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# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

JANUARY, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

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

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)					Extreme Temperature (F.)				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		ins.	ins.	°	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	30.027	29.990	77.2	80.2	82.4	74.0	8.4	85.2	3	69.9	8	15.3
Kingston	24	29.995	29.936	69.1	83.6	86.2	68.2	18.0	89.5	1	64.0	6	25.5
Negril Point Light House	33	30.009	29.956	71.3	82.3	85.3	68.3	17.0	87.3	1*	63.6	6*	23.9
Montego Bay †	33	..	..	69.5	82.5	84.7	65.6	19.1	88.5	15	61.0	13*	27.5
Castleton Gardens	496	..	..	65.7	78.7	81.2	64.7	16.5	86.0	15	56.0	11	30.0
Hope Gardens †	668	30.054	29.959	68.0	80.9	86.5	65.4	21.1	90.0	20	62.0	9*	28.0
Hill Gardens, Blue Mountains	4,900	25.274	25.262	60.7	63.4	66.0	53.0	13.0	70.0	5	50.0	11	20.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.	°	%			°	%	ins.	Mts.	Dir.	m.p.h.	Dir.	m.p.h.	L	M.	U.
Morant Point Light House	8	70	79	70	74	5.23	307	NE	16.0	ENE	13.0	3.0	2.0	0.5	2.2	2.6	0.3
Kingston	24	63	81	68	61	0.59	184	NNE	4.4	SE	14.1	2.0	1.4	0.9	2.8	2.1	0.7
Negril Point Light House	33	65	82	68	64	1.22	137	NE	4.0	var.	9.0	2.8	0.5	0.9	3.6	3.4	0.7
Montego Bay	33	66	89	71	71	3.46	..	NE	4.0	NE	8.0	..	..	..	..	..	..
Castleton Gardens	496	63	95	72	82	8.29	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	64	88	70	67	0.46	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	57	86	59	85	3.16	..	..	..	..	..	..	..	..	..	..	..

\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

# **National Oceanic and Atmospheric Administration**

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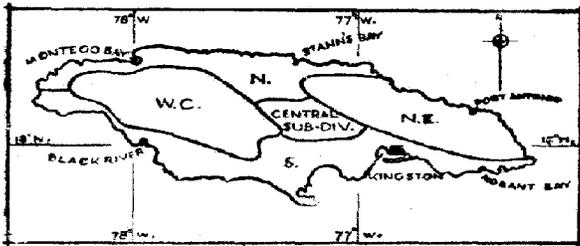
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March 28, 2002

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contains the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



STATIONS.	January, 1939.				
	Total Fall.	Greatest fall in 24 hours.			Average.
		Amount.	Date.	Days on which 0.01 or more fell.	
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioneal	4.11	0.89	22	17	5.61
Priestman's River	3.89	0.80	7	12	5.66
Bath	7.26	1.80	22	13	6.12
Barrett's Gap	8.42	2.00	22	16	
Millbank	15.92	4.40	21	18	
Comfort Castle	14.57	6.23	22	17	
Moore Town	14.15	3.56	21	21	16.89
Port Antonio	4.91	1.30	23	8	8.71
Passley Garden	5.69	1.09	24	20	
Fellowship	7.70	1.20	15	20	12.54
Johnson River Br.	2.71	0.75	4	6	3.20
Trinity Ville	2.13	0.50	23	12	
Fruitful Vale	11.33	2.00	21	17	
Hope Bay	5.04	0.90	3	19	
Cedar Valley	2.19	0.75	30	10	3.65
Paradise	4.93	1.00	23	17	
Lennox	2.64	1.57	23	9	
Greenvale	10.09	2.87	21	18	20.33
Darley	4.19	1.00	21	14	
Spring Garden	3.24	0.88	23	10	8.92
Hill Gardens	3.16	1.50	22	9	7.10
Buff Bay	4.60	0.90	23	12	9.33
Buff Bay R. Est.	6.53	1.33	4	17	
Belvedere, Portland	7.01	1.32	3	10	12.41
Windsor Castle, do.	3.86	1.05	20	12	6.37
Balcarras	12.23	4.60	21	12	
Mt. Holstein	7.09	1.50	21	14	16.06
Cedar Hurst	5.47	3.12	21	10	
Hardware Gap	4.01	0.60	21	12	5.70

STATIONS.	January, 1939.				
	Total Fall.	Greatest fall in 24 hours.			Average.
		Amount.	Date.	Days on which 0.01 or more fell.	
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	2.77	0.96	22	9	4.11
Mount Cressy	8.52	5.40	21		
Hermitage	1.41	0.37	21	9	
Mount Airy	4.66	3.20	21	9	
Stony Hill Ind. Sch.	1.78	0.64	9	10	2.96
Boon Hall	1.43	0.50	21	9	
Brandon Hill	3.12	1.64	22	3	
Enfield	8.42	2.00	3	14	
Agualta Vale	2.67	1.00	20	9	7.44
Castleton Gardens	8.29	1.90	21	14	9.29
Water Valley	2.85	0.50	22	8	7.96
Albany	4.30	0.85	20	15	4.63
Lawrence Tavern	0.88	0.29	21	6	2.69
Wey Hill	3.17	0.79	28	8	
Richmond, St. Mary	6.99	3.26	23	10	7.20
Quebec, St. Mary	4.74	0.74	22	12	6.36
Above Rocks	0.75	0.20	23	6	
Glengoffe	2.03	0.46	4	6	
Carew Castle	0.85	0.22	11	6	2.72
Hampstead, St. Mary	3.79	0.90	22	11	10.18
Windsor Castle do.	9.28	1.95	23	13	
Troja	1.36	1.00	20	3	
Pear Tree Grove	5.54	1.89	22	6	
Guy's Hill	7.10	3.06	23	12	6.24
Lucky Hill	4.61	1.05	21	14	7.45
Rio Hoe	4.01	2.03	23	13	5.76
Unity Valley	4.10	1.65	23	11	4.93
Moneague	3.48	0.89	23	14	4.84
Claremont	4.80	0.93	9	10	5.91
Averham Park	5.62	1.65	22	14	7.06
Albion	4.10	0.82	22	12	5.37
<b>NORTHERN DIVISION (N).</b>					
Port Maria	6.33	1.70	9	13	5.85
Wentworth					
Oracabessa	6.69	1.77	9	11	
Huddersfield	6.66	2.60	8	6	
Ocho Rios	5.21	1.11	23	6	4.73
Rockfield	7.24	1.82	9	12	7.67
Liberty Hill	2.59	0.90	22	10	6.53
St. Ann's Bay	5.97	1.27	8	13	5.22
Richmond Estate	4.14	0.98	7	13	5.82
Runaway Bay	2.66	1.24	7	5	2.85
Knapdale					
Alexandria	1.91	0.45	18	8	2.79
Bel-Air	6.30	1.70	22	14	
Brown's Town	5.53	1.14	9	13	6.01
Wilton	7.01	1.43	8	16	
Watt Town, St. Ann	3.83	1.06	3	9	2.82
Home Castle	7.25	2.55	9	9	5.52
Arcadia	5.02	1.10	9	14	4.76
Vale Royal	5.50	1.44	19	12	5.03
Harmony Hall					4.02
Duncans	3.41	1.04	22	10	
Clark's Town					
Falmouth	1.90	0.95	7	9	3.82

STATIONS.	January, 1939.					STATIONS.	January, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fall.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fall.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	4.74	1.12	10	10	..	Kendal, Manchester ..	0.86	0.35	8	4	2.24
Barrett Hall ..	3.07	0.75	19	9	..	Mereworth ..	2.66	0.58	23	14	..
Success ..	2.29	0.95	19	6	2.12	Mandeville ..	1.02	0.44	19	7	3.03
Rose Hall ..	2.27	1.12	19	8	3.42	Ulster Spring ..	3.09	0.86	26	8	3.42
Cinnamon Hill ..	2.30	1.12	19	8	3.49	Greenvale ..	1.26	0.46	26	7	..
Tryall ..	2.56	1.34	19	8	2.12	Albert Town ..	6.80	3.18	20	8	2.31
Running Gut ..	1.54	1.07	19	4	3.54	Craig Head ..	2.32	0.67	26	4	..
Spring Estate ..	2.27	1.45	19	5	3.83	Warsop ..	2.32	1.36	19	5	..
Friendship ..	4.40	1.25	19	11	3.74	Troy ..	3.00	1.35	19	5	2.02
Retirement ..	3.83	2.15	19	7	3.51	Wallingford ..	1.53	0.95	19	6	1.80
Rose Mount ..	3.64	1.55	19	8	..	Balaclava ..	1.68	1.03	19	5	1.81
Montego Bay ..	3.46	1.30	19	6	2.88	Braes River ..	..	..	..	..	..
Anchovy ..	1.36	0.71	19	5	2.85	Wakefield ..	2.10	0.37	9	9	..
Hopewell ..	1.40	0.48	19	5	..	Aberdeen ..	1.31	0.81	8	6	..
Blue Hole ..	3.11	1.19	19	5	3.15	Accompong ..	..	..	..	..	..
Cascade ..	3.93	2.80	19	6	..	Maggotty ..	1.35	0.46	19	6	2.90
Lucea ..	1.90	0.98	19	4	3.13	Lacovia ..	1.66	0.45	22	7	..
Haughton Court ..	1.51	0.81	19	4	2.58	Mulgrave ..	1.95	0.88	8	5	..
Kendal—Hanover ..	3.67	1.15	27	12	..	Holland ..	2.04	0.80	19	5	..
Cousins Cove ..	1.80	0.74	28	9	..	Ipswich ..	..	..	..	..	..
Green River ..	3.21	0.87	28	11	..	Ginger Hill ..	1.02	0.43	19	4	..
Green Island ..	3.09	1.16	27	16	2.38	Kempshot ..	2.19	1.23	19	9	3.76
Haughton Hall ..	1.85	0.51	27	13	..	Mocho, St. James ..	1.75	1.00	17	5	..
<b>CENTRAL SUB-DIVISION.</b>						Bandon Pen ..	..	..	..	..	..
Knollis ..	1.02	0.36	22	5	..	Catadupa ..	1.10	0.32	3	7	2.36
Highgate (St. Cath.) ..	1.85	0.41	22	12	..	Cambridge ..	0.80	0.36	28	5	2.33
Rio Magno ..	8.58	4.36	24	5	..	New Market ..	1.50	0.80	8	3	2.47
Riversdale ..	0.55	0.19	28	4	..	Springfield ..	2.21	0.90	19	5	..
Headworks, R.C.C. ..	1.59	0.73	8	5	1.62	Kew Park ..	1.25	0.44	8	8	2.28
Bog Walk ..	1.10	0.50	26	4	..	The Bog ..	1.81	0.65	8	7	2.73
Dint Hill ..	1.21	0.50	26	6	..	Bethel Town Dist. ..	1.35	0.30	8	11	3.41
Linstead ..	1.03	0.27	26	8	2.30	Burnt Ground ..	..	..	..	..	2.58
Ewarton ..	1.12	0.42	22	3	..	Haughton Grove ..	..	..	..	..	3.04
Cave Valley ..	0.96	0.33	27	4	2.21	Darliston ..	1.41	0.55	17	5	2.93
Guanaboa Vale ..	0.76	0.40	9	4	..	Bluefields ..	1.16	0.70	17	2	2.81
Point Hill ..	2.34	0.60	26	10	3.41	Whithorn ..	..	..	..	..	2.38
Brown's Hall ..	2.98	1.15	3	8	2.25	Water Works Pen ..	1.57	0.43	12	7	2.03
Bellas Gate ..	1.17	0.50	4	5	1.66	Williamsfield, Wld. ..	..	..	..	..	..
Rock River ..	1.25	0.50	22	5	..	Baulk ..	2.95	0.90	27	8	..
Crofts Hill ..	2.25	0.50	28	8	2.06	Askenish ..	2.90	0.72	19	10	3.48
Far Enough ..	1.84	0.63	23	8	..	Grange Hill ..	2.94	0.98	22	8	2.55
Suttons ..	1.80	0.75	22	5	..	Mount Eagle ..	2.94	1.54	22	6	..
Colonel's Ridge ..	1.60	0.55	23	7	..	King's Vale ..	0.49	0.12	18	8	3.05
Chapelton ..	0.96	0.32	22	8	2.09	<b>SOUTHERN DIVISION (S.)</b>					
Crooked River ..	0.92	0.25	8	5	..	Morant Point L. H. ..	5.23	1.65	7	16	4.16
James Hill ..	1.49	0.45	26	7	..	Golden Grove ..	3.82	0.59	22	19	..
Frankfield ..	2.60	0.94	26	8	1.45	Pleasant Hill ..	5.24	0.72	7	21	4.83
<b>WEST-CENTRAL DIVISION (W.C.)</b>						East Prospect ..	4.96	0.88	21	21	3.99
Mocho, Clarendon ..	0.44	0.44	27	1	2.00	Morant Bay ..	2.51	0.38	21	16	2.84
Smithville ..	1.57	0.57	26	9	..	Aeolus Valley ..	2.47	0.56	30	12	..
Clarendon Park ..	..	..	..	..	..	Yallahs ..	..	..	..	..	..
Porus ..	1.19	0.42	2	5	..	Easington ..	0.68	0.24	26	5	1.60
Borobridge ..	1.35	0.65	28	6	..	Llandewey ..	..	..	..	..	..
Spaldings ..	1.61	0.25	26	9	2.70	Mavis Bank ..	1.06	0.26	20	6	..
Williamsfield ..	1.09	0.28	26	11	..	Bull Bay ..	0.00	..	..	0	0.73
Brokenhurst ..	2.07	0.60	23	9	3.08	Dallas Castle ..	0.82	0.27	10	10	..
Shooter's Hill ..	0.79	0.30	8	8	2.05	Gordon Town ..	1.24	0.77	8	3	3.20
Wear ..	1.13	0.45	26	5	..	Irish Town ..	1.30	0.80	8	3	2.22
Wait-a-bit ..	3.50	1.10	19	10	..	Hope Gardens ..	0.46	0.22	22	6	1.79
Christiana ..	1.39	0.30	27	8	2.37	Waireka ..	..	..	..	..	..
Holmwood ..	1.19	0.33	10	5	..	Iver ..	1.01	0.33	22	10	..
Clifton Hill ..	1.57	0.70	23	3	2.10	Plumb Point L. H. ..	0.25	0.20	21	2	0.74

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		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar. ..	0 60	0 25	5	3	1 35	Newport, Man. ..	2 23	0 42	3	8	2 56
Up-Park Camp ..	1 01	0 39	20	6	..	Alligator Pond ..	1 17	0 57	20	5	1 39
Cavaliers ..	0 90	0 26	19	7	..	Fairfield ..	1 65	0 37	13	13	2 38
St. Georges College ..	1 22	0 35	20	6	..	Pepper ..	..	..	..	..	..
Upper Kingston ..	0 83	0 20	23	7	0 55	Myersville ..	..	..	..	..	..
Parade Garden ..	0 70	0 25	23	4	..	Goshen ..	1 80	1 02	6	6	..
Kingston P.W.O. ..	0 59	0 34	23	6	0 87	Southfield, St. Eliz. ..	2 54	1 49	6	8	2 02
Constant Spring ..	0 99	0 41	8	7	..	Munro ..	1 85	0 33	19	16	..
Halfway Tree ..	0 25	0 08	23	5	0 97	Windsor, St. Eliz. ..	1 73	0 53	6	14	..
Clifton Pen ..	0 54	0 21	5	3	0 71	Torrington ..	1 90	0 48	19	6	2 26
Seaward Pen ..	0 18	0 18	5	1	..	Santa Cruz ..	2 75	0 81	2	5	2 51
Red Hills ..	1 07	0 60	22	8	..	Hounslow ..	0 55	0 35	23	2	..
Quarantine Station ..	0 52	0 33	24	6	0 65	Pedro Plains ..	0 63	0 63	7	1	1 60
Hematine ..	0 61	0 24	23	7	1 12	Mountainside ..	0 65	0 28	8	4	1 64
Spanish Town ..	0 98	0 40	7	9	1 32	Fort Charles ..	1 27	6 50	18	4	..
Hog Hole, St. Cath. ..	1 61	0 57	27	9	1 54	Black River ..	3 33	1 20	3	9	1 62
Old Harbour ..	1 68	0 45	23	6	2 03	Mt. Charles ..	0 59	0 25	19	6	..
May Pen ..	0 86	0 26	23	9	1 36	Font Hill ..	2 75	0 70	23	8	1 76
Glen Muir ..	..	..	..	..	..	Mount Edgecombe ..	1 67	0 54	31	10	2 07
Cottage ..	2 63	1 06	12	5	..	Sav-la-Mar ..	0 87	0 24	8	6	1 66
Belle Plain ..	0 97	0 42	3	4	..	Little London ..	1 47	0 70	7	5	1 90
Milk River ..	2 27	0 83	13	6	1 75	Retreat ..	1 23	0 37	22	10	1 82
Retrieve ..	1 88	0 62	8	8	1 21	Negril Point L. H. ..	1 22	0 53	27	8	1 73
Stone's Hope ..	1 95	0 49	12	9	2 42						

NOTES

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	January.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-Eastern ..	5 02	7 68	12	13
Northern ..	3 16	3 67	8	9
West-Central ..	1 77	2 80	7	6
Southern ..	1 63	1 83	8	6
The Island means ..	2 90	4 00	9	8

SHOCKS OF EARTHQUAKE IN JANUARY, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—JANUARY.

The Mean Rainfall for the Island was below normal in all Divisions.

The greatest total fall for the month was 15.92 inches at Millbank in the North-eastern Division, and the heaviest fall in 24 hours was 6.23 inches at Comfort Castle, in the same Division, on the 22nd.

No rain fell at Bull Bay in the Southern Division

The mean number of rain days was 9, the average for the month being 8. Moore Town, Pleasant Hill and East Prospect, had most—21 each.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 7.23 inches was highest; St. Mary, with 5.63 inches, second; and St. Ann, with 4.65 inches, was third. Kingston, with 0.72 inch, was lowest.

Parish.	1939.	10-year Average.	Parish.	1938.	10-year Average.
	Inches	Inches		Inches	Inches
Kingston	0.72	0.55	St. James	2.56	1.93
St. Andrew	1.69	2.27	Hanover	2.40	2.38
St. Thomas	3.97	3.43	Westmoreland	1.70	2.46
Portland	7.23	10.76	St. Elizabeth	1.71	1.91
St. Mary	5.63	6.27	Manchester	1.52	2.24
St. Ann	4.65	4.25	Clarendon	1.60	1.60
Trelawny	3.66	2.40	St. Catherine	2.11	2.30

## CITY OF KINGSTON.

The total rainfall for the month of January, 1939, was 0.59 of an inch, or 0.28 of an inch below the 60-year normal of 0.87 inch. Greatest fall in 24 hours was 0.34 inch on the 23rd. There were six days with appreciable rain, compared to the average of four. Upper boundary of Kingston gauged 0.83 of an inch with seven days on which rain fell.

The days upon which distant rain was observed were to northward, three; to northeast, five; to eastward, three; to southeast, south, southwest, west and northwest one day each.

Mean barometric pressure 29.979 inches shewing 0.005 above the normal of 29.974 inches. The highest barometer reading was 30.048 inches on the 25th at 3 p.m. and the lowest was 29.915 inches on the 14th at 3 p.m.; figures corrected for diurnal variation.

The mean monthly temperature, based on four observations per day, was 76.3°; the 33-year normal being 75.8° or 0.5° above the normal. The highest maximum was 89.5° on the 1st, and the lowest minimum was 64.0° on the 6th, shewing an extreme monthly range of 25.5°; on the other hand the lowest maximum was 82.9° on the 19th and the highest minimum was 73.9° on the 29th. The maximum was below 90° throughout, and the minimum above 70° four times. The greatest daily range was 23.9° on the 6th.

The mean daily miles of wind registered was 184. The 25-year average gives 163 or about 13% above the average. The greatest number of miles of wind recorded during 24 hours was 395 on the 29th, and the least was 109 on the 21st and 22nd. Highest hourly velocity was 28 m.p.h. on 28th at 12.45 p.m. Southeasterly wind appeared early once and continued after 7 p.m. on nine occasions and throughout the night on 28th and 29th.

Mean relative humidity was 73%, the 33-year normal being 78%. The mean 7 a.m. was 81%, and mean 3 p.m. 61%. Lowest 7 a.m. 66% on 29th, and lowest 3 p.m. 44% on the 24th.

Overcast conditions prevailed in the forenoon thirteen times and in the afternoon fifteen.

The mean daily number of sunshine hours recorded was 6.7.

Total evaporation for the month of January was 4.49 inches. The ten-year normal shews 5.06 inches.

## NEGRIL POINT LIGHTHOUSE.

A table on pages 6 and 7 giving the Meteorological Results for Negril Point Lighthouse, situated at the extreme western point of the Island, for the year 1938 is appended.

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

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

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

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

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
February 20th, 1939.

NEGRIL POINT, JAMAICA—METEOROLOGICAL RESULTS FOR THE YEAR 1938.

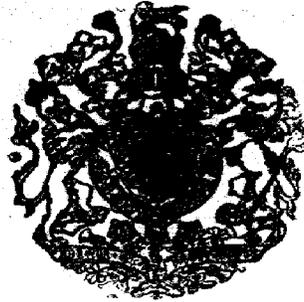
FOR ELEVATION, See Foot Note.

Month.	Barometer Pressure.		TEMPERATURE (FAH.)						Extremes for Month.		Dewpoint and Relative Humidity.		Rainfall.			
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Min.	7 a.m.	3 p.m.	Actual Fall.	Av. for 35 yrs.	No. of Days with Rain.	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	%	Ins.	Ins.		
January	30.010	29.963	76.0	71.3	82.1	84.3	68.3	16.0	87.6	64.0	23.6	64	67	0.82	1.73	6
February	.024	.982	75.5	70.9	81.3	84.4	67.4	17.0	89.4	62.1	27.3	64	77	0.42	1.86	5
March	.009	.966	75.7	70.5	82.0	84.7	67.4	17.3	87.5	63.1	24.4	65	82	2.40	2.77	13
April	29.978	.939	76.3	72.7	81.3	84.8	68.3	16.5	88.8	64.7	24.1	68	83	1.11	2.92	6
May	.957	.927	79.0	76.9	82.9	86.6	71.5	15.1	90.4	69.0	21.4	72	84	6.57	6.25	18
June	.984	.961	80.4	79.1	84.2	87.5	73.0	14.5	91.0	70.8	20.2	71	77	2.36	5.51	14
July	.978	.961	80.0	78.5	83.7	87.8	72.0	15.8	91.6	68.7	22.9	71	79	4.01	5.83	14
August	.925	.901	80.2	77.2	84.3	88.6	73.3	15.3	92.2	71.1	21.1	72	84	8.85	6.50	18
September	.907	.875	80.2	77.0	84.8	87.6	73.4	14.2	90.3	71.1	19.2	73	86	5.56	6.71	15
October	.883	.843	80.1	76.7	84.5	87.8	73.2	14.6	91.3	70.5	20.8	73	87	8.62	8.21	15
November	.888	.839	78.9	73.9	85.3	87.8	70.7	17.1	90.4	66.4	24.0	70	88	1.46	3.83	9
December	29.950	29.902	77.9	73.0	83.4	85.9	70.4	15.5	89.9	66.0	23.9	67	80	0.23	1.97	4
Means	29.968	29.922	78.3	74.8	83.3	86.5	70.7	15.8	90.0	67.3	22.7	69	82	...	...	...
Totals	...	...	...	...	...	...	...	...	...	...	...	...	...	42.41	54.09	137

Barometer pressure reduced to Standard of Kew, 32 degrees, gravity at Lat. 45° and Mean Sea Level. The 75th Meridian West of Greenwich, Standard Time used. Altitude of Barometer above Mean Sea Level 33ft. Height of Thermometer above ground 4 ft. 6 in. Height of Rain Gauge above the ground 6 ft. 6 in. Height of Anemometer above the ground of 94 ft. to the 31st May, 1935, and 22 ft. above ground from 1st June, 1935.

