QC
987
.J25
W34
1907
[Feb-Dec.]

No. 338.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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 racto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

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.
	ft.	in.	in.	°	°	°	°	°	°		°		
Negril Point Light House	33	30.018	29.962	70.2	79.8	83.0	66.6	16.4	85.9	24	61.0	2	24.9
Castleton Gardens .	496	..	...	62.5	75.8	79.9	62.5	17.4	82	*6	56	8	26
Hope Gardens .	668	29.997	29.873	64.3	77.7	82.8	67.2	15.6	94	17	58	17	36
Stony Hill Reformatory .	1,400	...	...	64.4	74.6	82.2	60.0	22.2	84	24, 25	58	8, 28	26
Hill Gardens .	4,907	25.250	25.206	56.7	60.2	62.7	51.0	11.7	67	28	49	13, 19	18

Station.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	64.9	83	65.3	61	0.68	225	N.E.	5.1	N.	10.6	1.1	0.6	0.8	0.6	2.1	1.3
Castleton Gardens .	496	61.5	96	68.1	76	7.01	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	58.6	83	68.0	72	1.77	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	61.3	89	66.9	76	3.78	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	55.1	93	57.9	93	5.30	...	...	...	...	...	...	...	...	...	...	...

*And on other days.

National Oceanic and Atmospheric Administration

Climate Database Modernization Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Climate Database Modernization Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

LASON
Imaging Subcontractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 28, 2002

RAINFALL FOR FEBRUARY, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	Feb., 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal	2.00	1.10	21	6	6.64
Ecclesdown	...	...	...	...	...
Bath	4.24	1.04	20	13	5.12
Moore Town	11.00	...	...	...	14.70
Port Antonio	4.14	1.15	18	18	6.22
Fellowship	7.85	1.90	22	17	11 08
Johnson River Bridge	2.06	0.80	17	7	2.40
Shrewsbury	5.31	1.60	23	14	11.14
Cedar Valley, St. Thos	3.32	1.00	21	13	3.02
Hill Gardens	5.30	1.05	22	14	4.17
Buff Bay	3.21	2.30	22	4	8.44
Greenvale	13.74	3.44	22	19	...
Mt. Holstein	13.80	3.50	24	20	4.88
Hardware Gap	...	...	...	...	...
Irish Town		...	...	...	...
Annotto Bay	...	...	...	...	...
Stony Hill Reft.	3.78	1.60	20	16	2.12
Castleton Gardens	7.01	1.71	22	11	4.73
Lawrence Tavern	...	...	...	...	...
Water Valley	3.74	1.35	20	10	6.81
Agualta Vale	3.83	0.98	22	9	...
Hampstead	3.55	1.04	22	8	...
Albany	2.28	1.50	20	8	...
Richmond, St. Mary	3.54	0.85	10	12	4.91
Kendal, St. Mary	3.96	...	...	8	...
Gayle, P.W.D.	2.49	0.72	22	15	5.95
Rio Hoe	3.55	1.15	16	8	3.88
Unity Valley	5.40	2.47	17	9	3.35
Moneague	4.21	1.50	16	11	3.86
Union Hill	4.94	2.60	19	3	...
Claremont	...	...	...	...	...
Albion	3.21	1.00	16	9	3.54
Avernam Park	4.40	0.75	12	11	4.47
Means	4.71	...	...	...	5.52

Northern Division.	Feb., 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	3.25	1.05	17	13	6.04
Ocho Rios	1.05	0.50	17	3	4.07
Drax Hall	2.75	0.83	18	6	4.37
Liberty Hill	...	...	...	...	...
St. Ann's Bay	3.23	1.30	17	8	4.86
Richmond Estate	1.87	0.40	18	5	4.31
Llandovery	3.03	0.95	17	5	4.34
Southfield	...	...	...	...	...
Brown's Town	...	...	...	...	...
Hyde Park	7.26	2.24	16	8	2.21
Dry Harbour	2.01	1.05	16	3	3.03
Chewmagna	3.45	1.35	16	7	3.26
Home Castle	5.40	2.70	17	11	3.13
Richmond Pen	4.30	1.40	15	7	1.99
Mahogany Hall	4.28	1.37	17	9	2.72
Brampton Bryan	5.03	2.10	17	9	1.72
Bryan Castle	5.15	0.85	17	9	2.17
Braco	1.34	0.45	17	8	2.15
Arcadia	3.44	1.00	17	9	2.28
Harmony Hall	1.85	0.72	17	9	2.20
Vale Royal	4.00	1.72	17	9	2.59
Celohis Pen	3.30	1.50	16	5	1 38
Swanswick	4.65	1.70	17	10	...
Hyde	3.35	0.90	17	9	2.30
Georgia	3.71	1.85	17	9	2.45
Long Pond	3.10	1.20	17	8	2.19
Hyde Hall	2.25	0.95	17	6	...
Steelfield	2.53	0.98	17	4	2.22
Etingdon	1.95	0.65	13	7	...
Oxford	2.00	0.75	13	8	2.06
Cambridge	2.15	0.60	14	3	2.26
Lottery	1.61	0.43	14	7	1.92
Falmouth P.W.D.	2.30	0.54	20	9	1.70
Holland Pen	2.16	0.81	23	6	2.01
Kent	4.18	3.54	16	3	2.32
Lima	3.26	1 48	17	4	2.07
Content	1.90	1.50	16	3	2.22
Moor Park	0.94	0.42	16	6	2 80
Success	0.90	0.70	16	2	2.35
Cinnamon Hill	2.55	1.45	16	4	2.54
Rose Hall	1.70	1.10	16	3	2.29
Running Gut	1.34	0.72	16	3	2.24
Montego Bay	3.64	1.61	16	4	1.94
Fairfield, St. James	1.60	0.85	16	2	2.02
Round Hill	0.90	0.40	22	3	1.24
Sandy Bay	0.00	0.00	...	...	2.20
Lucea	1.79	0.95	21	6	2.13
Westfield	0.05	0.05	4	1	...

Central Sub-Division.	Feb., 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	6.62	3.57	17	15	1.41
Shanton	6.30	2.65	17	19	...
Linstead	4.36	2.12	17	12	1.88
Berkshire Hall	2.88	1.00	17	6	1.91
Point Hill	12.16	5.03	17	11	2.86
Carew Castle	3.31	1.17	17	8	...
Worthy Park	4.80	2.43	17	12	1.87
Chapelton	2.93	1.30	17	8	1.75
Danks Works	3.59	1.95	17	10	...
Savoy House	3.81	1.88	17	13	1.36
Cave Valley	4.90	1.70	21	9	2.17
Means	3.18	...	...	...	2.48
West Central Division.					
Baillieston	...	...	...	...	...
Farm Plantation	5.56	1.00	14	13	2.20
Brokenhurst	...	...	...	...	...
Christiana	6.79	3.15	21	9	2.31
Chudleigh	4.26	1.15	21	11	...
Kendal, Manchester	3.20	1.70	16	3	1.65
Marshalls Pen	9.13	5.00	16	11	...
Mandeville, P.W.D	6.70	2.28	8	14	2.40
Carlton, Mandeville	5.88	1.63	8	9	2.07
Fairfield, Manchester	7.84	1.73	26	15	1.13
Ulster Spring	...	...	...	...	...
Albert Town	5.87	1.07	15	8	...
Low River	5.58	1.90	21	6	...
Troy	7.93	2.10	15	11	2.57
Windsor Pen, Trel.	2.88	0.68	16	9	2.15
Wallingford	7.07	1.58	21	11	...
Balaclava	5.01	0.86	15	13	1.94
Siloah	4 44	1.40	26	6	2.57
Appleton Estate	3.47	0.83	25	10	...
Maggotty	5.29	1.00	15	15	...
Kempshot	1.28	0.49	24	4	3.24
Kew Park	3.79	1.57	10	11	2.50
Hazelymph	1.72	0.70	16	5	1.97
King Gate	4.08	1.45	16	5	2.54
Darliston	6.44	2.07	6	15	2.95
Whithorn	2.45	2.00	5	12	2.44
Great Valley	...	...	...	...	...
Brownsville	1.12	0.33	16	7	3.50
Fontabelle	1.99	0.52	15	7	2.85
Morgan's Bridge	1.52	0.58	16	7	2.43
King's Valley	0.75	0.22	3	7	2.57
King's Vale Police St.	0.35	0.24	4	2	2.28
Means	3.89	...	...	...	2.39

Southern Division.	Feb., 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	2.57	1.21	17	13	2.72
East Prospect	1.35	0.68	20	6	...
Morant Bay	2.29	0.91	20	10	2.06
Easington	1.03	0.80	21	3	1.45
Bull Bay	...	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	1.77	0.61	20	9	1.13
Mona	...	...	...	...	...
Half-way Tree	...	...	...	...	...
Lunatic Asylum	0.26	0.10	22	5	0.41
Public Works Office	0.70	0.37	20	5	0.70
Plumb Point L. H.	0.10	0.10	17	1	0.76
Ballast Ground	...	...	...	...	...
Spanish Town	2.57	1.90	18	5	1.28
Hog Hole Pen	3.20	2.43	17	5	1.62
Browns Hall	9.01	2.90	17	10	2.44
Old Harbour	2.00	0.90	7	4	1.82
May Pen	1.61	0.60	19	5	1.56
Clarendon Pk. Ry. St.	4.36	1.32	16	10	...
Denbigh	...	...	...	...	...
Amity Hall	...	...	...	...	...
New Yarmouth	0.07	0.07	1	1	0.96
Milk River	2.00	1.25	15	8	...
Victoria Town	1.84	1.00	15	5	1.59
Stone's Hope	6.61	1.32	6	14	1.94
Newport, Manchester	5.64	1.17	7	9	2.48
Alligator Pond	3.78	1.60	16	4	0.86
Potsdam	4.94	1.52	26	11	1.63
Long Hill	...	...	...	...	...
Pepper	9.05	1.85	8	12	1.77
Torrington	...	...	...	...	...
Bethlehem, St. Eliz.	5.96	2.00	26	13	1.44
Santa Cruz	5.79	1.25	21	13	1.98
Pedro Plains	4.54	1.60	27	11	0.54
Black River	3.14	0.53	22	14	1.66
Spring Hill	2.19	0.85	25	9	...
Font Hill	0.70	0.45	22	2	1.20
Peters Ville	4.60	1.25	6	12	2.39
Mount Edgecombe	3.11	1.32	27	14	2.31
Bluefields	6.10	2.83	1	4	3.47
Sweet River	1.41	0.77	6	6	2.30
Windsor, Sav.-la-Mar	2.67	1.49	6	10	2.29
Sav.-la-Mar P.W.D.	1.89	0.99	6	9	2.01
Retreat	...	...	...	...	...
White Hall	2.11	1.89	6	5	...
Negril Point L. H.	0.68	0.50	6	4	1.54
Means	3.21	...	...	...	1.69

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	February.	
	1907.	Average.
	In.	In.
North Eastern Division .	4.71	5.52
Northern .	3.18	2.48
West Central .	3.89	2.39
Southern .	3.21	1.69
Means .	3.75	3.02

The Rainfall for February was therefore above the average for the whole Island. The greatest fall, 13.80 inches occurred at Mt. Holstein in the north-eastern division while no rain fell at Sandy. Bay, in the northern division.

JANUARY.

WEATHER REPORT No. 336. Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 00.1 or more fell.
		Amount.	Date.	
	In.	In.		
Kew Park .	0.77	0.73	25	2
Canaan .	1.56	0.80	11	4
Kings Valley .	1.08	0.51	12	6
Marshalls Pen .	0.78	0.25	25	5
Kendal .	6.13	...	...	11

H. H. COUSINS.

Weather Office,
Govt Laboratory, Kingston.

No. 339

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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 nacto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

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.
	ft.	in.	in.	°	°	°	°	°	°		°		
Negril Point Light House	33	30.035	29.968	72.8	82.4	85.6	66.2	19.4	88.8	16	62.3	10	26.5
Castleton Gardens .	496	...	...	64.5	78.3	82.1	64.5	17.6	84	*13	55	31	29
Hope Gardens .	668	30.011	29.872	65.4	80.5	85.2	65.3	19.9	87	*13	61	5, 8	26
Stony Hill Reformatory .	1,400	...	...	65.1	77.3	83.9	59.1	24.8	86	*26	58	*2	28
Hill Gardens .	4,907	25.231	25.221	55.9	64.5	68.3	52.2	16.1	70	*10	48	31	22

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	63.6	73	64.9	56	0.08	239	N.E.	6.5	E. N.E.	12.3	.0	.4	1.0	.1	2.7	0.3
Castleton Gardens .	496	62.6	96	68.3	71	0.93	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	59.0	81	72.0	76	0.26	...	...	...	..	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	61.5	88	69.9	78	0.36	...	...	...	...	...	...	...	...	...	...	.
Hill Gardens .	4,907	51.6	88	52.1	65	1.85	...	...	...	...	..	.	...	...	...	...	.

* And on other days.

RAINFALL FOR MARCH, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	March, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In			In.
Manchioneal	nil	...	...	...	4.91
Spring Valley	"	nil	...		...
Boston	"	"	...	...	...
Bath	0.11	0.06	17	2	4.14
Moore Town	1.40	...	...	...	11.94
Port Antonio	0.54	0.16	16	7	4.27
Fellowship	0.96	0.45	18	7	6.99
Johnson River Bridge	nil	nil	...	...	2.32
Shrewsbury	1.92	0.50	16	8	8.41
Cedar Valley, St. Thos	...	...	...	...	...
Hill Gardens	1.85	1.85	26	1	5.27
Buff Bay	1.52	1.10	17	3	5.00
Greenvale	2.19	0.65	5	14	...
Mt. Holstein	1.23	0.75	27	12	9.51
Annotto Bay	...	...	...	...	...
Stony Hill Reft.	0.36	0.24	17	3	2.99
Castleton Gardens	0.93	0.26	12,26	6	4.90
Lawrence Tavern	...	...	...	...	...
Water Valley	0.49	0.25	2	4	5.17
Agualta Vale	0.64	0.20	1	4	...
Hampstead	0.56	0.18	26	4	...
Albany Ry. St.	0.43	0.31	10	2	...
Richmond, St. Mary	0.86	0.46	12	9	3.62
Kendal, St. Mary	0.50	0.21	5	3	...
Gayle, P.W.D.	...	...	...	...	...
Rio Hoe	0.86	0.63	26	5	3.74
Unity Valley	0.77	0.58	26	4	3.86
Moneague	0.94	0.63	26	6	3.09
Union Hill	0.68	0.39	26	2	...
Claremont	...	...	...	...	...
Albion	0.08	0.08	4	1	3.68
Averham Park	0.30	0.13	10	3	3.97
Ballintoy	0.10	0 07	27	2	3.39
Means	0.76	...	...	...	5.06

Northern Division.	March, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	0.26	0.09	15	4	3.28
Ocho Rios	nil	nil	...	...	2.84
Drax Hall	0.08	0.08	26	1	3.27
Liberty Hill	0.50	0.34	27	3	...
St. Ann's Bay	0.31	0.26	3	2	2.34
Richmond Estate	0.15	0.10	15	2	2.73
Llandovery	nil	nil	...	...	2.96
Southfield	...	...	...	...	...
Brown's Town	nil	nil	...	...	3.22
Hyde Park	"	"	...	...	4.92
Dry Harbour	0.56	0.56	21	1	1.73
Chewmagna	0.08	0.08	26	1	3.70
Home Castle	0.10	0.10	18	1	2.69
Richmond Pen	nil	nil	...	...	2.47
Mahogany Hall	0.08	0.08	3	1	2.48
Brampton Bryan	nil	nil	..	...	1.93
Bryan Castle	"	"	...	...	1.93
Braco	"	"	...	...	1.72
Arcadia	"	"	...	...	1.88
Harmony Hall	"	"	...	...	1.80
Vale Royal	0.08	0.08	26	1	2.30
Colchis Pen	nil	nil	...	..	1 94
Swanswick	0.05	0.05	19	1	...
Hyde	...	...	...	...	...
Georgia	nil	nil		...	2.07
Long Pond	0.02	0.02	19	1	2.72
Hyde Hall	nil	nil	...	...	...
Steelfield	"	"	...	...	2.23
Etingdon	"	"	...	...	...
Oxford	"	"	...	...	2.03
Cambridge	"	"	...	...	2.31
Lottery	"	"	...	...	2.07
Falmouth P.W.D.	"	"	...	...	1.89
Holland Pen	"	"	...	...	1.61
Kent	"	"	...	...	1.96
Lima	"	"	...	...	2.06
Content	"	"	..	...	2.42
Belfield	"	"	...	...	...
Moor Park	"	"	...	...	2 71
Success	"	"	...	...	2.04
Cinnamon Hill	"	"	...	...	1.80
Rose Hall	"	"	...	...	1.56
Running Gut	0.08	0.08	22	1	1.50
Montego Bay	nil	nil	...	...	1.63
Fairfield, St. James	"	"	...	...	1.74
Round Hill	"	"	...	...	1.81
Sandy Bay	"	"	...	...	2.39
Lucea	"	"	...	...	2.33
Westfield	...	...	...	...	...

