.W.D.	...	...	...	...	...
Oxford	2.60	.85	10	7	1.95	Baillieston P.W.D.	4.86	1.32	27	7	...
Cambridge	2.70	.80	9	4	2.57	Farm Plantation	2.41	1.20	25	6	4.05
Dry Valley	...	...	...	...	...	Brookhurst Pld.	...	...	...	...	6.06
Lottery	2.71	1.15	27	4	2.00	Christiana P.W.D.	4.31	2.30	13	10	...
Hampstead	...	...	...	...	...	Kendal P.W.D.	4.67	2.64	26	7	...
Falmouth	3.78	...	...	...	2.04	Mandeville P.W.D.	6.32	2.64	28	9	3.98
Falmouth P.W.D.	2.48	1.31	27	5	...	Marshall's Pen	...	...	...	...	5.44
Fontabelle	5.50	2.15	27	11	...	Ulster Spring P.W.D.	7.24	1.50	27	12	...
Martha Brae	...	...	...	...	...	Troy P.W.D.	6.79	2.14	30	9	6.79
Holland Pen	4.03	2.40	27	5	2.41	Windsor Pen	3.42	.93	14	10	...
Pembroke	...	...	...	...	2.71	Balaclava P.W.D.	8.05	3.07	22	9	...
Golden Grove	5.70	...	...	...	2.30	Elim	8.96	2.97	26	5	...
Green Park	2.29	1.34	14	5	1.63	Appleton	9.27	1.90	30	12	9.70
Tilston	3.00	...	...	...	2.36	Maggotty P.W.D.	10.46	2.79	22	19	...
Weston Favell	4.60	.95	14	9	3.48	Spring Vale	5.15	2.40	14	7	4.82
Orange Valley	2.05	...	...	...	1.75	Maroon Town	...	...	...	...	7.93
Kent	1.30	...	...	...	2.02	Kempshot	4.96	1.50	24	8	4.81
Dundee	1.62	...	...	...	1.86	Kepp	11.81	2.25	26	18	9.83
Phoenix	3.47	...	...	...	4.51	Kew Park	7.01	1.35	17	13	8.61
Gale's Valley	4.00	...	...	...	2.51	Hazelymph	6.97	1.64	24	11	...
Greenwood	...	...	...	...	1.61	King Gate P.W.D.	2.39	.90	24	7	...
Canaan	4.14	1.25	24	8	...	Windsor Forest	...	...	...	...	10.10
Lima	.82	.22	8	5	...	Chester Castle	...	...	...	...	7.35
Content	...	...	...	...	...	Darliston P.W.D.	8.18	1.46	30	20	...
Bellfield	1.42	.50	10	5	...	Whithorn, P.W.D.	7.81	1.46	25	17	...
Gaillsbro'	2.66	...	...	...	3.27	New Galloway	8.05	1.54	11	10	...
Tryall	...	...	...	...	...	Lethe Bridge	5.80	1.25	24	11	...
Leogan	...	...	...	...	2.57	Copse	6.47	1.80	25	14	5.81
Success	1.90	1.20	14	4	...	Cacon Castle	7.42	2.72	24	13	5.28
Cinnamon Hill	.70	.20	14	5	1.49	Golden Grove	...	...	...	...	9.05
Rose Hall	1.00	.24	14	5	1.43	Great Valley	...	...	...	...	9.23
Running Gut	...	...	...	...	1.77	Brownsville	9.56	1.39	29	16	...
Spring	.65	...	...	...	...	George's Plain Estate	...	...	...	...	...
Ironshore	.64	...	...	...	2.65	Fontabelle	...	...	...	...	5.22
Friendship	...	...	...	...	...	Morgan's Bridge P.W.D.	4.92	1.06	11	16	...
Providence	...	...	...	...	2.97	King's Valley	3.11	.95	10	11	5.08
Montego Bay P.W.D.	1.23	.43	24	6	...	Dias	7.59	2.60	25	12	...
Catherine Hall	6.35	...	...	...	2.93	Spring Hill	5.17	1.41	26	11	...
Catherine Mount	...	...	...	...	2.93	Abingdon	...	...	...	...	5.62
Fairfield	...	...	...	...	3.16	Means	6.76	...	...	...	6.37
Anchovy	...	...	...	...	3.44	SOUTHERN DIVISION.					
Round Hill	...	...	...	...	2.26	Morant Point L.H. P. W.D.	1.36	.32	19	10	2.97
Tryall	...	...	...	...	3.03	Morant Bay P.W.D.	1.95	1.20	28	4	...
Saady Bay P.W.D.	3.50	1.10	24	5	...	Lyssons	...	...	...	...	...
Lucea P.W.D.	4.33	1.18	20	10	...	Easington P.W.D.	.92	.34	28	7	...
Orange Cove	...	...	...	...	3.68	Halberstadt	...	...	...	...	...
Spring Valley	...	...	...	...	...						
CENTRAL SUB-DIVISION—											
Headworks R.C.C.	2.17	1.22	28	7	3.47						
Linstead P.W.D.	...	...	...	...	5.16						
Point Hill P.W.D.	5.19	1.90	27	8	...						