NEGRIL POINT—MEAN RESULTS, contd., for year 1888.

Month.	Wind, Miles per diam.	Wind: from and Miles per hour.			Clouds: in Tenths.						Weather Conditions, etc.
		7 a.m.	3 p.m.	11 p.m.	Lower.		Middle.		Upper.		
					7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
January	170	NE 6.8	Var. 9.3	NE 5.4	2.9	2.5	0.5	2.9	1.9	0.8	Clear 3 days, Cloudy 17, overcast 5, rain 6, light norther 26th to 29th.
February	172	NE 6.7	Var. 10.3	NE 5.0	1.5	2.3	1.5	4.1	0.4	0.0	Clear 4 days, cloudy 17, overcast 2, rain 5, brisk north winds throughout.
March	134	NE 3.9	Var. 8.8	ENE 3.4	0.7	3.0	0.7	3.6	1.0	0.0	Clear 6 days, cloudy 11, overcast 1, rain 13, distant thunderstorm 3 days.
April	142	NE 3.1	Var. 10.1	ENE 4.2	0.9	5.1	0.9	2.1	4.5	1.3	Clear 1, cloudy 12, overcast 11, rain 6, distant lightning and thunderstorm 3 days.
May	120	ENE 2.5	Var. 7.6	ENE 3.2	1.0	2.3	0.4	5.6	3.5	1.0	Cloudy 6, overcast 5, rain 18, thunderstorm 6, distant thunderstorm 11, distant lightning 3 days.
June	111	NE 2.8	Var. 8.0	ENE 2.6	0.3	1.6	1.0	6.8	6.2	0.5	Clear 1 day, cloudy 5, overcast 10, rain 14, thunderstorm 6, distant thunderstorm 15, distant lightning 3 days.
July	115	ENE 3.2	Var. 7.5	ENE 3.2	0.3	2.0	0.0	5.9	6.2	1.5	Cloudy 8, overcast 9, rain 14, thunderstorm 12, distant thunderstorm 13, distant lightning 12 days.
August	134	NE 3.9	Var. 8.0	NE 4.1	1.1	1.4	0.1	6.3	5.2	0.4	Clear 1, Cloudy 6, rain 18, thunderstorm 6, distant lightning and thunderstorm 21 days.
September	119	ENE 3.8	Var. 8.0	ENE 3.3	1.0	1.3	0.7	5.5	6.2	1.8	Cloudy 5, overcast 10, rain 15, thunderstorm 6, distant thunderstorm 7, distant lightning 10 days.
October	118	ENE 3.7	Var. 7.5	ENE 3.6	1.8	1.1	1.1	5.0	5.6	2.2	Cloudy 5 days, overcast 11, rain 15, distant thunderstorm 16, distant lightning 11, thunderstorm 2 days.
November	116	NE 4.0	Var. 6.9	NE 3.3	0.6	0.0	1.6	4.0	3.0	2.0	Clear 5 days, cloudy 12, overcast 4, thunderstorm 2, distant thunderstorm and lightning 3 days.
December	174	NE 6.0	Var. 11.0	NE 6.0	1.4	1.4	0.7	2.8	0.3	0.2	Clear 12, cloudy 12, overcast 3, rain 4, brisk norther throughout.
Means	135	NE 4.2	Var. 8.6	ENE 3.9	1.1	2.0	0.8	4.6	3.7	1.0	Rainfall for the year below the average, with 137 days of rain.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF  
FEBRUARY, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

### METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)				Extreme Temperature (F.)					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	ins.	ins.	°	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	30.047	30.023	77.0	80.4	82.7	74.8	7.9	84.6	3	70.6	13	14.0
Kingston	24	30.019	29.963	68.4	83.8	85.9	67.5	18.4	90.8	1	64.1	18	26.7
Negril Point Light House	33	30.034	29.995	70.1	82.0	84.6	66.6	18.0	87.5	19	62.5	18	25.0
Montego Bay †	33	..	..	67.9	83.9	86.4	64.2	22.2	89.5	12	60.0	3*	29.5
Castleton Gardens	496	..	..	64.0	80.0	82.7	63.2	19.5	86.0	26*	57.0	3	29.0
Hope Gardens †	668	30.070	29.973	68.0	83.0	88.0	65.2	22.8	91.0	11*	63.0	11*	28.0
Hill Gardens, Blue Mountains	4,900	25.259	25.248	60.0	61.0	61.5	50.3	11.2	68.0	3*	47.0	18*	21.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.		7 a.m.		3 p.m.		
	ft.	°	%	°	%	ins.	Mis.	Dir.	m.p.h.	Dir.	m.p.h.	L	M.	U.	L.	M.	U.
Morant Point Light House	8	69	78	70	71	0.27	316	ENE	15.0	ENE	14.0	2.7	1.6	0.1	1.8	2.7	0.4
Kingston	24	61	79	68	59	0.73	221	NNE	4.0	SE	17.5	0.6	0.8	0.1	2.5	3.1	0.3
Negril Point Light House	33	64	80	68	63	0.19	143	NE	4.0	var.	9.0	1.3	0.5	0.5	2.7	4.0	0.0
Montego Bay	33	65	90	72	68	0.52	..	ENE	4.0	NE	8.0	..	..	..	..	..	..
Castleton Gardens	496	62	94	71	74	1.80	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	61	78	65	56	0.59	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	47	83	58	85	1.42	..	..	..	..	..	..	..	..	..	..	..

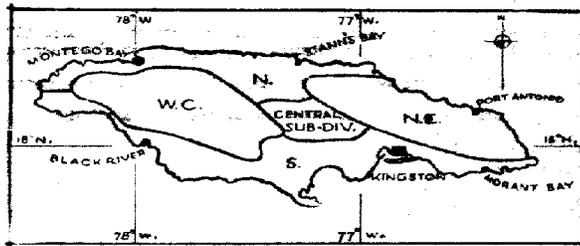
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



February, 1939.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	1.43	0.84	22	5	4.48
Mount Cressy	2.35	1.07	12		
Hermitage	1.15	0.87	21	5	
Mount Airy	0.88	0.52	12	4	
Stony Hill Ind. Sch.	1.07	0.61	21	6	2.32
Boon Hall	0.98	0.35	21	7	
Brandon Hill	1.16	0.83	12	2	
Enfield	1.54	0.76	12	8	
Agualta Vale	1.39	0.24	7	9	5.12
Castleton Gardens	1.80	0.70	12	7	5.31
Water Valley	0.46	0.35	13	3	4.81
Albany	0.77	0.25	11	7	4.62
Lawrence Tavern	0.52	0.44	23	2	2.48
Wey Hill	0.58	0.16	12	5	
Richmond, St. Mary	0.51	0.21	11	4	4.41
Quebec, St. Mary	1.70	0.66	28	9	4.37
Above Rocks	0.10	0.08	12	2	
Glengoffe	0.15	0.15	23	1	
Carew Castle	0.08	0.08	12	1	2.22
Hampstead, St. Mary	0.82	0.20	7	6	6.29
Windsor Castle do.	0.95	0.25	10	6	
Troja	1.10	0.80	7	2	
Pear Tree Grove					
Guy's Hill	0.40	0.17	11	4	3.96
Lucky Hill	1.03	0.35	11	7	4.95
Rio Hoe	2.71	2.20	25	5	3.88
Unity Valley	1.63	1.05	23	10	3.55
Moneague	1.56	1.20	25	4	3.97
Claremont	1.86	1.10	25	5	3.96
Averham Park	0.77	0.22	12	10	4.46
Albion	1.28	0.48	25	9	3.63
<b>NORTHERN DIVISION (N).</b>					
Port Maria	2.11	0.70	12	10	5.00
Wentworth					
Oracabessa	2.64	0.80	17	9	
Huddersfield	3.51	0.96	28	5	
Ocho Rios	1.21	0.43	7	5	3.48
Rockfield	0.93	0.29	17	7	5.22
Liberty Hill	0.20	0.05	11	7	4.46
St. Ann's Bay	1.13	0.41	17	6	4.60
Richmond Estate	0.95	0.32	16	5	4.10
Runaway Bay	1.10	0.77	17	3	2.26
Knapdale	1.37	0.37	17	11	
Alexandria	0.35	0.33	23	2	2.93
Bel-Air	1.60	0.50	16	8	
Brown's Town	1.25	0.30	17	12	4.29
Wilton	1.52	0.47	17	11	
Watt Town, St. Ann	1.34	1.05	5	4	2.90
Home Castle	0.85	0.60	17	3	3.30
Arcadia	0.59	0.33	17	4	2.61
Vale Royal	0.48	0.30	17	6	2.59
Harmony Hall	1.02	0.48	16	5	2.34
Duncans	0.70	0.40	17	4	
Clark's Town	4.62	0.81	15	5	
Falmouth	0.48	0.40	17	3	1.82

February, 1939.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>					
Manchioneal	1.47	0.34	1	12	5.07
Priestman's River	1.40	0.50	12	6	4.42
Bath	1.98	0.39	11	8	4.24
Barrett's Gap	1.80	0.48	8	7	
Millbank	3.12	0.96	20	9	
Comfort Castle	2.29	1.00	19	6	
Moore Town	5.46	1.00	13	13	12.67
Port Antonio	1.47	0.45	20	4	5.80
Passley Garden	2.16	0.70	20	8	
Fellowship	2.19	0.53	3	10	9.87
Johnson River Br.	1.37	0.40	26	7	2.33
Trinity Ville	0.73	0.36	6	6	
Fruitful Vale	3.83	0.82	12	9	
Hepe Bay	1.30	1.03	12	13	
Cedar Valley	0.38	0.10	5	7	2.54
Paradise	1.01	0.40	12	8	
Lennox	2.42	1.02	6	9	
Greenvale	2.76	0.91	12	11	12.12
Darley	1.90	0.76	12	7	
Spring Garden	2.07	0.42	12	9	5.64
Hill Gardens	1.42	0.74	24	5	4.27
Buff Bay	2.00	0.30	12	13	7.54
Buff Bay R. Est.	2.32	0.89	4	8	
Belvedere, Portland	1.59	0.52	11	9	9.61
Windsor Castle, do.	1.55	0.28	23	13	5.59
Balcarres	1.90	0.45	22	6	
Mt. Holstein	2.06	0.50	12	12	8.70
Cedar Hurst	4.19	0.84	21	8	
Hardware Gap	0.76	0.27	21	7	3.99

STATIONS.	February, 1939.					STATIONS.	February, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.		Ins.		<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.		Ins.	
Adelphi	0.23	0.23	17	1		Mereworth	2.54	1.13	23	6	
Barrett Hall	0.35	0.35	17	1		Mandeville	3.31	1.44	23	5	
Success	0.20	0.20	17	1	2.23	Ulster Spring	1.20	0.70	23	5	
Rose Hall	0.28	0.28	17	1	2.36	Greenvale	2.57	1.77	24	4	
Cinnamon Hill	0.25	0.25	17	1	2.54	Albert Town	0.50	0.30	25	2	
Tryall	0.25	0.25	17	1	1.53	Craig Head	1.04	1.04	24	1	
Running Gut	0.23	0.23	17	1	2.17	Warsop	0.73	0.43	24	4	
Spring Estate	0.12	0.12	17	1	2.44	Troy	1.44	0.96	24	3	
Friendship	0.96	0.50	25	5	2.27	Wallingford	3.22	3.04	24	2	
Retirement	0.65	0.55	10	2	1.29	Balaclava	3.24	2.90	24	2	
Rose Mount	0.55	0.20	22	5		Braes River					
Montego Bay	0.52	0.38	25	3	1.83	Wakefield	0.21	0.11	17	2	
Anchovy	0.31	0.15	25	4	1.41	Aberdeen	1.33	0.91	24	4	
Hopewell	0.24	0.15	17	3		Accompong					
Blue Hole	0.27	0.27	25	1	3.79	Maggotty	0.71	0.41	24	5	
Cascade	1.05	0.65	25	3		Lacovia	1.57	1.02	24	4	
Lucea	0.44	0.40	25	3	3.36	Mulgrave	1.45	0.92	24	4	
Haughton Court	1.19	1.08	25	2	2.13	Holland					
Kendal—Hanover	1.44	0.36	25	11		Ipswich					
Cousins Cove	2.59	2.28	25	9		Ginger Hill	1.26	0.57	24	3	
Green River	2.03	0.72	24	10		Kempshot	0.77	0.67	25	4	
Green Island	4.06	2.52	25	6	2.12	Mochó, St. James					
Haughton Hall	1.77	0.78	27	12		Catadupa	0.39	0.18	23	3	
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	0.47	0.41	23	4	
Knollis	0.17	0.17	21	1		New Market	1.52	0.90	24	2	
Highgate (St. Cath.)	1.17	0.50	21	8		Springfield	1.51	0.99	24	5	
Rio Magno	1.25	0.65	19	2		Kew Park	0.61	0.45	23	3	
Riversdale	0.00			0		The Bog	1.14	0.59	24	5	
Headworks, R.C.C.	1.31	0.66	22	3	1.64	Bethel Town Dist.	0.85	0.60	23	5	
Bog Walk	1.12	0.45	21	4		Burnt Ground	1.86	0.78	23	5	
Linstead	0.42	0.30	23	3	2.17	Haughton Grove					
Ewarton	0.00			0		Darliston	1.35	0.81	23	5	
Cave Valley	0.22	0.22	22	1	2.14	Bluefields					
Guanaboa Vale	0.99	0.50	17	3		Whithorn					
Point Hill	0.44	0.11	23	6	3.37	Water Works Pen	0.68	0.35	17	3	
Brown's Hall	1.84	1.69	23	2	2.18	Williamsfield, Wld.					
Bellas Gate	1.50	1.00	22	3	1.67	Baulk					
Rock River	1.55	1.05	23	2		Askenish	1.57	0.69	25	6	
Crofts Hill	3.30	2.95	22	3	1.47	Grange Hill					
Far Enough	1.73	0.82	22	3		Mount Eagle					
Suttons	1.55	0.92	22	2		King's Vale	0.86	0.60	25	3	
Colonel's Ridge	0.61	0.34	23	4		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	0.97	0.50	23	2	1.58	Morant Point L. H.	0.27	0.15	12	7	
Crooked River	0.73	0.37	23	3		Golden Grove					
James Hill	1.23	1.21	22	2		Pleasant Hill	1.44	0.36	15	12	
Frankfield	3.00	1.50	22	3	2.29	East Prospect	0.97	0.28	11	8	
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	0.57	0.22	19	4	
Mochó, Clarendon	0.58	0.32	10	3	1.66	Aeolus Valley	0.60	0.25	26	6	
Smithville	3.98	2.60	22	4		Yallahs					
Clarendon Park	1.06	0.62	24	5		Easington					
Porus	0.82	0.30	22	3		Llandewey	0.51	0.51	23	1	
Borobridge	0.64	0.28	22	5		Mavis Bank	0.21	0.16	23	2	
Spaldings	1.27	0.75	24	3	2.83	Bull Bay	0.00				
Williamsfield	1.84	0.90	24	8		Dallas Castle	1.04	0.94	22	4	
Brokenhurst	1.58	0.75	23	4	2.47	Gordon Town	1.01	0.84	22	2	
Shooter's Hill	2.71	1.50	23	5	2.18	Irish Town	0.40	0.30	24	2	
Wait-a-bit	0.92	0.52	23	4		Hope Gardens	0.59	0.33	24	4	
Christiana	0.99	0.57	24	5	2.61	Waireka					
Holmwood	0.95	0.60	22	3		Iyer	1.44	1.17	21	5	
Clifton Hill	1.62	1.52	23	3	2.68	Barbican					
Kendal, Manchester	2.96	1.35	23	4	2.49	Plumb Point L. H.	0.25	0.25	23	1	

STATIONS.	February, 1939.					STATIONS.	February, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	0.52	0.21	22	3	1.22	Newport, Man.	0.89	0.45	22	3	2.55
Up-Park Camp	0.40	0.38	22	2		Alligator Pond	0.86	0.70	23	3	1.33
Cavaliers	0.72	0.67	22	3		Fairfield	3.97	2.56	24	6	2.45
St. Georges College	0.25	0.25	22	1		Pepper					
Upper Kingston	0.38	0.28	22	2	0.89	Myersville					
Parade Garden	1.02	0.50	22	3		Goshen					
Kingston P.W.O.	0.73	0.48	23	3	0.61	Southfield, St. Eliz.	0.41	0.12	1	5	2.59
Constant Spring	2.29	1.43	21	4		Munro	0.81	0.37	23	9	
Halfway Tree	0.27	0.21	22	2	0.85	Windsor, St. Eliz.	1.69	0.78	23	7	
Clifton Pen	1.14	0.54	22	3	0.64	Torrington	1.34	1.22	23	2	2.45
Seaward Pen						Santa Cruz	1.86	1.24	23	3	2.47
Red Hills	0.89	0.49	24	2		Hounslow	0.35	0.35	24	1	
Quarantine Station	0.69	0.41	24	2	0.44	Pedro Plains	0.19	0.15	23	2	1.38
Hematine					1.43	Mountainside	1.05	0.62	23	5	2.27
Spanish Town	0.63	0.60	22	2	1.33	Fort Charles	0.27	0.27	23	1	
Hog Hole, St. Cath.	0.35	0.18	22	3	1.72	Black River	0.13	0.13	17	1	1.70
Old Harbour	0.99	0.79	20	4	1.77	Mt. Charles	0.19	0.09	17	4	
May Pen	2.01	1.54	17	4	1.77	Font Hill	0.35	0.20	23	2	1.84
Glen Muir	0.60	0.60	17	1		Mount Edgecombe					2.47
Cottage	0.63	0.28	19	4		Sav.-la-Mar	0.35	0.23	24	2	2.08
Belle Plain	0.51	0.33	17	3		Little London					3.12
Milk River	0.51	0.28	24	4	1.20	Retreat	0.39	0.19	4	4	2.71
Retrieve	1.53	0.73	23	3	1.76	Negril Point L. H.	0.19	0.07	7	3	1.86
Stone's Hope	1.27	0.36	23	7	2.15						

SHOCKS OF EARTHQUAKE IN FEBRUARY, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
6.2.39	3.00 a.m.	I	Sav.-la-Mar.

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	February.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	1.48	5.48	7	10
Northern	0.96	2.48	4	6
West-central	1.44	2.84	4	7
Southern	0.83	1.72	4	6
The Island means	1.18	3.13	5	7

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—FEBRUARY.

The mean rainfall for the Island was much below the average in all Divisions.

The greatest total fall for the month was 5.46 inches at Moore Town in the North-eastern Division, and the heaviest fall in 24 hours was 3.04 inches at Wallingford in the West-central Division on the 24th. No rainfall at Riversdale, Ewarton and Bull Bay.

The mean number of days on which rain fell was 5, the average for the month being 7. Moore Town, Hope Bay, Buff Bay and Windsor Castle, in the North-eastern Division, with 13 each, had most.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 2.29 inches was highest; Manchester with 1.90 inch was second; and Hanover, with 1.49 inch was third. St. James, with 0.41 inch was lowest.

Parish.	1939.	10-year average.	Parish.	1939.	10-year average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.53	0.61	St. James	0.41	2.20
St. Andrew	0.91	2.51	Hanover	1.49	1.93
St. Thomas	1.05	2.70	Westmoreland	0.74	2.90
Portland	2.29	7.77	St. Elizabeth	1.16	3.31
St. Mary	1.42	4.93	Manchester	1.90	3.09
St. Ann	1.18	3.45	Clarendon	1.38	2.26
Trelawny	1.07	2.76	St. Catherine	0.72	2.57

## CITY OF KINGSTON.

The total rainfall for the month of February, 1939, was 0.73 of an inch, the 60-year normal being 0.61 of an inch.

There were three days with appreciable rain, the greatest was 0.48 inch on the 23rd. The upper boundary of Kingston gauged 0.38 of an inch, and only two days on which rain fell.

Distant rain observed to northward on three days and to northwestward also on three days. There was a S.E. rainsquall, of short duration, on the 26th.

The mean barometric pressure was 30.005 inches, shewing 0.024 of an inch above the 33-year normal of 29.981 inches. The highest barometer reading was 30.090 inches on the 12th at 3 p.m. and the lowest was 29.937 inches on the 2nd at 3 p.m., corrected for diurnal variation.

The mean monthly temperature, based upon four observations per day was 75.9°, the 33-year average being 75.7°, or 0.2° above the average. The highest maximum was 90.8° on the 1st., and the lowest minimum was 64.1° on the 18th., representing an extreme monthly range of 26.7°. On the other hand, the lowest maximum was 83.1° on the 17th and the highest minimum was 70.4° on the 6th. The maximum was above 90° once and minimum below 70° on twenty-seven days. Greatest range of daily temperature was 23.6° on the 19th, and the least 14.6° on the 6th.

Mean daily miles of wind registered was 221; the 25-year average being 174—or 27% above the average. The greatest number of miles recorded in 24 hours was 398 on the 27th and the least was 97 on the 12th. Greatest hourly velocity was 32 miles on the 26th at about 12.20 p.m. South-easterly wind continued after 7 p.m. on nine occasions.

Overcast conditions prevailed in the forenoon on four occasions and in the afternoon on sixteen.

The total evaporation for February was 5.91 ins., the ten-year average being 4.90 inches.

Mean daily number of sunshine hours was 6.7.

The mean relative humidity was 73% and the 33-year normal 78%. This 5% deficiency may be due to the excessive SE wind. The mean 7 a.m. was 79%, and the mean 3 p.m. 59%. Lowest 7 a.m. 64% on the 3rd, and lowest 3 p.m. 42% on the 27th.

## MORANT POINT LIGHTHOUSE.

A table giving the Meteorological Results for the Station at Morant Point Light House (situated at the extreme eastern end of the Island) for the year 1938, is appended.

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

(Sgd.) J. F. BRENNAN,  
Government Meteorologist.

Kingston,

March 20th, 1938.

## CORRIGENDA.

Weather Report, No. 741, February, 1938—Page 1: Morant Point Light House—wind per diem, for 231 read 321.

Weather Report, October, 1938—Page 1: for No. 743 read 749.

Weather Report, January, 1939—Page 5: Parish Rainfall for 1938 read 1939.

MORANT POINT, JAMAICA.—METEOROLOGICAL RESULTS FOR THE YEAR 1938.

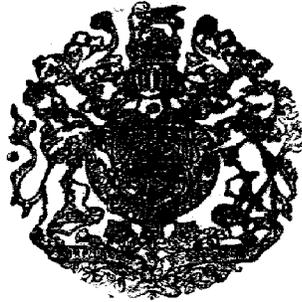
FOR ELEVATION, &c. (See Foot Note.)