Central Sub-Division.	March 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	0.15	0.08	16	3	2.91
Shanton	0.55	0.45	17	3	...
Linstead	0.25	0.25	12	1	3.06
Berkshire Hall	nil	nil	...	...	3.80
Point Hill	0.45	0.27	17	2	5.80
Carew Castle	0.93	0.93	17	1	...
Worthy Park	0.11	0.11	26	1	3.01
Chapelton	nil	nil	...	...	2.77
Danks Works	0.72	0.52	17	3	...
Savoy House	0.44	0.28	17	4	5.10
Cave Valley	nil	nil	...	...	3.07
Means	0.07	...	...	...	2.54
West Central Division.					
Baillieston	...	...	...	...	...
Farm Plantation	...	...	...	...	...
Brokenhurst	...	...	...	...	...
Christiana	1.01	0.73	17	2	4.82
Chudleigh	...	...	...	...	...
Kendal, Manchester	nil	...	...	...	4.53
Marshalls Pen	...	...	...	...	...
Mandeville, P.W.D	0.20	0.12	3	4	4.65
Carlton, Mandeville	0.08	0.05	17	2	4.33
Fairfield, Manchester	0.35	0.14	4	14	5.47
Ulster Spring	nil	nil	...	...	3.55
Low River	0.60	0.60	18	1	...
Troy	0.16	0.16	17	1	6.99
Windsor Pen, Trel.	nil	nil	...	...	3.18
Wallingford	0.55	0.30	3	3	...
Balaclava	0.79	0.65	3	2	3.90
Siloah	nil	nil	...	...	5.54
Appleton Estate	0.37	0.15	16	3	...
Maggotty	0.55	0.14	3	7	...
Kempshot	nil	nil	...	...	2.85
Kew Park	0.10	0.10	24	1	4.33
Hazelymph	nil	nil	...	...	3.73
King Gate	nil	nil	...	...	3.57
Darliston	0.60	0.26	16	4	6.79
Whithorn	0.12	0.12	24	1	5.68
Great Valley	0.35	0.35	...	1	4.04
Brownsville	0.06	0.06	13	1	4.95
Fontabelle	0.13	0.13	12	1	4.09
Morgan's Bridge	0.25	0.14	17	3	5.16
King's Valley	0.44	0.30	16	4	4.39
King's Vale Police St.	nil	nil	...	...	5.59
Means	0.21	...	...	...	4.64

Southern Division.	March, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	0.59	0.26	13	4	1.99
East Prospect	0.17	0.09	11	2	...
Morant Bay	0.34	0.20	12	2	1.60
Easington	...	...	...	...	...
Bull Bay	...	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	0.26	0.14	17	2	1.96
Mona	...	...	...	...	...
Half-way Tree	...	...	...	...	...
Lunatic Asylum	nil	nil	...	...	1.00
Public Works Office	0.15	0.15	3	1	1.11
Plumb Point L. H.	nil	nil	...	...	0.95
Ballast Ground	...	...	...	...	...
Spanish Town	0.32	0.22	17	2	2.23
Hog Hole Pen	nil	nil	...	...	2.24
Browns Hall	0.60	0.45	17	2	4.57
Old Harbour	nil	nil	...	...	2.08
May Pen	"	"	...	...	2.03
Clarendon Pk. Ry. St.	0.26	0.26	17	1	...
Denbigh	...	...	...	...	...
Amity Hall	...	...	...	...	...
New Yarmouth	nil	nil	...	...	1.12
Milk River	0.89	0.89	3	1	...
Victoria Town	nil	nil	...	...	2.15
Stone's Hope	0.20	0.20	17	1	2.79
Newport, Manchester	0.53	0.23	3	3	3.35
Alligator Pond	nil	nil	...	...	1.94
Potsdam	0.49	0.30	17	4	3.08
Long Hill	...	...	...	...	...
Pepper	1.00	0.50	17	3	5.13
Torrington	0.94	0.40	17	5	3.44
Bethlehem, St. Eliz.	0.85	0.77	16	3	4.56
Santa Cruz	1.17	0.46	17	7	3.89
Pedro Plains	1.42	0.73	17	4	2.86
Black River	0.62	0.50	16	3	2.34
Spring Hill	0.47	0.27	15	2	...
Font Hill	0.80	0.25	16	5	4.21
Peters Ville	0.81	0.30	1	5	5.44
Mount Edgecombe	0.32	0.14	1	4	4.03
Bluefields	0.55	0.23	16	3	10.86
Sweet River	nil	nil	...	...	3.56
Windsor, Sav.-la-Mar	0.17	0.09	17	2	2.96
Sav.-la-Mar P.W.D.	0.17	0.06	12	4	2.75
Retreat	...	...	...	...	...
White Hall	0.15	0.08	13	2	...
Negril Point L. H.	0.08	0.08	12	1	2.51
Means	0.40	...	...	...	3.10

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	March.	
	1907.	Average.
	In.	In.
North Eastern Division	0.76	5.06
Northern	0.07	2.54
West Central	0.21	4.64
Southern	0.40	3.10
Means	0.36	3.84

The Rainfall for March was therefore less than one-tenth of the average for the whole Island. The greatest fall, 2.19 inches fell at Mt. Holstein in the north-eastern division while no rain fell at 55 stations distributed throughout the island from which reports have been received to date. In the entire past 42 years of which this office has records of rainfall, this constitutes the smallest fall ever experienced for the month of March. Since the general record of island rainfall was started in 1870, the rainfall for March, 1907, is the lowest monthly rainfall ever experienced by the island of Jamaica.

February.

Weather Report No. 338. Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell
		Amount.	Date.	
	In.	In.		
King's Valley	0.75	0.22	3	7

H. H. Cousins.

Weather Office,
Govt. Laboratory, Kingston.

No. 340.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

APRIL, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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 racto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

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.
	ft.	in.	in.	°	°	°	°	°	°		°		
Negril Point Light House	33	29.979	29.929	74.7	81.1	84.2	69.8	14.4	88.2	16	65.2	4	23.0
Castleton Gardens .	496	..	...	59.4	76.7	79.8	59.4	20.4	89	23	59	6	30
Hope Gardens .	668	29.964	29.897	69.9	81.5	82.1	70.2	11.9	90	23	65	6	25
Stony Hill Reformatory .	1,400	...	...	66.1	79.9	85.8	60.7	25.1	92	22	58	3	34
Hill Gardens .	4,907	25.200	25.192	57.9	64.7	67.3	52.1	15.2	73	15	49	3, 5	24

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	67.4	78	67.9	64	1.29	268	N.E.	5.8	N. N.E.	13.6	0.0	1.3	1.3	1.7	3.2	0.1
Castleton Gardens .	496	58.6	96	65.2	64	1.65	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	58.5	95	73.1	90	0.16	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	62.5	88	70.8	73	0.26	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	49.1	56	57.9	89	1.70	...	...	...	...	...		...	...	...	...	...

RAINFALL FOR APRIL, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	April, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In			In.
Manchioneal	0.55	0.19	26	4	6.96
Ecclesdown	...	...	...	...	...
Bath	0.37	0.17	25	3	5.59
Moore Town	1.42	...	...	...	11.67
Port Antonio	0.94	0.17	27	9	6.19
Fellowship	1.40	0.70	29	7	10.17
Johnson River Bridge	nil	nil	...	...	4.08
Shrewsbury	0.80	0.23	24	6	9.04
Cedar Valley, St. Thos	0.28	0.20	24	2	3.35
Hill Gardens	1.70	1.02	13	4	6.31
Buff Bay	0.56	0.20	26	4	6.88
Greenvale	0.46	0.20	25	5	...
Mt. Holstein	0.61	0.24	30	8	6.89
Annotto Bay		...	...	...	...
Stony Hill Reft.	0.26	0.10	27	4	5.33
Castleton Gardens	1.65	0.74	30	6	6.85
Lawrence Tavern	...	...	...	...	...
Water Valley	0.50	0.27	23	2	5.77
Agualta Vale	0.33	0.18	22	3	...
Hampstead	0.05	0.03	23	2	...
Albany Ry. St.	0.20	0.20	25	1	...
Richmond, St. Mary	0.07	0.06	25	2	5.21
Kendal, St. Mary	0.82	0.45	19	3	...
Gayle, P.W.D.	...	...	...	...	...
Rio Hoe	1.52	0.82	29	5	4.47
Unity Valley	1.91	0.86	30	10	4.65
Moneague	1.58	0.46	29	7	4.03
Union Hill	1.87	1.80	30	4	...
Claremont	...	...	...	...	
Albion	0.05	0.05	29	1	4.60
Avernam Park	0.29	0.14	29	3	4.84
Ballintoy	1.64	0.59	30	5	4.27
Means	0.86	...	...	...	6.05

Northern Division.	April, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	0.57	0.50	2	4	4.21
Ocho Rios	...	...	...	...	...
Drax Hall	0.32	0.32	23	1	3.29
Liberty Hill	0.12	0.12	1	1	...
St. Ann's Bay	0.18	0.10	23	2	3.37
Richmond Estate	0.15	0.15	22	1	3.58
Llandovery	0.16	0.16	22	1	3.51
Southfield	nil	nil	...	...	7.12
Brown's Town	0.34	0.34	1	1	3.74
Hyde Park	1.10	1.10	13	1	3.03
Dry Harbour	...	...	...	...	...
Chewmagna	1.72	0.75	13	5	3.58
Home Castle	0.20	0.20	1	1	3.58
Richmond Pen	1.05	1.05	13	1	3.74
Mahogany Hall	...	...	...	...	...
Brampton Bryan	0.37	0.35	1	2	2.27
Bryan Castle	0.25	0.26	1	1	2.25
Braco	0.13	0.13	1	1	2.36
Arcadia	0.38	0.38	2	1	2.48
Harmony Hall	0.25	0.25	1	1	2.18
Vale Royal	0.53	0.53	2	1	3.02
Colchis Pen	0.25	0.25	1	1	3 19
Swanswick	0.40	0.25	1	2	...
Hyde	...	...	...	...	...
Georgia	0.47	0.47	1	1	2.54
Long Pond	0.42	0.28	1	2	2.97
Hyde Hall	0.59	0.32	1	2	...
Steelfield	0.39	0.33	1	2	2.61
Etingdon	0.35	0.30	1	2	...
Oxford	0.50	0.40	1	2	2.58
Cambridge	0.32	0.22	1	2	3.16
Lottery	0.68	0.57	1	2	2.36
Falmouth P.W.D.	0.49	0.46	1	2	2.19
Holland Pen	0.05	0.05	13	1	2.43
Kent	0.50	0.50	1	1	...
Canaan	0.62	0.62	1	1	...
Lima	0.40	0.40	1	1	3.32
Content	0.13	0.13	2	1	2.48
Moor Park	0.64	0.64	1	1	5 00
Success	0.50	0.50	1	1	2.37
Cinnamon Hill	0.55	0.55	1	1	1.99
Rose Hall	0.40	0.40	1	1	1.97
Running Gut	0.34	0.34	1	1	1.79
Montego Bay	0.56	0.56	1	1	3.83
Fairfield, St. James	0.80	0.80	1	1	3.69
Round Hill	1.35	0.70	19	2	2.70
Sandy Bay	1.73	0.60	1	3	3.88
Lucea	1.14	0.58	1	3	4.01
Westfield	...	...	...	...	...

Central Sub-Division.	April 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	0.07	0.04	30	2	3.77
Shanton	0.59	0.32	29	3	...
Linstead	3.25	2.00	30	7	4.37
Berkshire Hall	1.13	0.50	30	4	...
Point Hill	0.19	0.10	29	2	5.62
Carew Castle	0.57	0.17	29	5	...
Worthy Park	0.97	0.66	30	3	3.30
Chapelton	0.85	0.35	14	4	3 61
Danks Works	0.91	0.40	30	6	...
Savoy House	1.75	0.62	30	6	3.96
Cave Valley	1.09	0.45	13	3	5.11
Means	0.62	...	...	...	3.29
West Central Division					
Baillieston	...		...	...	...
Farm Plantation	0.50	0.30	28	3	4.75
Brokenhurst	2.95	0.95	14	4	4.92
Christiana	3.88	1.70	28	6	8.26
Chudleigh	4.58	2.50	28	6	...
Kendal, Manchester	3.55	1.70	28	5	6.54
Marshalls Pen	5.93	2.40	28	7	...
Mandeville, P.W.D	3.18	1.26	14	8	5.75
Carlton, Mandeville	2.10	1.09	14	5	7.11
Fairfield, Manchester	2.33	1.00	30	7	6.86
Ulster Spring	...	...	...	...	...
Albert Town	3 90	1.07	13	6	...
Low River	3.25	1.15	27	4	...
Troy	6.28	2.00	13	7	9.85
Windsor Pen, Trel.	0.43	0.14	18	5	6.52
Wallingford	2.11	0.86	13	8	...
Balaclava	2.49	1.70	13	8	10.49
Siloah	3.25	1.10	13	6	8.98
Appleton Estate	2.71	0.70	30	9	...
Maggotty	2.43	0.65	13	10	...
Kempshot	0.76	0.47	1	3	5.90
Kew Park	2.21	0.56	17	9	8.77
Hazelymph	2.01	0.63	19	5	6.41
King Gate	1.36	0.64	19	3	4.30
Darliston	4.06	2.21	30	10	12.29
Whithorn	3.66	1.58	30	7	7.85
Great Valley	2.15	0.65	19	5	7.81
Brownsville	2.16	0.75	21	5	9.45
Fontabelle	2.24	0.75	19	5	6.31
Morgan's Bridge	2.39	0.71	27	6	5.76
King's Valley	1.47	0.35	1	9	6.49
King's Vale Police St.	0.51	0.27	1	3	6.91
Means	2.43	...	..	...	7.32

Southern Division.	April, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	0.34	0.09	22	6	2.97
East Prospect	0.35	0.18	18	3	...
Morant Bay	0.31	0.15	25	3	2.40
Easington	nil	nil	...	...	1.64
Bull Bay	...	...	...		...
Gordon Town	...		...	...	...
Hope Gardens	0.16	0.09	29	2	2.95
Mona	...	..	...	...	...
Half-way Tree	...	...	...	...	...
Lunatic Asylum	...	...	...	...	...
Public Works Office	0.02	0.02	25	1	1.01
Plumb Point L. H.	0.02	0.01	28	2	1.03
Ballast Ground	...	...	..	...	...
Spanish Town	nil	nil	...	...	2.39
Hog Hole Pen	"	"	...	...	3.00
Browns Hall	"	"	...	...	4.15
Old Harbour	"	"	...	...	3.01
May Pen	0.05	0.05	14	1	2.61
Clarendon Pk. Ry. St.	0.34	0.28	29	2	...
Denbigh	...	...	...	...	...
Amity Hall	...	...	...	...	...
New Yarmouth	...	...	...	...	...
Milk River	nil	nil	...	...	...
Victoria Town	"	"	...	...	4.56
Stone's Hope	0.73	0.25	28	4	4.28
Newport, Manchester	1.32	0.84	29	4	4.88
Alligator Pond	0.56	0.56	28	1	3.62
Potsdam	...	...	...	...	...
Long Hill	...	...	...	...	...
Pepper	5.45	3.00	30	6	9.06
Turrington	0.97	0.35	1	7	...
Bethlehem, St. Eliz.	2.13	0.88	29	4	6.63
Santa Cruz	2.54	0.79	15	9	9.75
Pedro Plains	0.47	0.22	28	3	2.77
Black River	0.27	0.10	17	4	4.22
Spring Hill	0.98	0.28	13	7	...
Font Hill	0.45	0.35	27	2	4.78
Peters Ville	2.66	1.39	27	7	7.45
Mount Edgecombe	2.53	1.17	27	6	5.26
Bluefields	3.02	0.80	19	7	10.89
Sweet River	2.40	0.90	19	6	5.83
Windsor, Sav.-la-Mar	1.75	0.90	19	7	5.06
Sav.-la-Mar P.W.D.	1.57	0.60	19	7	5.55
Retreat	...	...	...	...	...
White Hall	1.09	0.27	26	7	...
Negril Point L. H.	1.29	0.55	21	6	3.13
Means	1.07	...	...	...	4.46

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	April.	
	1907.	Average.
	In.	In.
North Eastern Division .	0.86	6.05
Northern .	0.62	3.29
West Central .	2.43	7.32
Southern .	1.07	4.46
Means .	1.24	5.28

The Rainfall for April was therefore less than one-fourth the average for the whole Island. The greatest fall, 5.93 inches occurred at Marshall's Pen in the West Central Division, while no rain fell at Johnson River Bridge in the north Eastern Division, Southfield in the northern Division and at Easington and five other stations in the Southern Division.

March.

Weather Report No. 339. Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
	In.	In.		
Halfway Tree .	nil			
Lawrence Tavern .	"			
Ballast Ground .	"			
Bull Bay .	"			
Gordon Town .	0.15	0.11	2	2
Hardware Gap .	nil			
Irish Town .	nil			
Southfield .	0.61	0.36	24	3
Farm Plantation .	nil	nil		

H. H. Cousins.

Weather Office,
Govt. Laboratory, Kingston.

No. 341.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MAY, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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 racto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

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.
	ft.	in.	in.	°	°	°	°	°	°		°		
Negril Point Light House	33	29.994	29.895	78.0	82.8	86.0	71.4	14.6	88.1	2	67.6	9	20.5
Castleton Gardens .	496	..	...	66.9	81.0	86.4	66.9	19.5	89	*20	64	*3	25
Hope Gardens .	668	29.932	29.820	74.8	81.6	86.0	74.6	11.4	90	21. 22	71	6	19
Stony Hill Reformatory .	1,400	...	...	69.2	79.9	85.9	63.3	22.6	88.0	*16	61	*6	27 0
Hill Gardens .	4,907	25.218	25.194	61.0	65.2	69.6	56.6	13.0	73	21	54	2, 8	19

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		.m	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	72.4	83	72.3	71	5.38	202	E N.E.	3.7	Var.	9.8	0.1	1.1	1.5	2.0	5.0	0.4
Castleton Gardens .	496	65.1	84	73.1	76	10.16	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	65.8	73	68.2	62	2.84	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	65.5	88	70.0	71	5.86	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	56.1	83	55.5	70	5.48	...	...	...	...	...	-	...	...	...	...	...