SOUTHERN. DIVISION, contd.	APRIL.				
	Total Fall.	1898.			Average.
		Greatest fall in 24 hours.		Days on which .01 or more fell.	
		Amount.	Date.		
in.	in.			in.	
Bull Bay P.W.D.	.46	.25	11	2	...
Gordon Town P.W.D.	.73	.61	28	4	...
Hope Gardens	1.07	...	...	...	2.45
Hope Reservoir	...	...	...	...	2.45
Cherry Garden	...	...	...	...	3.53
King's House	1.56	1.10	28	3	2.72
Cavaliers	...	...	...	...	...
Shortwood	1.48	.47	28	8	...
Constant Spring	1.27	.53	28	7	...
Monaltrie	.42	.24	28	5	1.42
Halfway-Tree P.W.D.	.87	.49	28	4	...
Lunatic Asylum	.28	.10	28	3	...
Kingston Gardens	.12	.08	28	2	...
Public Works Office Kn.	.17	...	...	...	1.08
Plumb Point L. H.	.34	...	...	...	1.69
Ferry P. W. D.	.60	.45	28	2	...
Caymanas	1.47	.88	28	3	2.07
Spanish Town P. W. D.	2.94	1.75	28	2	2.85
Windsor Park	...	...	...	...	3.06
Hog Hole Pen P.W.D.	2.64	2.36	28	2	3.33
Old Harbour P.W.D.	3.94	1.50	28	6	2.09
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	2.70	1.15	28	6	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	2.11
Yarmouth P.W.D.	3.62	3.00	28	4	...
Victoria Town P.W.D.	2.24	1.18	27	4	...
Stone's Hope	1.30	.54	26	7	4.44
Newport P.W.D.	2.33	.98	26	8	...
Alligator Pond P.W.D.	.41	.25	10	2	...
Southfield P.W.D.	.73	.50	26	2	...
Potsdam	1.67	.75	28	7	5.30
Long Hill	3.24	1.79	26	6	8.92
Pepper	3.42	2.85	26	6	8.02
Torrington P.W.D.	3.62	1.70	28	7	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	3.96	2.32	26	10	...
Holland	...	...	...	...	...
Black River P.W.D.	1.53	.77	26	7	4.09
Spring Hill	...	...	...	...	...
Whitehall	...	...	...	...	...
Font Hill	...	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	3.76	.85	30	11	...
Mount Edgecombe	4.90	1.69	26	13	4.29
Sweet River	6.37	.99	30	13	4.92
Cornwall	5.90	1.35	11	11	...
Windsor, Sav.-la-Mar	4.97	1.59	30	13	4.96
Sav.-la-Mar P.W.D.	5.19	1.66	30	11	...
Blackheath	...	...	...	...	...
Retreat	7.33	3.05	11	8	...
Negril Pt. Lighthouse	3.84	1.10	11	12	...
Means.	2.35	...	...	...	3.77

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

	APRIL.	
	1898.	Average.
	In.	In.
North Eastern Division	5.67	5.48
Northern	3.00	2.70
West Central	6.76	6.37
Southern	2.35	3.77
Means	4.44	4.58

The greatest monthly fall, viz., 11.81 ins. was recorded at Kepp, and the least fall, viz.: 0.12, was recorded at Kingston Gardens.

The greatest fall in 24 hours was 3.78 ins. at Unity Valley on the 27th. The greatest number of days on which rain fell at any one place was 20 at Darliston. Eight stations had in 24 hours falls between three and five inches.

The mean approximate rainfall as arrived at on the 5th inst., (when a preliminary report on April was issued) was 4.42 inches. This result was obtained from 43 stations with "averages." The results shown in the Comparative Table now published are from 69 such Stations, and show a rainfall for the Island of 4.44 ins., as compared with an average of 4.58. ins.

From the above it will be seen that in the N. E., N. and W. C. Divisions the rain was above the average, while in the Southern Division it was only two-thirds of the average: the mean for the island was about the average. In Kingston the fall was only a sixth of the average, so that the total for Kingston for the four months of this year is a little less than the average (4.17 as compared with 4.57).

The following notes have come to hand:—  
*Monaeague.*—Intensely hot and close in the day time but cool at nights. Quite dry till 9th and 10th, then two nice showers fell, then dry till 27th and 28th, when two heavy rains fell accompanied with thunder and lightning.

*St. Ann's Bay.*—Bar. at 7 a.m. 29.977 and at 3 p.m. 29.926. Corr. to 32°, sea level and gravity 45° indoor temp. 7 a.m. 76° and at 3 p.m. 82°.

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
Total	10.92	14.35

There was thus a deficiency of three and a half inches, or in other words, the fall for the island was one-fourth less than the average for the first four months.

NEGRIL POINT LIGHT-HOUSE.

Instrumental Corrections.

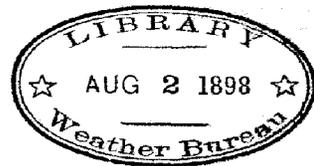
The correction of the barometer to the Kew Standard was found by Mr. Renwick and Mr. Brownhill, June 6th, 1897. The corrections to the thermometers were found by Mr. Maxwell Hall, April 30th, 1898. They are here given for future reference:—

Bar. No. 2141	+	0.012
Dry bulb No. 75555	-	0°.4
Wet bulb No. 75556	-	0.4
Max. No. 88746	-	0.1
Min. No. 82501	-	0.1

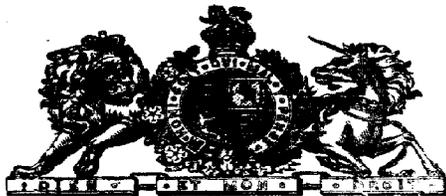
The corr. to the Bar. was applied from the commencement of the Register; the corrections to the Therms. were applied from May 1st, 1898.

ROBT. JOHNSTONE.

Weather Office, Kingston, 31st May, 1898.



No. 226.



JAMAICA

# WEATHER REPORT

FOR THE MONTH OF

MAY, 1898.

KINGSTON :—METEOROLOGICAL OBSERVATIONS.

Elevation above Sea-level 50 feet.