Month.	Barometer Pressure.		TEMPERATURE (FAH.)							Dewpoint and Relative Humidity.			Rain-fall.	No. of Days of Rain.			
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Extremes for Month.	7 a.m.	3 p.m.	%			%		
	Ins.	Ins.	°	°	°	°	°	°	°	°	°		°	°			
January	30.024	29.991	77.9	77.1	80.1	81.5	75.0	6.5	84.6	70.3	14.3	70	80	70	74	0.73	11
February	.035	30.007	75.9	74.9	78.0	80.0	72.8	7.2	83.0	65.1	17.9	69	80	69	73	2.31	12
March	.026	29.992	77.9	76.4	80.4	83.0	73.7	9.3	85.1	65.0	20.1	68	78	71	74	0.93	13
April	29.997	.962	78.4	77.2	81.4	83.7	73.4	10.3	86.2	68.1	18.1	70	79	71	72	3.70	18
May	.981	.947	81.6	80.6	84.0	86.3	77.5	8.8	88.3	73.4	14.9	74	79	75	73	1.91	10
June	30.020	.998	82.7	81.5	85.0	87.5	78.6	8.9	88.8	75.3	13.5	76	82	76	75	1.37	12
July	.014	.995	83.1	82.2	85.6	88.1	78.5	9.6	90.2	72.3	17.9	76	80	76	72	2.94	15
August	29.939	.915	83.1	82.5	85.3	87.7	78.8	8.9	90.0	72.4	17.6	76	82	76	75	4.47	16
September	.924	.896	82.4	82.1	84.7	87.6	77.3	10.3	89.6	70.0	19.6	76	80	77	76	11.35	18
October	.897	.856	81.4	80.2	84.3	87.1	76.2	10.9	91.8	71.0	20.8	75	84	76	76	8.25	19
November	.899	.861	81.2	80.3	83.5	86.3	76.8	9.5	89.3	71.6	17.7	73	79	74	74	3.35	9
December	29.960	29.929	79.0	77.9	81.7	83.5	74.9	8.6	87.8	65.3	22.5	71	78	71	71	1.42	12
Means	29.976	29.946	80.4	79.4	82.8	85.2	76.1	9.1	87.9	70.0	17.9	73	80	73	74		
Totals																42.73	165

Barometer pressure reduced to Standard of Kew, 32 degrees, gravity at Lat. 45° and Mean Sea Level. The 75th Meridian West of Greenwich, Standard Time used. Altitude of Barometer above Mean Sea Level 8ft. Height of Thermometer above ground 4 ft. 6 in. Height of Rain Gauge above the ground 3 ft. Height of Anemometer above the ground of 18 ft.

MORANT POINT, 1888—MEAN RESULTS, contd.

Month.	Wind, Miles per diem.	Wind: from and Miles per hour.		Clouds: in Tenths.						Weather Conditions, etc.
		7 a.m.	3 p.m.	Lower.		Middle.		Upper.		
				7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
January	388	NE by N 17	NNE 15	2.7	2.5	2.2	3.0	0.8	0.5	Overcast 10 days norther from 27th to 30th.
February	321	NNE 12	NE 13	3.1	2.2	1.4	2.7	0.5	0.2	" 7 " NE gale 8th clear blue sky, 2 day.
March	376	NE 13	NE 13	2.6	1.1	2.2	2.7	0.2	0.3	" 5 " clear blue sky, 2 days.
April	257	NNE 11	NNE 10	3.4	0.8	1.3	3.6	0.9	0.6	" 5 "
May	249	NNE 11	ENE 10	1.8	1.5	2.9	3.4	1.3	1.1	" 10 "
June	302	ESE 17	SE 15	0.7	0.9	4.1	4.8	4.6	2.8	" 5 "
July	285	ESE 19	SE 18	1.0	0.3	3.1	4.0	3.6	3.8	" 8 " thunderstorm, 5 days.
August	271	NNE 13	NE 11	2.9	1.3	2.0	2.0	1.6	2.5	" 6 " " 2 " easterly gale 11th and 12th.
September	232	NE 10	ENE 8	2.2	2.3	1.9	2.7	2.3	2.2	" 6 " " 4 "
October	140	NE 5	E 7	2.3	1.3	1.8	3.0	1.9	2.5	" 8 " " 5 "
November	234	NE 14	NE by E 11	2.1	1.2	1.8	2.4	1.8	1.3	" 3 " clear blue sky 1 day.
December	315	N by E 18	NNE 14	3.7	0.4	1.6	3.4	0.3	0.4	" 4 " NE gale 20th and 21st.
Means	268	NE 13.6	ESE 12.1	2.4	1.3	2.2	3.1	1.6	1.5	Overcast 77 days, Thunderstorm 16, Clear Blu: Sky 5 days.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
MARCH, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.  
The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.  
The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.  
The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)			Extreme Temperature (F.)						
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	8	30.027	29.942	76.7	81.2	83.1	74.3	8.8	84.8	15	68.4	20	16.4
Kingston	24	30.001	29.947	68.4	81.7	84.3	66.9	17.4	87.3	6	63.6	25	23.7
Negril Point Light House	33	30.027	29.982	70.9	81.3	84.0	66.8	17.2	87.2	7	64.3	4	22.9
Montego Bay †	33			69.1	83.8	86.5	64.7	21.8	90.0	4	61.0	25	29.0
Castleton Gardens	496			64.7	78.2	82.3	63.7	18.6	87.0	6	57.0	3	30.0
Hope Gardens †	668	30.042	29.969	68.3	83.3	86.5	65.1	21.4	90.0	14	63.0	12	27.0
Hill Gardens, Blue Mountains	4,900	25.262	25.252	61.2	63.3	66.0	53.8	12.2	69.0	1	52.0	2	17.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.					
Morant Point Light House	8	69	78	70	68	1.44	281	NE	11.0	ENE	11.0	2.2	1.9	0.3	0.5	1.7	0.3
Kingston	24	63	81	68	63	1.73	184	N	3.3	SE	16.6	0.5	1.2	0.4	4.5	2.7	0.0
Negril Point Light House	33	65	83	67	64	4.67	141	NE	4.0	var.	9.0	1.6	0.2	0.5	2.6	4.1	0.1
Montego Bay Castleton Gardens	33	66	88	72	67	2.32		E	3.0	NE	7.0						
Hope Gardens	496	63	94	74	88	6.66											
Hill Gardens, Blue Mtns.	668	62	81	70	65	4.35											
	4,900	58	87	60	89	3.32											

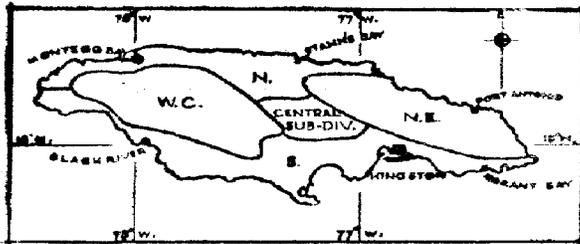
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



March, 1939.

STATIONS.	Total Fall.		Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Ins.	Ins.	Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.				Ins.
Manchioneal	6.03	2.37	21	13	3.08	
Priestman's River	1.80	0.65	19	9	4.28	
Bath	6.45	3.89	22	13	4.29	
Barrett's Gap	5.68	1.63	22	8		
Millbank	7.62	1.43	21	12		
Comfort Castle	6.40	2.00	21	12		
Moore Town	9.54	2.50	20	19	9.97	
Port Antonio	4.77	4.00	20	5	4.74	
Passley Garden	7.05	2.90	20	13		
Fellowship	7.73	3.50	20	13	7.25	
Johnson River Br.	0.69	0.42	20	4	2.76	
Trinity Ville	1.57	0.80	20	9		
Fruitful Vale	8.57	2.60	21	11		
Hope Bay	5.21	2.02	21	10		
Cedar Valley	3.29	2.39	16	3	3.00	
Paradise	2.45	1.00	20	10		
Lennox	4.69	2.58	20	6		
Greenvale	9.12	2.25	21	15	10.12	
Darley	4.55	2.93	21	13		
Spring Garden	3.40	1.57	20	7	5.81	
Hill Gardens	3.32	1.00	21	8	4.55	
Buff Bay	4.50	1.80	20	9	5.35	
Buff Bay R. Est	6.75	1.65	22	10		
Belvedere, Portland	6.11	1.96	20	10	6.53	
Windsor Castle, do.	4.63	2.43	20	8	5.49	
Balcarres	7.21	2.40	21	8		
Mt. Holstein	6.43	2.22	22	13	7.00	
Cedar Hurst	5.15	1.52	31	17		
Hardware Gap	7.24	1.76	19	18	4.07	

STATIONS.	March, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Ins.	Ins.	Date.		Ins.
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	5.62	0.96	20	13	4.53
Mount Cressy	8.90	2.00	21		
Hermitage	4.82	0.97	18	12	
Mount Airy	7.54	1.21	26	15	
Stony Hill Ind. Sch.	4.17	1.05	30	13	2.97
Boon Hall	5.98	1.60	18	20	
Brandon Hill	3.29	1.10	28	8	
Enfield	6.78	1.65	20	11	
Agualta Vale	2.23	0.74	20	6	4.43
Castleton Gardens	6.66	1.35	19	15	4.73
Water Valley	2.99	1.28	21	7	4.29
Albany	1.85	1.10	21	8	3.87
Lawrence Tavern	3.94	1.30	28	13	2.75
Wey Hill	3.42	1.63	26	12	
Richmond, St. Mary	5.31	1.32	21	7	3.71
Quebec, St. Mary	1.64	0.44	20	8	2.91
Above Rocks	6.09	1.72	29	16	
Glengoffe	3.57	1.30	30	6	
Carew Castle	4.96	1.27	29	14	3.02
Hampstead, St. Mary	4.39	2.10	20	5	4.72
Windsor Castle do.	4.99	2.85	21	7	
Troja	4.41	1.14	18	18	
Pear Tree Grove	6.25	1.60	4	11	
Guy's Hill	3.66	1.56	21	13	3.14
Lucky Hill	1.93	0.60	20	9	3.14
Rio Hoe	2.18	0.60	4	10	3.62
Unity Valley	4.69	1.24	19	13	3.64
Moneague	2.30	0.46	19	11	3.40
Claremont	5.53	1.28	18	12	3.17
Averham Park	3.29	1.11	18	11	3.72
Albion	7.49	1.53	18	13	3.50
<b>NORTHERN DIVISION (N).</b>					
Port Maria	5.01	2.50	20	10	3.06
Wentworth					
Oracabessa	2.14	1.10	20	6	
Huddersfield	1.15	0.75	20	3	
Ocho Rios	2.00	1.10	20	3	2.50
Rockfield	2.47	0.52	21	11	3.41
Liberty Hill	0.70	0.18	22	11	3.67
St. Ann's Bay	4.00	1.53	20	8	2.94
Richmond Estate	2.27	0.96	20	5	2.71
Runaway Bay	3.11	2.11	20	3	1.45
Knapdale	3.07	0.96	19	11	
Alexandria	4.19	1.83	19	7	1.91
Bel-Air	3.20	2.25	20	4	
Brown's Town	3.51	1.00	4	9	3.05
Wilton	2.34	0.80	19	8	
Watt Town, St. Ann	3.89	1.41	18	6	2.28
Home Castle	1.25	0.50	20	5	2.64
Arcadia	2.47	0.77	19	7	2.05
Vale Royal	2.98	0.84	19	9	2.32
Harmony Hall					2.04
Duncans	1.57	0.46	19	5	
Clark's Town	4.24	1.90	4	6	
Falmouth	1.59	0.65	15	5	1.71

STATIONS.	March, 1939.					STATIONS.	March, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Ins.	Ins.					Date.	Ins.		
<b>NORTHERN DIVISION, contd.</b>						<b>WEST-CENTRAL DIVISION, contd.</b>					
Adelphi	4.72	2.72	19	6		Mereworth	6.06	2.38	19	12	
Barrett Hall	1.42	0.76	19	4		Mandeville					4.18
Success	2.85	1.85	21	4	1.74	Ulster Spring	5.50	1.75	18	11	4.09
Rose Hall	2.42	1.55	21	4	1.64	Greenvale	6.87	1.87	15	8	
Cinnamon Hill	2.05	1.20	21	4	1.69	Albert Town	6.01	2.12	19	8	4.05
Tryall	1.77	0.90	21	4	1.60	Craig Head	4.47	2.20	19	5	
Running Gut	2.37	1.05	21	4	1.55	Warsop	4.54	1.65	31	9	
Spring Estate	1.88	0.66	21	4	1.52	Troy	6.43	2.14	31	9	5.88
Friendship	2.52	1.00	18	10	2.43	Wallingford	10.91	2.28	17	12	4.70
Retirement	3.07	1.39	31	6	3.02	Balaclava	11.39	2.84	17	11	4.47
Rose Mount	3.29	0.96	19	8		Braes River					
Montego Bay	2.32	0.52	20	9	1.65	Wakefield	2.01	0.90	19	9	
Anchovy	3.85	1.27	18	7	2.13	Aberdeen	10.86	1.75	17	14	
Hopewell	3.21	1.20	18	7		Accompong					
Blue Hole	2.02	0.97	20	7	3.01	Maggotty	13.63	2.85	29	14	5.93
Cascade	5.12	0.82	18	11		Lacovia	11.82	2.60	19	11	
Luca	4.34	1.12	20	13	2.37	Mulgrave	14.35	2.75	15	7	
Haughton Court	4.77	1.00	20	12	2.22	Holland					
Kendal—Hanover	6.03	1.00	18	18		Ipswich					
Cousins Cove	8.17	1.78	20	19		Ginger Hill	16.66	2.19	18	17	
Green River	7.01	2.00	28	17		Kempshot	3.17	0.94	31	9	3.11
Green Island	9.71	2.46	28	14	3.29	Mocho, St. James	12.43	3.10	18	9	
Haughton Hall	6.77	1.45	28	19		Catadupa	7.58	2.04	28	11	4.11
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	6.19	1.70	18	12	4.77
Knollis	6.34	3.04	25	16		New Market	15.67	3.40	18	17	5.53
Highgate (St. Cath.)	9.84	3.00	25	16		Springfield	12.80	3.00	18	12	
Rio Magno	11.21	2.60	18	12		Kew Park	10.63	1.66	18	14	4.42
Riversdale	3.82	1.10	30	9		The Bog	15.69	2.71	16	18	6.34
Headworks, R.C.C.	3.21	1.07	29	11	2.90	Bethel Town Dist.	18.29	3.52	18	18	4.69
Bog Walk	1.92	0.80	20	5		Burnt Ground	8.59	2.15	18	13	4.53
Linstead	4.21	1.23	20	14	3.08	Haughton Grove					6.98
Ewarton	1.60	0.40	21	7		Darliston	16.73	4.06	18	17	6.13
Cave Valley	2.73	1.50	19	6	2.70	Bluefields	8.05	1.77	31	13	6.93
Guanaboa Vale	1.79	0.66	20	9		Whithorn	9.91	2.20	26	14	4.83
Point Hill	7.16	2.25	25	16	4.66	Water Works Pen	10.06	2.20	26	17	5.22
Brown's Hall	8.16	2.40	25	10	4.35	Williamsfield, Wld.	13.55	3.60	26	16	
Bellas Gate	2.80	1.10	16	6	2.50	Baulk	8.73	1.90	26	15	
Rock River	2.69	1.05	20	9		Askenish	10.73	2.60	31	14	4.08
Crofts Hill	7.63	2.41	16	9	2.80	Grange Hill	9.21	2.00	19	15	5.22
Far Enough	3.33	1.62	17	4		Mount Eagle					
Suttons	5.36	1.89	16	9		King's Vale	3.54	1.20	28	9	4.22
Colonel's Ridge	3.75	1.35	19	8		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	4.29	1.95	16	10	2.60	Morant Point L. H.	1.44	0.76	20	13	2.26
Crooked River	4.47	1.20	17	9		Golden Grove					
James Hill	6.40	1.65	16	10		Pleasant Hill	3.45	0.98	21	18	3.39
Frankfield	7.00	1.79	14	10	2.14	East Prospect	1.76	1.02	21	11	2.96
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	0.92	0.30	6	7	1.96
Mocho, Clarendon	2.39	0.98	16	4	3.22	Aeolus Valley	0.85	0.33	2	5	
Smithville	2.66	0.60	20	10		Yallahs	0.30	0.15	9	2	
Clarendon Park						Easington	1.82	0.54	3	4	1.39
Porus	2.37	1.74	20	7		Llandewey	0.88	0.60	16	3	
Borobridge	4.35	0.90	16	9		Mavis Bank	2.40	0.59	16	6	
Spaldings	3.66	1.40	19	10	2.66	Bull Bay	1.04	0.84	16	2	0.41
Williamsfield	3.67	0.79	16	11		Dallas Castle	4.18	1.39	21	10	
Brokenhurst	6.88	2.13	19	10	3.05	Gordon Town	2.76	0.86	19	6	1.70
Shooter's Hill	4.52	1.60	19	11	3.02	Irish Town	3.63	1.30	20	8	1.98
Wait-a-bit	5.30	1.15	20	9		Hope Gardens	4.35	1.50	16	9	2.01
Christiana	2.80	1.20	19	9	1.23	Waireka					
Holmwood						Iver	2.78	1.49	16	9	
Clifton Hill	6.28	2.35	20	6	2.52	Plumb Point L. H.	1.05	0.55	16	3	0.83
Kendal, Manchester	3.59	1.78	18	7	3.28						

STATIONS.	March, 1939.					STATIONS.	March 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar. ..	2.06	0.65	15	7	1.54	Newport, Man. ..	4.09	1.00	19	6	2.96
Up-Park Camp ..	2.61	1.26	18	8	..	Alligator Pond ..	3.79	1.45	15	9	2.96
Cavaliers ..	2.87	1.06	18	10	..	Fairfield ..	4.94	1.77	19	11	1.61
St. Georges College ..	..	..	..	..	..	Pepper ..	..	..	..	..	..
Upper Kingston ..	2.37	0.91	20	10	0.76	Myersville ..	..	..	..	..	..
Parade Garden ..	1.98	0.85	20	7	..	Goshen ..	..	..	..	..	..
Kingston P.W.O. ..	1.73	0.97	20	6	0.94	Southfield, St. Eliz. ..	3.13	0.68	20	12	2.11
Constant Spring ..	2.80	0.67	31	13	..	Munro ..	3.83	1.47	20	13	..
Halfway Tree ..	1.98	0.63	18	7	1.16	Windsor, St. Eliz. ..	7.52	1.75	20	16	..
Clifton Pen ..	2.29	0.56	30	7	1.06	Torrington ..	3.90	1.16	16	6	3.13
Seaward Pen ..	1.71	0.80	18	3	..	Santa Cruz ..	13.71	2.94	19	13	4.61
Red Hills ..	3.97	0.74	18	13	..	Hounslow ..	3.27	0.70	19	9	..
Quarantine Station ..	0.21	0.15	3	4	0.55	Pedro Plains ..	4.35	1.35	19	9	1.63
Hematine ..	0.20	0.20	16	1	1.52	Mountainside ..	6.64	1.90	19	9	2.32
Spanish Town ..	0.25	0.16	16	6	1.98	Fort Charles ..	2.24	1.10	20	4	..
Hog Hole, St. Cath. ..	0.71	0.57	27	6	2.26	Black River ..	4.27	1.27	17	14	2.60
Old Harbour ..	1.43	0.48	8	5	2.40	Mt. Charles ..	5.25	1.00	14	17	..
May Pen ..	2.22	0.74	16	8	2.53	Font Hill ..	5.95	1.50	10	8	3.45
Glen Muir ..	1.90	0.80	19	4	..	Mount Edgecombe ..	4.20	0.96	2	13	4.10
Cottage ..	0.95	0.76	20	4	..	Sav.-la-Mar ..	4.35	1.50	18	15	2.81
Belle Plain ..	3.48	2.50	16	4	..	Little London ..	11.70	2.30	25	15	3.11
Milk River ..	1.84	1.01	16	4	1.55	Retreat ..	8.43	1.85	25	15	3.63
Retrieve ..	2.31	0.94	20	4	2.10	Negril Point L. H. ..	4.67	0.93	25	15	2.77
Stone's Hope ..	3.41	1.02	2	9	2.61						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	March.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern ..	4.57	4.61	11	9
Northern ..	3.58	2.37	7	6
West-central ..	8.37	4.25	12	9
Southern ..	3.38	2.19	8	6
The Island means ..	4.98	3.35	10	8

SHOCKS OF EARTHQUAKE IN MARCH, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported	

N.B.—It is particularly requested that all rainfall post cards be sent in not later than the 5th of each month.

## THE ISLAND—MARCH.

The mean rainfall for the Island was above the average. The North-eastern Division was slightly below normal, but all the other Divisions showed a substantial excess, particularly the West-central.

The heaviest precipitation occurred in the latter half of the month, particularly from the 18th to the 21st.

The greatest total fall for the month was 18.29 inches at Bethel Town District in the West-central Division, and the heaviest fall in 24 hours was 4.06 inches at Darliston in the same Division on the 18th.

The mean number of rain days was 10, the average for the month being 8. The greatest number was 20 at Boon Hall in the North-eastern Division.

The mean rainfall in each parish is given below, compared with the 10-year average, Westmoreland with 10.28 inches, was highest; St. Elizabeth, with 8.94 inches, second; and Hanover, with 6.13 inches, third. Kingston with 1.78 inch was lowest. All parishes, except Portland and St. Mary, were above the average.

Parish.	1939.	10-year Average.	Parish.	1939.	10-year Average.
	inches.	inches.		inches.	inches.
Kingston	1.78	0.64	St. James	3.76	2.52
St. Andrew	3.94	1.82	Hanover	6.13	2.78
St. Thomas	2.32	1.93	Westmoreland	10.28	3.34
Portland	5.90	6.36	St. Elizabeth	8.94	3.04
St. Mary	3.61	4.22	Manchester	4.40	2.49
St. Ann	3.21	3.17	Clarendon	3.77	1.88
Trelawny	3.88	3.12	St. Catherine	3.99	2.45

## CITY OF KINGSTON.

The total rainfall for the month of March, 1939, was 1.73 of an inch, as compared to the 60-year normal of 0.94 of an inch. There were six days of appreciable rainfall, as compared to the 49-year average of four. The greatest fall in 24 hours was 0.97 inch on the 20th. The upper boundary of Kingston gauged 2.37 inches with 10 days of rain.

The days upon which distant rain was observed are as follows:—To northward on seven; to north-eastward, seven and to southwest, two.

Distant thunderstorm observed to north once.

The mean barometric pressure was 29.984 ins., the 33-year normal being 29.965 inches, shewing 0.019 inch above the normal. This is the third month in succession reading above the normal. The highest barometer reading was 30.048 inches on the 9th at 3 p.m. and the lowest was 29.921 inches on the 13th at 3 p.m. and on the 14th at 7 a.m., corrected for diurnal variation.

Mean monthly temperature was 74.8°, based upon four observations per day, representing 1.7° below the 33-year average of 76.5°. The highest maximum was 87.3° on the 6th, and the lowest minimum was 63.6° on the 25th, giving an extreme monthly range of 23.7°; on the other hand the lowest maximum was 82.0° on the 9th, and the highest minimum was 68.9° on the 11th and 14th. The greatest daily range was 21.1° on the 25th. The maximum was below 90° throughout and the minimum was below 70° throughout.

The mean daily miles of wind, registered was 184, as compared to the 25-year average of 188. The greatest number of miles recorded in 24 hours was 317 on the 6th, and the least was 110 on the 24th. The highest hourly velocity was 36 miles on the 6th at about 2 p.m. On no occasion did the SE wind appear before 7 a.m., but continued after 7 p.m. on 13 occasions.

Mean relative humidity was 75%; the 33-year normal being 77%. The mean 7 a.m. was 81% and the mean 3 p.m. 63%. The lowest 7 a.m. 72% on the 1st, and the lowest 3 p.m. was 49% on the 6th.

Overcast conditions prevailed in the forenoon on six occasions and in the afternoon on twenty-one.

The mean daily number of sunshine hours was 6.2.

Total evaporation for the month of March was 5.49 inches as against the 10-year average of 6.64 inches.