RAINFALL FOR MAY, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	May, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In			In.
Manchioneal	1.93	1.09	5	8	17.34
Spring Valley	5.20	1.51	27	10	...
Bath	2.15	1.27	5	6	13.73
Moore Town	2.79	...	...	...	21.72
Port Antonio	2.02	0.95	5	8	18.68
Fellowship	1.47	0.75	5	9	24.88
Johnson River Bridge	3.95	2.01	26	7	9.10
Shrewsbury	4.37	1.58	20	7	16.19
Cedar Valley, St. Thos	4.50	2.05	1	7	11.32
Hill Gardens	5.48	2.25	26	9	11.10
Buff Bay	4.24	2.85	25	5	9.41
Greenvale	5.89	3.68	25	11	...
Mt. Holstein	3.70	1.29	25	15	9.51
Stony Hill Reft.	5.36	1.70	7	12	9.89
Castleton Gardens	10.16	2.74	27	15	12.31
Lawrence Tavern	...	...	...	...	...
Water Valley	6.14	3.63	25	7	8.09
Agualta Vale	2.92	1.80	25	4	...
Hampstead	4.31	1.30	25	4	...
Albany Ry. St.	4.15	2.38	25	7	...
Richmond, St. Mary	3.89	2.75	25	13	7.87
Kendal, St. Mary	7.64	1.95	25	9	...
Gayle, P.W.D.	2.28	0.70	25	8	7.36
Rio Hoe	6.66	2.57	24	9	8.87
Unity Valley	8.74	3.07	27	8	10.27
Moneague	8.74	2.27	24	11	8.70
			27		
Union Hill	4.72	2.53	25	6	...
Claremont	5.33	1.24	26	7	8.15
Albion	6.18	1.20	26	11	8.34
Averham Park	5.10	2.31	25	10	10.54
Ballintoy					
Means	4.78	...	...	...	11.97

Northern Division.	May, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria	2.71	1.10	26	6	7.14
Ocho Rios	4.20	2.30	25	8	6.58
Drax Hall	2.18	0.93	5	9	7.86
Liberty Hill	4.12	3.00	25	6	...
St. Ann's Bay	2.85	1.22	25	10	5.81
Richmond Estate	3.88	2.07	25	9	8.14
Llandovery	4.25	2.17	25	5	7.67
Southfield	4.10	2.64	25	8	8.64
Brown's Town	5.89	3.08	24	8	7.79
Hyde Park	5.86	2.56	26	5	5.32
Dry Harbour	3.95	2.85	25	4	4.95
Chewmagna	7.36	3.10	17	10	6.93
Home Castle	4.35	2.85	24	5	6.30
Richmond Pen	6.95	1.55	24	6	8.07
Mahogany Hall	8.48	2.28	24	10	8.86
Brampton Bryan	6.48	3.30	24	6	5.75
Bryan Castle	6.17	3.60	25	7	5.45
Braco	1.73	0.75	25	6	5.00
Arcadia	4.71	2.40	24	7	5.02
Harmony Hall	1.99	0.74	25	5	4.97
Vale Royal	6.88	2.69	24	7	6.39
Colchis Pen	6.75	2.00	27	7	7 46
Swanswick	7.65	2.35	25	8	...
Hyde	7.20	2.75	24	7	8.10
Georgia	...	...	...	...	...
Long Pond	7.38	2.53	25	8	5.30
Hyde Hall	...	...	...	...	...
Steelfield	6.65	2.25	25	7	5.88
Etingdon	...	...	...	...	...
Oxford	4.35	1.65	24	6	6.03
Cambridge	5.71	2.30	24	7	6.85
Lottery	4.97	2.02	28	7	6.43
Falmouth P.W.D.	0.93	0.42	26	6	5.37
Holland Pen	3.86	2.41	26	8	5.49
Kent	4.19	1.70	25	5	5.61
Canaan	6.12	3.00	26	10	...
Lima	2.36	1.45	25	4	5.29
Content	2.63	1.10	25	4	7.23
Belfield	1.80	0.80	26	5	...
Moor Park	3.26	0.83	25	10	6.57
Success	2.08	1.00	16	3	4.60
Cinnamon Hill	0.66	0.43	16	3	5.42
Rose Hall	1.15	0.95	16	3	4.84
Running Gut	0.45	0.17	16	3	5.27
Montego Bay	3.49	1.10	30	13	7.64
Fairfield, St. James	3.85	0.90	23	9	8.44
Round Hill	1.30	0.75	25	4	7.46
Sandy Bay	4.90	2.00	10	10	9.21
Lucea	3.52	1.10	10	11	7.97
Westfield	8.68	1.15	23	18	...

Central Sub-Division.	May, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	2.76	1.22	5	10	8.00
Shanton	3.01	0.93	19	16	...
Linstead	7.08	2.40	17	13	10.10
Berkshire Hall	...	...	...	...	...
Point Hill	7.08	2.00	26	14	13.24
Carew Castle	5.22	0.79	17	14	...
Worthy Park	4.44	1.33	26	8	8.29
Chapelton	1.77	0.45	5	10	8.92
Danks Works	2.09	0.50	26	13	...
Savoy House	2.87	0.70	26	14	9.06
Cave Valley	4.85	2.70	26	5	10.02
Means	4.23	...	...	...	6.99
West Central Division.					
Catadupa	19.76	3.13	30	23	...
Baillieston	...	...	...	...	...
Farm Plantation	3.24	0.65	1	7	10.26
Brokenhurst	4.90	1.45	2	6	10.27
Christiana	7.35	3.57	24	11	12.24
Chudleigh	8.76	2.00	1	10	...
Kendal, Manchester	3.91	0.75	1	9	10.96
Marshalls Pen	4.33	2.05	1	9	...
Mandeville, P.W.D	4.85	2.07	1	11	6.54
Carlton, Mandeville	5.09	1.86	1	11	8.57
Fairfield, Manchester	3.31	1.15	1	10	9.39
Ulster Spring	9.26	1.38	26	15	12.13
Albert Town	8 49	2.24	27	10	...
Low River	4.82	0.98	24	9	...
Troy	15.36	1.60	28	17	16.80
Windsor Pen, Trel.	11.04	2.82	30	16	10.96
Wallingford	14.50	3.08	20	16	...
Balaclava	12.95	1.52	25	15	15.04
Siloah	16.62	2.50	25	19	12.69
Appleton Estate	14.09	3.63	25	19	...
Maggotty	10.23	1.55	6	18	...
Kempshot	9.14	3.25	25	16	10.35
Kew Park	13.77	4.30	19	18	12.81
Hazelymph	7.32	1.30	25	17	11.94
King Gate	6.87	2.00	9	10	8.64
Darliston	20.03	3.56	17	19	16.53
Whithorn	17.00	3.10	23	19	13.81
Great Valley	5.48	1.10	12	12	13.86
Brownsville	9.85	1.57	29	22	14.45
Fontabelle	12.86	3.20	23	18	8.95
Morgan's Bridge	10.94	1.75	17	10	11.90
King's Valley	12.24	1.80	23	20	12.00
King's Vale Police St.	6.59	1.51	23	19	8.71
Means	5.42	...	..	...	11.66

Southern Division.	May, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	1.16	0.81	6	8	11.25
East Prospect	0.94	0.68	5	6	...
Morant Bay	1.56	0.66	5	6	8.37
Easington	1.24	0.50	26	5	6.26
Bull Bay	...	...	...	..	...
Gordon Town	...	...	...	...	...
Hope Gardens	2.84	0.95	26	7	6.54
Mona	...	...	...	...	...
Half-way Tree	...	...	...	...	...
Lunatic Asylum	...	...	...	...	...
Public Works Office	3.72	2.14	7	5	4.81
Plumb Point L. H.	2.26	1.35	26	4	4.98
Ballast Ground	...	...	..	...	...
Spanish Town	1.68	1.07	26	4	5.97
Hog Hole Pen	...	...	...	...	...
Browns Hall	4.37	1.05	26	12	9.50
Old Harbour	1.65	1.20	22	2	5.98
May Pen	0.93	0.50	26	5	7.53
Clarendon Pk. Ry. St.	3.79	2.50	26	6	...
Denbigh	0.70	0.70	26	1	...
Amity Hall	0.00	0.00	...	...	...
New Yarmouth	5.20	4.75	26	2	4.49
Milk River	1.68	0.80	31	6	...
Victoria Town	0.64	0.64	26	1	9.70
Stone's Hope	2.12	0.51	1	8	9.71
Newport, Manchester	2.37	0.82	2	6	9.13
Alligator Pond	0.00	0.00	...	...	6.26
Potsdam	...	...	...	...	...
Long Hill	...	...	...	...	...
Pepper	5.95	1.50	24	8	8.93
Torrington	2.51	1.13	26	11	...
Bethlehem, St. Eliz.	3.34	1.00	1	11	11.88
Santa Cruz	12.12	3.78	24	14	13.07
Pedro Plains	1.07	0.48	2	7	4.13
Black River	5.30	1.38	24	13	7.46
Spring Hill	9.03	2.41	24	15	...
Font Hill	8.60	3.10	24	7	8.66
Peters Ville	18.88	3.80	7	19	11.81
Mount Edgecombe	14.90	3.10	17	18	7.97
Bluefields	18.12	3.16	23	16	12.15
Sweet River	11.38	2.27	10	14	9.42
Windsor, Sav.-la-Mar	11.72	2.20	5	22	9.22
Sav.-la-Mar P.W.D.	8.61	1.75	24	20	9.18
Retreat	12.31	1.80	5	18	8.82
White Hall	5.42	1.12	17	20	...
Negril Point L. H.	5.38	1.13	23	19	5.79
Means	6.05	...	...	...	8.24

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	May.	
	1907.	Average.
	In.	In.
North Eastern Division .	4.78	11.97
Northern .	4.23	6.99
West Central .	5.42	11.66
Southern .	6.05	8.24
Means .	5.12	9.71

The Rainfall for May was less than one-half the average in the North Eastern and West Central Divisions, while it was below the average in the Northern and Southern Divisions. For the whole Island the rainfall was a little more than half the average. The greatest fall, 20.03 inches, occurred at Darliston in the West Central Division, while no rain fell at Amity Hall and Alligator Pond in the Southern Division.

April.

Weather Report No. 340. Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
	In.	In.		
Amity Hall .	0.20	0.20	15	1
Retreat .	1.67	0.50	29	6
New Yarmouth .	0.10	0.08	29	2
Chudleigh .	4.58	2.50	28	6
Denbigh .	0.00	0.00	...	...

H. H. Cousins.

Weather Office,
Govt. Laboratory, Kingston.

No. 342

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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 racto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

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
	ft.	in.	in.	°	°	°	°	°	°		°		
Negril Point Light House	33	29.941	29.909	78.6	82.5	86.7	73.0	13.7	88.9	30	68.2	21	20.7
Castleton Gardens .	496	..	...	69.9	81.2	86.8	69.9	16.9	90	20	66	9	24
Hope Gardens .	668	29.936	29.878	75.0	82.3	85.9	75.3	10.6	90	*4	72	15	18
Stony Hill Reformatory .	1,400	...	...	71.3	80.5	85.8	66.4	19.4	89	*28	65	23	24
Hill Gardens .	4,907	29.221	29.195	62.7	66.4	70.7	58.1	12.6	73	*3	56	2	17

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	72.0	80	73.6	75	8.20	226	E.	4.7	E S.E.	8.3	1.3	0.4	4 3	3.6	4.7	0.0
Castleton Gardens .	496	68.6	96	74.6	82	9.01	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	68.3	78	69.5	64	2.65	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	68.5	90	71.6	74	6.82	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	60.4	89	61.6	87	3.27	...	...	...	...	...		...	...	...	...	...

* And on other days.

RAINFALL FOR JMNE, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	June, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell	Average.
	In.	In			In.
Manchioneal	4.56	2.70	23	11	10.99
Spring Valley	9.27	2.97	17	11	...
Boston	12.80	5.50	17	10	...
Bath	7.21	1.55	16	15	13.91
Moore Town	13.04	...	...	...	27.69
Port Antonio	13.28	3.70	23	19	17.95
Fellowship	15.25	3.97	23	17	23.08
Johnson River Bridge	10.33	3.55	16	13	17.62
Shrewsbury	6.11	1.77	24	9	11.78
Cedar Valley, St. Thos	12.23	4.20	16	11	15.01
Hill Gardens	3.27	1.60	14	8	8.01
Buff Bay	2.84	0.87	23	4	7.27
Greenvale	1.27	0.23	24	11	...
Mt. Holstein	3.27	0.65	14	14	8.85
Stony Hill Reft.	6.82	2.04	14	16	7.34
Castleton Gardens	9.01	1.79	12	20	9.95
Lawrence Tavern	9.70	1.65	4	13	7.44
Water Valley	1.04	0.30	16	6	6.11
Agualta Vale	0.61	0.28	16	3	...
Hampstead	1.21	0.34	17	7	...
Albany Ry. St.	0.93	0.36	18	4	...
Richmond, St. Mary	5.06	0.85	15	15	7.51
Kendal, St. Mary	4.85	...	...	7	...
Gayle, P.W.D.	3.17	1.12	26	11	6.80
Rio Hoe	8.92	3.80	27	17	8.75
Unity Valley	6.20	2.00	27	15	8.59
Moneague	4.88	1.44	27	16	7.75
Union Hill	5.00	0.83	22	10	...
Claremont	4.08	2.00	27	6	5.98
Albion	3.20	1.40	27	12	6.82
Avernam Park	6.18	2.85	27	10	5.70
Ballintoy	2.11	0.47	20	9	6.51
Means	6.74	...	...	...	10.73

Northern Division.	June, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria	0.75	0.56	21	4	4.47
Ocho Rios	2.70	1.90	27	2	4.63
Drax Hall	4.24	2.65	27	6	5.48
Liberty Hill	4.26	2.50	27	8	...
St. Ann's Bay	4.35	2.59	27	9	3.73
Richmond Estate	3.25	2.69	27	6	4.92
Llandovery	3.43	2.87	27	3	4.26
Southfield	3.84	2.10	27	8	6.19
Brown's Town	3.37	1.10	22	9	4.12
Hyde Park	5.55	1.40	5	7	8.76
Dry Harbour	2.94	1.34	15	5	3.86
Chewmagna	7.99	2.84	14	14	6.91
Home Castle	4.15	2.25	15	5	4.16
Richmond Pen	5.70	2.85	5	6	5.18
Mahogany Hall	4.66	1.56	22	12	5.35
Brampton Bryan	2.25	0.57	22	8	3.46
Bryan Castle	2.40	0.63	15	7	3.47
Braco	0.74	0.20	18	7	3.14
Arcadia	1.54	0.40	22	6	4.38
Harmony Hall	1.34	0.50	16	7	2.84
Vale Royal	2.48	1.55	16	6	4.43
Colchis Pen	6.71	2.00	5	9	4 89
Swanswick	3.05	1.35	16	8	...
Hyde	...	...	...	...	...
Georgia	1.47	0.80	16	7	3.73
Long Pond	1.12	0.52	9	5	4.56
Hyde Hall	1.79	0.94	16	6	...
Steelfield	1.42	1.05	9	3	4.27
Etingdon	0.89	0.40	16	6	...
Oxford	1.50	0.65	13	7	4.28
Cambridge	2.45	0.90	13	8	4.93
Lottery	2.97	1.21	13	7	4.09
Falmouth P.W.D.	1.14	0.33	13	6	2.75
Holland Pen	2.18	0.60	13	13	4.03
Kent	2.37	0.71	22	7	3.74
Canaan	7.53	2.44	5	17	...
Lima	3.23	0.73	27	6	5.64
Content	2.97	0.80	22	8	4 20
Belfield	4.82	1.05	23	13	...
Moor Park	3.35	0.94	14	15	10.43
Success	2.90	1.20	11	5	2.64
Cinnamon Hill	3.69	1.05	11	6	3.28
Rose Hall	3.45	1.10	11	6	3.10
Running Gut	5.66	1.26	9	9	3.11
Montego Bay	6.55	1.65	28	14	7.43
Fairfield, St. James	6.18	1.50	18	11	7.68
Round Hill	6.35	1.10	11	15	6.11
Sandy Bay	7.94	1.26	24	13	7.55
Lucea	6.88	1.45	22	20	9.04
Westfield	16.04	2.74	7	21	...

Central Sub-Division.	June, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	1.88	1.06	12	8	6.07
Shanton	4.93	2.35	6	14	...
Linstead	3.99	1.04	13	15	8.25
Berkshire Hall	6.95	2.20	14	15	11.33
Point Hill	3.92	0.80	16	9	10.06
Carew Castle	7.45	2.17	14	13	...
Worthy Park	2.76	1.05	22	9	6.93
Chapelton	2.39	0.95	16	10	6.91
Danks Works	2.58	1.09	16	11	...
Savoy House	2.87	1.15	16	12	10.81
Cave Valley	5.23	1.30	10	11	7.66
Means	3.60	...	...	...	5.46
West Central Division.					
Baillieston	...	...	...	...	...
Farm Plantation	5.25	2.35	14	8	10.76
Brokenhurst	5.33	3.30	23	6	13.71
Christiana	3.61	0.95	23	8	8.38
Chudleigh	3.71	0.83	16	13	...
Kendal, Manchester	8.08	2.60	17	9	13.35
Marshalls Pen	8.77	4.00	16	11	...
Mandeville, P.W.D	9.99	4.67	16	14	7.29
Carlton, Mandeville	9.38	4.50	16	9	14.30
Fairfield, Manchester	4.57	1.50	18	9	10.08
Ulster Spring	4.34	1.36	5	8	5.13
Albert Town	3.02	1.07	6	8	...
Low River	3.66	1.20	25	6	...
Troy	7.79	2.00	5	9	7.11
Windsor Pen, Trel.	11.30	2.80	14	17	9.26
Wallingford	4.66	1.60	11	7	...
Balaclava	4.90	1.89	11	7	4.60
Siloah	5.87	1.90	12	6	7.22
Appleton Estate	5.24	2.13	12	11	...
Maggotty	6.37	2.25	12	13	...
Kempshot	8.17	1.80	5	19	9.50
Kew Park	6.85	1.50	6	17	9.61
Hazelymph	7.96	1.55	5	14	7.79
King Gate	7.45	0.98	24	18	10.36
Darliston	11.49	2.69	12	16	12.90
Whithorn	13.15	3.00	16	15	9.80
Great Valley	11.85	3.10	29	18	13.38
Brownsville	13.48	2.89	9	22	14.51
Fontabelle	9.88	1.97	12	11	9.80
Morgan's Bridge	13.48	2.21	12	16	10.45
King's Valley	11.44	1.55	7	12	11.88
King's Vale Police St.	8.77	1.47	9	18	11.56
Means	8.55	...	...	...	10.24

Southern Division.	June, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	8.58	5.94	18	15	8.21
East Prospect	7.21	2.14	23	19	...
Morant Bay	4.95	1.80	16	8	10.26
Easington	6.83	1.20	25	15	9.56
Bull Bay	...	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	2.65	0.86	14	9	5.30
Mona	2.57	0.50	24	7	...
Half-way Tree	2.30	1.12	17	6	4.02
Lunatic Asylum	...	...	...	...	...
Public Works Office	2.62	0.75	16	8	4.16
Plumb Point L. H.	2.50	1.20	16	10	4.39
Ballast Ground	...	...	...	...	...
Spanish Town	1.05	0.44	17	5	5.08
Hog Hole Pen	...	...	...	...	...
Browns Hall	3.51	1.39	16	7	9.82
Old Harbour	1.85	0.65	17	4	7.56
May Pen	3.65	1.62	16	5	6.95
Clarendon Pk. Ry. St.	3.63	1.34	16	6	...
Denbigh	2.80	1.80	16	3	...
Amity Hall	3.50	1.30	24	5	...
New Yarmouth	3.17	1.04	18	6	6.06
Milk River	2.92	0.88	23	7	...
Victoria Town	3.16	2.08	16	3	7.79
Stone's Hope	3.40	1.46	16	7	10.38
Newport, Manchester	5.11	1.51	16	8	10.30
Alligator Pond	1.27	0.94	23	2	6.04
Potsdam	...	...	...	...	...
Long Hill	...	...	...	...	...
Pepper	1.05	0.35	6, 17	5	5.38
Torrington	...	...	...	...	...
Bethlehem, St. Eliz.	2.56	1.45	6	9	5.19
Santa Cruz	4.54	2.00	6	9	6.11
Pedro Plains	...	...	...	...	...
Black River	4.47	1.30	11	11	3.89
Spring Hill	2.74	1.42	14	9	...
Font Hill	8.70	4.20	6	8	5.75
Peters Ville	7.84	1.90	14	14	7.93
Mount Edgecombe	6.60	2.18	11	16	6.23
Bluefields	8.32	2.20	22	10	9.67
Sweet River	10.16	1.76	22	13	7.21
Windsor, Sav.-la-Mar	9.47	3.40	22	17	6.51
Sav.-la-Mar P.W.D.	9.46	3.65	22	16	6.18
Retreat	...	...	...	...	...
White Hall	8.44	1.75	22	20	...
Negril Point L. H.	8.20	1.50	8	15	5.96
Means	4.93	...	...	...	6.85

NOTES.