Day.	Bar. Pressure.		Temperature.					Dew Point and Humidity.			Rainfall.	Wind per diam.	Wind: Direction (from) and miles per hour.				
	7 a.m.	3 p.m.	7 a.m.	8 p.m.	Max.	Min.	Range.	7 a.m.	3 p.m.	7 a.m.			3 p.m.				
	In.	In.	°	°	°	°	°	°	°	°	In.	Miles					
1	29.971	29.902	79.5	82.6	87.8	72.1	15.7	71.6	77	72.4	71	0.17	15	Z	0	SE	4
2	.965	.922	75.3	80.6	85.7	71.8	13.9	68.7	80	74.9	88	0.02	15	N	1	SE	2
3	.941	.878	77.1	84.2	86.7	71.2	15.5	70.5	81	71.2	65	0.00	21	N	1	SE	5
4	.921	.871	76.0	82.4	87.7	72.1	15.6	71.4	85	70.9	67	0.00	14	N	1	N	3
5	.917	.872	76.5	86.1	89.1	71.9	17.2	68.2	76	70.6	60	0.00	27	N	3	N	2
6	.952	.900	77.3	84.4	85.7	71.0	15.6	69.3	76	70.7	60	0.00	24	N	2	SE	7
7	.928	.868	73.7	81.7	86.6	71.0	15.6	64.2	72	72.1	67	0.00	75	N	2	SSE	8
8	.918	.891	73.9	83.9	85.7	70.8	15.6	68.9	84	71.1	66	0.00	24	N	0	S	5
9	.892	.844	77.1	85.1	86.9	70.7	18.2	72.0	84	70.0	67	0.05	25	N	1	S	2
10	.910	.849	78.4	85.0	86.4	73.8	14.6	71.5	80	72.6	71	0.00	62	N	2	SE	6
11	.924	.857	78.4	85.1	86.8	72.2	14.1	69.2	78	70.6	62	0.00	129	N	3	SE	13
12	.906	.843	78.8	85.4	86.3	71.8	14.5	66.8	69	73.5	68	0.00	110	NE	2	SE	12
13	.912	.839	77.2	83.5	87.3	70.6	16.7	69.5	77	72.0	69	0.00	48	N	1	SE	4
14	.891	.803	78.7	86.8	87.3	72.2	15.1	70.4	76	74.2	66	0.00	42	N	1	SE	4
15	.919	.901	79.7	85.3	88.1	72.4	15.7	71.1	75	71.8	64	0.00	68	N	1	SE	12
16	30.001	.932	76.2	84.8	87.3	72.0	15.3	68.7	78	73.9	70	0.00	96	N	1	SE	2
17	29.968	.923	77.2	81.6	85.2	75.8	9.4	68.9	76	71.7	72	0.00	15	N	1	N	4
18	.954	.880	74.8	83.7	85.2	73.3	11.9	71.0	88	72.7	68	0.00	26	N	1	ESE	4
19	.953	.876	78.1	85.3	86.9	73.4	13.5	69.5	75	63.1	48	0.00	96	N	0	SSE	12
20	.966	.925	77.1	87.3	88.3	72.3	16.0	68.1	74	60.1	50	0.00	75	N	1	SE	7
21	.970	.927	77.7	85.1	86.3	71.0	15.3	70.1	77	72.4	66	0.00	78	N	1	S	4
22	.929	.910	77.7	85.0	85.8	73.1	12.7	71.7	82	71.1	63	0.00	37	N	0	SE	4
23	.873	.813	77.1	81.4	84.9	73.0	11.9	72.5	86	71.3	72	0.42	38	N	0	SE	3
24	.836	.802	75.4	77.1	77.4	70.2	7.2	72.1	90	72.3	86	2.03	6	N	0	SW	2
25	.789	.717	76.7	76.5	78.2	75.0	3.6	74.8	94	75.1	86	0.00	70	Z	4	SW	3
26	.739	.731	76.7	80.2	82.6	74.0	7.6	75.5	94	74.0	81	0.90	43	Z	0	SW	2
27	.861	.832	77.2	83.8	84.3	73.2	11.1	74.3	91	72.8	70	0.01	5	Z	0	S	3
28	.930	.895	77.8	85.5	86.3	74.4	11.9	75.1	91	73.0	64	0.00	7	Z	0	S	3
29	.957	.935	78.5	86.4	87.3	73.3	14.0	71.4	79	73.0	85	0.00	19	N	1	S	3
30	.949	.888	77.3	85.2	87.9	74.1	13.8	70.2	74	72.7	66	0.00	21	N	1	SE	6
31	.912	.865	79.7	81.8	86.9	73.8	13.1	72.3	79	72.8	73	0.00	16	N	1	N	1
Means.	29.917	29.867	77.1	83.6	86.0	72.4	13.6	70.6	81	71.9	69		43.4	N	1.1	SE	5.3
Total	...	...	...	...	...	...	...	...	...	...	...	9.66	...	...	...	...	...

KINGSTON:—METEOROLOGICAL OBSERVATIONS.

Day.	Clouds (in tenths of the sky)						Weather: Remarks, &c.
	7 a.m.			3 p.m.			
	Lower.	Middle.	Upper.	Lower.	Middle.	Upper.	
1	...	6 Alt. c.	...	{ 5 Str.	...	...	Cloudy T. to W. at 1.40 p.m. R. at 3.6 to 4.12 p.m.
2	...	2 Cum.	E 3 Cir. s.	{ 4 Str. c.	...	...	Fair a.m. Cloudy p.m. Showers between 11 & 12 & about 3 p.m.
3	...	...	...	{ 5 Str. c.	...	...	Fine a.m. Cloudy p.m.
4	...	...	...	{ 4 Nim.	...	...	Fine a.m. Cloudy p.m.
5	...	...	...	9 Str. c.	...	...	Fine a.m. Fair p.m.
6	...	...	...	9 Str. c.	...	...	Fine a.m. Cloudy p.m.
7	...	...	...	4 Str. c.	SE	3 Cum. SE	Fine.
8	...	...	...	...	...	1 Cum. SE	Fine.
9	...	1 Cum.	SE	...	...	1 Cum. SE	Fine.
10	...	1 Cum.	...	3 Cir. s.	SE	1 Cum. SE	Fine a.m. Fair p.m. R. at 6.56 to 7.21 p.m.
11	...	1 Cum.	1 Cir.	3 Str. c.	SE	1 Cum. SE	Fine a.m. Cloudy p.m.
12	...	1 Cum.	SE	...	...	1 Cum. SE	Fine.
13	...	1 Cum.	...	...	...	1 Cum. SE	Fine.
14	...	1 Cum.	2 Cir.	...	...	1 Cum. SE	Fine.
15	...	...	1 Cir.	...	...	2 Cum. SE	Fine.
16	...	...	7 Cir.	...	...	2 Cum. SE	Cloudy.
17	3 Str.	1 Cum.	6 Cir. s.	{ 5 Str.	...	1 Cum. SE	Cloudy. R. from 12.4 to 12.52 p.m. R. at 7.7 to 7.23 p.m.
18	{ 3 Alt. Str.	1 Cum.	3 Cir. s.	{ 4 Str. c.	...	3 Cum. SE	Cloudy.
19	...	1 Cum.	7 Cir.	...	...	3 Cum. SE	Fair a.m. Cloudy p.m.
20	...	1 Cum.	E 6 Cir.	...	...	3 Cir. SE	Fine a.m. Cloudy p.m. T. to N. at 6.12 p.m.
21	...	...	2 Cir.	...	...	{ 3 Alt. c.	...
22	...	1 Cum.	E 7 Cir.	3 Str. c.	SE	1 Cum. SE	Cloudy.
23	...	...	9 Cir. s.	5 Str. c.	SE	5 Alt. s.	Cloudy. R. at 5.43 to 7.8 p.m.
24	9 Alt. s.	1 Cum.	...	{ 2 Str.	...	1 Cum.	Cloudy. R. during early morning & at 8 a.m. to 1.52 p.m. T. to N. at 12.23 p.m. R. at 3.33 to 5.57 p.m. R. at 8.37 p.m. and during the night.
25	{ 4 Alt. s.	1 Cum.	SE	{ 2 Str. c.	SW	...	R. at 6.9. to 7.15 a.m. and from 7.44 a.m. to 2.30 p.m. T. & L. to S.E. at 8.33 a.m. & during the day; squall from S.W. at 12.23 & 1.16 p.m. R. at 3.53 p.m. with intervals to midnight.
26	3 Str. c. SW	2 Cum.	SW 2 Cir. s. SW	1 Str. c.	SW	5 Cum. SW	Cloudy. R. during early morning to 5.23 a.m. R. at 8.4 to 8.11 a.m. & at intervals during the day to 3 p.m.
27	...	1 Cum.	6 Cir. s.	...	...	1 Cum.	Cloudy a.m. Fair p.m. R. at 10.39 to 10.50 a.m.
28	...	1 Cum.	1 Cir.	...	...	2 Cum.	Fine a.m. Fair p.m.
29	...	...	1 Cir.	...	...	1 Cum.	Fine.
30	...	...	1 Cir.	{ 4 Str. c.	SE	2 Cum.	Cloudy.
31	...	...	2 Cir.	{ 3 Str.	...	...	Fine a.m. Cloudy p.m.
				{ 6 Str. c.	...	...	
				{ 1 Str.	...	...	
Means	0.9	0.8	2.2	3.1	1.6	1.9	