## EVAPORATION TABLES.

*Kingston.*—Appended to this Weather Report No. 755, is a Table (A) summarising the results of the daily evaporation, gauged each month of the year 1938, at the City of Kingston. The evaporimeter continued to be maintained with the same exposure as that in former years, since 1924. (*Vide* Jamaica Weather Report No. 570, page 5, March 1925.)

By an inspection of this Table for 1938, it will be seen that the maximum evaporation occurred in the month of July, when a total of 7.22 inches was gauged, representing for this month, a daily mean of 0.233 of an inch. The minimum appears in the month of October giving a total of 3.77 inches and a daily mean of 0.122 of an inch.

The total evaporation for the year 1938 was 60.85 inches, or 10.86 inches below the 10-year average. The general monthly mean for the twelve months gives 5.07 inches with an average daily mean of 0.167 of an inch, or 0.002 of an inch greater than the previous year 1937.

The greatest evaporation in 24 hours was 0.34 of an inch on the 12th of July; the days which gauged the greatest amount of evaporation are indicated by bolder-faced type in the respective columns of the Table.

By way of comparison, the rain gauge which is installed in the vicinity of the Evaporimeter recorded 24.11 inches for the year 1938.

At the foot of the Table are shown the corresponding monthly normals.

*Negril Point.*—Another Table (B) shewing the amount of evaporation at Negril Point, to extreme west of Jamaica, which was supplied by Mr. J. S. Brownhill, is also appended. It will be observed that the monthly maximum of 8.01 inches occurred in March, with a daily mean of 0.258 of an inch. The minimum was 4.93 inches, occurred in November, giving a daily mean of 0.164 of an inch, or about two-thirds the amount for March.

The total evaporation for the year 1938, was 76.47 inches, shewing 15.62 inches more than that for Kingston. The general monthly mean for the year was 6.37 inches, and the year's daily mean was 0.210 of an inch. It may be stated that the rain-gauge, which is installed in the vicinity of the Evaporimeter gauged 42.41 inches for the year 1938.

By referring to the monthly columns it will be seen that the maximum daily evaporation is indicated, also in bolder-faced type. The greatest evaporation in 24 hours for the year 1938, amounted to 0.37 inch on 1st of May.

#### MONTEGO BAY.

In recent years the Jamaica Tourist Trade Development Board has expressed a desire to obtain Meteorological statistics for the information of tourists and visitors to the Island at the popular tourist resorts.

As a start, in 1937, an observing station was fitted up at Montego Bay, to the north-westward of the Island, in the Public Works premises, under the charge of the Public Works Superintendent, the cost, both of establishment and maintenance, being borne by the Tourist Trade Development Board.

At the end of 1938, the first complete year of observations became available. These include means of Temperatures, Humidity, Dew Point, Wind Direction, approximate velocity and Rainfall. A table (c) of these results is attached. It will be seen that the extreme maximum temperature of 94.5° occurred on the 5th June and the 12th July and the lowest minimum of 55.0° on the 28th February. The mean temperature for the year, derived from four observations per day, was 78.1°.

Unlike Kingston, the land breeze blows from the S.E. and the sea breeze at 3.00 p.m. from the N.E. The mean relative humidity at 7 a.m. was 87% and at 3 p.m. 76%.

The actual observations were conducted by Mr. Sinclair of the Public Works Department, Montego Bay.

As time goes on and funds become available it is contemplated that many more Stations will be provided at the various tourist centres of the Island.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
April 20th, 1939.

TABLE (A)—KINGSTON, 1938.

Daily Record of Evaporation in inches—Evaporimeter 6 inches above ground and 102 feet above sea level. (148½ East Street).

Date.	Jany.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.05	0.14	0.15	0.21	0.24	0.21	0.20	0.19	0.20	0.09	0.14	0.13
2	0.12	0.13	0.14	0.15	0.22	0.29	0.35	0.25	0.12	0.10	0.10	0.12
3	0.10	0.14	0.18	0.24	0.04	0.30	0.40	0.27	0.18	0.14	0.12	0.12
4	0.11	0.15	0.15	0.17	0.21	0.32	0.33	0.24	0.02	0.12	0.14	0.12
5	0.11	0.15	0.19	0.18	0.18	0.30	0.20	0.17	0.12	0.17	0.09	0.13
6	0.11	0.13	0.14	0.17	0.24	0.28	0.27	0.24	0.10	0.14	0.11	0.10
7	0.14	0.17	0.16	0.26	0.28	0.20	0.28	0.17	0.05	0.13	0.09	0.12
8	0.11	0.19	0.23	0.27	0.25	0.16	0.18	0.12	0.17	0.12	0.12	0.06
9	0.15	0.21	0.17	0.21	0.23	0.14	0.22	0.06	0.08	0.27	0.09	0.12
10	0.13	0.13	0.15	0.15	0.22	0.29	0.27	0.26	0.10	0.08	0.11	0.12
11	0.14	0.17	0.21	0.22	0.24	0.33	0.29	0.02	0.12	0.16	0.08	0.12
12	0.14	0.08	0.21	0.12	0.28	0.17	0.34	0.21	0.06	0.14	0.15	0.14
13	0.09	0.15	0.20	0.13	0.22	0.27	0.19	0.26	0.14	0.18	0.14	0.13
14	0.12	0.10	0.21	0.19	0.24	0.14	0.32	0.11	0.16	0.09	0.13	0.12
15	0.15	0.14	0.16	0.09	0.11	0.18	0.26	0.18	0.13	0.10	0.13	0.15
16	0.17	0.14	0.21	0.27	0.14	0.18	0.23	0.21	0.17	0.07	0.17	0.12
17	0.13	0.12	0.17	0.24	0.25	0.15	0.04	0.19	0.11	0.02	0.13	0.15
18	0.13	0.13	0.18	0.13	0.20	0.24	0.21	0.20	0.11	0.12	0.14	0.13
19	0.14	0.16	0.20	0.11	0.21	0.21	0.18	0.23	0.16	0.14	0.18	0.15
20	0.15	0.11	0.17	0.15	0.24	0.20	0.19	0.13	0.17	0.01	0.10	0.15
21	0.15	0.16	0.20	0.19	0.21	0.33	0.24	0.17	0.19	0.06	0.12	0.10
22	0.16	0.18	0.22	0.19	0.14	0.16	0.25	0.23	0.13	0.17	0.12	0.20
23	0.18	0.14	0.23	0.21	0.20	0.16	0.28	0.06	0.13	0.16	0.12	0.14
24	0.15	0.13	0.13	0.21	0.08	0.27	0.21	0.19	0.19	0.13	0.14	0.17
25	0.13	0.12	0.12	0.10	0.20	0.24	0.06	0.03	0.14	0.14	0.14	0.17
26	0.15	0.07	0.14	0.16	0.23	0.33	0.30	0.26	0.17	0.13	0.16	0.18
27	0.16	0.06	0.09	0.10	0.14	0.27	0.24	0.31	0.15	0.10	0.14	0.10
28	0.15	0.20	0.23	0.16	0.32	0.20	0.22	0.08	0.10	0.13	0.16	0.18
29	0.18	..	0.17	0.20	0.22	0.26	0.11	0.19	0.16	0.15	0.14	0.14
30	0.11	..	0.18	0.32	0.28	0.23	0.17	0.15	0.06	0.09	0.12	0.16
31	0.16	..	0.14	..	0.25	..	0.19	0.05	..	0.12	..	0.17
Totals	4.17	3.89	5.43	5.50	6.51	7.01	7.22	5.43	3.89	3.77	3.82	4.21
Daily Means	0.135	0.139	0.175	0.183	0.210	0.234	0.233	0.175	0.130	0.122	0.127	0.136
10-yr. monthly Normals	5.06	4.90	6.64	7.75	7.91	6.93	7.89	7.56	5.12	4.05	3.35	4.37

The total Evaporation for the year 1938 was 60.85 inches.  
10-year average .. .. . 71.71 inches

TABLE (B)—NEGRIL POINT, YEAR 1938.

Daily Record of Evaporation, in inches—Evaporimeter 4 inches above ground and 27 feet above sea level.

Date.	Jany.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.04	0.27	0.32	0.27	0.37	0.30	0.20	0.31	0.19	0.15	0.17	0.14
2	0.14	0.25	0.33	0.24	0.30	0.19	0.15	0.21	0.23	0.21	0.14	0.22
3	0.19	0.23	0.33	0.20	0.16	0.28	0.20	0.22	0.22	0.11	0.11	0.17
4	0.16	0.27	0.22	0.23	0.23	0.22	0.17	0.26	0.15	0.14	0.15	0.17
5	0.13	0.21	0.30	0.24	0.29	0.16	0.18	0.20	0.21	0.16	0.23	0.17
6	0.10	0.26	0.19	0.26	0.22	0.22	0.22	0.19	0.10	0.20	0.12	0.18
7	0.21	0.26	0.29	0.35	0.28	0.17	0.28	0.11	0.19	0.15	0.19	0.11
8	0.13	0.36	0.35	0.35	0.29	0.17	0.21	0.20	0.18	0.13	0.17	0.14
9	0.15	0.31	0.32	0.32	0.28	0.16	0.14	0.25	0.19	0.19	0.11	0.26
10	0.20	0.30	0.22	0.17	0.28	0.18	0.21	0.20	0.13	0.13	0.18	0.14
11	0.19	0.32	0.28	0.21	0.31	0.13	0.33	0.15	0.15	0.18	0.11	0.16
12	0.18	0.25	0.25	0.28	0.28	0.19	0.18	0.23	0.16	0.19	0.13	0.21
13	0.21	0.21	0.27	0.21	0.33	0.15	0.23	0.18	0.26	0.17	0.25	0.16
14	0.22	0.19	0.27	0.19	0.23	0.21	0.18	0.19	0.25	0.17	0.16	0.18
15	0.31	0.28	0.36	0.07	0.22	0.24	0.28	0.14	0.21	0.08	0.21	0.20
16	0.30	0.21	0.16	0.24	0.18	0.15	0.21	0.20	0.27	0.14	0.16	0.22
17	0.22	0.21	0.26	0.24	0.25	0.24	0.01	0.23	0.23	0.12	0.18	0.25
18	0.23	0.19	0.30	0.29	0.18	0.18	0.14	0.26	0.17	0.15	0.19	0.18
19	0.21	0.23	0.28	0.17	0.21	0.21	0.12	0.26	0.25	0.14	0.20	0.20
20	0.31	0.20	0.18	0.21	0.21	0.23	0.22	0.14	0.20	0.05	0.10	0.26
21	0.26	0.27	0.18	0.16	0.25	0.30	0.26	0.22	0.19	0.14	0.10	0.22
22	0.22	0.32	0.30	0.19	0.09	0.18	0.19	0.24	0.20	0.19	0.15	0.23
23	0.22	0.24	0.18	0.25	0.13	0.15	0.15	0.14	0.17	0.16	0.15	0.19
24	0.21	0.25	0.24	0.23	0.17	0.23	0.22	0.15	0.22	0.20	0.20	0.29
25	0.27	0.31	0.26	0.19	0.14	0.19	0.20	0.27	0.22	0.19	0.19	0.25
26	0.15	0.32	0.21	0.21	0.24	0.29	0.22	0.23	0.18	0.20	0.19	0.24
27	0.17	0.33	0.20	0.22	0.26	0.21	0.23	0.15	0.18	0.16	0.10	0.20
28	0.36	0.28	0.21	0.28	0.11	0.20	0.22	0.22	0.22	0.20	0.19	0.29
29	0.24	..	0.28	0.26	0.34	0.29	0.14	0.13	0.14	0.18	0.21	0.26
30	0.20	..	0.21	0.33	0.10	0.20	0.23	0.12	0.18	0.24	0.18	0.22
31	0.25	..	0.26	..	0.18	..	0.21	0.16	..	0.12	..	0.25
Totals	6.38	7.33	8.01	7.06	7.11	6.22	6.13	6.16	5.84	4.94	4.93	6.36
Daily Means	0.206	0.262	0.258	0.235	0.229	0.207	0.198	0.199	0.195	0.159	0.164	0.205

The Total Evaporation for the year 1938 was 76.47 inches.

TABLE (C).

## MONTGEO BAY METEOROLOGICAL RESULTS FOR THE YEAR 1938.

(Lat. 17° 17' N and Long 77° 55' West).

Month.	Temperature (F.)				Extreme Temperature (F.)				Dew Point and Humidity.			Rainfall (inches.)	Wind. (approx.) Direction from and miles per hour.		Remarks.			
	7 a.m.	3 p.m.	Max.	Min.	Range	Max.	Date.	Min.	Date.	Range	7 a.m.		3 p.m.	7 a.m.		3 p.m.		
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°		
January	69.5	82.1	83.9	66.3	17.6	88.0	7	61.0	23	27.0	67	73	75	ENE	2.0	ENE	7.0	
February	67.6	81.2	83.0	64.0	19.0	87.1	24	55.0	28	32.1	65	90	76	NE	3.0	NE	7.0	Lowest Min. Temp.
March	68.5	84.8	87.0	64.9	22.1	89.1	18	58.5	1	30.6				SE	2.0	NE	7.0	No rainfall
April	70.3	85.3	88.6	66.3	22.3	91.1	12	61.1	2	30.0				SE	3.0	NE	6.0	
May	74.0	86.2	90.3	69.1	21.2	92.8	14	66.5	8	26.3				SE	2.0	NE	5.0	
June	75.6	87.9	90.9	70.7	20.2	94.5	5	67.0	5	27.5	70	83	69	SE	3.0	NE	7.0	
July	74.7	87.0	91.2	70.0	21.2	94.5	12	65.0	1	29.5	70	85	70	SSE	2.0	NE	4.0	
August	76.0	88.0	90.2	71.5	18.7	93.0	30	69.0	14*	24.0	71	85	69	SE	3.0	NE	7.0	
September	74.8	84.1	90.1	71.3	18.8	93.0	18	68.0	17	25.0	71	89	79	SE	2.0	NE	6.0	Greatest rainfall for month.
October	76.1	85.7	89.3	73.2	16.1	91.5	7*	69.9	29	21.6	72	88	73	SE	3.0	NE	7.0	
November	73.8	82.7	88.6	69.3	19.3	90.5	5*	65.0	28	25.5	69	85	77	SE	3.0	NE	7.0	
December	71.0	83.9	85.6	66.7	18.9	89.1	26	62.0	31	27.1	67	87	73	E	5.0	NE	10.0	
Means Total	72.7	84.9	88.2	68.6	19.6	91.2	...	64.0	...	27.2	69	87	74	SE	2.7	NE	6.7	78 days of rain.
											(A)		(A)					

† Instruments not working properly.

\* And on other days.

(A) Mean Humidity and Dew Point for 9 months only.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

APRIL, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)				Extreme Temperature (F.)					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	8	30.011	29.980	78.0	81.9	84.7	74.3	10.4	89.7	26	63.6	5	26.1
Kingston	24	29.987	29.932	72.7	82.8	95.0	68.6	16.4	87.0	29	65.0	6	22.0
Negril Point Light House	33	29.993	29.958	73.0	80.7	83.3	67.5	15.8	85.6	30	64.1	4	21.5
Montego Bay †	33	..	..	68.6	83.8	87.2	64.9	22.3	90.0	11*	62.0	16	28.0
Castleton Gardens	496	..	..	64.9	78.4	82.9	63.9	19.0	87.0	7*	60.0	4	27.0
Hope Gardens †	668	30.038	29.947	69.7	82.3	85.9	65.4	20.5	90.0	29	61.0	18	29.0
Hill Gardens, Blue Mountains	4,900	25.264	25.258	62.4	64.7	67.0	55.5	11.5	71.0	28*	55.0	1*	16.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.	%			%	ins.	Mls.	7 a.m.	3 p.m.	Dir.	m.p.h.	Dir.	m.p.h.	7 a.m.			3 p.m.		
																L	M	U	L	M	U
Morant Point Light House	8	71	79	71	70	2.40	303	ENE	13.0	ENE	13.5	2.4	2.5	0.6	1.9	2.9	1.2				
Kingston	24	65	78	69	64	1.81	248	NE	5.3	SE	17.7	1.6	0.6	1.1	3.3	1.8	0.6				
Negril Point Light House	33	68	84	70	69	7.40	127	ENE	3.0	var.	8.0	0.8	0.5	3.3	5.8	1.8	0.9				
Montego Bay	33	66	91	73	70	8.00	..	E	1.0	ENE	6.0	..	..	..	..	..	..				
Castleton Gardens	496	63	94	73	83	8.78	..	..	..	..	..	..	..	..	..	..	..				
Hope Gardens	668	62	75	67	61	1.42	..	..	..	..	..	..	..	..	..	..	..				
Hill Gardens, Blue Mtns.	4,900	59	91	61	87	2.77	..	..	..	..	..	..	..	..	..	..	..				

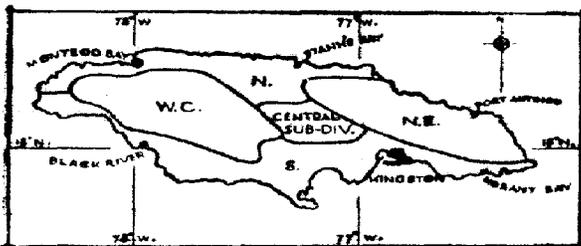
\* And on other days. †Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 †Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



April, 1939.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioneal	2.98	0.65	4 12	6.64	
Priestman's River	5.34	2.03	23 13	5.03	
Bath	5.94	0.75	11 21	5.98	
Barrett's Gap	7.14	1.50	10 18		
Millbank	6.15	1.04	23 11		
Comfort Castle	7.25	1.70	13 13		
Moore Town	9.15	1.00	21 18	11.18	
Port Antonio	6.54	1.82	11 10	6.55	
Passley Garden	6.13	1.21	3 17		
Fellowship	7.20	1.45	20 14	9.64	
Johnson River Br.	3.56	0.64	11 10	4.08	
Trinity Ville	2.63	0.50	11 15		
Fruitful Vale	3.65	0.91	20 7		
Hope Bay	3.42	1.26	3 13		
Cedar Valley	2.09	0.54	4 9	4.04	
Paradise	1.95	0.82	4 5		
Lennox	4.62	2.57	3 11		
Greenvale	3.32	1.10	3 11	10.16	
Darley	4.07	0.88	20 24		
Spring Garden	4.37	2.30	3 9	4.01	
Hill Gardens	2.77	0.64	2 11	5.65	
Buff Bay	5.00	2.35	3 9	6.26	
Buff Bay R. Est.	5.20	2.43	3 12		
Belvedere, Portland	3.82	1.12	3 11	4.50	
Windsor Castle, do.	2.86	0.62	13 10	5.51	
Balcarras	1.73	0.60	3 10		
Mt. Holstein	3.56	1.20	11 9	7.03	
Cedar Hurat	4.02	1.01	2 19		
Hardware Gap	3.94	0.68	3 16	6.40	

STATIONS.	April, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Amount.	Date.			
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	7.78	2.50	3 14	7.70	
Mount Cressy	7.47	1.75	3		
Hermitage	3.78	1.00	2 16		
Mount Airy	7.23	1.92	3 15		
Stony Hill Ind. Sch.	4.10	1.44	2 12	5.21	
Boon Hall	4.27	0.92	2 14		
Brandon Hill	2.81	0.72	6 8		
Enfield	5.07	1.72	3 13		
Agualta Vale	2.03	0.87	22 5	4.60	
Castleton Gardens	8.78	2.10	2 19	6.64	
Water Valley	5.21	1.30	14 5	4.88	
Albany	4.36	1.36	3 10	4.66	
Lawrence Tavern	2.53	0.51	18 13	4.74	
Wey Hill	4.72	1.40	1 13		
Richmond, St. Mary	6.10	1.35	2 9	4.54	
Quebec, St. Mary	5.20	2.14	12 10	3.70	
Above Rocks	3.44	0.72	2 14		
Glengoffe	4.08	1.04	1 9		
Carew Castle	3.74	0.89	2 11	5.08	
Hampstead, St. Mary	4.20	1.10	3 8	5.47	
Windsor Castle do.	9.09	2.85	2 16		
Troja	7.63	3.00	1 10		
Pear Tree Grove	4.03	0.87	1 17		
Guy's Hill	6.09	1.55	2 16	4.32	
Lucky Hill	3.53	0.65	3 12	4.02	
Rio Hoe	11.55	3.81	11 14	4.51	
Unity Valley	7.38	2.53	11 19	4.90	
Moneague	6.25	2.05	11 17	4.66	
Claremont	5.77	1.50	11 13	4.17	
Averham Park	4.18	1.48	3 21	4.57	
Albion	4.48	1.14	3 15	4.47	
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	6.85	2.55	12 15	4.00	
Wentworth					
Oracabessa	4.66	1.73	3 11		
Huddersfield	2.63	0.90	3 4		
Ocho Rios	1.45	0.40	11 5	3.36	
Rockfield	3.11	0.96	12 11	5.02	
Liberty Hill	0.62	0.37	3 5	4.02	
St. Ann's Bay	3.75	1.60	3 12	3.70	
Richmond Estate	1.00	0.50	11 4	3.58	
Runaway Bay	2.84	2.36	3 3	1.03	
Knapdale	3.70	0.84	3 14		
Alexandria	2.30	0.62	18 7	2.94	
Bel-Air	4.10	3.20	5 5		
Brown's Town	3.65	1.52	3 10	3.62	
Wilton	3.84	0.52	14 13		
Watt Town, St. Ann	1.25	0.41	9 6	3.02	
Home Castle				3.22	
Arcadia	2.32	1.43	3 7	2.56	
Vale Royal	2.45	1.37	3 9	2.94	
Harmony Hall				2.08	
Duncans	2.34	2.00	3 4		
Clark's Town	3.88	2.50	3 4		
Falmouth	2.57	2.25	3 5	2.06	