Comparative Table of Rainfall.

(based upon the "Average" Stations only.)

	June.	
	1907.	Average.
	In.	In.
North Eastern Division .	6.74	10.73
Northern .	3.60	5.46
West Central .	8.55	10.24
Southern .	4.93	6.85
Means .	5.96	8.32

The Rainfall for June was therefore much below the average for the whole Island. The greatest fall 16.04 inches occurred at Westfield in the Northern Division, while the least 0.61 inches fell at Agualta Vale in North Eastern Division.

May.

Weather Report No. 341. Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
	In.	In.		
Halfway Tree .	3.00	1.01	8	5
Ballast Ground .	2.72	1.70	7	4
Bull Bay .	0.89	0.46	5	3
Gordon Town .	5.60	1.60	26	8
Hardware Gap .	5.99	...	...	...
Irish Town .	5.56	1.18	26	8
Baillieston .	8.48	3.16	26	11
Farm Plantation .	3.24	0.65	31	7

H. H. Cousins.

Weather Office,
Govt. Laboratory, Kingston.

No. 343.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1907.

METEOROLOGICAL RESULTS.

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 standard only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Negril Point Light House	33	29.977	29.947	79.3	83.9	88.0	71.9	16.1	91	12	69.2	5	21.8
Castleton Gardens .	496	..	...	69.4	84.8	89.9	68.8	21.1	92	25–27	67	5–9–10–20	25
Hope Gardens .	668	29.973	29.915	75.5	85.8	88.9	75.5	13.4	92	27	72	5–31	20
Stony Hill Reformatory .	1,400	...	...	71.0	83.2	88.0	68.0	20.0	92	30	65	5	27
Hill Gardens .	4,907	25.265	25.212	63.6	66.5	71.8	58.0	13.8	74	18–20	57	11–15–16	17

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Negril Point Light House	33	70.6	75	73.1	70	3.90	196	E.N.E.	4.2	E S.E.	6.9	0.0	0.4	2.9	1.3	7.6	0.0
Castleton Gardens .	496	68.3	96	73.9	69	6.75	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens .	668	65.6	73	68.3	55	1.94	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory .	1,400	68.1	90	72.9	71	3.96	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens .	4,907	56.4	75	63.4	90	5.32	...	...	...	...	...	...	...	...	...	...	...

RAINFALL FOR JULY, 1907.

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 tables recently prepared. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	July, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell	Average.
	In.	In.			In.
Manchioneal	5.05	1.50	10	11	8.24
Spring Valley	7.81	2.73	10	14	...
Bath	8.67	1.85	10	18	10.80
Boston	5.93	1.67	24	10	8.09
Moore Town	16.38	5.10	14	...	...
Port Antonio	8.55	2.65	10	20	11.69
Fellowship	13.00	2.50	10	19	16.81
Johnson River Bridge	8.45	1.60	10	12	...
Shrewsbury	6.35	1.50	10	15	...
Cedar Valley, St. Thos	3.60	1.62	10	4	8.52
Hill Gardens	5.32	4.01	10	8	4.04
Buff Bay	2.72	0.86	10	4	8.04
Greenvale	2.24	1.10	10	9	...
Mt. Holstein	3.19	1.36	4	9	...
Hardware Gap	8.42	...	...	...	4.32
Irish Town	2.11	1.00	25	3	...
Stony Hill Reft.	3.96	1.53	10	11	5.53
Castleton Gardens	6.75	1.62	21	10	6.43
Water Valley	2.01	0.95	10	6	...
Agualta Vale	1.70	0.80	10	4	...
Hampstead	3.32	1.62	10	8	...
Albany Ry. St.	1.26	0.93	10	5	...
Richmond, St. Mary	2.24	1.05	3	8	4.25
Kendal, St. Mary	2.60	1.25	3	5	...
Gayle, P.W.D.	1.53	1.04	10	8	...
Rio Hoe	4.19	0.66	10	13	4.62
Unity Valley	7.24	1.98	2	15	5.79
Moneague	4.57	0.86	7	14	4.81
Union Hill	7.25	2.92	2	9	...
Claremont	...	...	...	...	...
Albion	5.23	1.34	7	8	4.41
Averham Park	2.84	1.15	22	12	3.74
Means	5.89	...	...	...	7.06

Northern Division.	July, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	3.36	0.85	14	8	4.13
Ocho Rios	0.90	0.70	4	2	...
Drax Hall	0.99	0.45	10	4	2.76
Liberty Hill	1.53	0.70	4	4	...
St. Ann's Bay	1.22	0.38	4	5	3.37
Richmond Estate	0.67	0.25	4	6	2.28
Llandovery	0.47	0.30	4	3	1.91
Southfield	2.08	0.83	4	6	...
Brown's Town	2.39	1.10	4	8	3.31
Hyde Park	...	...	...	...	...
Dry Harbour	0.80	0.45	4	3	...
Chewmagna	3.04	0.80	29	7	...
Home Castle	1.15	0.60	4	4	2.19
Richmond Pen	2.65	0.85	4	6	3.12
Mahogany Hall	3.49	1.13	5	10	4.12
Brampton Bryan	1.70	0.90	2	5	2.22
Bryan Castle	1.30	0.83	7	3	1.80
Braco	0.65	0.45	7	2	1.86
Arcadia	1.32	0.62	4	5	2.03
Harmony Hall	1.65	1.05	4	2	1.57
Vale Royal	2.74	1.11	1	6	3.07
Colchis Pen	2.95	1.17	2	3	3.18
Swanswick	3.50	1.70	2	4	...
Hyde	3.20	1.40	2	5	5.06
Georgia	2.83	1.45	2	6	2.41
Long Pond	2.45	0.97	28	4	...
Hyde Hall	2.55	1.00	2	7	...
Steelfield	2.48	1.12	28	3	3.06
Etingdon	1.63	1.10	2	5	...
Oxford	1.45	0.80	2	3	2.41
Cambridge	2.57	1.10	1	5	3.33
Lottery	1.36	0.55	2	7	2.39
Falmouth P.W.D.	0.54	0.35	3	3	1.67
Holland Pen	nil	nil	0	0	1.91
Kent	...	...	...	...	...
Canaan	3.43	1.50	5	8	3.14
Lima	0.52	0.25	6	3	...
Content	0.30	0.30	28	1	2.20
Belfield	...	...	...	...	...
Moor Park	1.01	0.60	4	8	...
Success	0.20	0.20	4	1	1.63
Cinnamon Hill	0.10	0.10	4	1	1.11
Rose Hall	0.10	0.10	4	1	1.00
Running Gut	0.24	0.20	25	2	1.07
Montego Bay	3.64	1.55	2	12	3.66
Fairfield, St. James	3.25	1.60	2	7	4.00
Round Hill	3.25	1.75	2	6	4.11
Sandy Bay	7.45	2.15	22	13	5.46
Lucea	8.86	4.50	4	14	4.36
Westfield	11.70	2.3	15	20	...

Central Sub-Division.	July, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	1.06	0.49	10	4	4 19
Shanton	7.52	3.82	16	12	...
Linstead	5.61	1.40	5	12	6.13
Berkshire Hall	6.21	1.15	2	14	...
Point Hill	7.66	2.45	5	7	6.43
Carew Castle	6.80	2.00	5	10	...
Worthy Park	3.94	0.86	6	12	4.34
Chapelton	1.53	0.68	7	5	4.35
Danks Works	1.80	0.67	7	6	...
Savoy House	2.9	0.57	7	8	...
Cave Valley	2.25	0.55	13	7	4.95
Means	2.34	...	...	...	3.10
West Central Division.					
Catadupa	11. 0	3.50	4	15	...
Farm Plantation	0.85	0.45	10	2	5.91
Brokenhurst	1.03	0.50	30	5	7.06
Christiana	3.17	1.09	4	9	4.90
Chudleigh	3.09	1.07	13	5	...
Kendal, Manchester	2.70	1.25	7	4	6.14
Marshalls Pen	2.45	0.76	10	8	5.45
Mandeville, P.W.D	4.20	1.09	10	13	6.24
Carlton, Mandeville	3.15	0.92	10	7	...
Fairfield, Manchester	1.87	0.54	11	10	...
Ulster Spring	3.21	1.12	2	10	4.71
Albert Town	...	...	...	...	...
Low River	1.69	0.55	13	4	...
Troy	...	...	...	...	...
Windsor Pen, Trel.	6.54	1.70	2	8	6.69
Wallingford	1.98	0.63	19	5	...
Balaclava	1.66	0.69	13	5	6.04
Siloah	4.17	1.40	19	8	...
Appleton Estate	3.18	0.82	19	11	7.58
Maggotty	9.01	2.80	16	13	8.98
Kempshot	4.80	0.91	4	12	6.39
Kew Park	9.40	1.83	4	13	11.14
Hazelymph	5.52	1.05	4	16	9.49
King Gate	4.02	2.41	2	10	...
Darliston	13.17	1.74	16	19	12.72
Whithorn	9.65	2.50	5	17	11.69
Great Valley	13.73	4.15	29	9	10.61
Brownsville	13.64	2.85	3	18	...
Fontabelle	5.43	1.15	8	16	8.55
Morgan's Bridge	5.27	0.68	13	17	11.44
King's Valley	9.82	1.12	15	14	11.89
King's Vale Police St.	10.72	2.00	13	22	...
Means	5.73	...	...	...	8.18

Southern Division.	July, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	3.95	0.75	11	17	3.24
East Prospect	5.25	0.83	17	16	...
Morant Bay	4.81	0.85	17	14	6.52
Easington	5.11	1.90	10	13	6.88
Bull Bay	3.48	1.00	25	7	2.71
Gordon Town	2.66	1.17	25	4	3.29
Hope Gardens	1.94	1.32	10	4	2.93
Mona	...	...	...	...	...
Half-way Tree	...	...	...	...	...
Lunatic Asylum	2.13	1.19	10	4	...
Public Works Office	...	...	...	...	...
Plumb Point L. H.	2.15	1.32	10	10	2.08
Ballast Ground	2.10	0.66	25	4	...
Spanish Town	0.75	0.75	10	1	2.73
Hog Hole Pen	...	...	...	...	...
Browns Hall	5.76	2.50	31	7	...
Old Harbour	nil	nil	0	0	3.05
May Pen	1.69	0.67	31	4	4.01
Clarendon Pk. Ry. St.	1.10	0.70	11	4	...
Denbigh	0.74	0.50	10	2	3.13
Amity Hall	...	...	...	...	...
New Yarmouth	1.00	1.00	11	1	2.93
Milk River	0.66	0.66	10	1	...
Victoria Town	0.56	0.44	11	2	3.36
Stone's Hope	1.23	0.45	7	4	5.28
Newport, Manchester	1.22	0.50	10	4	5.32
Alligator Pond	0.82	0.71	10	2	3.64
Potsdam	...	...	...	...	...
Long Hill	...	...	...	...	...
Pepper	0.80	0.55	10	4	3.45
Torrington	...	...	...	...	...
Bethlehem, St. Eliz.	1.14	0.72	16	5	...
Santa Cruz	3.85	1.56	31	9	5.99
Pedro Plains	nil	nil	0	0	...
Black River	4.49	1.38	17	11	5.03
Spring Hill	4.86	1.55	16	12	...
Font Hill	5.40	0.90	16	9	6.66
Peters Ville	5.35	1.45	11	10	7.25
Mount Edgecombe	6.35	1.88	16	12	6.99
Bluefields	7.00	1.40	24	13	..
Sweet River	7.75	1.50	16	14	7.43
Windsor, Sav.-la-Mar	5.90	1.45	17	15	6.99
Sav.-la-Mar P.W.D.	4.98	1.66	17	16	6.10
Retreat	2.92	0.87	17	9	8.19
White Hall	2.76	0.52	28	11	...
Negril Point L. H.	3.90	1.00	16	15	...
Means	3.07	...	...	...	4.81

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	July.	
	1907.	Average.
	In.	In.
North Eastern Division .	5.89	7.06
Northern .	2.34	3.10
West Central .	5.73	8.18
Southern .	3.07	4.81
Means .	4.26	5.79

The Rainfall for July was a little below the average throughout the Island. The maximum rain-fall recorded was at Moore Town in the north-eastern division, 16·83 in. No rain fell at Pedro Plains and Old Harbour in the southern division and at two or three places in the northern division almost *nil* was recorded.

It is requested that all rainfall cards be sent to the Weather Office, Chapelton.

Maxwell Hall,
Government Meteorologist.

No. 344

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1907.

METEOROLOGICAL RESULTS.

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.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	...	...	82.7	85.3	86.1	81.7	4.4	88	6*	80	3*	8
Negril Point Light House	33	29.977	29.939	77.9	82.7	87.8	71.9	15.9	89.9	4	69.2	18	20.7
Castleton Gardens	496	...	...	68.7	84.4	90.1	68.7	21.4	94	10	65	20*	29
Hope Gardens	668	29.996	29.916	75.8	68.4	90.6	57.5	15.1	94	6*	72	26	22
Stony Hill Reformatory	1,400	...	...	73.2	82.3	88.8	67.2	21.6	92	4*	60	28	32
Kempshot Observatory	1,773	29.970	29.921	73.0	77.2	83.2	70.3	12.9	86.1	11	67.2	29	18.0
Hill Gardens	4,907	25.251	25.240	63.5	67.5	74.5	58.1	16.4	79	29	57	3*	22

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	...	...	...	...	1.21	...	E	8.4	E	11.2	1.8	2.4	1.2	1.6	2.4	1.2
Negril Point Light House	33	71.3	80	73.0	73	9.00	195	S E E	4.1	S.E. E	8.1	0.3	0.0	3.5	3.1	6.0	0.0
Castleton Gardens	496	68.1	96	73.1	69	2.72	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	65.7	70	68.2	55	0.97	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	70.1	89	72.3	71	3.50	...	...	...	...	...	...	...	...	...	...	...
Kempshot Observatory	1,773	65.9	78	68.4	74	2.82	154	E.	6.8	E	4.0	0.5	0.3	4.0	0.0	7.0	1.0
Hill Gardens	4,907	56.4	77	61.7	84	1.97	...	...	...	...	...	-	...	...	...	...	-

* And on other days.

RAINFALL FOR AUGUST, 1907.

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 Weather Report, No. 256A. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	August, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In			In.
Manchioneal	1.55	0.65	12	6	7.46
Spring Valley	3.13	1.16	12	8	...
Bath	3.58	1. 1	12	7	9.55
Boston	1.21	0.50	26	4	11.07
Moore Town	11.08	5.15	19	3	...
Port Antonio	6.98	1.70	12	18	10.67
Fellowship	12.48	4.25	12	12	10.66
Johnson River Bridge	6.07	2.34	12	7	...
Shrewsbury	6.23	3.24	12	9	...
Cedar Valley, St. Thos	4.57	2.35	12	6	7.76
Hill Gardens	1.97	0.50	15	9	8.36
Buff Bay	3.97	1.96	12	4	4.37
Greenvale	0.62	0.26	12	6	...
Mt. Holstein	0.89	0.28	15	9	...
Hardware Gap	...	...	...	...	...
Stony Hill Refl.	3.50	2.30	28	10	10.08
Castleton Gardens	2.72	1.08	29	8	10.70
Water Valley	1.17	0.64	29	4	...
Agualta Vale	0.78	0.30	12	5	...
Hampstead	0.36	0.15	29	4	...
Albany Ry. St.	2.50	2.00	29	4	...
Richmond, St. Mary	0.63	0.20	28	5	5.84
Kendal, St. Mary	2.15	1.44	15	3	...
Gayle, P.W.D.	1.62	1.47	28	3	...
Rio Hoe	5.20	1.73	15	8	6.58
Unity Valley	3.97	2.45	1	8	6.55
Moneague	4.59	2.62	1	7	5.72
Union Hill	2.83	1.59	16	4	...
Claremont	1.65	0.80	1	3	6.14
Albion	1.50	1.00	15	4	6.37
Averham Park	2.29	0.85	17	5	4.71
Ballintoy	3.40	1.17	15	3	6.28
Means	3.65	...	...	...	7.71

Northern Division.	August, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria	3.46	1.50	18	6	4.09
Ocho Rios	0.18	0.18	29	1	...
Drax Hall	0.39	0.15	4	3	3.86
Liberty Hill	0.02	0.02	13	1	...
St. Ann's Bay	0.33	0.15	15	4	3.27
Richmond Estate	0.16	0.09	2	3	...
Llandovery	0.11	0.11	4	1	3.10
Southfield	2.27	2.10	16	4	...
Brown's Town	0.91	0.49	15	3	3.54
Hyde Park	2.40	1.15	27	4	...
Dry Harbour	0.25	0.25	16	1	...
Chewmagna	4.67	2.03	22	9	...
Home Castle	0.70	0.40	15	3	3.72
Richmond Pen	4.13	1.07	27	7	5.27
Mahogany Hall	2.2	0.33	15	4	...
Brampton Bryan	1.97	0.60	27	6	3.42
Bryan Castle	0.45	0.25	28	3	3.04
Braco	nil	...	...	...	3.24
Arcadia	1.02	0.40	27	5	3.67
Harmony Hall	0.21	0.09	15	3	2.86
Vale Royal	1.22	0.53	15	5	4.78
Colchis Pen	5.73	2.63	28	4	5 67
Swanswick	3.10	0.75	27	6	...
Hyde	...	...	...	...	...
Georgia	1.00	0 40	15	4	...
Long Pond	2.75	1.25	28	6	...
Hyde Hall	2.15	1.15	28	4	...
Steelfield	1.78	0.48	28	6	...
Etingdon	0.85	0.25	12	2	...
Oxford	0.90	0.40	28	4	3.06
Cambridge	2.06	0.80	28	5	3.81
Lottery	1.23	0.58	28	6	3.69
Falmouth P.W.D.	nil	...	...	...	2.89
Holland Pen	1.32	1.09	22	3	2.81
Kent	0.28	0.25	12	2	...
Canaan	3.58	0.55	16	9	4.84
Lima	1.19	0.48	8	4	...
Content	0.82	0.35	12	5	...
Belfield	..	...	...	...	...
Moor Park	1.99	0.64	16	11	...
Success	0.20	0.20	16	1	2.07
Cinnamon Hill	0.46	0.36	16	2	2.11
Rose Hall	0.30	0.25	16	2	1.95
Running Gut	0.55	0 30	16	2	2.64
Montego Bay	3.18	0.87	29	6	5.60
Fairfield, St. James	3.58	1.50	29	6	6.17
Round Hill	4.50	1.20	7	7	5.20
Sandy Bay	5.42	0.80	12	11	5.44
Lucea	5.90	1.48	1	15	6.09
Westfield	11.45	2.30	27	23	...