JAMAICA METEOROLOGICAL RESULTS.

Station.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		In.	In.	°	°	°	°	°	°	°	°	°	°
Morant Point L. H.	8	29.914	29.867	...	...	...	...	...	...	...	...	...	...
Negril Point L. H.	33	29.910	29.873	78.2	83.1	86.1	73.0	13.1	88.6	4	67.9	5	20.9
Kingston	50	29.917	29.867	77.1	83.6	86.0	72.4	13.6	89.1	5	69.2	7	19.9
Montego Bay	160	29.900	29.852	75.4	83.0	85.8	70.7	15.1	89.9	11	65.9	5	24.0
Castleton Gardens	496	29.900	29.853	73.1	81.6	83.8	66.3	17.5	90	12*	63	4†	27
Hope Gardens	600	...	...	74.2	82.0	83.6	67.9	18.7	92	13	59	9	33
Stony Hill Reffy	1,400	...	...	71.7	77.0	82.6	66.8	15.8	87	16	65	5†	22
Hill Gardens	4,907	25.203	25.176	61.4	65.0	68.2	57.5	10.7	72	15, 20	55	4‡	17

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.				Rain. fall.	Wind per diem.	Wind: direction (from) and miles per hour.				Amount of Cloud. Lower, Middle, and Upper					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
		°	°	°	°			In.	°	°	°	°	L.	M.	U.	L.	M.
Morant Point L.H.	8	...	...	...	...	15.93	...	ENE	5.2	NEbE	7.2	L.	M.	U.	L.	M.	U.
Negril Point L. H.	33	71.7	81	73.0	72	10.39	242.3	NE	9.5	Var	13.7	3.5	1.9	1.1	3.7	1.6	0.9
Kingston	50	70.7	81	71.8	69	9.66	43.4	N	1.0	SEbS	5.3	1.7	2.2	2.5	3.5	4.2	1.0
Montego Bay	160	70.8	86	73.1	72	13.56	55.1	NE	2.2	N	5.4	0.9	0.8	2.2	3.2	1.6	1.9
Castleton Gardens	496	69.4	86	73.8	78	23.60	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	600	69.0	84	71.4	69	15.74	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reffy	1,400	69.3	92	73.6	89	21.21	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.0	80	62.0	85	44.31	23.5	E	...	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.

\* And 3 other days.

† and 4 other days.

‡ and 6 other days.

§ and 8 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:—

	MAY.	
	1898.	Average.
Infantile diseases not otherwise specified	44	22
Lung diseases	20	15
Fever and Malaria	9	8
Dysentery and Diarrhoea	16	14
Various (Influenza, I)	65	60
Total	154	119

BLUE MOUNTAIN PEAK:—ELEVATION 7,423 FEET.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observers' Initial
		Max.	Min.				
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.

RAINFALL FOR MAY, 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.	MAY.				
	Total Fall.	1898.			Average.
		Greatest fall in 24 hours.	Amount.	Date.	
		in.	Days on which .01 or more fell.	in.	
Hordley	16.14	8.55	25	7	16.69
Manchioneal P.W.D.	18.94	7.83	26	21	...
Fair Prospect P.W.D.	20.77	6.14	25	17	...
Bath P. W. D.	19.94	10.65	25	14	...
Moore Town P. W. D.	34.93	8.72	25	16	...
Mt. Ephraim	...	...	...	...	...
Port Antonio P. W. D.	26.20	10.50*	9	17	20.65
Fellowship P. W. D.	29.54	11.92*	10	17	...
Sorge Island P.W.D.	16.21	10.60	25	8	...
Coley Estate	...	...	...	...	...
Burlington	...	...	...	...	...
Shrewsbury P. W. D.	22.70	7.40	2	16	...
Cedar Valley P. W. D.	28.16	17.85	25	12	...
Green Vale	...	...	...	...	...
Cinchona Plantation	44.31	28.66	25	17	10.27
Resource	...	...	...	...	...
Buff Bay P. W. D.	11.28	3.75	24	22	...
Cold Spring	26.44	13.00*	25	16	...
Avocat P.W.D.	23.20	6.72	25	17	...
Hardware Gap P.W.D.	26.40	11.00	25	13	...
Rose Hill	...	...	...	...	...
Annotto Bay P. W. D.	15.17	6.80	25	17	...