STATIONS.	April, 1939.					STATIONS.	April, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>						<b>WEST-CENTRAL DIVISION, contd.</b>					
Adelphi						Mereworth	3 24	0 64	12	13	
Barrett Hall	2 45	2 45	3	1		Mandeville	3 52	1 30	2	8	5 60
Success	2 32	2 32	3	1	1 84	Ulster Spring	7 55	2 05	5	10	6 85
Rose Hall	2 00	2 00	3	1	1 78	Greenvale	2 38	1 50	3	6	
Cinnamon Hill	2 30	2 30	3	1	1 83	Albert Town	5 05	4 35	3	3	6 62
Tryall	2 23	2 15	3	2	2 60	Craig Head					
Running Gut	1 85	1 85	3	1	1 79	Warsop	6 85	3 10	3	6	
Spring Estate	2 53	1 86	3	2	1 67	Troy	8 87	2 35	3	11	8 28
Friendship	7 97	4 10	3	9	2 72	Wallingford	8 67	4 08	3	10	8 41
Retirement	6 04	3 00	3	7	4 29	Balaclava	7 43	2 47	3	11	9 03
Rose Mount	4 59	2 06	3	6		Braes River					
Montego Bay	8 03	2 21	3	8	3 02	Wakefield	5 51	2 89	3	5	
Anchovy	3 82	1 81	3	9	3 34	Aberdeen	9 46	2 92	3	13	
Hopewell	5 59	2 75	3	12		Accompong					
Blue Hole	6 59	0 49	25	8	3 55	Maggotty	6 94	1 55	10	12	9 83
Cascade	24 02	5 64	3	17		Lacovia	3 37	1 15	10	7	
Lucea	7 36	2 78	3	13	3 53	Mulgrave	6 52	2 10	3	13	
Haughton Court	9 11	2 90	25	13	3 33	Holland					
Kendal—Hanover	12 45	3 84	3	19		Ipwich					
Cousins Cove	12 57	2 00	25	22		Ginger Hill	7 41	2 00	4	15	
Green River	12 87	3 40	3	20		Kempshot	5 45	2 53	3	14	4 90
Green Island	14 04	2 25	23	19	4 79	Mochó, St. James	16 13	6 00	3	13	
Haughton Hall	10 77	2 16	25	23		Catadupa	10 14	4 06	3	11	7 63
<b>CENTRAL SUB-DIVISION.</b>						<b>SOUTHERN DIVISION (S.)</b>					
Knollis	5 82	1 56	14	14		Morant Point L. H.	2 40	1 03	15	16	3 19
Highgate (St. Cath.)	8 53	1 71	2	15		Golden Grove					
Rio Magno	5 63	2 40	1	10		Pleasant Hill	2 82	0 60	15	16	2 19
Riversdale	6 33	1 10	18	11		East Prospect	2 15	0 44	11	12	4 23
Headworks, R.C.C.	2 90	1 17	10	7	3 46	Morant Bay	1 96	0 36	15	14	2 84
Bog Walk	4 13	0 75	4	11		Aeolus Valley	2 75	0 71	12	14	
Linstead	4 44	1 01	4	13	4 46	Yallahs	1 34	0 39	12	7	
Ewarton	3 68	1 10	4	13		Easington	2 24	0 82	2	12	2 00
Cave Valley	2 59	0 74	15	6	4 63	Llandewey					
Guanaboa Vale	2 53	1 45	10	7		Mavis Bank	0 56	0 35	4	3	
Point Hill	6 70	1 84	4	13	5 52	Bull Bay	0 00			0	0 93
Brown's Hall	4 89	1 00	2	10	4 17	Dallas Castle	0 63	0 19	14	8	
Bellas Gate	4 01	1 33	10	7	2 39	Gordon Town	1 38	0 80	3	3	3 26
Rock River	2 92	1 17	2	6		Irish Town	1 40	0 82	3	3	4 06
Crofts Hill	1 50	0 35	2	8	3 73	Hope Gardens	1 42	0 56	3	11	2 95
Far Enough	2 58	0 67	2	11		Waireka					
Suttons	3 88	1 96	2	5		Iver	3 05	0 88	2	9	
Colonel's Ridge	1 67	0 71	2	6		Barbican					
Chapelton	3 63	1 83	2	8	3 73	Plumb Point L. H.	1 25	0 35	2	6	1 15
Crooked River	3 00	1 73	2	7							
James Hill	3 67	1 36	2	10							
Frankfield	3 49	0 83	2	9							
<b>WEST-CENTRAL DIVISION (W.C.)</b>											
Mochó, Clarendon	1 14	0 39	3	5	4 76						
Smithville	3 58	0 85	3	8							
Clarendon Park											
Porus	2 48	0 87	3	8							
Borobridge	3 10	0 70	3	6							
Spaldings	3 63	1 60	3	6	3 43						
Williamsfield	2 37	0 81	3	12							
Brokenhurst	2 01	0 54	14	8	5 31						
Shooter's Hill	1 76	0 68	3	7	4 17						
Wait-a-bit	6 48	2 00	14	8							
Christiana	2 48	1 30	3	9	6 64						
Holmwood											
Clifton Hill	3 93	1 00	2	5	4 45						
Kendal, Manchester	1 25	0 67	3	5	6 06						

STATIONS.	April, 1939.					STATIONS.	April, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.		Ins.	
King's House Gar. . . . .	3.09	1.30	4	4	2.43	Newport, Man. . . . .	1.53	0.54	3	5	4.77
Up-Park Camp . . . . .	2.69	0.92	4	9		Alligator Pond . . . . .					2.97
Cavaliers . . . . .	2.35	0.67	4	9		Fairfield . . . . .	1.61	0.61	3	13	5.39
St. Georges College . . . . .						Pepper . . . . .					
Upper Kingston . . . . .	2.06	0.50	4	9	0.94	Myersville . . . . .					
Parade Garden . . . . .	1.89	0.50	4	8		Goshen . . . . .	1.11	0.47	3	5	
Kingston P.W.O. . . . .	1.81	0.62	2	6	1.17	Southfield, St. Eliz. . . . .	0.62	0.41	3	3	3.60
Constant Spring . . . . .	4.18	0.95	12	11		Munro . . . . .	1.23	0.38	3	9	
Halfway Tree . . . . .	1.84	0.79	4	5	1.86	Windsor, St. Eliz. . . . .	1.44	0.57	10	8	
Clifton Pen . . . . .	1.76	0.64	5	7	1.74	Torrington . . . . .	1.02	0.46	3	3	4.86
Seaward Pen . . . . .	1.49	0.62	5	3		Santa Cruz . . . . .	1.91	1.07	10	5	8.81
Red Hills . . . . .	5.92	1.97	4	12		Hounslow . . . . .	0.45	0.25	3	2	
Quarantine Station . . . . .	1.12	0.96	5	5	1.36	Pedro Plains . . . . .	0.64	0.40	2	3	2.64
Hematine . . . . .	2.34	1.80	4	5	2.49	Mountainside . . . . .					5.20
Spanish Town . . . . .	2.37	1.72	4	10	2.36	Fort Charles . . . . .	0.43	0.43	3	1	
Hog Hole, St. Cath. . . . .	2.70	2.32	4	8	2.94	Black River . . . . .	3.47	1.03	11	6	3.98
Old Harbour . . . . .	3.02	1.57	3	3	2.81	Mt. Charles . . . . .	2.62	0.67	3	10	
May Pen . . . . .	1.51	0.55	14	7	3.00	Font Hill . . . . .	5.70	1.60	10	9	4.45
Glen Muir . . . . .	1.50	0.60	7	4		Mount Edgecombe . . . . .	5.98	0.98	10	16	5.32
Cottage . . . . .	0.60	0.21	21	6		Sav.-la-Mar . . . . .	6.68	1.60	3	15	4.79
Belle Plain . . . . .	2.82	1.05	14	4		Little London . . . . .	11.88	2.00	11	16	4.88
Milk River . . . . .	1.15	0.25	3	8	2.22	Retreat . . . . .	6.50	1.32	3	16	4.91
Retrieve . . . . .	1.38	0.41	12	6	2.59	Negril Point L. H. . . . .	7.40	1.89	3	16	2.92
Stone's Hope . . . . .	2.14	0.67	2	7	4.13						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	April.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern . . . . .	5.02	5.80	13	10
Northern . . . . .	4.01	3.17	9	6
West-central . . . . .	8.00	6.82	12	11
Southern . . . . .	2.71	3.28	8	7
The Island means . . . . .	4.94	4.77	11	9

SHOCKS OF EARTHQUAKE IN FEBRUARY, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
			None reported.

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—APRIL.

The mean rainfall for the Island was slightly above the average. The North-eastern and Southern Divisions were deficient, but the Northern and West-central Divisions showed an excess.

The heaviest precipitation appears to have occurred during the first week, particularly from the 1st to the 4th.

The greatest total fall was 24.02 inches at Cascade in the Northern Division, and the heaviest fall in 24 hours was 6.00 inches at Mocho, St. James, in the West-central Division on the 3rd.

No rain fell at Bull Bay in the Southern Division.

The mean number of rain days was 11, the average for the month being 9. Darley in the North-eastern Division had the greatest number—24.

The mean rainfall in each parish is given below, compared with the 10-year average; Hanover, with 12.44 inches, was highest; Westmoreland, with 10.69 inches was second; and St. James, with 5.40 inches, was third. Kingston, with 1.75 inch was lowest.

Parish.	1939.	10-year Average.	Parish.	1939.	10-year Average.
	inches.	inches.		inches.	inches.
Kingston ..	1.75	1.08	St. James ..	5.40	5.21
St. Andrew ..	3.15	4.45	Hanover ..	12.44	6.13
St. Thomas ..	3.09	4.67	Westmoreland ..	10.69	7.85
Portland ..	4.65	10.45	St. Elizabeth ..	4.13	6.97
St. Mary ..	5.17	6.63	Manchester ..	2.29	5.07
St. Ann ..	3.88	5.62	Clarendon ..	2.52	4.48
Trelawny ..	4.90	5.18	St. Catherine ..	4.40	4.93

## CITY OF KINGSTON.

The total rainfall for the month of April was 1.81 of an inch, representing about 55% above the 60-year normal of 1.17 of an inch. The greatest fall in 24 hours was 0.62 inch on the 2nd. There were six days with appreciable rain as compared to the 49-year average of 5.3. The upper boundary of Kingston gauged 2.06 inches with 9 days of rain.

The number of days upon which distant rain was observed are as follows: to the northward on two days, to the north-east on one.

Intense distant lightning seen to the far north and northwest on 2nd.

Solar halos seen on the 27th at 2.30 p.m. and 28th at 9.15 a.m.

The mean Barometric pressure was 29.967 inches. The 33-year normal being 29.941 inches, shewing 0.026 inch above the normal. The highest reading was 30.061 inches on the 13th at 3 p.m. and the lowest was 29.905 inches on the 5th at 7 a.m., and on the 29th at 3 p.m. corrected for diurnal variation.

Mean temperature for the month was 76.8°, based upon four observations per day, the 33-year normal being 78.2°, shewing 1.4° below the normal. The extreme maximum was 87.0° on the 29th, and the lowest minimum was 64.6° on the 4th, equivalent to an extreme monthly range of 22.4°. On the other hand the lowest maximum was 81.9° on the 5th, and the highest minimum was 72.7° on the 24th. The maximum was below 90° throughout and the minimum was 70°, or above, six times. The greatest daily range was 19.3° on the 6th, and the least was 12.3° on the 24th.

The mean daily miles of wind registered was 248. The 25-year normal being 188 giving 32% above the average for the month. The greatest number of miles of wind recorded in 24 hours was 413 on the 7th, and the least was 119 on the 13th. South-easterly wind appeared early on four days and continued after 7 p.m. on twenty days. Throughout the night once.

The mean relative humidity was 75% which is 3% below the 33-year normal of 78%. The mean 7 a.m. was 78%, and the mean 3 p.m. 64%. Lowest 7 a.m. 69% on the 22nd, and the lowest 3 p.m., 55% on the 11th and 18th.

Overcast conditions prevailed in the forenoon on ten occasions and in the afternoon on sixteen.

Total evaporation for the month of April was 6.20 inches, the 10-year normal shewing 7.75 inches.

Mean daily number of sunshine hours 5.2.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
May 20th, 1939.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

MAY, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud stratus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)					Extreme Temperature (F.)				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	8	29.969	29.938	80.0	83.2	85.9	76.2	9.7	90.0	25	69.0	14	21.0
Kingston	24	29.943	29.900	76.3	82.9	86.4	71.4	15.0	88.9	29	68.0	9	20.9
Negril Point Light House	33	29.949	29.920	77.1	81.8	85.0	70.8	14.2	86.6	18*	68.6	16	18.0
Montego Bay †	33	..	..	73.0	84.5	89.2	68.9	20.3	91.5	30	66.5	8	25.0
Castleton Gardens	496	..	..	67.4	80.0	84.4	66.5	17.9	89.0	30*	63.0	9	26.0
Hope Gardens †	668	29.978	29.906	74.4	83.6	87.9	68.7	19.2	91.0	2*	66.0	9	25.0
Hill Gardens, Blue Mountains	4,900	29.261	25.254	63.7	67.0	70.4	57.8	12.6	72.0	3*	57.0	1*	15.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.		7 a.m.		3 p.m.	
Morant Point Light House	8	73	79	74	73	5.64	274	ENE	13.0	E	13.0	2.2	2.2	1.4	2.3	2.4	2.0
Kingston	24	68	76	72	70	1.38	218	NNE	4.1	SE	16.3	0.4	0.2	3.6	5.4	1.4	0.6
Negril Point Light House	33	72	81	72	72	5.93	121	ENE	3.0	var.	8.0	0.0	0.7	5.3	4.5	2.8	1.2
Montego Bay	33	70	89	75	73	5.08	..	ESE	1.0	NE	6.0	..	..	..	..	..	..
Castleton Gardens	496	65	95	76	86	16.18	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	65	75	64	71	2.30	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	61	88	61	83	3.02	..	..	..	..	..	..	..	..	..	..	..

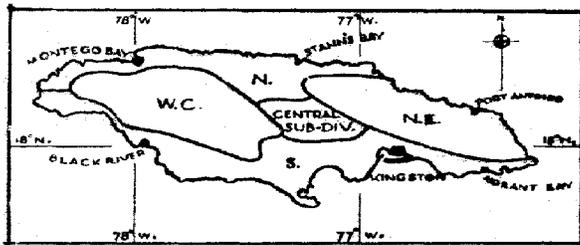
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
† Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



May, 1939.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
May, 1939.					
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioneal	8.16	3.49	13	9	12.66
Priestman's River	5.18	1.50	25	11	10.55
Bath	7.58	1.82	26	15	12.33
Barrett's Gap	5.86	2.50	26	15	
Millbank	12.35	3.97	27	13	
Comfort Castle	12.07	3.54	27	9	
Moore Town	12.05	2.75	27	14	16.68
Port Antonio	3.31	0.95	29	6	13.73
Passley Garden	3.86	1.12	27	14	
Fellowship	7.83	2.50	25	11	16.19
Johnson River Br.					9.56
Trinity Ville	3.66	1.08	25	13	
Fruitful Vale	6.24	1.94	25	6	
Hope Bay	3.26	1.20	26	6	
Cedar Valley	2.74	1.15	26	5	9.10
Paradise	2.01	0.75	27	6	
Lennox	2.92	1.51	26	7	
Greenvale	6.95	1.68	19	13	9.27
Darley	5.27	1.78	26	25	
Spring Garden	2.55	1.09	26	6	6.05
Hill Gardens	3.02	0.64	14	11	9.77
Buff Bay	3.10	1.30	26	7	7.97
Buff Bay R. Est.	4.77	1.12	6	9	
Belvedere, Portland	2.52	0.96	26	7	6.08
Windsor Castle, do.	3.27	1.45	26	5	5.86
Balcarres	2.38	1.85	16	4	
Mt. Holstein	6.25	2.30	12	7	10.07
Cedar Hurst	6.40	1.50	16	14	
Hardware Gap	11.74	2.87	21	19	11.24

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
May, 1939.					
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	11.39	4.10	21	15	12.52
Mount Cressy	13.28	1.85	16		
Hermitage	7.63	2.00	21	18	
Mount Airy	11.36	2.37	17	20	
Stony Hill Ind. Sch.	6.70	2.44	21	18	9.29
Boon Hall	8.80	2.16	21	21	
Brandon Hill	8.25	1.09	23	16	
Enfield	3.17	0.47	19	9	
Agualta Vale	0.75	0.40	12	3	5.76
Castleton Gardens	16.18	2.75	21	18	11.65
Water Valley	1.62	0.72	26	8	7.06
Albany	1.52	0.35	25	6	6.92
Lawrence Tavern	5.51	1.50	19	15	9.18
Wey Hill	10.67	2.00	23	16	
Richmond, St. Mary	3.90	0.86	26	9	7.54
Quebec, St. Mary	2.20	0.90	27	5	6.45
Above Rocks	7.44	1.55	21	16	
Glengoffe	6.95	1.55	23	10	
Carew Castle	6.51	1.30	19	13	9.78
Hampstead, St. Mary	2.79	1.10	14	9	7.33
Windsor Castle do.	6.95	1.35	12	13	
Troja	7.62	1.50	11	8	
Pear Tree Grove	5.30	1.45	12	12	
Guy's Hill	5.13	1.20	30	12	7.46
Lucky Hill	3.77	1.25	14	8	8.48
Rio Hoe	5.70	2.44	24	9	8.12
Unity Valley	2.82	1.14	23	16	9.79
Moneague	3.19	1.19	23	14	8.76
Claremont	5.85	1.50	12	12	7.08
Averham Park	7.21	1.71	12	20	7.26
Albion	4.32	1.06	16	13	8.30
<b>NORTHERN DIVISION (N).</b>					
Port Maria	3.07	1.15	26	8	6.31
Wentworth					
Oracabessa	4.81	1.64	26	7	
Huddersfield	4.82	1.20	19	9	
Ocho Rios	1.12	1.00	15	2	5.22
Rockfield	4.87	1.46	14	13	5.94
Liberty Hill	1.39	0.45	14	10	4.72
St. Ann's Bay	2.86	0.93	14	10	5.30
Richmond Estate					6.14
Runaway Bay	0.59	0.43	25	2	2.23
Knapsdale	3.68	0.89	26	12	
Alexandria	3.37	1.00	22	9	7.29
Bel-Air	0.90	0.30	16	6	
Brown's Town	7.10	1.80	16	14	8.61
Wilton	2.77	0.98	22	13	
Watt Town, St. Ann	5.10	1.02	6	12	8.24
Home Castle	6.90	2.75	22	10	5.60
Arcadia					4.89
Vale Royal	4.08	1.70	26	10	5.82
Harmony Hall	0.90	0.40	14	6	4.49
Duncans	0.92	0.55	26	5	
Clark's Town	5.77	2.91	26	11	
Falmouth	1.03	0.55	12	6	4.48

STATIONS.	May, 1939.					STATIONS.	May, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	4.95	2.00	23	6	..	Mereworth ..	4.16	2.00	27	8	..
Barrett Hall ..	..	..	..	..	..	Mandeville ..	4.45	1.33	17	9	9.93
Success ..	..	..	..	..	4.25	Ulster Spring ..	11.77	3.15	4	15	11.90
Rose Hall ..	..	..	..	..	4.24	Greenvale ..	4.12	0.96	21	12	..
Cinnamon Hill ..	..	..	..	..	4.78	Albert Town ..	13.60	2.20	12	15	10.58
Tryall ..	..	..	..	..	6.05	Craig Head ..	11.38	1.53	19	12	..
Running Gut ..	..	..	..	..	4.74	Warsop ..	15.05	2.90	16	17	..
Spring Estate ..	..	..	..	..	4.28	Troy ..	14.57	2.25	14	14	14.60
Friendship ..	6.03	1.20	24	13	7.85	Wallingford ..	11.54	2.08	17	18	11.80
Retirement ..	5.65	1.07	24	14	8.50	Balaclava ..	11.05	2.25	21	11	12.13
Rose Mount ..	3.85	1.34	23	13	..	Braes River ..	..	..	..	..	..
Montego Bay ..	5.08	2.20	23	12	7.12	Wakefield ..	7.08	1.45	23	14	..
Anchovy ..	5.31	0.92	29	15	8.00	Aberdeen ..	..	..	..	..	..
Hopewell ..	8.53	1.24	24	17	..	Accompong ..	..	..	..	..	..
Blue Hole ..	6.05	1.09	11	13	12.10	Maggotty ..	16.84	3.09	12	20	13.21
Cascade ..	17.24	3.46	4	20	..	Lacovia ..	10.24	1.85	18	13	..
Lucea ..	6.97	1.44	11	17	8.53	Mulgrave ..	13.72	4.52	4	21	..
Houghton Court ..	9.07	1.80	22	15	8.89	Holland ..	12.60	3.60	18	18	..
Kendal—Hanover ..	16.11	2.33	4	25	..	Ipswich ..	..	..	..	..	..
Cousins Cove ..	9.38	1.83	24	22	..	Ginger Hill ..	11.90	1.54	16	22	..
Green River ..	15.36	2.53	23	21	..	Kempshot ..	8.84	1.91	16	21	10.19
Green Island ..	8.05	2.60	24	18	9.84	Mocho, St. James ..	16.90	5.10	16	14	..
Houghton Hall ..	6.93	2.28	24	21	..	Catadupa ..	14.49	1.90	23	20	15.76
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	11.24	1.93	16	22	13.30
Knollis ..	2.58	0.61	23	8	..	New Market ..	25.07	4.45	22	18	12.50
Highgate (St. Cath.) ..	7.45	2.14	23	19	..	Springfield ..	16.78	3.38	23	15	..
Rio Magno ..	6.30	1.84	24	10	..	Kew Park ..	20.40	3.05	16	21	12.97
Riversdale ..	6.50	1.20	24	9	..	The Bog ..	23.37	4.73	23	22	14.15
Headworks, R.C.C. ..	2.74	1.21	21	5	7.31	Bethel Town Dist. ..	19.37	3.30	13	24	16.95
Bog Walk ..	3.12	0.90	13	9	..	Burnt Ground ..	13.45	2.44	16	25	13.74
Linstead ..	2.42	1.10	25	6	..	Darliston ..	19.57	2.07	24	20	16.30
Ewarton ..	1.95	0.56	19	8	..	Bluefields ..	12.51	2.39	23	19	11.86
Cave Valley ..	7.09	2.60	17	9	9.10	Whithorn ..	19.57	2.30	24	25	13.29
Guanaboa Vale ..	1.13	0.50	29	3	..	Water Works Pen ..	16.55	2.10	4	22	11.86
Point Hill ..	3.97	1.07	23	12	11.11	Williamsfield, Wld. ..	19.92	4.10	5	25	..
Brown's Hall ..	3.58	1.25	17	6	8.38	Baulk ..	15.65	3.15	5	20	..
Bellas Gate ..	2.51	0.90	27	7	5.57	Askenish ..	17.36	2.40	5	22	12.65
Rock River ..	1.21	0.70	27	3	..	Grange Hill ..	13.26	2.40	5	21	13.44
Crofts Hill ..	8.45	2.82	21	12	7.16	Mount Eagle ..	13.34	2.06	12	19	..
Far Enough ..	7.04	2.34	21	10	..	King's Vale ..	9.03	2.05	24	19	11.38
Suttons ..	2.91	1.31	5	7	..						
Colonel's Ridge ..	6.39	1.61	21	14	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	2.88	0.85	5	11	8.55	Morant Point L. H. ..	5.64	2.22	13	15	8.68
Crooked River ..	3.52	0.96	19	10	..	Golden Grove ..	..	..	..	..	..
James Hill ..	5.54	0.90	23	15	..	Pleasant Hill ..	6.00	1.54	26	17	7.69
Frankfield ..	4.64	1.93	21	10	7.52	East Prospect ..	6.81	3.07	26	15	8.88
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	4.73	1.50	25	13	7.31
Mocho, Clarendon ..	2.29	1.40	18	6	9.71	Aeolus Valley ..	2.56	1.47	23	13	..
Smithville ..	5.45	1.20	21	10	..	Yallahs ..	1.19	0.40	26	4	..
Clarendon Park ..	..	..	..	..	..	Easington ..	1.61	0.59	25	8	6.26
Porus ..	..	..	..	..	..	Llandewey ..	..	..	..	..	..
Borobridge ..	5.70	2.20	17	10	..	Mavis Bank ..	2.37	0.76	17	5	..
Spaldings ..	5.14	1.70	17	14	7.74	Bull Bay ..	0.11	0.11	26	1	3.87
Williamsfield ..	3.94	3.46	17	3	..	Dallas Castle ..	4.60	3.33	21	7	..
Brokenhurst ..	3.70	1.88	27	9	9.59	Gordon Town ..	3.14	1.89	21	3	7.13
Shooter's Hill ..	5.75	1.48	17	10	7.34	Irish Town ..	3.08	2.80	21	10	6.56
Wait-a-bit ..	12.22	2.75	17	14	..	Hope Gardens ..	2.30	1.22	21	12	6.23
Christiana ..	5.27	2.62	21	11	10.69	Waireka ..	..	..	..	..	..
Holmwood ..	..	..	..	..	..	Iver ..	2.70	0.75	21	16	..
Clifton Hill ..	6.27	2.50	17	6	6.97	Phumb Point L. H. ..	1.09	0.85	13	4	4.57
Kendal, Manchester ..	4.58	1.45	17	11	9.83						

STATIONS.	May, 1939.					STATIONS.	May, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	1.45	1.20	21	3	5.84	Newport, Man.	2.23	1.00	27	12	8.02
Up-Park Camp	2.13	0.91	21	11		Alligator Pond	1.21	0.87	27	2	5.15
Cavaliers	2.12	1.05	21	9		Fairfield	7.05	1.87	17	16	7.55
St. Georges College	2.73	1.74	21	7		Pepper					
Upper Kingston	2.78	1.86	21	8	2.44	Myersville					
Parade Garden	1.78	0.92	21	6		Goshen					
Kingston P.W.O.	1.38	0.55	13	7	4.01	Southfield, St. Eliz.	2.23	1.04	27	8	5.88
Constant Spring	5.31	1.70	21	16		Munro	4.44	1.40	27	11	
Halfway Tree	1.70	1.41	21	5	4.63	Windsor, St. Eliz.	4.57	1.31	17	13	
Clifton Pen	3.53	1.69	13	5	3.94	Torrington	3.00	0.98	18	6	6.26
Seaward Pen	1.68	1.12	21	2		Santa Cruz	13.36	2.90	21	14	11.02
Red Hills	4.83	1.50	23	14		Hounslow	2.59	0.58	27	6	
Quarantine Station	1.24	1.10	14	3	3.33	Pedro Plains	2.60	1.00	21	6	3.48
Hematine	0.46	0.41	13	2	6.19	Mountainside	1.90	1.50	17	2	3.73
Spanish Town	0.18	0.10	23	4	5.82	Fort Charles	1.12	0.72	28	2	
Hog Hole, St. Cath.	0.89	0.36	21	6	6.65	Black River	6.71	1.32	5	8	6.57
Old Harbour	0.28	0.11	13	3	5.85	Mt. Charles	7.76	2.60	17	18	
May Pen	0.71	0.29	26	7	6.44	Font Hill	7.65	1.55	23	12	7.40
Glen Muir	0.60	0.30	13	2		Mount Edgecombe	7.75	1.61	20	17	8.37
Cottage	0.61	0.33	18	4		Sav-la-Mar	9.59	1.86	23	15	8.60
Belle Plain	1.60	1.05	18	3		Little London	12.92	3.45	5	15	9.89
Milk River	0.85	0.22	31	5	5.60	Retreat	12.53	2.22	20	17	9.03
Retrieve	0.62	0.42	23	2	4.77	Negril Point L. H.	5.93	1.79	22	18	6.25
Stone's Hope	1.85	0.38	23	10	8.51						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	May.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	5.39	9.76	12	13
Northern	4.50	6.90	11	10
West-central	12.44	12.06	16	15
Southern	3.95	6.35	9	10
The Island means	6.57	8.77	12	12

SHOCKS OF EARTHQUAKE IN MAY, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—MAY.