Central Sub-Division	August, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	2.29	1.74	26	4	5.87
Shanton	6.44	3.29	27	10	...
Linstead	4.57	1.70	5	10	7.59
Berkshire Hall	6.18	1.55	15	7	...
Point Hill	5.13	1.32	28	9	6.62
Carew Castle	5.65	2.21	17	10	...
Worthy Park	2.63	0.62	30	11	4.75
Chapelton	2.30	0.70	27	5	7.53
Danks Works	3.60	1.11	17	9	...
Savoy House	3.40	1.37	17	9	...
Cave Valley	4.45	1.20	18	8	7.40
Means	2.15	...	...	...	4.33
West Central Division					
Catadupa	7.66	1.10	30	18	...
Farm Plantation	2.90	1.50	21	6	7.55
Brokenhurst	...	...	...	...	...
Christiana	7.09	1.20	25	13	5.20
Chudleigh	4.03	1.23	25	12	...
Shooter's Hill	5.71	1.83	5	10	...
Kendal, Manchester	4.68	1.70	6	8	...
Marshalls Pen	3.46	1.10	5	9	9.39
Mandeville, P.W.D	3.82	0.88	24	18	8.55
Carlton, Mandeville	3.12	0.67	5	12	...
Fairfield, Manchester	2.70	1.00	25	9	...
Ulster Spring	3.21	1.14	14	5	7.01
Albert Town	3.09	1.10	15	7	...
Low River	3.48	1.25	26	6	...
Troy	7.21	2.90	18	6	7.87
Fontabelle, Trel.	5.65	2.80	29	10	6.50
Windsor Pen, Trel.	1.79	0.35	18	8	8.66
Wallingford	4.13	1.46	26	11	...
Balaclava	3.87	1.70	26	9	6.60
Siloah	8.53	2.50	26	9	...
Appleton Estate	8.05	2.18	26	11	10.51
Maggotty	13.62	2.25	28	17	11.04
Kempshot	2.82	1.01	27	13	8.73
Kew Park	6.97	1.36	9	16	11.62
Hazelymph	8.66	1.75	26	13	11.13
King Gate	5.86	1.80	7	10	...
Darliston	14.28	1.92	24	20	14.62
Whithorn	10.39	1.60	28	22	11.05
Great Valley	9.10	1.10	14	12	12.30
Brownsville	12.65	2.07	30	17	...
Fontabelle	13.55	1.98	27	19	11.97
Morgan's Bridge	17.24	2.83	27	21	11.02
King's Valley	15.53	2.65	27	17	13.24
King's Vale Police St.	7.25	2.14	1	17	...
Means	7.96	...	..	...	9.73

Southern Division.	August, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	1.21	0.57	13	10	5.28
East Prospect	2.59	0.60	12	10	...
Morant Bay	2.64	0.68	12	12	5.13
Easington	3.51	1.70	12	7	5.19
Bull Bay	...	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	0.97	0.27	27	6	5.71
Mona	2.73	1.40	25	5	...
Half-way Tree	...		...	...	...
Lunatic Asylum	3.54	1.50	28	6	...
Public Works Office	4.08	1.66	26	6	...
Plumb Point L. H.	1.63	0.90	25	7	3.74
Ballast Ground	...	..	...	...	...
Spanish Town	0.31	0.25	26	3	...
Hog Hole Pen	0.46	0.46	26	1	4.92
Browns Hall	4.08	1.30	17	11	...
Old Harbour	0.76	0.60	26	2	4.07
May Pen	0.43	0.23	12	2	3.74
Clarendon Pk. Ry. St.	3.03	1.68	26	4	...
Denbigh	...	...	...	...	...
Amity Hall	...	...	.	...	...
New Yarmouth	0.72	0.62	12	2	...
Milk River	1.50	1.50	12	1	...
Victoria Town	1.28	0.73	12	2	3.20
Stone's Hope	5.31	2.36	12	6	6.08
Newport, Manchester	3.94	1.46	25	6	4.83
Alligator Pond	1.43	0.83	25	7	3.42
Potsdam	...	...	...	...	...
Long Hill	...		...	..	...
Pepper	4.20	1.75	11	6	...
Torrington	...	...	...	...	...
Bethlehem, St. Eliz.	2.50	0.90	26	8	...
Santa Cruz	4.89	1.60	28	9	9.24
Pedro Plains	2.62	1.87	25	5	..
Black River	6.92	1.72	28	13	5.84
Spring Hill	8.64	2.05	28	13	...
Font Hill	9.15	2.40	17	9	5.00
Peters Ville	13.00	2.07	15	17	9.71
Mount Edgecombe	8.75	1.94	15	18	7.18
Bluefields	10.96	2.25	15	17	...
Sweet River	5.79	1.30	19	12	8.38
Windsor, Sav.-la-Mar	7.29	1.60	27	19	7.03
Sav.-la-Mar P.W.D.	7.12	1.55	28	16	7.13
Retreat	12.12	2.36	28	17	...
White Hall	13.18	2.20	28	18	7.56
Negril Point L. H.	9.00	1.33	14	18	...
Means	4.75		...	...	5.83

NOTES.

COMPARATIVE TABLE OF RAINFALL.

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

	August.	
	1907.	Average.
	In.	In.
North Eastern Division .	3.65	7.71
Northern .	2.15	4.33
West Central .	7.96	9.73
Southern .	4.75	5.83
Means .	4.63	6.90

The Rainfall for August, 1907 was below the average throughout the Island. The maximum rain-fall recorded was at Morgan's Bridge in the west central division, 17·24 in. No rain fell at Falmouth and Braco in the northen division and a dozen other stations in the same division recorded under half an inch for the month.

THE DROUGHT IN JAMAICA.

The following figures are taken from the Weather Reports ; –

Month.	N.E.	N.	W.C.	S.	The Island.	Average for Island.
	in.	in.	in.	in.	in.	in.
1906 Nov. ...	12·97	5·59	6·77	5·05	7·60	6·50
" Dec. ...	5·37	2·12	0·36	0·42	2·04	5·53
1907 Jan. ...	5·41	2·70	1·47	0·73	2·58	3·79
" Feb. ..	4·71	3·18	3·89	3·21	3·75	2·62
" March ...	0·76	0·07	0·21	0·40	0·36	2·86
" April ...	0·86	0·62	2·43	1·07	1·24	4·20
" May ..	4·78	4·23	5·42	6·05	5·12	9·56
" June ..	6·74	3·60	8·55	4·93	5·96	6·11
" July .	5·89	2·34	5·73	3·07	4·26	5·79
" Aug. ...	3·65	2·15	7·96	4·75	4·63	6·90

It appears that these general averages do not show why the drought should have been so severely felt. We require Maps showing how different localities were affected month after month ; and the study of the drought on these lines will be taken up as soon as possible.

REGISTER OF EARTHQUAKES, continued.

The Report on the Earthquake of January 14th, 1907, No. 337 of this series, p. 18, carried us up to July 5th. Since then we have had the following shocks :—

	Hr.	Min.	No.
July 23rd	8	11 a.m.	I. Kingston.
" 28th	4	30 "	I. do
Aug. 8th	5	30 p.m.	I. Unity Valley.
" 22nd	4	25 "	II. Kingston, N. 85° E. 0·012 in. 3 secs.
" 28th	10	30 "	I. Kempshot Obs.

It thus appears that the cessation of the After-shocks has been well-marked ; they apparently stopped at the end of July. With reference to the shock of August 22nd, it was not felt at Chapelton as far as I am aware : but the seismometer there was examined and was found to have recorded a No. II shock N. 8° E. : 0·010 in. This does not combine well with the Kingston record and other circumstances. They may both have been shocks felt locally only, and at different dates ; a rather poor beginning of the new series.

A few copies of the following Weather Reports are wanted by the Weather Office :—

No. 278 March, 1902. No. 279 April, 1902.

The undersigned will be greatly obliged if any recipients of the W. R's. will send him a few copies.

MAXWELL HALL,
Government Meteorologist.

Chapelton.

No. 345

LIBRARY. DEC 26 1907 Weather Bureau.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1907.

METEOROLOGICAL RESULTS.

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.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.927	29.890	...	...	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.915	29.872	78.8	83.6	88.2	72.7	15.5	91.0	10	70.4	4	20.6
Kingston	50	29.920	29.865	76.8	84.2	90.2	73.1	17.1	94.5	...	70.2	...	24.3
Castleton Gardens	496	...	...	69.7	82.7	89.0	69.7	19.3	91.0	7	67.0	4	24.0
Hope Gardens	668	29.928	29.867	74.1	83.0	88.7	72.7	16.0	95.0	9	68.0	23	27.0
Stony Hill Reformatory	1,400	...	...	72.4	80.1	87.2	68.0	12.2	90.0	10 23	66.0	3	24.0
Kempshot Observatory	1,773	29.923	29.879	72.6	77.4	82.9	70.4	12.5	85.2	12	68.0	18	17.2
Hill Gardens	4,907	25.214	25.190	63.8	67.6	71.9	58.2	13.7	77.0	10	56 0	4	21.0

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	...	...	...	...	3.34	...	E	5.3	E	7.1	1.8	2.1	1.4	1.3	2.3	1.5
Negril Point Light House	33	73.1	82	73.4	72	7.39	...	S E	2.7	E	7.2	0.0	1.0	4.1	1.3	7.6	0.5
Kingston	50	69.3	78	74.6	73	2.36	...	N	1.0	S.E.	7.2	1.6	0.3	1.7	4.5	1.0	1.9
Castleton Gardens	496	67.9	93	77.5	84	10.62	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	68.2	81	72.9	71	4.26	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	70.2	92	74.3	82	5.27	...	...	...	...	...	...	...	...	...	...	...
Kempshot Observatory	1,773	67.0	83	68.7	74	7.15	157	E.	6.3	E	3.4	0.6	0.4	2.6	0.0	8.0	0.0
Hill Gardens	4,907	58.1	80	61.8	81	5.11	...	...	...	...	...	...	...	...	...	...	

RAINFALL FOR SEPTEMBER, 1907.

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 Weather Report, No. 256A. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	September, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Manchioneal	5.06	2.08	26	7	11.54
Spring Valley	7.59	2.58	26	8	...
Bath	7.60	1.76	26	15	11.70
Boston	6.63	1.10	14	13	12.62
Moore Town	10.38	4.15	16	4	...
Port Antonio	6.44	1.05	15	16	10.58
Fellowship	11.53	2.80	14	18	15.10
Johnson River Bridge	5.87	0.92	27	12	...
Shrewsbury	5.66	1.44	15	17	...
Cedar Valley, St. Thos	5.30	1.52	14	10	12.24
Hill Gardens	5.11	2.47	13	11	9.30
Buff Bay	4.78	1.06	27	7	5.64
Greenvale	2.59	0.60	14	10	...
Mt. Holstein	4.53	1.11	17	15	...
Hardware Gap	5.43	...	...	...	8.50
Stony Hill Reft.	5.27	1.60	13	15	9.88
Castleton Gardens	10.62	7.37	13	10	10.57
Lawrence Tavern	6.75	2.00	14	14	8.65
Water Valley	7.20	4.20	2	7	...
Agualta Vale	6.74	4.75	2	9	...
Hampstead	2.07	0.36	14	10	...
Albany Ry. St.	3.83	2.85	2	5	...
Richmond, St. Mary	3.57	1.00	23	12	4.41
Kenda St. Mary	2.52	0.90	16	5	...
Gayle, P.W.D.	5.52	1.40	14	13	...
Rio Hoe	5.50	2.05	13	12	6.43
Unity Valley	5.19	1.54	14	14	8.14
Moneague	4.31	1.08	14	14	7.48
Union Hill	...	...	...	...	...
Claremont	4.48	1.60	14	7	6.16
Albion	4.48	1.31	17	9	6.82
Averham Park	3.98	1.06	14	10	4.73
Ballintoy	4.60	1.28	13	8	...
Means	5.98	...	...	...	9.67

Northern Division.	September, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Port Maria	6.58	1.17	6	12	3.64
Ocho Rios	4.08	1.30	23	9	...
Drax Hall	5.76	1.45	13	10	3.82
Liberty Hill	4.98	1.43	14	10	...
St. Ann's Bay	5.46	2.22	13	8	...
Richmond Estate	6.16	2.13	6	9	4.11
Llandovery	7.93	5.05	13	7	3.76
Southfield	5.00	1.41	13	8	...
Brown's Town	3.98	1.04	14	11	...
Hyde Park	3.05	1.90	13	5	...
Dry Harbour	5.72	4.00	13	5	...
Chewmagna	4.88	1.25	13	9	...
Home Castle	5.68	2.78	13	10	4.48
Richmond Pen	4.74	0.87	11	8	5.96
Mahogany Hall	5.10	1.68	13	10	6.22
Brampton Bryan	4.42	2.04	13	7	3.81
Bryan Castle	3.80	1.75	17	5	3.43
Braco	1.75	0.75	13	7	3.63
Arcadia	3.32	1.67	13	7	4.30
Harmony Hall	3.69	2.50	13	7	3.87
Vale Royal	4.48	1.52	13	8	4.85
Colchis Pen	5.70	3.60	13	3	...
Swanswick	3.45	2.30	17	5	...
Hyde	...	...	...	...	...
Georgia	3.55	1 44	17	6	...
Long Pond	2.30	1.00	17	5	...
Hyde Hall	2.54	0.97	13	5	...
Steelfield	3.50	1.28	13	8	...
Etingdon	2.32	0.95	13	8	...
Oxford	2.78	1.20	13	8	4.08
Cambridge	2.70	1.40	13	4	4.68
Lottery	3.66	0.86	17	9	4.47
Falmouth P.W.D.	2.20	1.12	17	9	3.28
Holland Pen	2.94	1.00	2	7	...
Kent	2.66	0.50	13	12	...
Canaan	6.62	1.75	23	10	8.06
Lima	4.02	1.15	29	9	...
Content	3.07	1.02	23	9	...
Belfield	..	...	..	...	...
Moor Park	6.92	1.67	23	11	...
Success	2.80	1.40	29	4	3.77
Cinnamon Hill	...	...	...	...	...
Rose Hall	...	...	...	...	...
Running Gut	...	...	...	..	...
Montego Bay	3.93	0.95	29	11	7.47
Fairfield, St. James	6.60	1.24	29	8	7.84
Round Hill	2.95	1.10	23	4	5.56
Sandy Bay	5.28	1.89	23	9	6.33
Lucea	3.00	1.30	23	8	6.62
Westfield	5.84	1.17	12	20	...

Central Sub-Division.	September, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	2.72	0.76	13	10	5.89
Shanton	...	...	...	...	...
Linstead	3.83	1.30	13	10	7.63
Berkshire Hall	3.76	1.00	29	6	...
Point Hill	3.94	1.35	13	4	11.19
Carew Castle	6.14	3.36	13	15	...
Worthy Park	...	...	...	...	...
Chapelton	3.02	0.73	3	10	7.27
Danks Works	4.07	1.24	21	14	...
Savoy House	4.23	1.37	21	15	...
Cave Valley	4.64	0.95	13	12	7.45
Means	4.60	...	...	...	5.73
West Central Division.					
Catadupa	11.48	1.80	4	20	...
Farm Plantation	3.47	...	...	...	8.32
Brokenhurst	4.37	1.10	16	11	8.48
Christiana	5.12	1.50	11	12	9.45
Chudleigh	3.74	1.10	11	10	...
Shooter's Hill	2.87	0.99	12	10	...
Spitzbergen	2.81	1.04	11	10	...
Kendal, Manchester	2.89	1.40	11	8	10.12
Marshalls Pen	3.04	0.80	11	13	8.43
Mandeville, P.W.D	3.82	0.83	30	16	9.76
Carlton, Mandeville	3.72	1.02	30	14	...
Fairfield, Manchester	3.30	0.63	30	16	...
Ulster Spring	4.10	1.10	17	10	7.10
Albert Town	6.49	1.20	2	10	...
Low River	6.24	1.60	2	12	...
Troy	14.76	3.23	13	15	11.86
Fontabelle, Trel.	3.95	1.05	29	14	11.44
Windsor Pen, Trel.	2.90	0.46	2	10	9.64
Wallingford	9.72	3.42	1	13	...
Vauxhall	14.10	2.50	3	16	...
Balaclava	10.06	3.50	1	13	9.64
Siloah	10.38	2.50	3	12	...
Appleton Estate	13.26	2.93	3	15	11.32
Maggotty	...	...	...	...	...
Kempshot	7.15	2.16	23	13	10.09
Kew Park	9.48	1.11	5	21	11.74
Hazelymph	10.83	1.92	26	20	9.69
King Gate	6.89	1.64	23	14	...
Darliston	20.84	2.31	8	25	...
Whithorn	8.74	2.00	3	16	11.05
Great Valley	8.32	1.70	19	13	12.41
Brownsville	7.42	1.10	17	18	...
Fontabelle	...	...	...	...	...
Morgan's Bridge	11.92	2.67	30	22	9.86
King's Valley	9.56	2.30	30	20	12.82
King's Vale Police St.	7.39	1.43	14	20	...
Means	7.19	...	...	...	10.17

Southern Division.	September, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	3.34	0.76	15	16	7.64
East Prospect	3.74	1.25	14	14	...
Morant Bay	3.15	0.75	15	11	8.23
Easington	2.37	0.50	15	9	8.11
Bull Bay	1.83	1.53	13	2	3.48
Gordon Town	2.98	...	...	...	7.46
Hope Gardens	4.26	2.15	13	9	6.54
King's House Garden	4.36	1.04	14	11	5.03
Mona	...	...	...	...	...
Half-way Tree	1.87	0.80	9	...	4.09
Lunatic Asylum	1.68	0.45	11	7	...
Kingston S. Camp Rd.	2.40	0.63	13	8	...
" P. W. Office	2.36	0.87	13	7	...
Plumb Point L. H.	1.57	1.20	13	8	3.63
Ballast Ground	1.16	0.25	28	6	...
Spanish Town	1.68	0.82	10	6	4.90
Hog Hole Pen	3.01	1.10	13	6	5.84
Browns Hall	...	...	...	...	...
Old Harbour	5.64	3.05	13	5	5.50
May Pen	0.74	0.35	13	5	6.51
Clarendon Pk. Ry. St.	2.30	1.12	30	4	...
Denbigh	nil	...	...	...	5.39
Amity Hall	...	...	...	...	...
Money Musk	0.93	0.42	28	4	...
New Yarmouth	0.55	0.55	4	1	5.68
Springfield	0.83	0.43	22	4	...
Milk River	0.99	0.23	13	6	...
Victoria Town	1.40	0.75	13	4	6.66
Stone's Hope	3.33	1.20	10	11	7.94
Newport, Manchester	2.05	0.50	15	10	7.12
Alligator Pond	1.27	0.50	10	4	4.06
Potsdam	...	...	...	...	...
Long Hill	...	...	...	...	...
Pepper	4.40	1.15	10	10	8.09
Torrington	2.10	0.60	14	9	5.19
Bethlehem, St. Eliz.	4.96	1.60	10	11	...
Santa Cruz	12.90	2.66	10	12	9.47
Pedro Plains	0.97	0.60	16	4	...
Black River	5.42	1.60	21	12	5.24
Spring Hill	7.51	1.05	14	15	...
Font Hill	5.30	0.95	3	9	4.84
Peters Ville	8.23	1.72	3	18	8.68
Mount Edgecombe	7.71	1.42	3	19	7.86
Bluefields	5.99	0.66	27	17	...
Sweet River	6.94	1.63	29	14	7.37
Windsor, Sav.-la-Mar	4.70	1.35	1	17	7.11
Sav.-la-Mar P.W.D.	3.33	0.72	27	18	6.64
Retreat	7.08	1.21	22	16	7.69
White Hall	6.90	2.50	9	10	...
Negril Point L. H.	7.39	2.25	8	16	...
Means	3.78		...	...	6.39

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	SEPTEMBER.	
	1907.	Average.
	In.	In.
North Eastern Division .	5.98	9.67
Northern .	4.60	5.78
West Central .	7.19	10.17
Southern .	3.78	6.39
Means .	5.39	7.99

The Rainfall for September, 1907, was below the average throughout the Island. The maximum rainfall recorded was at Darliston in the west central division, 20.84 in. No rain fell at Denbigh in the southern division.