\* Gauge overflowed.

NORTH-EASTERN DIVISION, contd.	MAY.				
	Total Fall.	1898.			Average.
		Greatest fall in 24 hours.	Amount.	Date.	
		in.	Days on which .01 or more fell.	in.	
Stony Hill Rfty	21.21	7.40	25	17	10.10
Stony Hill P. W. D.	20.91	7.40	25	16	...
Castleton Gardens	23.60	7.50	25	22	12.90
Lawrence Tavern PWD	19.16	7.37	25	18	...
Albany P. W. D.	17.91	4.75	24	18	...
Quebec	...	...	...	...	7.72
Richmond P. W. D.	16.37	5.72	25	18	...
Highgate P. W. D.	...	...	...	...	...
Gayle	15.20	5.50	24	11	8.98
Gayle P. W. D.	12.59	3.85	24	18	...
Rio Hoe	15.31	4.48	24	16	10.90
Unity Valley	21.45	5.15	24	23	10.68
Moneagne P.W.D.	20.19	5.39	24	19	8.85
Claremont P.W.D.	17.09	4.33	24	17	...
Albion	14.17	5.00	24	19	8.68
Averham Park	12.66	4.24	24	19	8.61
Ballintoy P.W.D.	12.35	3.60	24	15	...
Means	20.95	...	...	...	11.67
NORTHERN DIVISION	Total Fall.	Greatest fall in 24 hours.	Amount.	Date.	Average.
Port Maria P.W.D.	16.97	6.10	24	14	7.64
Ocho Rios P.W.D.	13.00	3.90	24	9	...
Drax Hall	12.05	3.05	24	14	8.05
St. Ann's Bay P.W.D.	11.48	3.55	24	17	8.18
Seville	...	...	...	...	8.06
Richmond Estate	11.37	...	...	12	8.59
Llandovery	9.88	4.65	24	9	8.33
Brown's Town P.W.D.	13.68	3.48	24	13	9.50
Dry Harbour P.W.D.	7.80	3.12	24	8	...
Chewmagna P. W. D.	13.23	3.00	24	16	...
Home Castle	11.36	2.95	24	8	6.29
Richmond Pen	10.75	2.20	28	7	8.13
Mahogany Hall	18.66	3.23	28	17	7.74
Brampton Bryan	11.89	5.80	28	12	6.86
Bryan Castle	9.01	2.03	28	12	5.46
Braco	6.62	3.08	24	10	5.61

NORTHERN DIVISION, contd.	MAY. 1898.					NORTHERN DIVISION, contd.	MAY. 1898.						
	Total	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.		Total	Greatest fall in 24 hours.		Days on which .01 or more fell.	Average.		
		Fall.	Amount					Date.	Fall.			Amount	Date.
Arcadia	7.23	2.70	24	12	4.71	Harker's Hall P.W.D.	20.53	9.32	25	15	...		
Arcadia Great House	8.38	3.40	24	10	...	Worthy Park	16.79	5.88	25	11	...		
Harmony Hall	...	...	...	...	4.68	Kellits P. W. D.	17.08	7.20	24	12	...		
Lancaster	7.23	2.90	24	8	5.66	Chapelton P.W.D.	17.05	6.47	25	10	7.75		
Vale Royal	9.31	3.29	24	13	6.54	Danks Savoy	17.33	6.47	25	12	...		
Colchis Pen	11.89	3.12	23	14	7.08	Mears P.W.D.	...	...	...	...	...		
Hyde	13.54	2.81	24	18	8.50	Cave Valley	13.19	2.80	24	14	10.80		
Georgia	9.11	3.78	24	9	6.06	Means	11.79	...	...	...	4.88		
Long Pond	10.12	3.45	14	14	...	WEST CENTRAL DIVISION.	...	...	...	...	...		
Steelfield	8.80	3.00	24	12	5.91	Mochu P.W.D.	20.11	8.00	25	13	...		
Oxford	9.35	3.90	24	9	5.92	Baillieston P.W.D.	15.94	5.00	25	13	...		
Cambridge	9.93	3.00	24	9	6.78	Farm Plantation	17.05	7.45	25	13	10.13		
Dry Valley	...	...	...	...	...	Brockenhurst Pln.	...	...	...	...	13.68		
Lottery	9.50	2.90	21	8	6.69	Christiania P.W.D.	15.35	3.75	24	17	...		
Hampstead	...	...	...	...	6.02	Kendal P.W.D.	16.40	4.36	25	13	...		
Falmouth	8.33	...	...	...	...	Mandeville P.W.D.	14.77	5.90	25	15	12.76		
Falmouth P.W.D.	5.83	1.78	25	10	...	Marshalls Pen	...	...	...	...	11.68		
Fontabelle	21.15	4.00	24	19	...	Ulster Spring P.W.D.	17.25	3.75	24	18	...		
Martha Brae	...	...	...	...	6.11	Troy P.W.D.	24.88	4.70	25	20	...		
Holland Pen	8.78	2.60	25	8	6.28	Windsor Pen	17.09	...	...	...	10.81		
Pembroke	...	...	...	...	8.67	Balaclava P.W.D.	22.39	5.22	25	19	...		
Golden Grove	17.70	...	...	...	6.91	Elim	34.92	4.18	6	17	...		
Green Park	13.98	4.62	24	14	8.29	Appleton	22.78	5.11	24	22	10.85		
Tilston	14.05	...	...	...	10.99	Maggotty P.W.D.	17.28	5.27	24	20	...		
Weston Favell	...	...	...	...	5.90	Spring Vale	21.78	5.20	24	20	12.43		
Orange Valley	10.90	...	...	...	6.14	Maroon Town	...	...	...	...	10.88		
Kent	11.76	5.00	24	9	6.89	Kempshot	16.94	6.30	24	17	8.52		
Dundee	11.25	...	...	...	8.57	Kepp	21.80	7.18	24	21	12.51		
Phoenix	13.56	...	...	...	4.05	Kew Park	...	...	...	...	11.22		
Gale's Valley	13.10	...	...	...	8.06	Hazelymph	20.70	8.79	24	15	13.13		
Greenwood	9.37	...	...	...	8.79	King Gate P.W.D.	15.68	5.50	25	16	...		
Canaan	12.66	2.73	24	15	...	Windsor Forest	...	...	...	...	13.70		
Lima	11.03	5.10	24	11	5.75	Chester Castle	...	...	...	...	10.95		
Content	...	...	...	...	5.41	Darliston P.W.D.	27.94	12.20	24	21	...		
Bellfield	15.80	6.10	24	14	5.46	Whithorn, P.W.D.	23.18	6.15	24	14	...		
Guildsbro'	12.80	...	...	...	2.23	New Galloway	28.05	10.54	24	16	...		
Tryall	...	...	...	...	4.82	Lethe Bridge	18.13	4.20	22	21	...		
Leogan	...	...	...	...	5.06	Copse	18.32	4.85*	24	19	11.82		
Success	7.25	3.65	24	7	...	Cacoon Castle	19.01	3.75	24	19	13.13		
Cinnamon Hill	9.50	5.15	24	8	...	Golden Grove	...	...	...	...	15.16		
Rose Hall	8.44	5.45	24	7	...	Great Valley	24.54	4.20*	24	16	10.79		
Running Gut	...	...	...	...	...	Brownsville	19.75	6.11	25	23	...		
Spring	7.20	...	...	...	...	George's Plain Estate	...	...	...	...	8.84		
Ironshore	12.20	...	...	...	...	Fontabelle	...	...	...	...	...		
Friendship	...	...	...	...	...	Morgan's Bridge P.W.D.	16.75	6.74	24	19	...		
Providence	...	...	...	...	...	King's Valley	16.13	6.32	24	17	11.72		
Montego Bay P.W.D.	13.56	5.45	24	14	...	Dias	20.03	6.60	24	21	...		
Catherine Hall	17.20	...	...	...	...	Spring Hill	...	...	...	...	...		
Catherine Mount	...	...	...	...	...	Abingdon	...	...	...	...	7.50		
Fairfield	12.75	5.60	24	8	...	Means	19.24	...	...	...	11.53		
Anchovy	...	...	...	...	...	SOUTHERN DIVISION.	...	...	...	...	...		
Round Hill	15.35	5.90	24	13	...	Morant Point L.H. P. W.D.	15.93	7.58	25	19	13.73		
Tryall	...	...	...	...	...	Morant Bay P.W.D.	11.66	5.60	25	8	...		
Sandy Bay P.W.D.	12.73	6.00	24	13	...	Lyssons	...	...	...	...	...		
Lucea P.W.D.	16.08	8.64	24	18	...	Easington P.W.D.	15.92	11.53	25	12	...		
Orange Cove	...	...	...	...	...	Halberstadt	...	...	...	...	10.16		
Spring Valley	...	...	...	...	...								
CENTRAL SUB-DIVISION—													
Headworks R.C.C.	14.59	7.82	25	13	9.12								
Linstead P.W.D.	17.50	8.42	24	14	10.43								
Point Hill P.W.D.	20.81	7.15	25	12	...								