The mean rainfall for the Island was below the average in all Divisions, except the West-Central which had slightly above its normal.

The rainfall, though deficient, was well distributed, as the mean number of rain days was 12, which is the average for the month. The greatest number was 25 at each of the following stations—Kendal and Burnt Ground in Hanover, Whithorn and Williamsfield in Westmoreland.

The greatest total rainfall for the month was 25.07 inches at Newmarket in the West-Central Division, and the heaviest fall in 24 hours was 4.73 inches at The Bog in the same division on the 22nd.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 14.82 inches, was highest; Hanover, with 11.04 inches next; and St. Elizabeth with 8.94 inches, third. Kingston with 1.95 inch was lowest.

Parish.	1938.	10-year Average.	Parish.	1938.	10-year Average.
	inches.	inches.		inches.	inches.
Kingston ..	1.95	1.80	St. James ..	8.23	8.79
St. Andrew ..	5.43	5.73	Hanover ..	11.04	11.00
St. Thomas ..	4.40	5.30	Westmoreland ..	14.82	10.77
Portland ..	5.58	9.96	St. Elizabeth ..	8.94	6.86
St. Mary ..	4.73	7.74	Manchester ..	4.44	5.91
St. Ann ..	4.02	6.90	Clarendon ..	3.64	5.67
Trelawny ..	7.91	7.45	St. Catherine ..	3.58	6.31

## CITY OF KINGSTON.

The total rainfall for the month of May, 1939, was 1.38 of an inch; the 60-year normal being 4.02 inches, shewing about one-third of the normal. Greatest fall in 24 hours 0.68 inch on the 21st. There were seven days with appreciable rain. The upper boundary of Kingston gauged 2.78 inches, the 20-year average being 2.93 inches. There were 8 days with rain. The May "Season" was deficient.

Distant rain was observed to the northward on ten days, to northeastward on eight, to eastward on four, to south, southeast and westward on one each.

Distant thunderstorm to northward on 13th and 23rd. Distant lightning to northward on the evening of the 13th.

The mean barometric pressure was 29.927 inches, shewing 0.017 of an inch above the normal of 29.910 ins. The highest barometer reading was 29.970 inches on the 27th at 3 p.m. and the lowest was 29.875 inches on the 23rd at 7 a.m. corrected for diurnal variation.

The mean monthly temperature, based upon four observations per day, was 78.8° or 0.9° below the normal of 79.7°. Highest maximum was 88.9° on the 29th, and lowest minimum 68.0° on the 9th, giving an extreme monthly range of 20.9°. On the other hand the lowest maximum was 84.5° on the 7th and the highest minimum was 75.7° on the 30th owing to prevailing SE wind during the night. The maximum was below 90° throughout, and the minimum was below 70° five times. The greatest daily range was 17.8° on the 9th, and the least range was 12.0 on the 30th.

The mean daily miles of wind, registered, was 218, as against the 25-year average of 209, shewing about 4% above the average. The greatest number of miles in 24 hours was 411 on the 30th, and the lowest was 114 on the 5th. Highest hourly velocity 30 m.p.h., of short duration, on the 30th. Southeasterly wind appeared early on one occasion, and continued until after 7 p.m. 23 days.

The mean relative humidity was 77%, the 33-year normal being 79%. The mean 7 a.m. was 76% and the mean 3 p.m. 70%. Lowest 7 a.m. 63% on the 29th, and the lowest 3 p.m. 59% on the 16th and 29th.

Overcast conditions prevailed in the early forenoon thirteen days and in the afternoon twenty-two. Total evaporation for May 1939, 6.62 inches as compared to the 10-year normal of 7.91 inches.

Mean daily number of sunshine hours 7.4.

Solar halos were visible as follows:—

Brilliant and complete	on 3rd	11 to 1 p.m.
Partial	on 6th	9.05 a.m.
Partial	on 19th	8 to 11 a.m.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
June 20th, 1939.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF  
JUNE, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.*	Bar. Pressure.		Temperature. (F.)					Extreme Temperature (F.)				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		ft.	ins.	ins.	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	29.990	29.971	81.3	82.9	86.4	77.9	8.5	89.6	5	71.0	10	18.6
Kingston	24	29.960	29.924	78.0	84.6	88.1	73.6	14.5	93.1	28	70.5	24	22.6
Negril Point Light House	33	29.968	29.939	77.9	82.6	86.6	71.9	14.7	88.6	28	68.6	26	20.0
Montego Bay †	33	..	..	75.3	87.3	90.0	70.7	19.3	95.0	13	68.0	3*	27.0
Castleton Gardens	496	..	..	69.9	82.8	87.0	69.0	18.0	91.0	12*	66.0	10*	25.0
Hope Gardens †	668	..	..	76.0	83.2	89.0	70.0	19.0	92.0	4*	66.0	10	26.0
Hill Gardens, Blue Mountains	4,900	..	..	64.7	67.9	72.0	67.0	5.0	75.0	15	58.0	17*	17.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.		7 a.m.		3 p.m.	
		ft.	°	%	°					%	ins.	Mts.	Dir.	m.p.h.	Dir.	m.p.h.	L
Morant Point Light House	8	75	80	75	77	5.16	336	ENE	14.0	ENE	15.0	2.1	2.8	1.5	1.9	1.8	2.6
Kingston	24	70	76	73	68	1.61	234	NE	5.5	SE	18.4	0.9	0.7	2.0	4.6	1.5	2.2
Negril Point Light House	33	71	80	74	73	7.32	125	NE	4.0	var.	8.0	1.6	0.0	3.7	3.2	5.3	0.5
Montego Bay	33	72	88	76	70	4.61	..	NE	3.0	NE	9.0	..	..	..	..	..	..
Castleton Gardens	496	69	95	77	83	8.97	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	69	78	70	66	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	63	91	63	84	6.34	..	..	..	..	..	..	..	..	..	..	..

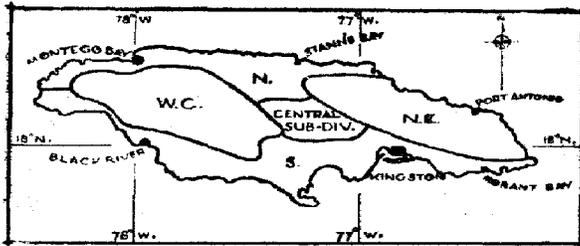
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last column contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last column that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



June, 1939.

STATIONS.	June, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
	Amount.	Date.			
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	5.22	1.32	17	10	6.18
Mount Cressy	5.08	0.97	23		
Hermitage	8.85	2.02	16	18	
Mount Airy	5.47	1.10	21	16	
Stony Hill Ind. Sch.	9.18	1.67	16	17	6.53
Boon Hall	7.76	1.35	5	16	
Brandon Hill	6.55	1.13	7	15	
Enfield	8.29	3.50	20	9	
Agualta Vale	3.11	1.75	20	5	2.93
Castleton Gardens	8.97	2.40	5	15	8.82
Water Valley	2.27	0.77	20	9	3.74
Albany	2.87	1.05	20	9	3.01
Lawrence Tavern	7.61	2.00	5	13	6.27
Wey Hill	4.36	0.98	23	13	
Richmond, St. Mary	2.79	1.30	20	5	4.69
Quebec, St. Mary	2.09	0.99	19	8	4.48
Above Rocks	11.30	2.60	18	18	
Glengoffe	13.26	2.30	18	13	
Carew Castle	9.95	2.35	18	14	8.51
Hampstead, St. Mary	1.10	0.24	17	6	3.57
Windsor Castle do.	2.61	0.86	14	9	
Troja	1.35	1.00	26	13	
Pear Tree Grove	3.43	1.30	14	11	
Guy's Hill	2.38	0.88	14	8	5.74
Lucky Hill	3.43	1.58	15	7	3.66
Rio Hoe	1.34	0.32	23	8	7.47
Unity Valley	3.00	1.52	21	10	7.72
Moneague	2.39	1.80	21	8	7.39
Claremont	2.31	0.80	21	7	5.04
Averham Park	1.76	0.45	23	14	4.94
Albion	1.32	0.61	25	7	6.16
<b>NORTHERN DIVISION (N).</b>					
Port Maria	2.11	0.95	19	9	4.86
Wentworth	2.43	0.80	19	9	
Oracabessa	3.88	2.23	15	3	
Huddersfield	2.42	1.00	15	4	3.16
Ocho Rios	1.19	0.38	11	7	3.10
Rockfield	0.22	0.10	11	3	3.58
Liberty Hill	0.98	0.24	17	6	3.67
St. Ann's Bay	0.45	0.15	20	4	4.10
Richmond Estate	0.30	0.30	17	1	1.29
Runaway Bay	1.47	0.47	20	9	
Knapdale	1.92	0.50	16	8	3.18
Alexandria	1.00	0.50	20	3	
Bel-Air	3.28	1.25	25	7	3.55
Brown's Town	1.52	1.15	20	4	
Wilton	4.25	1.21	7	10	3.86
Watt Town, St. Ann	1.85	1.15	20	2	3.60
Home Castle	1.17	0.65	20	4	3.70
Arcadia	1.10	0.75	23	3	2.56
Vale Royal	0.24	0.12	22	2	
Harmony Hall	1.24	0.56	26	7	
Duncans	0.23	0.09	17	3	2.40
Clark's Town					
Falmouth					

STATIONS.	June, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Amount.	Date.			
<b>NORTH-EASTERN DIVISION (N.E.)</b>					
Manchioneal	8.55	2.64	9	11	6.76
Priestman's River	9.97	3.00	9	14	4.99
Bath	12.99	4.07	9	19	10.91
Barrett's Gap	15.45	3.13	10	19	
Millbank	20.42	4.28	20	20	
Comfort Castle	18.46	4.32	20	16	
Moore Town	23.89	3.00	9	24	18.56
Port Antonio	9.14	1.25	9	17	14.32
Passley Garden	7.62	0.95	9	21	
Fellowship	14.03	1.43	29	15	17.26
Johnson River Br.	11.11	2.90	9	12	11.52
Trinity Ville	8.58	1.72	9	17	
Fruitful Vale	8.11	2.00	20	14	
Hope Bay	8.68	1.30	3	13	
Cedar Valley	8.46	1.37	9	12	11.22
Paradise	3.30	0.73	23	15	
Lennox	5.91	2.01	21	11	
Greenvale	5.19	1.60	20	10	3.66
Darley	10.18	1.49	21	20	
Spring Garden	4.60	1.41	20	13	3.92
Hill Gardens	6.34	1.50	5	10	6.73
Buff Bay	4.10	0.65	9	11	6.60
Buff Bay R. Est	5.69	2.23	20	14	
Belvedere, Portland	6.02	2.45	20	12	1.98
Windsor Castle, do.	3.36	0.70	9	11	5.00
Balcarras	3.03	0.97	22	5	
Mt. Holstein	7.60	1.53	6	14	5.54
Cedar Hurst	5.75	1.60	25	19	
Hardware Gap	10.83	1.42	23	19	6.58

STATIONS.	June, 1939.					STATIONS.	June, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Ins.	Amount.					Date.	Ins.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi	4.85	1.33	20	9		Mereworth					
Barrett Hall						Mandeville	5.24	1.14	17	16	2.82
Success					2.19	Ulster Spring	5.43	1.04	9	10	6.31
Rose Hall					2.70	Greenvale	7.61	1.53	18	12	
Cinnamon Hill					2.78	Albert Town	5.46	1.00	8	8	5.35
Tryall					5.08	Craig Head	12.20	2.50	7	10	
Running Gut					2.86	Warsop	5.89	2.20	18	11	
Spring Estate					2.63	Troy	6.77	2.26	9	6	8.13
Friendship	8.29	1.56	19	11	6.04	Wallingford					5.05
Retirement	5.31	1.40	27	9	6.82	Balaclava	11.58	3.57	23	12	4.52
Rose Mount	4.56	1.40	20	9		Braes River					
Montego Bay	4.61	1.41	25	9	6.17	Wakefield	1.48	0.75	19	5	
Anchovy	4.16	1.70	15	16	6.78	Aberdeen	7.96	1.44	25	14	
Hopewell	6.87	1.80	9	14		Accompong	11.27	1.80	3	18	
Blue Hole	2.08	0.53	16	7	11.30	Maggotty	12.34	2.12	9	15	6.53
Cascade	9.94	1.40	16	16		Lacovia					
Lucea	2.25	0.58	16	12	7.90	Mulgrave	16.24	2.50	3	22	
Houghton Court					8.17	Holland	9.70	2.34	9	13	
Kendal—Hanover	8.84	1.65	20	18		Ipswich					
Cousins Cove	5.00	1.36	20	19		Ginger Hill	12.68	1.57	23	21	
Green River	10.31	1.29	9	18		Kempshot	5.56	0.95	25	18	8.57
Green Island	6.75	1.43	20	16	11.93	Mochó, St. James	12.90	2.00	15	15	
Houghton Hall	5.20	0.93	16	19		Catadupa	12.72	2.50	24	20	9.83
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	13.65	1.43	18	23	9.97
Knollis	7.14	1.63	18	14		New Market	15.64	2.00	30	16	7.99
Highgate (St. Cath.)	9.66	2.57	18	19		Springfield	14.75	2.12	9	16	
Rio Magno	2.36	1.20	27	3		Kew Park	13.52	2.37	17	23	9.21
Riversdale	7.35	1.25	8	12		The Bog					8.37
Headworks, R.C.C.	5.26	2.56	18	11	4.56	Bethel Town Dist.	14.49	2.35	17	25	11.15
Bog Walk	5.48	1.68	23	9		Burnt Ground	12.51	1.70	16	18	10.07
Linstead	4.24	0.79	10	15	7.24	Darliston	16.41	2.76	23	21	10.53
Ewarton	3.39	0.92	1	9		Bluefields	16.64	2.31	1	21	9.42
Cave Valley	7.90	1.70	7	13	7.11	Whithorn	17.32	2.50	17	20	10.16
Guanaboa Vale	6.47	1.95	18	9		Water Works Pen	13.85	2.50	17	20	8.87
Point Hill	6.81	1.48	9	14	8.23	Williamsfield, Wld.	16.50	1.70	25	23	
Brown's Hall	5.18	1.40	23	11	9.18	Baulk	10.06	1.85	20	15	
Bellas Gate	4.35	0.72	18	18	1.82	Askenish	13.93	3.00	16	15	15.10
Rock River	5.18	1.40	17	10		Grange Hill	10.06	1.85	20	15	11.09
Crofts Hill	3.24	0.68	23	15	3.52	Mount Eagle	8.55	1.70	23	15	
Far Enough	11.13	1.20	17	11		King's Vale	5.32	1.20	16	13	11.84
Suttons	3.15	1.71	17	9							
Colonel's Ridge	11.25	2.25	5	14		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	3.85	1.10	17	11	5.98	Morant Point L. H.	5.16	1.88	9	13	5.59
Crooked River	4.80	1.00	18	13		Golden Grove	8.63	3.08	9	18	
James Hill	5.99	1.14	23	12		Pleasant Hill	9.83	2.71	9	24	3.79
Frankfield	8.03	1.48	1	14	4.37	East Prospect	10.36	2.96	17	20	6.38
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	7.89	2.20	17	20	7.59
Mochó, Clarendon	5.81	2.10	10	10	6.25	Aeolus Valley	8.19	2.37	9	20	
Smithville	7.15	1.55	17	16		Yallahs	6.50	2.07	9	13	
Clarendon Park						Easington	5.17	2.16	9	15	7.36
Porus	6.04	1.12	6	10		Llandewey					
Borobridge	6.88	1.45	18	15		Mavis Bank	4.23	0.74	25	6	
Spaldings	8.97	1.75	23	14	4.10	Bull Bay	0.96	0.48	16	2	3.90
Williamsfield	3.93	2.57	23	16		Dallas Castle	3.86	1.12	25	15	
Brokenhurst	9.85	2.79	25	16	9.92	Gordon Town	5.53	1.40	23	10	4.40
Shooter's Hill	6.40	2.09	23	13	4.86	Irish Town	6.71	1.40	23	14	3.93
Wait-a-bit	14.86	4.50	18	11		Hope Gardens					4.66
Christiana	10.22	2.94	23	15	5.96	Waireka					
Holmwood						Iver					
Clifton Hill	6.36	1.12	6	11	4.06	Plumb Point L. H.	2.93	1.15	18	7	3.85
Kendal, Manchester	5.82	2.04	23	10	7.05						

STATIONS.	June, 1939.					STATIONS.	June, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.					3.82	Newport, Man.	6.64	1.45	25	11	6.99
Up-Park Camp	2.34	0.66	18	12		Alligator Pond	0.44	0.20	15	3	3.65
Cavaliers	2.37	0.76	11	13		Fairfield	6.91	1.97	18	22	5.32
St. Georges College						Pepper					
Upper Kingston	2.06	0.75	10	11	0.99	Myersville					
Parade Garden						Goshen					
Kingston P.W.O.	1.61	0.54	10	9	3.53	Southfield, St. Eliz.	2.70	1.03	9	8	2.72
Constant Spring	5.55	1.16	16	12		Munro	3.62	0.50	9	14	
Halfway Tree	2.02	0.65	18	7	3.24	Windsor, St. Eliz.	7.73	1.29	5	15	
Clifton Pen	2.16	1.03	10	5	3.43	Torrington	6.36	2.03	4	8	3.05
Seaward Pen						Santa Cruz	9.50	1.80	18	14	5.15
Red Hills	3.54	0.81	18	12		Hounslow	3.82	1.40	23	7	
Quarantine Station	1.76	0.85	19	8	2.19	Pedro Plains	1.12	0.38	17	7	2.10
Hematine	2.14	1.60	18	4	2.41	Mountainside	7.56	3.50	23	9	2.04
Spanish Town	1.81	1.17	18	5	4.08	Fort Charles	0.62	0.42	9	2	
Hog Hole, St. Cath.	1.93	1.25	18	7	4.43	Black River	6.19	1.85	25	11	3.58
Old Harbour	1.89	1.03	18	6	5.30	Mt. Charles	4.53	0.80	18	14	
May Pen	3.50	1.04	23	13	5.11	Font Hill	7.25	1.80	25	10	4.74
Glen Muir	3.50	1.50	23	7		Mount Edgecombe	9.74	1.96	17	17	6.11
Cottage	1.63	0.65	9	5		Sav.-la-Mar	6.84	1.88	25	17	6.61
Belle Plain	3.01	0.99	20	7		Little London	9.22	2.35	25	13	8.52
Milk River	2.17	1.34	9	9	4.88	Retreat	10.76	3.18	3	15	7.39
Retrieve	2.21	0.90	9	7	2.74	Negril Point L. H.	7.32	1.88	25	13	5.51
Stone's Hope	3.92	1.30	9	10	7.44						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	June.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	6.36	7.51	13	11
Northern	3.62	5.10	10	9
West-central	10.44	8.57	15	13
Southern	4.98	4.93	11	8
The Island means	6.35	6.53	12	10

SHOCKS OF EARTHQUAKE IN JUNE, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—JUNE.

The Mean rainfall for the Island was slightly below the average. The West-Central and Southern Divisions had more than their normal rainfall, but the North-Eastern and Northern Divisions were deficient.

The greatest total fall was 23.89 inches at Moore Town in the North-Eastern Division, and the heaviest fall in 24 hours was 4.50 inches at Wait-a-bit in the West-Central Division on the 18th.

The Mean number of rain days was 12, which is 2 more than the average. Bethel Town in the West Central Division had most—25.

There was a hail storm at Colonels Ridge, Clarendon, on the 5th.

The Mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 12.09 inches was highest; St. Thomas, with 9.10 inches was second; and Portland, with 8.80 inches was third. St. Ann with 1.99 inch, was lowest.

Parish.	1939.	10-year Average.	Parish.	1939.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	2.20	2.42	St. James	7.66	6.85
St. Andrew	5.61	4.21	Hanover	7.42	10.83
St. Thomas	9.10	8.64	Westmoreland	12.09	8.58
Portland	8.80	8.19	St. Elizabeth	8.25	4.46
St. Mary	3.52	4.85	Manchester	6.25	6.62
St. Ann	1.99	4.67	Clarendon	5.51	5.31
Trelawny	3.99	5.41	St. Catherine	4.89	5.71

The total rainfall for the first half of the year is given below, compared with the 60-year average and shows a deficit of 3.63 inches.

	1936.	60-year Average.
	Inches.	Inches.
January	2.90	4.00
February	1.18	3.13
March	4.98	3.35
April	4.94	4.77
May	6.57	8.77
June	6.35	6.53
Total	26.92	30.55

## CITY OF KINGSTON.

The total rainfall for the month of June, 1939, was 1.61 inch, as compared to the 60-year normal of 3.51 inches, or less than one-half of the normal. There were nine days with appreciable rainfall as compared to the 49-year average of six. The greatest fall in 24 hours was 0.54 of an inch on the 10th. The upper boundary of Kingston gauged 2.06 inches with eleven days with rain.

The days upon which distant rain was observed are as follows:—To northward on ten, to northeast on six, to east on four, to south and to west on two each, and to northwest on four.