A No. I shock of earthquake was felt at Windsor Pen, Trelawny, Sept. 29th at 1.40 a.m.

At the same place there was a hail-storm, Sept. 11th; the hail-stones were three-quarters of an inch in length.

At Kempshot on the same day a flash of lightning from a clear sky took the lightning rod: it was followed by a loud report, and had a startling effect. The nearest cloud was at least a mile away.

MAXWELL HALL, Govt. Meteorologist.

Weather Office, Chapelton.

ON THE PROTECTION OF BUILDINGS FROM LIGHTNING.

In the Jamaica Weather Report No. 136 for September, 1891, an article on this subject was published: it was based upon the Report of the Lightning Rod Conference,* and actual experience in Jamaica.

More recently a lightning Research Committee was organized: and in 1905, their Report was published † confirming the methods previously advocated; the Report, however, contains an important preface by Sir Oliver Lodge, F.R.S., which discriminates between two different kinds of lightning flashes, and thereby explains failure in certain instances. To ensure perfect safety, the former process of protection has to be extended; large buildings must have two or more rods; all metal-work must be connected with the rods; and the rods themselves must be connected by horizontal bars, along the roofs, and near the ground.

It therefore seems advisable to reprint the former article in W. R. No. 136 without any alteration, and then to add the remarks by Sir Oliver Lodge, and the rules adopted by the Committee.

In order to protect any building from lightning a copper rod should be attached to the roof or chimney so that the top of the rod may reach a few feet above the highest part of the roof or chimney; this copper rod should be continued down to the ground by other rods or by ropes or strips of copper; and the lower end of this conductor should be fastened to a large plate of copper buried deep in the ground.

The highest part of this conductor which projects above the roof or chimney is called the *terminal*; the terminal should be pointed; and a few curved spikes of copper should be firmly attached and soldered to the terminal about nine inches below its point; these spikes should be about six inches in length, they should have sharp points and they should be neately arranged so as to form a kind of plume. These spikes and points should not be painted; they may be gilded, but gilding is not necessary.

The points allow a slow but continual discharge of electricity from the ground into the air, supposing that the ground and air are not in electric equilibrium; and by thus quietly discharging the ground they tend to prevent the passage of lightning from the clouds to the ground discharged.

The terminal should be a round copper rod not less than half an inch in diameter*; it should not project more than three or four feet above the roof or chimney or it will injure the building by swaying with the wind and it should be attached by clamps of metal, or of wood, or of both.

The terminal should be connected with the earth-plate by similar rods carried outside the building: the ends of the rods should be filed so that they may form a neat over-lapping joint three inches in length; then the joints should be rivetted with copper rivets; and finally the joints should be carefully soldered.

But the terminal may be connected with the earth-plate by a copper rope or tape; if a rope be used, it should not be less than five-eights of an inch in diameter: if a tape, it should be an eight of an inch in thickness and its breadth should not be less than two inches.

Ropes and tapes are sometimes more convenient than rods; but rods can always be bent so as to follow the outlines of the building: and unless the greatest care is taken in connecting the rope or tape with the foot of the terminal, there will always be anxiety as to the condition of the joint.

All metal-work about the roofs and walls, such as gutters and water pipes, should be connected with the conductor by strips of copper or muntz-metal.

The conductor may be attached to the outside of the roof and walls by any kind of clamps and it may be painted or not.

The earth-plate should be a sheet of copper not less than three feet square: it should be buried so deep in the ground that the earth in contact is always damp. Perhaps a depth of four or five feet will generally be sufficient. In case of rock, a trench five or six yards in length should be cut so as to lead the foot of the conductor away from the building, and the trench should become deeper and deeper so that the conductor may lead downwards. If the lower end of the conductor be buried in this trench with small strips of copper attached here and there so as to take advantage of interstices in the rock, it will be found to act as well as the earth-plate proper: but in this case plenty of charcoal should be buried in the trench to assist conduction. Generally speaking, charcoal should always be buried with the earth-plate: it assists conduction and preserves the metal from oxidization. Of course the greatest care should be taken to attach the earth-plate firmly to the conductor, and to solder the joint so that no oxidization may produce resistance to electric currents.

*Edited by the Secretary, G. J. Symons, F.R.S.; London; Spon, 16 Charing Cross; 1882.

† Journal of the Royal Institute of British Architects, 12, No. 13, pp. 405-428.

*The Kempshot rod is nine-sixteenths of an inch in diameter.

The importance of well made joints, soldered while the metal is bright from the file, is very great: for if the joints are imperfect or rusty, the slow discharge from the ground upwards cannot take place: and passing from one extreme to the other, the rapidity of action of a flash of lightning is such that any resistance may produce disastrous results.

It may be asked assuming that the lightning conductor has been properly made, do not flashes of lightning occur where the discharge is so great that no rod could ensure safety? and the reply is, "No: there is no authentic case on record where a properly constructed conductor failed to do its duty."* The thickest copper rod which has been fused by lightning was one-third of an inch in diameter: and the recommendations above as to the thickness of rods, ropes, and tapes, are far above this limit. When the tension of the electricity in a cloud reaches a point sufficient to overcome the resistance of the intervening air, a flash passes to the ground; the tension is at once relieved, but perhaps it again increases, when another flash passes; and so on; the electricity in a cloud does not therefore increase beyond a certain limit measured by the resistance of the intervening air.

The next point for discussion is the extent of area protected by the rod; the old rule was that the rod protected an area whose radius was twice the height of the rod. In many cases in Europe this rule has been known to fail; but for Jamaica where the flashes generally come straight down from the clouds at a great height above the ground I am inclined to think that the rule holds good.

The small extent of the area protected shows that rods do not "attract" lightning, as is often supposed; they merely allow such flashes as would otherwise fall within the defined area to pass below ground without doing any damage.

By means of this rule we can determine whether one rod is sufficient to protect a large building, or whether two or more are required, or whether one rod on a house is sufficient to protect the yard.

With regard to country houses in Jamaica, I would recommend a moderately high lightning rod attached to a pole so placed as to protect the yard, and another rod attached to the dwelling house, the latter being a good deal the lower of the two; the effect being that the higher rod in the yard receives all the flashes as a rule, while the house is in perfect safety. The rod in the yard might of course be made high enough to protect both the house and its surroundings; but this would be difficult: and even then all the metal-work of the house should be connected with the ground. So that a moderately high rod in the yard, and a lower one for the house, will most easily meet all the requirements.

I might here mention that all the old rusty iron rods formed of bars of iron clumsily hooked together, and having little or no connection with the ground, should be pulled down as a source of danger rather than otherwise; and that all good iron rods properly jointed, whose diameters are not less than an inch and a quarter, such as are often attached to churches court houses, &c., should be examined from time to time to insure their proper connection with their earth-plates; for if the latter are of copper, galvanic action soon removes the connection; if they are of iron, the iron soon rusts away; and then the rods become a source of danger.

The following extract has been taken from the Report of the Lightning Research Committee:—"It has been pointed out by Sir Oliver Lodge that lightning discharges are of two distinct characters, which he has named the A flash and the B flash respectively. The A flash is of the simple type, which arises when an electrically charged cloud approaches the surface of the earth without an intermediate cloud intervening, and under these conditions the ordinary type of lightning conductor acts in two ways, first, by silent discharge, and secondly, by absorbing the energy of a disruptive discharge. In the second type, B, where another cloud intervenes between the cloud carrying the primary charge and the earth, the two clouds practically form a condenser: and when a discharge from the first takes place into the second, the free charge on the earth side of the lower cloud is suddenly relieved, and the disruptive discharge from the latter to the earth takes such an erratic course that no series of lightning conductors of the hitherto recognised type suffice to protect the building. It may be considered that a lightning conductor of the ordinary type, if properly constructed, affords an undefined area of protection against A flashes; but it cannot be said to have any protective area against B flashes. Absolute protection of the whole of a building could only be assured by enclosing the structure in a system of wirework—a contrivance, in fact, of the nature of a bird cage. This should be well connected at various points to earth as nearly all buildings have gas and water-pipes and other metallic conductors in their interiors which are likewise earthed. For structures intended for the manufacture or storage of gunpowder and other explosives, the adoption of this bird cage protection would be justified on the score alone of public safety. Architectural considerations prevent the adoption of such a method in its entirety for ordinary buildings; there is no doubt, however, that practically perfect protection may be assured by a judicious modification of the existing practice of erecting single lightning rods, especially in the case of extensive and lofty buildings that project well above surrounding, structures, or that stand isolated in the open country"

In Jamaica the flashes are nearly all of the A type: but in the month of September there are often two layers of clouds, which produce flashes of the B type, I have often called attention to the fact that nearly all the accidents from lightning in Jamaica occur during that month. It will be noticed that Sir Oliver Lodge does not say why the B flashes should be so erratic. Why should a flash pass through the open half of a house without doing any particular damage, instead of making earth at once? It is at any rate against these horizontal flashes below the tops of the rods that we have to further guard against: and the following are the suggestions of the Lightning Research Committee.

(1.) Two main lightning rods, one on each side, should be provided, extending from the top of each tower, spire, or high chimney stack by the most direct course to earth.

(2.) Horizontal conductors should connect all the vertical rods (a) along the ridge, or any other suitable position on the roof; (b) at or near the ground line.

(3.) The upper horizontal conductor should be fitted with aigrettes or points at intervals of 20 or 30 feet.

(4.) Short vertical rods should be erected along minor pinnacles, and connected with the upper horizontal conductor.

(5.) All roof metals, such as finials, ridging, rain-water and ventilating pipes, metal cowls, lead flashing, gutters, &c,, should be connected to the horizontal conductors.

(6.) All large masses of metal in the building should be connected to earth either directly or by means of the lower horizontal conductor.

(7.) Where roofs are partially or wholly metal-lined they should be connected to earth by means of vertical rods at several points.

(8.) Gas pipes should be kept as far away as possible from the positions occupied by lightning conductors, and as an additional protection, the service mains to the gas meter should be metallically connected with the house services leading from the meter.

*Report of the Lightning Rod Conference, p. 3.

No. 346

LIBRARY. DEC 26 1907

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1907.

METEOROLOGICAL RESULTS.

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.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.889	29.889	...	...	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.894	29.844	77.5	83.3	87.4	71.8	15.6	89.9	7	68.9	5	20.0
Kingston	50	29.894	29.848	75.7	82.5	90.3	72.5	17.8	93.8	6	71.1	28	22.7
Castleton Gardens	496	...	...	69.0	79.0	86.8	68.9	17.9	90.0	26	67.0	*	23.0
Hope Gardens	668	29.900	29.846	72.6	79.4	86.3	70.1	16.2	90.0	7	67.0	*	23.0
Stony Hill Reformatory	1,400	...	...	70.6	75.4	82.3	66.8	15.5	87.0	11	65.0	30	22.0
Kempshot Observatory	1,773	29.893	29.906	72.3	73.7	80.2	69.7	10.5	83.2	12	66.6	10	16.6
Hill Gardens	4,907	25.166	25.134	63.2	63.9	69.2	57.6	11.6	71.0	7	55.0	11	16.0

Station.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles					L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	...	...	...	...	11.63	...	E. N.E.	m. 5.1	E. N.E.	m. 6.8	2.5	2.2	1.7	1.6	2.4	2.3
Negril Point Light House	33	72.2	88	73.5	72	4.25	177	E. N.E.	3.1	N.E.	7.3	0.6	0.8	2.8	1.2	7.4	0.2
Kingston	50	69.4	81	73.6	75	2.24	...	N.	2.8	var.	5.6	2.5	0.3	1.1	5.8	1.9	1.2
Castleton Gardens	496	67.2	93	72.8	82	13.96	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	61.4	66	73.6	84	8.21	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	68.5	93	73.0	92	15.09	...	...	...	...	...	...	...	...	...	...	...
Kempshot Observatory	1,773	67.9	86	69.7	87	6.93	127	E.	6.6	E	4.1	1.5	1.3	1.3	0.3	8.7	0.4
Hill Gardens	4,907	58.3	83	61.0	90	10.37	...	...	...	...	...	...	...	...	...	...	...

* On several days.

RAINFALL FOR OCTOBER, 1907.

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 Weather Report, No. 256A. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	October, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell	Average.
	In.	In.			In.
Manchioneal	22.38	5.30	12	21	24.28
Spring Valley	23.36	3.33	13	20	...
Bath	9.18	2.85	22	13	23.23
Boston	26.09	6.00	29	14	13.56
Moore Town	29.00	...	...	...	...
Port Antonio	30.26	5.35	17	20	15.01
Fellowship	33.54	7.07	15	20	19.75
Johnson River Bridge	8.74	2.67	27	13	...
Shrewsbury	13.34	2.62	16	14	...
Cedar Valley, St. Thos	9.25	2.89	11	14	31.04
Hill Gardens	10.37	1.54	13	22	19.44
Buff Bay	14.13	3.15	19	12	12.33
Greenvale, Portland	17.05	4.15	19	20	...
Mt. Holstein	14.44	2.50	14	25	...
Hardware Gap	...	...	...	...	...
Stony Hill Reft.	15.09	2.04	29	27	14.94
Castleton Gardens	13.96	3.67	4	19	16.06
Lawrence Tavern	...	...	...	...	...
Water Valley	9.65	2.05	17	15	...
Agualta Vale	11.91	4.00	17	13	...
Hampstead, St. Mary	6.24	1.46	14	13	...
Albany Ry. Station	7.35	1.19	27	15	...
Richmond, St. Mary	4.98	0.96	27	23	12.05
Kendal St. Mary	6.49	1.40	10	10	...
Gayle, P.W.D.	8.73	2.91	14	19	...
Rio Hoe	7.94	2.31	14	15	10.34
Unity Valley	7.00	2.12	14	19	9.71
Moneague	7.95	2.13	14	17	12.43
Union Hill	5.28	1.74	15	7	...
Claremont	3.98	2.28	14	5	9.37
Albion	8.23	1.28	11	19	9.02
Averham Park	8.29	2.58	15	14	9.82
Ballintoy	4.03	1.00	19	11	10.38
Means	13.15	...	...	...	15.15

Northern Division.	October, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	15.56	2.15	14	16	9.21
Ocho Rios	7.55	1.70	14	13	...
Drax Hall	6.43	2.09	13	7	7.56
Liberty Hill	5.23	1.59	17	12	...
St. Ann's Bay	5.61	1.41	17	14	9.23
Richmond Estate	7.64	2.00	12	10	8.26
Llandovery	8.36	3.26	17	9	8.10
Southfield, St. Ann	6.79	1.65	17	11	...
Brown's Town	7.44	1.10	1	19	10.78
Hyde Park	6.63	3.20	4	9	...
Dry Harbour	...	...	...	..	...
Chewmagna	7.09	2.75	14	14	...
Home Castle	6.62	1.30	19	14	7.27
Richmond Pen	5.12	1.02	2	7	7.84
Mahogany Hall	4.93	1.01	2	14	7.61
Brampton Bryan	4.14	0.90	17	13	4.85
Bryan Castle	4.88	1.28	17	13	5.44
Braco	3.10	0.70	17	14	5.36
Arcadia	4.04	0.57	14	12	6.27
Harmony Hall	2.41	0.38	13	14	...
Vale Royal	3.27	0.71	14	13	6.65
Colchis Pen	5.55	1.20	20	8	...
Swanswick	5.10	1.10	24	16	...
Hyde	...	...	...	...	...
Georgia	2.29	0.55	4	14	...
Long Pond	3.28	0.90	14	12	...
Hyde Hall	2.75	0.75	14	8	...
Steelfield	2.73	0.80	4	14	...
Etingdon	2.07	0.45	14	11	...
Oxford	3.05	0.75	28	16	7.44
Cambridge	2.05	0.60	16	7	6.71
Lottery	2.26	0.59	17	10	6.57
Falmouth P.W.D.	2.39	0.70	29	12	5.96
Florence Hall	1.81	0.33	4	13	...
Holland Pen	4.80	1.77	17	11	...
Kent	2.90	1.30	18	9	...
Canaan	8.14	2.00	10	12	8.18
Lima	4.63	1.05	4	8	...
Content	3.70	0.74	10	9	...
Belfield	..	...	...	...	...
Moor Park	6.18	2.05	4	15	...
Success	4.15	1.10	18	9	6.27
Cinnamon Hill	...	...	...	...	...
Rose Hall	...	...	...	...	...
Running Gut	2.73	1.10	17	9	...
Montego Bay	4.27	1.21	4	10	8.17
Fairfield, St. James	4.73	0.93	2	8	7.49
Round Hill	3.90	1.10	19	6	6.21
Sandy Bay	2.17	0.63	12	8	10.51
Lucea	6.25	1.67	20	16	9.59
Westfield	7.89	1.66	4	20	...