\* Gauge overflowed.

SOUTHERN. DIVISION, contd.	MAY.				
	Total Fall.	1898.			Average.
		Greatest fall in 24 hours.		Days on which .01 or more fell.	
		Amount	Date.		
	in.	in.		in.	
Bull Bay P.W.D.	13.49	9.26	25	7	...
Gordon Town P.W.D.	20.89	12.01	25	16	...
Hope Gardens	15.74	9.62	25	14	6.72
Hope Reservoir	...	...	...	...	6.72
Cherry Garden	...	...	...	...	5.83
King's House	...	...	...	...	7.59
Cavaliers	...	...	...	...	...
Shortwood	14.34	6.43	25	13	...
Constant Spring	15.29	7.62	25	15	...
Monaltrie	11.80	6.91	25	13	5.97
Halfway-Tree P.W.D.	11.00	6.52	25	8	...
Lunatic Asylum	7.69	5.57	25	8	...
Kingston Gardens	10.00	6.70	25	8	...
Public Works Office Kn.	9.66	...	...	...	5.58
Plumb Point L. H.	9.07	5.09	25	7	6.19
Ferry P. W. D.	12.51	4.85	25	11	...
Caymanas	...	...	...	...	...
Spanish Town P. W. D.	10.41	6.82	25	10	6.66
Windsor Park	13.22	5.02	25	10	6.55
Hog Hole Pen P.W.D.	15.72	7.05	25	10	7.62
Old Harbour P.W.D.	12.63	5.40	24	7	6.15
Somerset Hall	...	...	...	...	...
May Pen P.W.D.	10.89	6.42	25	10	...
Amity Hall	...	...	...	...	...
Hermitage	...	...	...	...	...
Denbigh	...	...	...	...	7.94
Yarmonth P.W.D.	8.96	6.38	25	5	...
Victoria Town P.W.D.	21.83	12.00	25	8	...
Stone's Hope	17.28	7.15	24	11	10.44
Newport P.W.D.	9.66	4.37	25	10	...
Alligator Pond P.W.D.	13.46	3.60	24	10	...
Southfield P.W.D.	7.12	4.00	25	8	...
Potsdam	9.07	2.65	24	12	6.41
Long Hill	21.24	6.66	25	14	9.77
Pepper	21.19	4.75	24	15	11.60
Torrington P.W.D.	13.16	4.46	25	10	...
Bethlehem	...	...	...	...	...
Santa Cruz P.W.D.	20.34	3.60	24	17	10.60
Holland	...	...	...	...	...
Black River P.W.D.	12.16	3.02	24	16	5.96
Spring Hill	17.11	6.50	25	18	...
Whitehall	...	...	...	...	...
Font Hill	14.98	...	...	...	...
Grand Vale	...	...	...	...	...
Peter's Ville	15.04	4.80	24	19	...
Mount Edgecombe	14.32	5.55	24	18	6.53
Sweet River	17.36	6.02*	24	15	7.15
Cornwall	15.60	6.25	24	11	...
Windsor, Sav.-la-Mar	15.16	6.30*	24	16	9.52
Sav.-la-Mar P.W.D.	17.09	6.11	24	13	...
Blackheath	...	...	...	...	...
Retreat	12.86	6.90	24	11	...
Negril Pt. Lighthouse	10.39	6.59	24	12	...
Means.	14.52	...	...	...	7.90

\* Gauge overflowed.