Distant thunderstorm observed to north on eight occasions, to northeast two, to east two, to south and southwest one each, and to northwest three. Local thunderstorm on the 5th and 28th. (Intense flash on the 5th 1.16 p.m.)

Southeast rainsquall on the 12th and 28th.

The mean barometric pressure was 29.949 inches, the 33-year normal being 29.932 inches, or 0.017 inch above the normal. This is the sixth month, in succession, reading above the normal. The highest barometer reading was 30.050 inches on the 17th at 3 p.m. and the lowest was 29.884 inches on the 24th at 3 p.m., corrected for diurnal variation.

The mean monthly temperature was 80.6°, the 33-year normal being 80.9° or 0.3° below the normal, based upon four observations per day. The highest maximum was 93.1° on the 28th, and the lowest minimum was 70.5° on the 24th, giving an extreme monthly range of 22.6°; on the other hand, the lowest maximum was 85.2° on the 1st, and the highest minimum was 79.9° on the 13th. The greatest daily range was 19.0° on the 28th and the least was 7.9° on the 13th. The maximum was above 90° three days, and the minimum was above 70° throughout.

The mean daily miles of wind registered was 234 as compared to the 25-year average of 239, or about 2% below the average. The greatest number of miles recorded in 24 hours was 440 on the 13th, when the least range of temperature occurred, and the least number of miles was 113 on the 23rd. The greatest hourly velocity was 36 m.p.h. on the 3rd at 1.30 p.m. Southeasterly wind appeared early twice, and prevailed after 7 p.m. on 12 occasions, and throughout the night twice. S.E. rainsqualls on 12th, 21st and 28th.

The mean relative humidity was 75%; the 33-year normal being 78%. The mean 7 a.m. was 76%, and the mean 3 p.m. 68%. The lowest 7 a.m. was 66% on the 14th, and the lowest 3 p.m. was 52% on the 13th.

Overcast conditions prevailed in the early forenoon nine times and in the afternoon twenty-one times.

The mean daily number of sunshine hours was 7.4

Total evaporation for the month of June, 1939, was 6.52 inches, the 10-year normal being 6.93 inches.

J. F. BRENNAN,  
Govt. Meteorologist.

July 20th, 1939.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
JULY, 1939.

The barometric pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kaw 32°, gravity at Lat. 45° and mean sea-level. The bar. at Hill Gardens is reduced to the first two standards only. 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part (fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.  
The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)			Extreme Temperature (F.)						
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	ins.	ins.	°	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	30.005	29.988	82.4	85.4	87.9	79.8	8.1	90.5	20	75.6	9	14.9
Kingston	24	29.975	29.936	77.9	86.6	89.6	74.2	15.4	94.3	20	71.4	28	22.9
Negril Point Light House	33	29.983	29.962	77.8	83.1	87.4	72.1	15.3	90.4	20	69.7	10	20.7
Montego Bay †	33	..	..	74.1	87.2	91.6	71.5	20.1	95.0	16	68.5	31	26.4
Castleton Gardens	496	..	..	69.2	83.9	88.0	68.0	20.0	94.0*	2	65.0	22	29.0
Hope Gardens †	668	..	..	77.7	88.6	92.0	70.0	22.0	97.0	13	69.0	21*	28.0
Hill Gardens, Blue Mountains	4,900	..	..	64.2	67.6	71.0	60.0	11.0	74.0	11*	58.0	6*	16.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.	°	%	°	%	ins.	Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L	M	U	L	M	U
Morant Point Light House	8	75	78	76	73	1.39	325	ENE	16.0	ENE	14.0	3.0	3.3	1.4	1.4	3.0	1.9
Kingston	24	68	73	72	63	2.80	238	NNE	4.8	SE	18.3	0.1	1.1	2.6	3.0	1.4	1.6
Negril Point Light House	33	72	81	74	74	6.01	109	NE	3.0	var.	7.0	0.0	0.1	5.7	2.4	5.4	0.8
Montego Bay	33	72	78	93	75	4.60	..	NE	1.0	ENE	7.0	..	..	..	..	..	..
Castleton Gardens	496	67	95	75	73	9.23	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	66	66	69	51	2.39	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	61	88	66	95	1.44	..	..	..	..	..	..	..	..	..	..	..

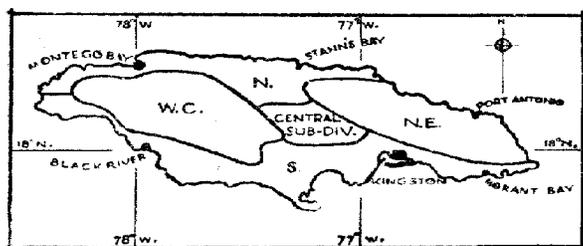
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

**THE RAINFALL.**

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



July, 1939.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	4.54	1.96	17	12	5.40
Mount Cressy	6.67	2.45	29	..	..
Hermitage	5.17	1.05	31	10	..
Mount Airy	5.31	1.28	6	11	..
Stony Hill Ind. Sch.	5.46	3.26	29	10	4.87
Boon Hall	5.81	3.26	29	10	..
Brandon Hill	3.47	2.00	27	4	..
Enfield	2.42	0.92	6	5	..
Agualta Vale	1.16	0.68	20	2	3.15
Castleton Gardens	9.43	3.25	17	9	5.86
Water Valley	1.62	0.70	7	4	3.13
Albany	1.75	0.55	26	4	3.63
Lawrence Tavern	4.15	1.50	17	6	5.09
Wey Hill	3.53	0.98	29	11	..
Richmond, St. Mary	1.05	0.40	30	4	3.26
Quebec, St. Mary	0.64	0.38	26	4	3.42
Above Rocks	12.06	3.77	17	12	..
Glengoffe	6.13	2.03	19	6	..
Carew Castle	9.60	2.85	17	10	6.24
Hampstead, St. Mary	0.85	0.25	26	3	2.87
Windsor Castle do.	4.50	1.25	7	9	..
Troja	3.10	1.10	19	5	..
Pear Tree Grove	3.77	0.87	8	8	..
Guy's Hill	3.11	1.08	7	8	3.83
Lucky Hill	3.11	1.44	17	6	2.85
Rio Hoe	7.86	2.13	21	11	4.09
Unity Valley	5.42	3.10	8	11	5.49
Moneague	4.31	1.69	8	10	4.51
Claremont	4.41	1.29	21	7	3.23
Averham Park	5.87	2.27	7	9	2.91
Albion	4.25	1.36	9	10	3.98
<b>NORTHERN DIVISION (N).</b>					
Port Maria	0.98	0.45	26	4	3.89
Wentworth	..	..	..	..	..
Oracabessa	0.68	0.22	26	5	..
Huddersfield	0.00	..	..	0	..
Ocho Rios	1.10	1.00	26	2	2.10
Rockfield	2.93	1.50	7	8	2.91
Liberty Hill	0.29	0.12	26	3	2.08
St. Ann's Bay	1.00	0.38	8	5	2.83
Richmond Estate	0.69	0.28	21	4	2.20
Runaway Bay	1.42	0.60	21	4	1.06
Knappdale	1.06	0.46	26	6	..
Alexandria	2.88	1.43	28	10	2.86
Bel-Air	1.45	0.60	21	5	..
Brown's Town	1.70	0.60	30	7	2.39
Wilton	0.92	0.47	21	5	..
Watt Town, St. Ann	0.77	0.23	2	5	3.00
Home Castle	2.00	0.80	28	5	2.18
Arcadia	1.58	0.60	17	6	2.16
Vale Royal	1.62	0.56	27	10	2.64
Harmony Hall	..	..	..	..	1.45
Duncans	0.40	0.15	21	6	..
Clark's Town	9.52	3.22	19	11	..
Falmouth	1.01	0.30	20	7	1.46

STATIONS.	Total Fall.		Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Ins.	Ins.	Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>						
Manchioneal	2.51	1.05	26	8	5.49	..
Priestman's River	3.25	2.20	26	2	5.64	..
Bath	7.27	1.40	7	19	7.93	..
Barrett's Gap	..	..	..	..	..	..
Millbank	11.85	2.74	7	19	..	..
Comfort Castle	..	..	..	..	..	..
Moore Town	14.55	2.50	7	15	16.27	..
Port Antonio	5.93	1.60	26	10	10.25	..
Passley Garden	4.31	1.07	24	16	..	..
Fellowship	8.81	2.19	21	13	13.80	..
Johnson River Br.	4.51	1.50	7	8	6.63	..
Trinity Ville	4.30	0.97	7	9	..	..
Fruitful Vale	4.00	2.48	27	6	..	..
Hope Bay	2.72	0.90	22	8	..	..
Cedar Valley	2.67	1.23	8	5	4.19	..
Paradise	1.85	0.85	21	..	..	..
Lennox	2.40	1.56	21	4	..	..
Greenvale	2.27	1.00	26	5	3.97	..
Darley	4.63	1.52	21	15	..	..
Spring Garden	..	..	..	..	3.95	..
Hill Gardens	1.44	0.46	24	6	3.36	..
Buff Bay	2.19	1.10	20	4	6.15	..
Buff Bay R. Est.	1.64	0.94	26	3	..	..
Belvedere, Portland	1.59	0.82	26	4	2.37	..
Windsor Castle, do.	2.11	1.02	20	3	3.89	..
Balcarres	3.38	1.15	29	5	..	..
Mt. Holstein	3.23	1.44	23	10	4.72	..
Cedar Hurst	4.48	2.04	17	10	..	..
Hardware Gap	6.79	1.90	30	10	3.90	..

STATIONS.	July, 1939.					STATIONS.	July, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	4.51	2.42	26	8		Mereworth ..	3.87	1.80	25	9	
Barrett Hall ..						Mandeville ..	3.45	1.34	6	7	5.32
Success ..					1.30	Ulster Spring ..	6.41	1.20	30	12	5.35
Rose Hall ..					1.13	Greenvale ..	1.54	0.90	26	3	
Cinnamon Hill ..					1.18	Albert Town ..	10.09	2.55	27	9	4.92
Tryall ..					3.54	Craig Head ..	3.06	1.40	30	3	
Running Gut ..					1.24	Warsop ..	22.30	3.90	17	19	
Spring Estate ..					1.44	Troy ..	11.41	3.30	30	11	6.94
Friendship ..	7.77	2.25	26	12	2.88	Wallingford ..	7.77	1.90	6	12	5.18
Retirement ..	6.70	1.54	26	12	4.01	Balaclava ..	10.22	2.20	6	11	4.69
Rose Mount ..	3.84	1.54	26	7		Braes River ..					
Montego Bay ..	4.60	1.65	21	5	3.21	Wakefield ..	9.05	1.88	30	12	
Anchovy ..	9.26	2.10	26	14	4.49	Aberdeen ..	9.20	1.42	6	14	
Hopewell ..	4.79	1.60	26	14		Accompong ..	16.11			16	
Blue Hole ..	2.66	0.63	26	9	5.85	Maggotty ..	12.49	3.00	20	18	8.35
Cascade ..	9.45	3.15	18	13		Lacovia ..	6.62	2.30	5	11	
Lucea ..	2.17	1.15	18	8	4.93	Mulgrave ..	8.30	1.25	20	19	
Haughton Court ..	6.15	2.32	18	7	4.63	Holland ..	8.31	0.94	30	16	
Kendal—Hanover ..	8.01	1.28	23	17		Ipswich ..					
Cousins Cove ..	6.27	1.98	18	20		Ginger Hill ..	8.73	1.97	6	19	
Green River ..	9.09	1.46	15	17		Kempshot ..	11.82	3.23	25	15	5.68
Green Island ..	9.80	2.47	18	15	8.59	Mocho, St. James ..	12.15	2.00	13	13	
Haughton Hall ..	6.09	1.35	17	19		Catadupa ..	9.89	1.32	4	17	9.36
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	8.37	1.81	18	15	9.59
Knollis ..	3.89	1.10	18	10		New Market ..	15.23	3.20	17	18	8.36
Highgate (St. Cath.) ..	9.40	2.79	17	17		Springfield ..	17.20	3.45	6	15	
Rio Magno ..	3.33	1.60	17	6		Kew Park ..	10.40	1.72	30	17	9.85
Riversdale ..	6.79	1.50	24	9		The Bog ..	15.07	4.14	17	20	9.11
Headworks, R.C.C. ..	5.43	2.19	27	8	2.99	Bethel Town Dist. ..	13.04	2.36	6	18	14.74
Bog Walk ..	2.60	1.15	17	7		Burnt Ground ..	15.97	2.77	28	17	8.81
Linstead ..	5.10	1.57	16	7	5.88	Darliston ..	14.18	2.05	30	21	11.42
Ewarton ..	4.89	2.12	24	7		Bluefields ..	12.11	1.40	6	15	9.32
Cave Valley ..	3.04	1.64	31	5	4.54	Whithorn ..	7.65	1.38	5	15	10.12
Guanaboa Vale ..	3.19	1.98	25	6		Water Works Pen ..	7.48	1.00	29	18	9.40
Point Hill ..	4.66	1.28	26	12	6.17	Williamsfield, Wld. ..	10.98	2.02	29	18	
Brown's Hall ..	5.05	2.16	26	8	5.20	Baulk ..	10.70	2.02	30	18	
Bellas Gate ..	5.20	1.75	25	8	1.30	Askenish ..	11.11	2.05	18	13	10.38
Roek River ..	2.98	1.05	28	7		Grange Hill ..	9.58	1.22	29	21	11.11
Crofts Hill ..	2.16	0.82	26	4	2.68	Mount Eagle ..	11.99	2.32	20	21	
Far Enough ..						King's Vale ..	8.72	2.40	18	17	9.82
Suttons ..	2.93	1.84	6	5							
Colonel's Ridge ..	1.61	0.35	6	8		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	2.40	1.40	6	10	3.12	Morant Point L. H. ..	1.39	0.41	20	9	3.17
Crooked River ..	4.75	1.40	17	12		Golden Grove ..	4.21	0.91	7	13	
James Hill ..	5.24	0.75	15	11		Pleasant Hill ..	4.85	1.25	20	17	3.19
Frankfield ..	6.81	1.90	17	10	4.50	East Prospect ..	3.83	1.05	27	11	4.30
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	3.69	1.05	7	15	4.95
Mocho, Clarendon ..	2.35	0.90	30	7	3.46	Aeolus Valley ..	3.30	0.96	6	11	
Smithville ..	3.00	0.63	15	11		Yallahs ..	1.48	0.59	7	3	
Clarendon Park ..						Easington ..	2.31	0.66	6	7	4.87
Porus ..	3.09	0.79	24	8		Llandewey ..					
Borobridge ..	4.42	1.20	31	11		Mavis Bank ..	0.22	0.22	26	1	
Spaldings ..	5.14	1.15	15	9	3.79	Bull Bay ..	0.20	0.20	26	1	1.68
Williamsfield ..	3.42	1.53	6	13		Dallas Castle ..	0.56	0.13	26	8	
Brokenhurst ..	3.81	0.99	26	11	4.73	Gordon Town ..	0.82	0.75	27	3	2.33
Shooter's Hill ..	2.22	0.52	26	12	4.88	Irish Town ..	2.08	0.60	28	6	1.73
Wait-a-bit ..	3.58	1.10	31	8		Hope Gardens ..	2.39	1.94	27	9	2.50
Christiana ..	4.01	0.75	17	13	4.09	Waireka ..					
Holmwood ..						Iver ..	2.48	0.85	27	8	
Clifton Hill ..	3.50	1.60	6	4	4.97	Plumb Point L. H. ..	0.33	0.25	26	3	1.75
Kendal, Manchester ..	1.87	0.43	26	9	5.13						

STATIONS.	July, 1939.					STATIONS.	July, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	2.26	1.45	27	3	2.37	Newport, Man.	3.80	1.08	26	10	3.28
Up-Park Camp	2.35	0.76	28	7		Alligator Pond	1.36	0.50	26	4	2.01
Cavaliers	2.16	0.56	28	8		Fairfield	2.14	0.59	21	11	2.69
St. Georges College						Pepper					
Upper Kingston	2.66	1.49	27	7	1.58	Myersville					
Parade Garden	2.20	1.50	27	3		Goshen	2.05	0.89	30	5	
Kingston P.W.O.	2.80	1.37	27	6	1.53	Southfield, St. Eliz.					1.88
Constant Spring	3.29	1.38	29	8		Munro	2.19	0.50	22	10	
Halfway Tree	0.58	0.34	27	3	1.53	Windsor, St. Eliz.	3.39	0.73	17	14	
Clifton Pen	2.10	0.96	27	6	1.33	Torrington	2.01	0.64	26	7	2.29
Seaward Pen						Santa Cruz	7.92	2.11	26	10	5.25
Red Hills	7.29	2.06	27	9		Hounslow	2.22	0.75	26	8	
Quarantine Station	0.76	0.57	28	5	0.92	Pedro Plains	2.26	1.11	5	6	1.52
Hematine	1.33	1.02	27	4	1.14	Mountainside	4.62	1.26	26	7	2.81
Spanish Town	1.46	1.09	26	4	1.90	Fort Charles	1.29	0.50	22	3	
Hog Hole, St. Cath.	1.82	1.34	27	4	2.19	Black River	5.85	1.12	6	16	4.52
Old Harbour	3.60	3.27	27	2	1.99	Mt. Charles	10.57	1.55	16	18	
May Pen	3.91	1.18	25	13	2.76	Font Hill	11.10	2.20	15	15	5.45
Glen Muir	3.30	0.80	18	7		Mount Edgecombe	12.77	2.87	6	18	6.82
Cottage	1.07	0.64	20	4		Sav.-la-Mar	4.73	0.93	15	14	6.10
Belle Plain	4.37	2.50	26	7	1.62	Little London	8.54	2.47	20	13	6.20
Milk River	2.30	0.86	20	5	1.53	Retreat	6.75	2.42	24	16	7.43
Retrieve	2.34	0.56	26	7	3.50	Negril Point L. H.	6.01	1.14	26	18	5.83
Stone's Hope	3.39	0.68	21	11							

SHOCKS OF EARTHQUAKE IN JULY, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	July.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	4.38	5.25	8	10
Northern	3.51	3.19	9	7
West-central	8.79	7.56	14	13
Southern	3.59	2.99	9	7
The Island means	5.07	4.75	10	9

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—JULY.

The mean rainfall for the Island was above the average in all Divisions except the North-Eastern.

The greatest total fall for the month was 22.30 inches at Warsop in the West-Central Division, and the heaviest fall in 24 hours was 4.14 inches at the Bog in the same division on the 17th.

The mean number of rain days was 10, the average for the month being 9. The greatest number was 21 at Grange Hill and Mount Eagle in the West-Central Division.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland with 10.12 inches was highest; St. James with 7.89 inches, second; and Hanover with 7.68 inches, third. Kingston with 1.93 inches, was lowest.

Parish.	1939.	10-year Average.	Parish.	1939.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	1.93	3.02	St. James	7.89	4.80
St. Andrew	3.75	4.74	Hanover	7.68	7.84
St. Thomas	3.65	6.90	Westmoreland	10.12	8.93
Portland	4.39	9.21	St. Elizabeth	7.64	4.80
St. Mary	2.44	3.95	Manchester	2.93	5.70
St. Ann	2.67	3.35	Clarendon	3.46	5.07
Trelawny	7.00	3.86	St. Catherine	4.28	5.03

## CITY OF KINGSTON.

The total rainfall for the month of July, 1939, was 2.80 inches, as compared to the 60-year normal of 1.54 inch, representing 82% above the normal. Greatest fall in 24 hours, 1.37 inch, on the 27th. There were six days with appreciable rain as compared to the 49-year average of 5. The upper boundary of Kingston gauged 2.66 inches, and seven days with rain.

The number of days upon which distant rain was observed are as follows: to northward seven, to north-eastward three, to eastward three, to westward one and to northwest two.

The mean barometric pressure was 29.967 inches. The 33-year normal being 29.960 inches, or 0.007 inch above the normal. The mean pressure, for seven months in succession, has been consistently above the normal by a small extent; January and February with 0.005 inch, the least, and April with 0.026 inch, the greatest. The highest reading for July was 30.022 inches on the 31st at 3 p.m., and the lowest was 29.902 inches on the 20th at 3 p.m., corrected for diurnal variation.

Mean temperature for the month was 81.6°, based upon four observations per day, the 33-year normal being 81.4°, or 0.2° above the normal. The extreme maximum was 94.3° on the 20th, and the extreme minimum was 71.4° on the 28th; on the other hand the lowest maximum was 87.1° on the 29th, 30th and 31st, and the highest minimum was 78.7° on the 21st owing to an easterly wind from early morn. The maximum was 90° and above on twelve days, and the minimum was above 70° throughout. The extreme monthly range was 22.9° and the extreme daily range was 18.6° on the 19th and the least was 11.4° on the 21st.

The mean daily miles of wind registered was 238; the 25-year normal being 227, or 5% above the normal. The greatest number of miles of wind recorded in 24 hours was 408 on the 21st, and the least was 129 on the 27th. South-easterly wind appeared early on 4 occasions and continued after 7 p.m. on 21 occasions. The maximum velocity during a short interval, was 30 m.p.h. on the 1st at 3.30 p.m.

The mean relative humidity was 72%, the 33-year normal being 76%. The mean 7 a.m. was 73% and the mean 3 p.m. 63%. Lowest 7 a.m. 60% on 22nd, and lowest 3 p.m. 44% on the 2nd.

Overcast conditions prevailed in the forenoon on 10 occasions and in the afternoon on 16 occasions.

Total evaporation for the month of July 8.31 inches. The 10-year normal 7.56 inches.

Distant lightning to north on three occasions, and to the east once.

Distant thunderstorm to north five times, to northeast and east once each.

Sharp local thunderstorm on 27th, 3.35 p.m. Moderate haze early morning 4th and 6th.

Mean daily number of sunshine hours 8.0.

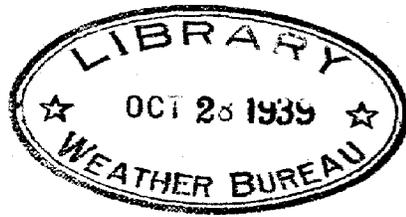
## CAYMAN ISLANDS.

Government House, George Town, Grand Cayman.—Rainfall Reports for the above Station which had been omitted since January, 1939, have now been supplied and are as follows:—

Month.	Total inches.	Greatest fall in 24 hours.	Date.	Days with rain.
		inches.		
January	1.24	0.46	30th	10
February	0.21	0.07	8th	4
March	0.97	0.26	13th	9
April	1.54	0.47	20th	10
May	5.16	1.73	29th	14
June	5.31	1.71	28th	13
July	3.43	1.03	22nd	10

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
August 20th, 1939.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF  
AUGUST, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

### METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)				Extreme Temperature (F.)					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		ft	ins.	ins.	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	29.945	29.918	82.8	88.2	89.0	79.7	9.3	92.3	21	74.1	9	18.2
Kingston	24	29.925	29.871	76.9	87.1	90.3	74.0	16.3	93.9	28	70.2	1	23.7
Negril Point Light House	33	29.934	29.904	77.8	84.5	88.2	72.6	15.6	90.6	6	69.7	1	20.9
Montego Bay †	33	..	..	75.1	89.1	92.0	71.1	20.9	94.9	27	68.5	3	26.4
Castleton Gardens	496	..	..	66.3	84.1	89.0	69.0	20.0	93.0	28*	73.0	29	20.0
Hope Gardens †	668	29.873	28.974	75.7	89.8	91.0	83.0	8.0	96.0	29	69.0	1	27.0
Hill Gardens, Blue Mountains	4,900	25.304	25.274	65.3	70.1	74.0	59.0	15.0	78.0	24*	57.0	3	21.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.		7 a.m.		3 p.m.		
		ft.	°	%			°	%	ins	Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L	M	U
Morant Point Light House	8	76	79	76	68	1.23	267	ENE	14.0	ENE	12.0	1.2	1.8	2.3	0.9	2.1	1.8
Kingston	24	70	78	74	66	1.33	195	N	3.8	SE	18.2	0.0	0.2	2.0	3.2	3.0	0.2
Negril Point Light House	33	72	82	74	72	5.63	106	NE	4.0	var.	6.0	0.0	0.1	5.7	3.1	5.0	0.6
Montego Bay	33	72	90	78	72	3.25	..	NEE	3.0	NE	8.0	..	..	..	..	..	..
Castleton Gardens	496	65	98	77	79	8.92	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	72	85	77	65	2.72	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	62	89	66	88	1.06	..	..	..	..	..	..	..	..	..	..	..