Central Sub-Division	October, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	5.07	1.59	11	16	10.62
Shanton	9.40	2.41	14	22	...
Linstead	7.16	1.22	10	18	11.08
Berkshire Hall	4.01	1.80	14	9	...
Point Hill	16.79	4.32	29	12	19.66
Carew Castle	...	...	...	...	...
Worthy Park	8.53	1.63	26	12	12.02
Chapelton	7.92	1.70	1	18	13.00
Danks Works	8.82	2.07	14	23	...
Savoy House	10.07	1.84	14	24	...
Cave Valley	7.95	1.80	4	15	10.13
Means	5.96	...	...	...	8.70
West Central Division.					
Baillieston	9.39	1.80	29	18	...
Farm Plantation	8.93	2.00	21	16	15.92
Brokenhurst	16.48	2.80	26	20	16.04
Christiana	12.47	2.80	13	21	14.86
Chudleigh	13.65	2.86	29	21	...
Shooter's Hill	13.08	2.30	27	18	...
Spitzbergen	11.26	1.90	26	18	...
Kendal, Manchester	10.33	2.20	26	14	18.83
Marshalls Pen	11.19	1.45	26	16	12.89
Mandeville, P.W.D	18.93	3.81	11	25	18.05
Carlton, Mandeville	16.30	2.54	11	20	...
Fairfield, Manchester	14.67	1.80	26	19	...
Ulster Spring	7.90	1.35	29	15	10.44
Aibert Town	8.71	1.50	14	14	...
Low River	10.34	1.45	10	15	...
Troy	15.29	3.10	13	17	16.68
Fontabelle, Trel.	7.30	1.65	9	14	11.35
Windsor Pen, Trel.	8.69	2.37	18	18	9.02
Wallingford	16.44	2.18	26	23	...
Balaclava	14.20	2.00	28	21	15.64
Siloah	27.45	4.00	26	21	...
Appleton Estate	27.15	4.48	26	24	12.85
Maggotty	26.96	3.65	14	20	16.36
Vauxhall	...	...	...	...	...
Catadupa	14.17	1.86	20	19	...
Kempshot	6.93	2.53	4	15	9.78
Kew Park	12.60	2.02	10	23	11.50
Hazelymph	12.09	1.92	14	20	10.57
King Gate	5.81	1.18	2	14	...
Darliston	21.42	2.55	13	26	15.43
Whithorn	20.96	2.50	13	26	14.19
Great Valley	10.72	2.25	29	17	12.10
Brownsville	12.54	1.49	26	19	...
Fontabelle	14.83	1.80	17	21	9.81
Morgan's Bridge	14.70	2.37	25	22	15.30
King's Valley	10.80	1.40	1	20	13.36
King's Vale Police St.	13.12	1.27	20	18	...
Means	13.68	...	...	...	13.68

Southern Division.	October, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	11.63	2.18	30	23	11.60
East Prospect	5.70	2.35	14	15	...
Morant Bay	3.31	0.85	22	15	18.04
Easington	10.05	1.90	11	15	18.37
Bull Bay	...	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	8.21	1.25	28	22	11.75
King's House Garden	8.20	1.52	21	19	11.09
Mona	...	...	...	...	...
Half-way Tree	...	...		...	...
Lunatic Asylum	3.54	1.35	1	13	...
Kingston S. Camp Rd.	2.54	0.89	20	10	...
" P. W. Office	2.24	0.87	20	7	8.34
Plumb Point L. H.	3.87	1.50	1	14	8.27
Ballast Ground	...	...	...	...	...
Spanish Town	4.49	0.72	28	10	10.02
Hog Hole Pen	4.55	1.63	10	9	10.48
Browns Hall	13.02	3.15	14	18	...
Old Harbour	18.12	4.03	12	12	11.80
May Pen	7.15	1.36	1	13	15.04
Hillside Estate	6.27	2.24	1	10	...
Amity Hall	...	...	...	...	...
Money Musk	6.81	2.65	14	9	...
Denbigh	8.22	1.90	10	7	10.75
New Yarmouth	7.50	2.00	2	8	...
Exter, Vere	9.71	4.80	14	15	...
Rhymesbury	10.37	2.30	13	9	...
Springfield, Clarendon	8.07	2.07	14	10	...
Milk River	8.44	2.03	13	13	...
Clarendon Pk. Ry. St.	...	..	...	...	...
Victoria Town	6.04	1.37	14	10	13.56
Stone's Hope	7.83	1.93	21	18	14.89
Newport, Manchester	11.37	2.38	28	19	15.84
Alligator Pond	2.82	0.75	24	9	10.90
Pepper	19.25	2.85	13	17	13.45
Long Hill	21.83	2.40	23	24	13.04
Torrington	9.37	1.93	26	17	14.04
Bethlehem, St. Eliz.	16.62	4.82	10	22	..
Santa Cruz	21.49	3.66	1	20	11.78
Pedro Plains	3.89	1.02	21	11	...
Black River	7.29	1.62	14	22	9.03
Spring Hill	...	...	...	...	...
Font Hill	5.90	1.25	21	13	12.66
Peters Ville	11.87	2.40	14	24	11.96
Mount Edgecombe	8.29	1.21	28	23	10.82
Bluefields	11.52	2.11	19	21	...
Sweet River	17.59	2.68	4	17	10.09
Windsor, Sav.-la-Mar	9.28	2.58	4	18	8.29
Sav.-la-Mar P.W.D.	9.93	2.90	4	19	9.99
Retreat	10.66	1.51	14	16	13.46
White Hall	5.90	1.45	17	16	...
Negril Point L. H.	4.25	0.95	4	12	...
Means	9.25	...	...	...	11.73

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	October.	
	1907.	Average.
	In.	In.
North Eastern Division .	13.15	15.16
Northern .	5.96	8.70
West Central .	13.68	13.68
Southern .	9.25	11.73
Means .	10.51	12.32

The Rainfall for October, 1907, was therefore a little below the average. The greatest fall, 33·54 inches occurred at Fellowship near Port Antonio; and the smallest 1·81 ins., occurred at Florence Hall near Falmouth. At Siloah, Appleton, and Maggotty as much as 27 inches fell: indeed the Rainfall was above the average in the middle of the west central division, or rather in an oval area extending from Pepper in St. Elizabeth to Whithorn and Sweet River in Westmoreland.

In the two dry districts in the southern division already referred to in the advanced report published Nov. 8th, namely Kingston, and from Alligator Pond to the Pedro Plains, only 2 to 3 inches fell; and in the northern division the dry district extended from Braco to Sandy Bay, in which only 2 inches fell at several places.

At Port Maria and Old Harbour the rainfall was much larger than at places near these towns.

At Kingston at 11.35 a.m. on the 26th October there occurred a flash of lightning which struck a cocoanut tree, and alarmed a number of people: the flash was of the B type of Sir Oliver Lodge, as described in the W.R for September: and the same report mentioned a similar kind of flash experienced at Kempshot.

A No. II shock of earthquake was felt at Unity Valley at 5.10 p.m. on October 3rd. It was also felt at Mt. Holstein. At the latter place a No. I shock was felt at 7.5 p.m. on October 13th.

At George Town, Grand Cayman, the total fall was 10.39; the greatest was 2.90 on the 15th: and rain fell on 17 days.

MAXWELL HALL, Govt. Meteorologist.

Weather Office, Chapelton.

No. 347.

LIBRARY.
FEB 8 1908
Weather Bureau.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1907.

METEOROLOGICAL RESULTS.

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.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.918	29.928	80.8	84.2	86.1	78.4	7.7	88	1*	74	3	14
Negril Point Light House	33	29.940	29.873	75.9	85.1	87.9	70.1	17.8	90.6	21	66.0	27	24.6
Kingston	50	29.928	29.875	73.5	83.9	90.0	70.8	19.2	92.1	8	67.5	25	24.6
Castleton Gardens	496	...	...	68.8	79.1	85.3	72.1	13.2	87	6*	62	3*	25
Hope Gardens	668	29.932	29.863	70.8	81.9	87.0	63.2	23.8	90	11*	61	31	29
Stony Hill Reformatory	1,400	...	...	69.7	77.7	83.0	66.3	16.7	86	15*	64	30	22
Hill Gardens	4,907	25.235	25.197	62.0	65.0	69.3	56.1	13.2	71	12*	54	29	17

Station.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	...	...	...	...	2.95	..	E. N.E.	8.3	N.E. N	8.3	1.2	2.0	1.2	1.0	1.0	1.1
Negril Point Light House	33	70.3	83	71.1	68	0.53	176	N.E.	6.2	N.E. S	6.7	0.7	0.3	1.4	0.3	4.6	0.6
Kingston	50	67.8	82	71.9	67	0.46	...	N.	2.7	S.E.	5.6	2.1	0.0	0.1	5.1	0.9	0.4
Castleton Gardens	496	67.9	96	71.7	79	15.58	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	66.5	87	74.0	76	3.60	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	66.9	90	71.1	80	3.84	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	57.7	86	61.3	87	8.57	...	...	...	...	..	...	...	...	...	...	...

* And on other days.

RAINFALL FOR NOVEMBER, 1907.

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 Weather Report, No. 256A. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

NORTH-EASTERN DIVISION.	NOVEMBER, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In			In.
Manchioneal	5.83	1.70	5	11	...
Spring Valley	6.98	2.41	5	7	...
Bath	6.43	1.07	21	15	13.51
Boston	6.93	1.50	7	9	...
Moore Town	22.92	10.12	11	...	...
Port Antonio	12.69	6.53	7	24	...
Fellowship	19.29	7.30	8	21	...
Johnson River Bridge	2.31	0.72	7	7	...
Shrewsbury	20.57	4.50	8	23	...
Cedar Valley, St. Thos	7.33	2.86	2	9	9.23
Hill Gardens	8.57	...	...	...	...
Buff Bay	17.47	8.28	8	14	...
Greenvale, Portland	23.77	8.40	8	27	...
Mt. Holstein	16.02	7.55	9	23	...
Hardware Gap	4.30	...	...	...	10.66
Irish Town	3.60	..	.	...	...
Stony Hill Reft.	3.84	1.80	8	14	6.72
Castleton Gardens	...	...	...	...	...
Lawrence Tavern	4.17	2.00	8	4	6.93
Water Valley	7.83	2.19	9	18	...
Agualta Vale	8.62	2.75	8	14	..
Hampstead, St. Mary	9.81	2.14	17	14	...
Albany Ry. Station	7.15	2.65	9	18	...
Richmond, St. Mary	9.93	2.68	9	20	12.22
Kendal St. Mary	10.50	3.75	8	8	...
Gayle P.W.D.	8.06	2.00	9	23	...
Rio Hoe	7.31	2.10	3	15	8.79
Unity Valley	...	...	...	...	...
Moneague	6.98	1.70	3	19	9.44
Union Hill	7.21	1.42	29	9	...
Claremont	5.63	2.00	9	6	9.65
Albion	6.26	0.95	27	16	9.32
Averham Park	8.15	1.62	3	14	10.27
Ballintoy	4.07	1.15	10	1	10.54
Means	6 20	.	...	...	9.69

NORTHERN DIVISION.	NOVEMBER, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average
	In.	In.			In.
Port Maria	8.68	2.90	8	14	9.84
Ocho Rios	9.15	2.40	7	11	...
Drax Hall	14.92	3.80	7	16	9.94
Liberty Hill	9.32	1.39	8	17	...
St. Ann's Bay	9.21	1.76	13	16	10.60
Richmond Estate	...	...	...	...	..
Llandovery	7.75	1.84	7	10	9.10
Southfield, St. Ann	8.91	2.12	7	15	...
Brown's Town	8.08	1.29	27	22	1[illegible].36
Hyde Park	1.95	0.80	17	7	...
Dry Harbour	...	...	...	.	...
Chewmagna	2.31	0.52	7	11	...
Home Castle	4.59	1.70	7	13	7.20
Richmond Pen	2.25	0.63	28	6	4.39
Mahogany Hall	...	...	...	...	.
Brampton Bryan	3.98	1.12	1	8	5.38
Bryan Castle	5.48	1.36	1	13	6.08
Braco	6.45	1.55	7	16	5.99
Arcadia	5.99	1.69	1	9	6.54
Harmony Hall	5.20	1.73	7	16	5.64
Vale Royal	5.02	1.39	1	9	7.21
Colchis Pen	3.32	2.00	27	5	4.97
Swanswick	3.15	1.05	27	16	...
Hyde	...	...	...	...	...
Georgia	...	.	...	...	..
Long Pond	..	...	...	...	...
Hyde Hall	...	...	...	...	...
Steelfield	...	...	...	...	...
Etingdon	...	...	...	..	...
Oxford	4.30	1.45	7	12	5.70
Cambridge	3.72	0.83	7	12	5.88
Lottery	2.40	0.64	7	12	5.29
Falmouth P.W.D.	3.58	2.12	7	.2	5.00
Florence Hall	5.07	1.90	7	16	...
Holland Pen	3.58	2.21	6	5	4.73
Kent	...	...	...	...	...
Canaan	4.62	1.42	13	10	4.21
Lima	3.43	0.95	7	9	...
Content	..	..	...	...	...
Belfield	...	...	...	...	...
Moor Park	3.85	0.96	27	14	...
Success	3.38	1.60	7	8	4.93
Cinnamon Hill	4.26	2.40	7	9	4.76
Rose Hall	4.37	2.10	7	11	4.66
Running Gut	4.67	2.60	7	13	4.55
Montego Bay	3.54	0.87	6	7	4.41
Fairfield, St. James	2.69	0.60	10	9	4.46
Round Hill	3.70	1.50	10	8	4.02
Sandy Bay	2.96	2.30	7	6	5.29
Lucea	1.48	0.54	6	7	6.15
Westfield	2.77	0.80	11	10	...

Central Sub-Division.	November, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	1.35	0.40	10	10	4.30
Shanton	6.25	2.30	8	12	...
Linstead	4.90	2.00	2	10	5.59
Berkshire Hall	5.95	1.50	8	9	...
Point Hill	6.38	2.76	10	5	6.05
Carew Castle	4.40	1.40	9	7	...
Worthy Park	4.19	1.50	8	6	3.67
Chapelton	1.74	0.41	11	8	4.13
Mears	6.42	2.63	4	8	...
Danks Works	1.85	0.65	9	7	...
Savoy House	2.20	0.71	9	9	...
Crofts Hill	2.34	0.63	9	9	...
Cave Valley	5.41	1.64	3	10	4.71
Means	4.80	...	...	...	6.02
West Central Division					
Baillieston	...	...	...	...	...
Farm Plantation	2.00	0.80	8	5	...
Brokenhurst	2.79	0.74	9	9	6.75
Christiana	2.90	0.60	2	11	6.28
Chudleigh	3.58	0.98	4	10	...
Shooter's Hill	5.08	2.35	4	10	...
Spitzbergen	...	...	...	...	...
Kendal, Manchester	3.79	1.70	4	7	6.97
Marshalls Pen	3.26	1.40	4	7	5.10
Mandeville, P.W.D	3.79	1.52	4	17	6.37
Carlton, Mandeville	3.19	0.48	9	11	...
Fairfield, Manchester	5.04	2.35	3	9	...
Ulster Spring	5.39	1.37	3	12	5.54
Albert Town	4.35	0.98	4	11	...
Low River	2.29	0.80	10	9	...
Troy	3.95	1.50	10	8	5.28
Fontabelle, Trel.	2.00	0.75	27	6	6.02
Windsor Pen, Trel.	3.42	1.20	27	14	5.41
Wallingford	5.07	1.50	20	10	...
Balaclava	3.56	0.82	2	9	6.11
Siloah	3.77	0.92	18	9	...
Appleton Estate	2.61	0.86	18	12	5.28
Maggotty	4.53	1.40	28	14	6.38
Catadupa	5.85	1.74	10	11	...
Kempshot	4.47	0.83	13	13	6.82
Kew Park	4.21	1.11	7	14	5.49
Hazelymph	6.59	1.62	13	10	4.87
King Gate	2.24	1.06	10	3	...
Darliston	5.16	0.89	3	14	7.12
Whithorn	2.42	0.70	13	10	...
Great Valley	3.54	2.40	3	5	...
Brownsville	1.55	0.46	2	7	...
Fontabelle	0.66	0.37	7	5	2.84
Morgan's Bridge	2.59	0.51	2	12	5.95
King's Valley	4.18	0.80	10	10	5.71
Glasgow Estate	1.95	1.00	6	4	...
King's Vale Police St.	4.75	1.12	3	12	...
Means	3.68	...	...	...	5.80

Southern Division.	November, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Greatest fall in 24 hours. Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	2.95	0.97	7	13	6.03
East Prospect	2.57	0.85	5	12	...
Morant Bay	2.59	1.05	5	9	6.57
Easington	2.55	0.80	4	8	6.22
Bull Bay	1.02	0.50	1	4	2.70
Gordon Town	4.42	2.00	1	9	7.04
Hope Gardens	3.60	...	...	...	...
King's House Garden	1.74	0.60	29	7	3.31
Mona	...	...	...	...	...
Half-way Tree	2.10	1.12	10	5	3.54
Lunatic Asylum	0.41	0.22	8	5	...
Kingston S. Camp Rd.	0.68	0.27	9	5	...
" P. W. Office	0.46	0.22	9	3	2.66
Plumb Point L. H.	0.36	0.22	8	8	2.22
Ballast Ground	3.34	1.75	3	5	...
Spanish Town	2.23	1.00	17	8	3.02
Hog Hole Pen	2.27	1.62	28	6	3.68
Browns Hall	6.31	1.80	3	9	...
Old Harbour	1.46	0.63	6	3	4.45
May Pen	1.70	0.70	9	6	3.85
Hillside Estate	1.41	0.59	1	5	...
Amity Hall	...	...	...	...	...
Money Musk	...	...	...	...	...
Denbigh	2.58	1.00	1	4	4.76
New Yarmouth	1.10	0.80	6	3	...
Exter, Vere	1.80	0.46	6	6	...
Rhymesbury	3.43	0.85	24	8	...
Springfield, Clarendon	1.46	0.45	4	5	...
Milk River	2.83	1.24	28	8	...
Clarendon Pk. Ry. St.	4.78	1.24	3	9	...
Victoria Town	2.73	0.81	3	8	3.21
Stone's Hope	2.17	0.85	4	4	5.38
Newport, Manchester	1.98	0.44	19	8	7.25
Alligator Pond	1.02	0.41	3	3	3.83
Pepper	5.75	2.80	4	9	5.01
Long Hill	...	...	...	...	...
Torrington	6.35	1.00	4	13	7.19
Bethlehem, St. Eliz.	7.45	2.25	4	14	..
Santa Cruz	2.17	0.80	8	8	5.59
Pedro Plains	1.54	1.45	4	6	...
Black River	2.46	0.60	24	12	4.73
Spring Hill	...	...	...	...	...
Font Hill	2.90	1.00	10	5	6.58
Peters Ville	2.76	0.48	7	15	8.02
Mount Edgecombe	1.58	0.45	18	9	5.27
Bluefields	5.33	2.25	7	16	...
Sweet River	4.02	1.16	4	7	3.87
Windsor, Sav.-la-Mar	1.75	0.64	9	9	3.92
Sav.-la-Mar P.W.D.	1.43	0.35	18	9	3.83
Retreat	0.69	0.20	7	6	5.93
White Hall	0.92	0.36	9	5	...
Negril Point L. H.	0.53	0.26	9	4	...
Means	2.35	...	...	...	4.82

NOTES.