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

	MAY.	
	1898.	Average.
North Eastern Division	20.95	11.57
Northern	11.79	4.88
West Central	19.24	11.53
Southern	14.52	7.90
Means	16.62	8.97

The greatest monthly fall, viz., 44.31 ins. was recorded at Cinchona Plantation (Hill Gardens) and the least fall, viz.: 5.83 ins. was recorded at Falmouth, P.W.D.

The greatest fall in 24 hours was 28.66 ins at Cinchona Plantation on the 25th. The greatest number of days on which rain fell was 23 at Unity Valley and Brownsville. Forty four stations had (as their maximum falls) in 24 hours falls between 3 and 5 inches, and fifty four had falls of between 5 and 7 inches. Twenty three had falls of between 7 and 10 inches, while thirteen had 10 inches or upwards in twenty-four hours.

Of all the stations only twelve had, as maximum falls, less than three inches in one day. Eleven of these were in the middle of the Northern District with Falmouth as a centre and the other was Potsdam in the Santa Cruz Mountains.

The mean approximate rainfall as arrived at on the 4th inst., (when a preliminary report on May was issued) was 16.16 inches. This result was obtained from 46 stations with "averages." The results shown in the Comparative Table now published are from 87 such Stations, and show a rainfall for the Island of 16.62 ins., as compared with an average of 8.97. ins.

The following notes have come to hand:—

N. E. DIVISION.

*Port Antonio*—The fall on the 10th between 9 a.m. and 1 p.m. was 4.50.

*Castleton Gardens*—Not much wind with the rain. A lot of damage done to the garden walks. (W. J. T.)  
*Gayle*—Splendid seasons. No floods. Weather very warm.

*l'ho Hoe*—Heavy rains from the 23rd to the end of the month. (Jno. Smallhorn).

*Moneague*—The early part of month was comparatively dry. On the 10th a heavy shower fell and between the 22nd and 27th 13.66 inches rain fell.

N. DIVISION.

*Green Park*—About 60 hours consecutive rain from 23rd to 25th, but as it came gradually it did little damage. Heaviest fall for any month on record since December 1880. (H. D. Carroll).

The returns from *Kent Greenwood* and nine other stations came accompanied with the note "No real May seasons at all".

*Bellefield*—Between 11 a.m. 24th, and 11 a.m. 25th 6.10 inches fell; between 23rd and 26th 8.87 inches fell

*Fontabelle*—(Trelawny)—Very fine May seasons. On the 24th the gauge ran over at 4 inches, the probable rainfall for that day may have been over 5 ins. (C. C. Plunkett.)

*St. Ann's Bay*.—Bar. at 7 a.m. 29.936 and at 3 p.m. 29.874. Corr. to 32", sea level and gravity 45". Indoor temp. 7 a.m. 78° and at 3 p.m. 84°. Depression noticed at 7 a.m. 25th. 29.776, and at 3 p.m. 26th, 29.703, being about two tenths below the mean. There was also a heavy rainfall of 2.00 inches on the 23th. (J. F. Brennan.)

W. C. DIVISION.

*Appleton*—The heaviest fall we have had for the month of May during the past 20 years the period covered by the existing records on the estate. (William Hill.)

*Copse*—Ponds all full, no damage done.

*Farm*—The heaviest rainfall in one day for the last twenty years. (C. P. Noworthy.)

*Mandeville*—The fall of 25th appears to have been heavier in the S.E. end of Manchester. Mandeville was the heaviest since 1892. (T. C. Garrett.)

*Elim*—We had 10.34 inches of rain from the evening of 23rd to the morning of the 26th; on the night of Wednesday (25th) we had 6½ inches with severe lightning and thunder and strong breeze. From 1st May to 7th we had 14.79 inches of rain. (F. H. Farquharson.)

*Hazelymph*—A flood in the Greet River Valley during the night of the 24th and morning of the 25th did considerable damage to property, noticeably the damage done to the works on Hazelymph Estate, the river at the bridge there rising over 30 feet above its normal height.

The gauge overflowed twice during the night of the 24th so the actual rainfall is not known but 8.79 was measured by me. (Dutton Trench)

*Brownville*—The "storm period" 21st to 25th brought a rainfall of 11.09 (5 days). Considerable damage has been done to roads in the district. (J. F. Gartshore.)

#### S. DIVISION.

*Mount Edgecombe*.—The fall in the three days 23rd 24th and 25th was 10.08 inches in all. The rain was never very heavy but continued; hence very little damage has been done here by it. (Chas. B. Vickers.)

*Shortwood*—11.27 inches rain between 23rd and 27th. (S. N.)

*Stones Hope*—Strong S. W. wind on 25th doing considerable damage to cultivation. (Richd. W. Miles.)

*Black River*—The fall on 24th was accompanied by strong gale from S. and S. W., the sea running very high. (Wm. A. Miller.)

#### THE MAY SEASONS, 1898.

In the North-eastern Division the rainfall was 81 per cent. over the average, in the Northern Division 142 per cent. over the average, in the West Central Division 67 and in the Southern Division, 84 per cent. over the average. The means show that the Island rainfall was 85 per cent. over the average.

This result has been chiefly attained by heavy rains between the 23rd and 27th due to a shallow cyclonic depression which travelled from west to east northward of Jamaica. In the west of Jamaica the heaviest rainfall occurred on the 24th and in the eastern portion of the Island on the 25th. On an average between five and seven inches fell on one or other of these days all over the island, and in the cases of the thirteen stations which had during the month over ten inches in one day, all but two occurred on the 25th in the East and the 24 in the West. A phenomenal fall of 28.66 inches occurred at Cinchona Plantation on the 25th concerning which special enquiry was made. The Superintendent in reply states as follows:—"I beg to say there is no mistake whatever about the rainfall (28.66 ins.) here on the 25th May. We had to measure the rain three times during the day to prevent the gauge overflowing, and of course after measuring, the water was thrown away, it was not measured over a second time. We had steady heavy rain all day on the 25th; I don't think it ceased raining for five minutes during the 24 hours. During the night we had high winds which blew down a number of trees, &c." It will thus be seen that the rate of fall was not excessive being not much more than an inch an hour but the fall continuing at this rate for 24 hours produced the phenomenal record for the day of 28 inches.

The following are the falls from a few stations during the three days ending at 7 or 9 a.m. on the 26th. As the depression advanced from west to east (contrary to the usual course) the stations are given from west to east, instead of from east to west as arranged in the Divisions.

Station.	Rainfall 23rd - 25th May, 1898.			
	23rd.	24th	25th.	Total.
Negril Point LH	1.63	6.59	.23	8.45
Montego Bay	3.66	5.45	1.18	10.29
Mt. Edgecombe	1.71	5.55	2.82	10.08
Elim	6.93	3.41	...	10.34
Alligator Pond	1.33	3.60	3.30	8.23
Newport	.58	2.70	4.37	7.65
Stones Hope	.86	7.15	6.50	14.51
Mandeville	.58	4.66	5.90	11.14
Kendal	.60	3.70	4.36	8.66
Christiana	.68	3.75	2.72	7.15
Baillieston	.72	2.14	5.00	7.82
Victoria Town	.00	1.15	12.00	13.15
Saint Jago Estate	.00	1.50	9.90	11.40
Mears	.00	7.35	2.95	10.30
Chapelton	.42	4.70	6.41	11.53
May Pen	.39	3.06	6.42	9.87
Castleton	1.30	6.10	7.50	13.90
Stony Hill	1.20	7.40	5.45	14.05
Shortwood	.30	2.63	6.43	9.36†
Kingston	.42	2.03	6.06	8.51
Hope Gardens	.46	2.32	9.62	12.42
Cinchona	.47	3.45	28.66	*32.58
Morant Pt.	.70	.18	7.58	†8.46

\* Also 6.93 on the 26th. † Also 6.08 on the 26th.

‡ Also 1.77 on the 26th.

Taking the total falls for the month we find one fall between 40 and 50 inches, viz., Cinchona with 44; two between 30 and 40 inches, viz., Blue Mountain Peak, Moore Town and Elim, all with 35; and the following with falls between 20 and 30 inches, viz., 12 in the N.E. Division, three in the Northern Division, 12 in the W.C. Division and five in the Southern Division, a total of 32 with falls of between 20 and 30 inches.

If we come now to comparative falls we find that two stations, Cinchona and Rose Hall, had about four times their average and twenty-five stations out of the remaining eighty had double their average or more.

The following are the heavy monthly falls (means for the Island) exceeding 15 inches since 1870, arranged in chronological order:—

	Month.	Rainfall.
		Ins.
1870	May	17.38
1870	October	16.74
1879	October	15.69
1885	December	15.60
1886	June	23.42
1888	May	20.18
1897	October	19.80
1898	May	16.62

Below will be found the further details of the shallow cyclonic depression which gave us the heavy rains on the 24th and 25th. There was not much barometric gradient between Kingston and Montego Bay, as was ascertained by an interchange of telegrams on the 25th, and consequently there were no high continuous winds. The total fall of the barometer was two-tenths of an inch below the mean. Some places experienced south-westerly squalls but in Kingston there was not much wind, although what there was, from the S.W., on the 25th showed that the wind was setting to the depression to the northward of Jamaica. In the thick weather prevailing that night on the S.E. coast of Cuba the Boston Fruit Company's steamer Belvidere went ashore on the rocks near Cape Maysi, with no loss of life fortunately, all the passengers and crew being safely landed.

Montego Bay.					Kingston.			
Date and hour.	Barometer.		Wind.	Weather.	Barometer.		Wind.	Weather.
	Cor. to standards of Kew, 32° sea level and gravity.	Further corrected for diurnal variation.			Cor. to standards of Kew, 32° sea level and gravity.	Further corrected for diurnal variation.		
	Ins.	Ins.			Ins.	Ins.		
May 22, 7 a.m.	29.919	29.897	Calm	Cloudy	29.929	29.907	N 1	Fair.
3 p.m.	.860	.898	SE	do.	.910	.943	SE 7	Cloudy. Clouds SE
23, 7 a.m.	.854	.832	E	do.	.873	.851	Calm	Fair.
3 p.m.	.806	.839	Calm	Rains	.813	.846	SE 4	Cloudy SE
24, 7 a.m.	.817	.795	do.	Constant rain	.836	.814	Calm	Cloudy.
3 p.m.	.779	.812	do.	do.	.802	.835	S 3	Rain.
5 p.m.	.753	.793	do.	do. Clouds SW	...	...	Calm	do. Clouds S
25, 7 a.m.	.715	.693	SE	do. " SSW	.769	.747	E 4	Constant rain.
11 a.m.	.732	.708	S	No rain do.	...	...	Calm	do. Clouds SW
1 p.m.	.675	.678	SW	do. do.	...	...	SW	do. SW squall
3 p.m.	.646	.679	S	R. in squalls do.	.717	.750	SW 2	do. Clouds SW
8 p.m.	.647	.646	SW	No rain do.	...	...	Calm	Clearing a little at 9 p.m.
26, 2 a.m.	.642	.656	SW	do. do.	...	...	...	...
7 a.m.	.685	.663	WSW	Clearing do.	.733	.711	Calm	Cloudy } clearing SW
3 p.m.	.707	.740	W	do. W	.731	.764	SW 3	Showers } clearing SW
27, 7 a.m.	...	...	...	...	.861	.839	Calm	Cloudy.
3 p.m.	...	...	...	...	.832	.865	S 2	Fair.
28, 7 a.m.	...	...	...	...	.930	.918	Calm	Fine.

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
February	...	3.70
March	...	1.16
April	...	4.44
May	...	16.84
Total	...	27.76

The May rains have more than made up for the deficiencies in January and March, and the Rainfall for this year to the end of May is four inches in excess of the average.

**EARTHQUAKE.**

The Revd. S. Negus from Shortwood College writes that there was an "earthquake at 3 45 a.m. on 30th." The seismograph in Kingston showed vibrations in a S.E. and N.W. line with an extreme length of .059 inches.

ROBT. JOHNSTONE,

Weather Office, Kingston, 20th June, 1898.