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

	November.	
	1907.	Average.
	In.	In.
North Eastern Division .	6.20	9.69
Northern .	4.80	6.02
West Central .	3.68	5.80
Southern .	2.35	4.82
Means .	4.26	6.58

The Rainfall for November, 1907, was below the average over the island as was pointed out in the note on the November rainfall sent to the press in advance of this report.

The maximum rainfall recorded was 23.77 ins. at Greenvale, Portland, in the north eastern division: and the minimum rainfall recorded was 0.36 ins. at Plumb Point Lighthouse in the southern division.

At George Town, Grand Cayman, the total rainfall for November 1907 was 5.19 in.; 2.86 in. fell on November 9th and on 14 days rain fall.

Earthquakes.—According to the table on page 19 of the Earthquake Report light shocks were to be expected in November. The series commenced November 19th and still continues to the time of writing this note (Dec. 10th.)

Nov. 19th 11 p.m II Chapelton.

This was registered on the duplex seismometer as N 35° E, 0.020 in.

Nov. 23rd 3.0 p.m. I Kingston N 11° E, 0.002.
" 23rd 8.8 p.m. I Chapelton
" 25th 11.30 " I do
" 29th 12.20 a.m. I do

This was registered on the duplex as N 27° W, 0.013 in.

Transit of Mercury.—This was observed at the Kempshot Observatory; the time and position at egress were noted: and measures were taken of the diameter of the planet.

Maxwell Hall, Govt. Meteorologist.

Weather Office, Chapelton.

JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1907.

METEOROLOGICAL RESULTS.

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.

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.

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
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Pt. Light House	8	29.961	29.918	80.2	82.8	84.5	76.7	17.8	88	16	72	11	16.0
Negril Point Light House	33	29.960	29.894	73.5	83.9	86.4	69.8	16.6	88.0	21	66.2	28	21.8
Kingston	50	29.957	29.894	72.3	84.1	89.0	70.1	17.9	90.7	21	67.1	19	23.6
Castleton Gardens	496	...	...	...	...	...	..	...	...	...	...	...	...
Hope Gardens	668	...	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	...	...	69.3	79.2	82.1	66.0	16.1	85	16	64	1	21.0
Hill Gardens	4,907	...	...	...	...	...	...	...	...	...	...	...	...

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	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.		
	ft.	°		°		in.	miles		m.		m.	L.	M.	U.	L.	M.	U.
Morant Pt. Light House	8	...	...	...	...	4.71	...	N.E.	9.6	N.E.	10.0	1.5	2.0	1.0	1.4	2.1	1.2
Negril Point Light House	33	69.4	86	71.0	65	6.37	205	N.E.	5	N.E.	7.7	0.6	0.9	1.3	1.1	4.1	0.2
Kingston	50	66.5	82	70.0	63	1.03	132	N.	4.1	S.E.	10.5	1.7	0.0	0.7	5.4	0.0	0.8
Castleton Gardens	496	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	668	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	66.9	92	75.2	82	3.25	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	..

RAINFALL FOR DECEMBER, 1907.

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 Weather Report, No. 256A. 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.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27
	100

North-Eastern Division.	December, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
Manchioneal	7.51	1.33	23	15	9.51
Spring Valley	8.54	1.00	13	14	...
Bath	7.72	1.44	16	19	8.96
Boston	6.00	1.89	24	5	11.03
Moore Town	18.40	5.50	30	5	...
Port Antonio	11.72	2.75	23	26	13.91
Fellowship	12.86	3.15	23	24	18.42
Johnson River Bridge	5.05	2.39	11	8	...
Shrewsbury	16.84	1.68	8	25	...
Cedar Valley, St. Thos	5.06	1.80	14	9	5.62
Hill Gardens	...	...	...	...	...
Buff Bay	6.21	1.30	28	11	13.68
Vinery	7.87	1.40	8	17	...
Greenvale, Portland	22.35	7.33	7	23	...
Mt. Holstein	16.15	4.00	7	26	...
Hardware Gap	...	...	...	...	...
Irish Town	...	...	...	...	...
Stony Hill Reform	3.25	0.55	18	17	4.31
Castleton Gardens	...	...	...	...	...
Lawrence Tavern	...	...	...	...	...
Water Valley	3.95	0.71	27	13	
Agualta Vale	4.53	0.80	3	16	...
Hampstead, St. Mary	5.39	1.30	27	16	...
Albany Ry. Station	3.56	0.43	8	16	...
Richmond, St. Mary	3.36	0.61	27	15	10.08
Kendal, St. Mary	3.21	1.40	31	8	...
Gayle, P. W. D	...	...	...	...	...
Rio Hoe	7.10	1.50	6	11	9.76
Unity Valley	7.96	1.97	14	18	7.88
Moneague	6.76	1.37	14	19	8.06
Union Hill	4.78	1.41	15	10	...
Claremont	5.10	1.30	5	6	10.48
Albion	5.15	0.97	27	15	8.44
Averham Park	6.53	1.21	26	16	11.29
Ballintoy	3.22	1.15	14	10	5.53
Means	6.59	...	...	...	9.93

Northern Division.	December, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			
Port Maria	7.76	1.50	29	14	7.95
Ocho Rios	3.50	0.50	28	10	...
Drax Hall	4.56	0.90	6	10	8.43
Liberty Hill	5.13	0.82	14	12	...
St. Ann's Bay	7.31	2.00	13	18	6.98
Richmond Estate	4.39	0.65	5	12	8.95
Llandovery	5.25	1.30	15	8	8.48
Southfield, St. Ann	4.84	0.98	6	13	4.84
Brown's Town	6.10	1.00	6	19	9.76
Hyde Park	1.98	0.68	10	6	
Dry Harbour	1.80	1.00	13	7	...
Chewmagna	4.60	1.40	13	15	...
Home Castle	4.26	1.65	14	13	7.70
Richmond Pen	8.73	1.90	14	7	5.21
Mahogany Hall	4.67	2.07	13	12	...
Brampton Bryan	3.73	2.27	14	7	5.76
Bryan Castle	4.53	2.43	14	13	6.28
Braco	3.50	1.50	14	14	6.09
Arcadia	3.33	1.50	13	7	6.86
Harmony Hall	3.01	0.96	13	12	6.43
Vale Royal	3.65	1.03	13	11	8.13
Colchis Pen	1.96	1.10	14	3	4.74
Swanswick	2.50	0.70	13	11	...
Hyde	...	...	...	...	...
Georgia	2.41	0.70	14	12	...
Long Pond	2.08	0.70	14	6	...
Hyde Hall	2.98	0.60	13	11	...
Steelfield	2.17	0.97	14	7	...
Etingdon	1.84	0.94	14	6	...
Oxford	2.81	1.00	14	10	6.97
Cambridge	2.18	0.85	14	5	6.84
Lottery	1.95	0.68	14	7	5.96
Falmouth P.W.D.	2.31	0.50	16	11	5.40
Florence Hall	1.84	0.56	14	10	...
Holland Pen	2.32	0.78	27	7	5.06
Kent	1.83	0.75	19	7	...
Canaan	3.25	0.82	16	9	5.27
Lima	1.23	0.73	14	4	...
Content	1.92	0.75	14	8	...
Belfield	...	...	...	...	...
Moore Park	1.72	0.80	24	7	...
Success	1.87	0.59	14	7	4.26
Cinnamon Hill	2.18	0.65	1	7	5.61
Rose Hall	1.60	0.45	1	7	5.53
Running Gut	2.27	0.71	14	9	5.96
Montego Bay	2.19	1.45	15	6	5.25
Fairfield, St. James	2.89	2.0	15	5	4.64
Round Hill	1.55	1.00	24	3	3.25
Sandy Bay	3.26	1.20	20	6	3.74
Lucea	6.17	1.50	15	11	4.27
Westfield	3.94	1.50	4	10	...

Central Sub-Division.	December, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Headworks, Rio Cobre	4.12	2.45	28	7	1.97
Shenton	2.60	0.91	11	12	...
Linstead	2.75	1.20	2	7	3.56
Berkshire Hall	3.33	1.00	15	10	...
Point Hill	5.74	2.84	15	3	4.52
Carew Castle	2.61	1.40	4	7	...
Worthy Park	3.54	1.77	14	7	2.48
Chapelton	3.34	1.00	13	8	2.30
Mears	...		...		...
Danks Works	2.99	2.00	14	10	...
Savoy House	3.35	1.76	14	10	...
Crofts Hill	3.64	1.18	14	10	...
Cave Valley	3.33	1.23	13	8	2.74
Means	3.55	...	...	...	5.65
West Central Division					
Baillieston	...	...	...	...	...
Farm Plantation	4.00	1.95	14	5	3.04
Brokenhurst	5.50	1.80	14	7	4.09
Christiana	2.65	0.70	28	8	4.50
Chudleigh	3.29	1.39	14	9	...
Shooter's Hill	4.21	2.36	14	8	...
Spitzbergen	2.76	2.11	14	7	...
Kendal, Manchester	5.41	3.70	14	6	2.70
Marshalls Pen	2.95	1.90	13	9	3.51
Mandeville, P.W.D	5.14	2.12	13	14	3.45
Carlton, Mandeville	4.66	3.15	10	8	...
Fairfield, Manchester	2.64	1.48	14	10	...
Ulster Spring	4.42	1.17	4	12	4.93
Albert Town	4.07	1.10	4	9	...
Low River	3.08	1.34	13	10	...
Troy	4.07	1.15	3	7	4.18
Fontabelle, Trel.	1.15	0.25	27	7	5.72
Windsor Pen, Trel.	1.16	0.20	14	11	5.47
Wallingford	1.94	1.08	14	5	...
Balaclava	2.98	1.15	4	6	2.80
Siloah	3.72	1.72	28		...
Appleton Estate	2.83	0.55	4	10	3.18
Maggotty	3.66	0.90	28	13	3.07
Catadupa Rly. Station	7.42	3.50	4	11	...
Kempshot	5.39	2.08	15	8	5.11
Kew Park	5.31	1.52	29	13	...
Hazelymph	3.37	0.86	20	10	2.48
King Gate	2.19	1.15	15	4	...
Darliston	7.69	1.60	28	13	3.22
Whithorn	7.06	1.25	15	13	2.93
Great Valley	...	...	...	...	...
Brownsville	4.81	1.67	20	12	...
Fontabelle, Westm.	5.16	1.65	3	11	3.05
Morgan's Bridge	7.41	1.67	4	11	2.66
King's Valley	4.41	2.46	4	10	3.37
Glasgow Estate	3.79	1.25	29	7	...
King's Vale Police St.	7.83	2.24	5	11	...
Means	4.32	...	...	...	3.67

Southern Division.	December, 1907. Total Fall.	Greatest fall in 24 hours. Amount.	Date.	Days on which 0.01 or more fell.	Average.
	In.	In.			In.
Morant Point L. H.	4.71	0.77	4	20	6.41
East Prospect	5.75	1.25	23	14	...
Morant Bay	5.36	1.09	22	15	3.86
Easington	1.40	0.50	13	5	3.11
Bull Bay	..	...	...	...	...
Gordon Town	...	...	...	...	...
Hope Gardens	...		...	...	...
King's House Garden	2.29	0.50	14	14	1.90
Mona	...	...	...	...	...
Half-way Tree	...	...	..	...	...
Lunatic Asylum	1.22	0.37	9	6	...
Kingston S. Camp Rd.	1.54	0.60	15	6	...
" P. W. Office	1.04	0.42	13	5	1.78
Plumb Point L. H.	0.50	0.20	13	10	1.61
Ballast Ground	...	...	...	...	...
Spanish Town	1.81	1.10	11	5	2.03
Hog Hole Pen	1.83	0.60	15	7	3.01
Browns Hall	2.96	1.09	14	4	...
Old Harbour	0.60	0.60	14	1	2.57
May Pen	9.52	2.86	13	8	1.90
Hillside Estate	4.15	3.74	14	3	...
Amity Hall	...	...	...	...	...
Money Musk			..	...	...
Denbigh	...	...	..	...	...
New Yarmouth	2.30	0.95	13	7	...
Exter, Vere	1.41	0.60	13	7	...
Rhymesbury	2.56	1.17	14	5	...
Springfield, Clarendon	0.95	0.40	...	4	...
Milk River	1.52	0.56	28	5	...
Clarendon Pk. Ry. St.	...	...	...	...	...
Victoria Town	3.78	1.43	11	7	2.57
Stone's Hope	3.75	1.77	13	4	2.82
Newport, Manchester	5.67	3.22	13	7	4.14
Great Valley, Man.	3.85	2.45	13	4	
Alligator Pond	2.28	1.43	13	5	2.76
Pepper	3.60	1.90	11	7	2.94
Long Hill	...	...	...	...	...
Torrington	4.12	1.50	14	8	2.71
Bethlehem, St. Eliz.	3.81	1.30	14	9	..
Santa Cruz	3.50	1.10	2	8	2.85
Pedro Plains	2.20	1.80	13	3	...
Black River	2.39	1.48	14	7	2.46
Spring Hill	...	...	...	...	...
Font Hill	2.80	1.05	4	5	2.54
Peters Ville	3.92	1.20	29	9	2.56
Mount Edgecombe	5.71	1.91	3	12	2.48
Bluefields	5.77	1.02	3	9	...
Sweet River	5.48	1.73	28	8	2.61
Windsor, Sav.-la-Mar	5.17	1.93	28	10	2.36
Sav.-la-Mar P.W.D.	4.93	1.43	3	11	2.43
Retreat	7.15	2.11	29	10	1.88
White Hall	6.72	3.26	4	10	...
Negril Point L. H.	6.37	1.69	4	11	...
Means	3.73	...	...	...	2.73

NOTES.

Comparative Table of Rainfall.

(Based upon the "Average" Stations only.)

	December.	
	1907.	Average.
	In.	In.
North Eastern Division .	6.59	9.93
Northern .	3.55	5.65
West Central .	4.32	3.67
Southern .	3.73	2.73
Means .	4.55	5.39

The Rainfall for December, 1907, over the island was about the average as was pointed out in the newspapers previous to this report The maximum rainfall recorded was at Greenvale, Portland, in the North eastern division, 22.35 inches; the minimum rainfall recorded was at Plumb Point Lighthouse in the Southern division, 0.50 ins.

The Rainfall over the Island.

From about 110 "average" Stations.

1907.	Rainfall Divisions.				The Island.
	NE	N	WC	S	
	In.	In.	In.	In.	In.
January ...	5.41	2.70	1.47	0.73	2.58
February ...	4.71	3.18	3.89	3.21	3.75
March ...	0.76	0.07	0.21	0.40	0.36
April ...	0.86	0.62	2.43	1.07	1.24
May ...	4.78	4.23	5.42	6.05	5.12
June ...	6.74	3.60	8.55	4.93	5.96
July ...	5.89	2.34	5.73	3.07	4.26
August ...	3.65	2.15	7.96	4.75	4.63
September ...	5.98	4.60	7.19	3.78	5.39
October ...	13.15	5.96	13.68	9.25	10.51
November ...	6.20	4.80	3.68	2.35	4.26
December ...	6.59	3.55	4.32	3.73	4.55
Total ...	64.72	37.80	64.53	43.32	52.61

With reference to this total fall for the Island, it has twice been smaller since 1870 when careful registration was commenced, namely 45.18 in 1872, and 50.09 in 1871; while in 1875, it was 52.42, which is practically the same as in 1907 just past.

Shocks of Earthquake in December, 1907.

Date	Mean time.	Intensity.	Notes: where felt, etc.
Dec.	Hr. M		
1	11.30 p.m.	I	Browns Town
2	5.45 a.m.	II	Chapelton, N 76 E., 0.016; Savoy; Brown's Town.
3	8.30 "	.	Kings Valley, Westm. Loud booming sound from N.
4	2.30 p.m.	I	Grange Hill, Westm.
"	9.10 "	I	Kingston Harbour
"	10.17 "	I	do.
5	1.55 a.m.	I	Mount Holstein
7	4.34 "	I	Kingston
9	1.55 p.m.	I	Mount Holstein
10	Early	I	Kingston N 45 W 0.002
11	4 a.m.	I	Chapelton, N 83 E 0.002
13	3.40 p.m.	I	Kings Valley
15	3.36 a.m.	I	Kingston, E 0.002
22	8.10 p.m.	I	do. N 0.002
25	8.40 "	I	do. N 11 W 0.004 Unity Valley: Mt. Holstein II
28	6 a.m.	I	Mandeville.
31	5.10 p.m.	I	Brownsville
"	9.30 "	I	Kings Valley

This rather large series of local shocks was followed by the severe shock of January 2nd, which will be considered in due course.

At p. 24 of the *Earthquake Report*. No. 337 of this series, an account was given by Mr. W. Kirkpatrick of an appalling booming sound made by the sea outside the Palisadoes at times, from Jan. 15th 1907, onwards. He wrote: "Since then, after every tremor, no matter how slight, the heavy boom of the rollers can be heard setting in within half an hour after the tremor has passed."

At the commencement of the December series Mr. Kirkpatrick wrote me again;

"Tonight, Wedn Dec. 4th, at about 8 o'clock an unusually heavy sea commenced to run in Bull Bay, and the sound of the rollers was as well marked as during the months of January, February and March this year. At about 9.10 or thereabouts, a most distinct shock of earthquake occurred accompanied by the deep booming sound which characterized the severer of the shocks in the earlier part of this year.

At 10.15 to 10.20 this night there was another shock rather sharper than the first, and the explosive-like sound which accompanied it was well marked. The booming of the surf increased in intensity for an hour and a half and then slowly died away. I may say that the vibrations caused by the larger waves, which succeed each other at intervals of about a minute, were quite distinctly felt by me although my house on the Windward Road is quite four miles from Bull Bay."

I telegraphed Mr. Kirkpatrick after the severe shock on Jan. 2nd, 1908, and he replied by letter:—"Briefly, neither before nor after the shock was there any marked wave-action whatever. The shock did not come with the usual booming sound, and it appeared to me to be from a north-west direction. In any case all shocks coming from seawards are accompanied by well marked phenomena; and these were absent in the case of the shock of the 2nd: the sea and harbour were perfectly quiet for an hour and a half after the shock."

It may here be stated that the shock was most severely felt much further west; so that the epicentre was to the land-side of Kingston Harbour—and this confirms Mr. Kirkpatrick's observations.

Chapelton. Maxwell Hall, Govt. Meteorologist.