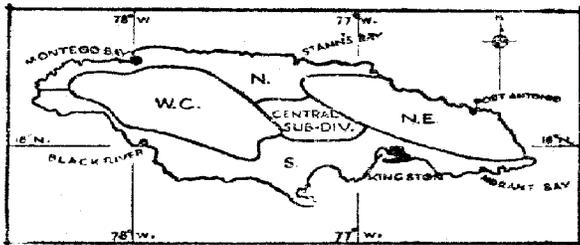
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.

## THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



STATIONS.	August, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Ins.	Ins.	Date.		Ins.
<b>NORTH-EASTERN DIVISION (N.E.)</b>					
Manchioneal	3.76	1.10	21	7	7.09
Priestman's River	5.45	2.25	16	4	8.00
Bath	1.86	0.40	11	9	9.98
Barrett's Gap	4.04	0.60	20	10	..
Millbank	3.69	1.62	22	14	..
Comfort Castle	3.09	2.82	21	6	..
Moore Town	6.31	1.85	2	9	15.77
Port Antonio	4.35	1.70	16	8	11.62
Passley Garden	3.34	0.64	15	16	..
Fellowship	3.52	0.83	21	8	..
Johnson River Br.	0.94	0.54	21	2	14.25
Trinity Ville	1.27	0.64	8	4	10.01
Fruitful Vale	1.14	1.14	23	1	..
Hope Bay	1.35	0.30	20	12	..
Cedar Valley	0.45	0.24	8	2	9.23
Paradise	0.65	0.31	23	5	..
Lennox	0.00	..	..	0	..
Greenvale	0.89	0.43	14	5	5.80
Darley	2.53	0.40	5	15	..
Spring Garden	..	..	..	..	6.52
Hill Gardens	1.06	0.45	2	5	7.80
Buff Bay	0.95	0.35	20	3	5.87
Buff Bay R. Est.	1.28	0.72	22	5	..
Belvedere, Portland	1.05	0.44	23	6	5.35
Windsor Castle, do.	0.84	0.33	23	6	5.49
Balcarres	0.65	0.25	14	3	..
Mt. Holstein	7.11	2.61	6	9	7.02
Cedar Hurst	2.22	0.88	16	8	..
Hardware Gap	7.31	2.35	8	12	7.22
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	6.39	2.75	20	13	9.92
Mount Cressy	7.68	5.00	16	..	..
Hermitage	8.19	4.40	20	12	..
Mount Airy	6.08	3.28	16	6	..
Stony Hill Ind. Sch.	8.18	2.89	16	13	8.86
Boon Hall	7.53	2.54	20	13	..
Brandon Hill	2.97	1.45	16	4	..
Enfield	0.90	0.38	10	3	..
Agualta Vale	1.20	0.70	23	2	4.28
Castleton Gardens	8.92	2.25	17	12	9.83
Water Valley	0.30	1.16	23	3	4.31
Albany	0.20	0.10	21	2	4.01
Lawrence Tavern	4.81	1.10	7	9	8.23
Wey Hill	5.59	0.90	16	11	..
Richmond, St. Mary	1.16	0.78	17	2	5.05
Quebec, St. Mary	1.32	0.82	11	4	4.50
Above Rocks	6.50	1.73	8	14	..
Glengoffe	7.18	2.36	3	11	..
Carew Castle	4.97	0.74	3	9	10.06
Hampstead, St. Mary	0.00	..	..	0	4.39
Windsor Castle do.	1.92	0.65	10	5	..
Troja	2.45	0.90	11	8	..
Pear Tree Grove	2.60	1.60	11	4	..
Guy's Hill	1.02	0.60	12	4	4.13
Lucky Hill	0.31	0.26	11	2	4.66
Rio Hoe	1.28	0.75	11	3	5.86
Unity Valley	..	..	..	..	6.60
Moneague	1.34	0.59	17	4	6.69
Claremont	1.01	0.70	17	4	5.08
Averham Park	0.56	0.43	17	3	4.59
Albion	1.37	0.76	17	5	6.01
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	2.08	0.95	10	6	4.94
Wentworth	..	..	..	..	..
Oracabessa	1.80	1.00	1	5	..
Huddersfield	1.65	1.35	21	2	..
Ocho Rios	0.05	0.05	24	1	2.99
Rockfield	0.93	0.20	17	7	4.30
Liberty Hill	0.38	0.26	11	3	3.19
St. Ann's Bay	0.30	0.15	17	2	3.07
Richmond Estate	..	..	..	..	3.04
Runaway Bay	0.16	0.16	10	1	1.88
Knapdale	1.59	0.77	10	4	..
Alexandria	3.63	2.45	17	4	3.86
Bel-Air	1.00	0.75	10	3	..
Brown's Town	1.38	0.78	10	3	3.96
Wilton	2.25	2.04	11	4	..
Watt Town, St. Ann	3.61	1.25	20	8	4.58
Home Castle	2.80	2.70	10	2	3.43
Arcadia	0.61	0.20	20	4	3.27
Vale Royal	1.14	0.41	21	8	4.58
Harmony Hall	..	..	..	..	2.35
Duncans	0.26	0.21	6	2	..
Clark's Town	1.83	0.62	17	6	..
Falmouth	0.34	0.18	21	3	2.45

STATIONS.	August, 1939.					STATIONS.	August, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi	3.20	0.96	10	7	..	Mereworth	4.90	1.45	16	8	..
Barrett Hall	..	..	..	..	..	Mandeville	1.39	0.48	17	7	8.53
Success	..	..	..	..	2.11	Ulster Spring	4.50	1.11	20	11	8.54
Rose Hall	..	..	..	..	2.06	Greenvale	6.39	1.80	16	11	..
Cinnamon Hill	..	..	..	..	2.19	Albert Town	7.65	1.70	7	10	9.25
Tryall	..	..	..	..	5.04	Craig Head	8.66	1.90	2	8	..
Running Gut	..	..	..	..	2.43	Warsop	10.45	1.80	2	8	..
Spring Estate	..	..	..	..	2.44	Troy	8.08	3.00	7	7	10.09
Friendship	5.28	1.45	10	9	5.63	Wallingford	7.99	2.04	9	15	10.33
Retirement	3.08	1.56	10	6	6.11	Balaclava	8.50	1.84	9	..	7.97
Rose Mount	2.86	1.10	10	6	..	Braes River	..	..	..	..	..
Montego Bay	3.25	1.15	8	4	5.12	Wakefield	3.22	1.37	17	5	..
Anchovy	4.06	1.45	18	11	6.55	Aberdeen	8.91	1.32	16	18	..
Hopewell	5.00	1.45	18	8	..	Accompong	17.00	2.52	1	17	..
Blue Hole	2.48	0.76	10	5	7.20	Maggotty	15.53	2.60	9	20	11.21
Cascade	12.05	3.25	3	10	..	Lacovia	7.20	1.20	20	12	..
Luca	3.41	1.46	10	7	6.29	Mulgrave	11.52	1.65	28	23	..
Haughton Court	4.38	1.85	10	6	6.65	Holland	..	..	..	..	..
Kendal—Hanover	10.58	2.90	18	20	..	Ipswich	..	..	..	..	..
Cousins Cove	5.63	1.63	10	15	..	Ginger Hill	12.44	3.00	1	21	..
Green River	8.81	1.91	18	16	..	Kempshot	5.39	2.33	10	11	7.87
Green Island	9.07	1.93	10	13	9.48	Mocho, St. James	13.95	2.30	17	13	..
Haughton Hall	7.26	1.48	10	19	..	Catadupa	16.30	2.11	23	16	13.41
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	10.43	1.83	8	17	11.05
Knollis	8.87	1.58	17	14	..	New Market	9.37	1.27	9	18	12.13
Highgate (St. Cath.)	7.50	2.00	9	14	..	Springfield	12.91	1.70	10	20	..
Rio Magno	2.50	1.25	19	8	..	Kew Park	13.66	3.32	8	16	12.12
Riversdale	8.26	1.70	3	9	..	The Bog	8.18	1.17	17	21	13.91
Headworks, R.C.C.	5.86	3.33	9	8	5.55	Bethel Town Dist.	13.36	3.25	8	18	14.10
Bog Walk	7.10	1.65	3	8	..	Burnt Ground	11.94	1.96	10	14	11.09
Linstead	3.26	0.55	20	11	8.62	Darliston	21.84	2.83	17	24	15.00
Ewarton	1.24	0.34	3	4	..	Bluefields	10.37	1.44	30	19	11.75
Cave Valley	3.28	1.05	16	6	7.42	Whithorn	16.25	2.90	8	13	11.74
Guanaboa Vale	5.94	2.10	9	8	..	Water Works Pen	14.57	4.33	10	15	12.72
Point Hill	3.03	1.01	18	12	10.25	Williamsfield, Wid.	14.43	2.15	9	20	..
Brown's Hall	5.50	1.20	15	8	7.88	Baulk	..	..	..	..	..
Bellas Gate	4.98	0.72	8	11	5.95	Askenish	14.40	3.15	18	14	12.78
Rock River	2.02	0.70	9	4	..	Grange Hill	..	..	..	..	13.06
Crofts Hill	1.69	0.42	3	10	7.71	Mount Eagle	..	..	..	..	..
Far Enough	..	..	..	..	..	King's Vale	8.92	1.40	18	15	10.61
Suttons	0.94	0.31	16	4	..						
Colonel's Ridge	8.46	3.45	16	11	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	3.01	0.64	19	10	6.31	Morant Point L. H.	1.23	0.35	6	9	5.05
Crooked River	10.82	3.40	16	13	..	Golden Grove	1.88	0.45	21	8	..
James Hill	6.75	1.53	9	11	..	Pleasant Hill	2.57	0.65	21	12	6.87
Frankfield	10.67	2.05	7	11	7.82	East Prospect	2.20	1.31	9	6	6.69
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	1.17	0.49	9	5	6.43
Mocho, Clarendon	3.04	0.66	2	6	6.79	Aeolus Valley	..	..	..	..	..
Smithville	..	..	..	..	..	Yallahs	0.23	0.10	21	3	..
Clarendon Park	..	..	..	..	..	Easington	0.37	0.37	23	1	6.67
Porus	4.67	1.02	2	7	..	Llandewey	..	..	..	..	..
Borobridge	5.33	1.30	9	10	..	Mavis Bank	1.71	0.70	2	4	..
Spaldings	5.88	2.15	9	9	7.26	Bull Bay	0.00	..	..	0	2.54
Williamsfield	3.83	1.23	16	13	..	Dallas Castle	1.31	0.91	2	5	..
Brokenhurst	6.62	2.04	7	9	8.16	Gordon Town	3.79	0.90	9	9	5.09
Shooter's Hill	5.14	2.32	16	7	7.38	Irish Town	3.77	1.20	16	8	5.95
Wait-a-bit	5.92	1.10	27	11	..	Hope Gardens	2.72	1.50	16	7	5.81
Christiana	5.97	1.96	9	12	7.03	Waireka	..	..	..	..	..
Holmwood	..	..	..	..	..	Iver	..	..	..	..	..
Clifton Hill	2.12	0.83	16	7	8.46	Plurab Point L. H.	4.37	2.10	9	5	3.47
Kendal, Manchester	4.05	1.80	11	9	8.13						

STATIONS.	August, 1939.					STATIONS.	August, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	2.04	1.09	15	5	4.90	Newport, Man.	6.43	2.23	7	9	7.35
Up-Park Camp	1.74	0.95	16	6	..	Alligator Pond	2.85	1.10	2	5	4.13
Cavaliers	1.60	0.97	16	7	..	Fairfield	5.55	1.45	9	12	0.16
St. Georges College	0.46	0.23	9	3	..	Pepper	..	..	..	..	..
Upper Kingston	0.94	0.35	16	9	4.83	Myersville	..	..	..	..	..
Parade Garden	0.83	0.43	9	6	..	Goshen	6.82	2.05	9	12	..
Kingston P.W.O.	1.33	1.10	9	4	3.60	Southfield, St. Eliz.	..	..	..	..	6.29
Constant Spring	6.56	2.65	16	11	..	Munro	2.67	1.14	8	5	..
Halfway Tree	1.68	1.39	16	3	3.84	Windsor, St. Eliz.	6.15	1.16	20	15	..
Clifton Pen	1.65	1.20	17	5	3.91	Torrington	4.46	2.12	20	9	5.54
Seaward Pen	..	..	..	..	..	Santa Cruz	10.21	2.50	15	14	9.25
Red Hills	5.49	1.60	7	11	..	Hounslow	3.63	0.90	2	7	..
Quarantine Station	0.18	0.05	4	7	2.56	Pedro Plains	2.78	1.67	9	3	2.92
Hematine	3.16	1.75	6	4	3.66	Mountainside	7.21	2.20	9	8	5.38
Spanish Town	2.43	1.50	6	4	3.87	Fort Charles	3.44	1.62	9	5	..
Hog Hole, St. Cath.	5.40	2.40	9	7	4.25	Black River	6.13	1.36	7	11	6.31
Old Harbour	10.17	4.41	9	6	4.71	Mt. Charles	11.22	3.08	17	17	..
May Pen	2.52	0.88	20	7	5.26	Font Hill	7.35	3.30	20	11	6.27
Glen Muir	2.00	1.00	13	4	..	Mount Edgewcombe	4.76	1.10	15	18	8.46
Cottage	..	..	..	..	..	Sav.-la-Mar	7.46	4.16	17	12	7.86
Belle Plain	..	..	..	..	..	Little London	8.09	1.82	2	14	6.66
Milk River	0.45	0.45	7	1	4.26	Retreat	..	..	..	..	8.42
Retrieve	1.49	0.77	2	4	4.06	Negril Point L. H.	5.63	1.66	9	18	6.50
Stone's Hope	3.47	1.62	9	9	6.48						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	August.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	2.60	7.41	7	11
Northern	3.12	4.89	8	9
West-central	9.03	10.17	14	15
Southern	3.39	5.27	7	10
The Island means	4.54	6.93	9	11

SHOCKS OF EARTHQUAKE IN AUGUST, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—AUGUST.

The mean rainfall for the Island was much below the normal in all Divisions, particularly the North-Eastern.

The greatest total fall for the month was 21.84 inches at Darliston in the West-Central Division, and the heaviest fall in 24 hours was 5.00 inches at Mount Cressy in the North-Eastern Division on the 16th.

The mean number of rain days was 9, the average for the month being 11. Darliston, with 24 had the most.

No rain fell at Lennox and Hampstead, in the North-Eastern Division, and Bull Bay, in the Southern Division.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland with 11.71 inches, was highest; St. Elizabeth, with 8.39 inches, second; and Hanover, with 8 inches, third. St. Ann, with 1.50 inch was lowest.

Parish.	1939.	10-year	Parish.	1939.	10-year
	Inches.	Average.		Inches.	Average.
Kingston	1.59	5.61	St. James	6.78	6.11
St. Andrew	4.32	7.25	Hanover	8.00	8.67
St. Thomas	1.52	8.24	Westmoreland	11.71	9.91
Portland	2.58	10.48	St. Elizabeth	8.39	7.00
St. Mary	1.95	6.38	Manchester	4.60	8.23
St. Ann	1.50	4.87	Clarendon	4.54	6.81
Trelawny	4.00	5.36	St. Catherine	4.70	7.46

## CITY OF KINGSTON.

The total rainfall for the month of August was 1.33 of an inch, representing about two-fifths of the 60-year normal of 3.60 inches. The greatest fall in 24 hours was 1.10 inch on the 9th. There were four days with appreciable rain as compared to the 49-year average of nine. The upper boundary of Kingston gauged 0.94 of an inch and nine days with rain.

The number of days upon which distant rain was observed are as follows:—to northward eleven, to northeast seven, to east two, to west three and northwest four.

Distant lightning to north, east and northwest once each. Distant thunderstorm to north on 6 days and to north 5. Local thunderstorm on 6 days.

The mean barometric pressure was 29.910 inches, the 33-year normal being 29.929 inches or 0.19 of an inch below the normal. The highest barometric reading was 30.023 inches on the 1st at 7 a.m., and the lowest was 29.830 inches on the 10th, at 7 a.m., corrected for diurnal variation.

Mean temperature for the month was 81.6°, based upon four observations per day, the 33-year normal being 81.0°, or 0.6° above the normal. The extreme maximum was 93.9° on the 28th and the extreme minimum was 70.2° on the 1st, giving an extreme monthly range of 23.7°. On the other hand the lowest maximum was 87.0° on the 3rd and 10th, and the highest minimum was 77.9° on the 29th. The maximum was 90° and above, sixteen times. The minimum was above 70° throughout. The greatest daily range was 20.1° on the 28th, and the least range was 13.1° on the 29th.

The mean daily miles of wind registered was 195, the 25-year normal being 193. The greatest number of miles recorded in 24 hours was 295 on the 4th, and the least was 117 on the 2nd. Southeasterly wind continued after 7 p.m. on 17 days. Greatest velocity, of short duration, was 36 miles per hour on 23rd at 1.10 p.m.

The mean relative humidity was 76% which is 3% below the 33-year normal of 79%. The mean 7 a.m. was 78%, and the mean 3 p.m. was 66%. Lowest 7 a.m. 68% on the 30th, and lowest 3 p.m. 47% on the 12th.

Overcast conditions prevailed in the forenoon on six occasions and in the afternoon on 16 occasions.

Total evaporation for the month of August was 7.56 inches, the 10-year normal being the same amount.

The mean daily number of sunshine hours was 8.3.

## CAYMAN ISLAND.

Government House, Georgetown, Grand Cayman.

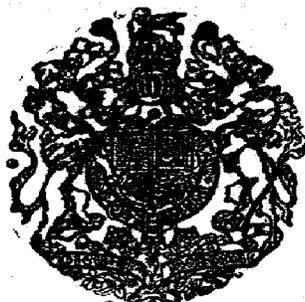
The total rainfall for the month of August was 3.43 inches. Greatest fall in 24 hours was 2.15 inches on the 20th. Number of days with appreciable rain 10.

## WEATHER DISTURBANCES.

No hurricanes or weather disturbances of any note were reported in the Caribbean Region during August.

J. F. BRENNAN,  
Govt. Meteorologist.

August 20th, 1939.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

SEPTEMBER, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)					Extreme Temperature (F.)				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft	ins.	ins.	°	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	29.814	29.809	82.2	86.5	88.9	79.3	9.6	91.3	5	74.8	21	16.5
Kingston	24	29.921	29.874	76.3	85.8	90.0	74.4	15.6	92.7	1*	72.4	21	20.3
Negril Point Light House	33	29.930	29.889	80.0	85.5	88.6	73.3	15.3	90.4	25	71.0	3	19.4
Montego Bay †	33	..	..	75.2	86.9	90.7	71.1	19.6	94.5	2	68.0	25	26.5
Castleton Gardens	496	..	..	69.8	83.6	87.7	68.0	19.7	93.0	7	68.0	16*	25.0
Hope Gardens †	668	29.962	29.881	78.3	84.8	92.0	70.6	21.4	95.0	7*	69.0	18	26.0
Hill Gardens, Blue Mountains	4,900	25.269	25.250	64.6	67.6	72.6	57.8	14.8	77.0	1*	57.0	19*	20.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.	7 a.m.			3 p.m.		
	ft.	°	%	°	%	ins.	Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	76	82	76	72	3.15	244	ENE	11.7	ENE	11.6	1.8	1.8	2.4	0.8	1.9	2.6
Kingston	24	70	81	75	71	2.82	185	N	3.5	SE	15.0	0.7	0.3	3.3	3.7	2.2	1.5
Negril Point Light House	33	72	75	74	72	5.11	123	ENE	4.0	var.	8.0	1.3	0.3	5.9	2.3	5.3	1.4
Montego Bay	33	72	89	77	73	3.10	..	ENE	3.0	NNE	7.0	..	..	..	..	..	..
Castleton Gardens	496	69	95	77	79	8.55	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	66	68	69	59	9.62	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	62	90	63	83	2.86	..	..	..	..	..	..	..	..	..	..	..

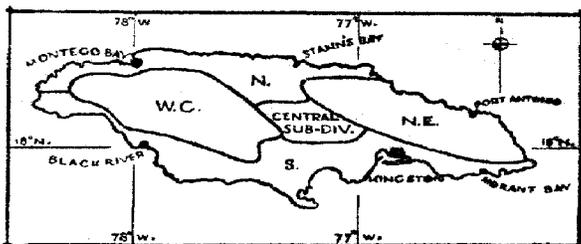
\* And on other days. †Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 †Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



September, 1939.

STATIONS.	Total Fall.		Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
	Ins.	Ins.	Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>						
Manchioneal	9.39	5.60	20	10	9.68	
Priestman's River	6.45	1.65	20	8	10.33	
Bath	7.27	1.88	14	12	12.17	
Barrett's Gap	6.40	2.00	15	10		
Millbank	9.42	3.56	20	15		
Comfort Castle	7.64	3.80	20	6		
Moore Town	9.31	1.75	6	15	14.81	
Port Antonio	5.96	0.95	15	16	10.38	
Passley Garden	4.99	1.72	7	16		
Fellowship	5.25	1.59	13	11	12.57	
Johnson River Br.	2.29	0.60	14	8	10.94	
Trinity Ville	3.49	1.28	20	6		
Fruitful Vale	2.38	1.09	12	4		
Hope Bay	3.97	1.83	7	7		
Cedar Valley	4.90	1.30	15	9	12.17	
Paradise	1.70	0.49	14	8		
Lennox	1.63	0.90	11	5		
Greenvale	3.07	1.07	19	10	8.51	
Darley	2.60	0.47	8	13		
Spring Garden	2.52	0.56	12	8	8.57	
Hill Gardens	2.86	0.55	18	8	9.42	
Buff Bay	2.46	1.10	13	7	5.07	
Buff Bay R. Est.	2.01	0.91	19	6		
Belvedere, Portland	1.77	0.80	13	5	1.19	
Windsor Castle, do.	2.27	0.52	14	10	5.48	
Balcarres	5.44	1.52	20	7		
Mt. Holstein	3.00	1.79	20	10	10.13	
Cedar Hurst	4.01	1.76	30	12		
Hardware Gap	3.35	0.73	20	14	10.70	
<b>NORTH-EASTERN DIVISION, contd.</b>						
Rose Hill	8.23	1.90	19	16	13.48	
Mount Cressy	7.19	1.60	21			
Hermitage	13.36	4.44	9	17		
Mount Airy	8.12	1.80	30	12		
Stony Hill Ind. Sch.	6.94	1.39	9	15	10.05	
Boon Hall	9.02	2.28	9	17		
Brandon Hill	9.41	2.27	30	12		
Enfield	1.32	0.54	20	5		
Agualta Vale	0.81	0.41	13	6	4.94	
Castleton Gardens	8.55	2.10	20	11	11.76	
Water Valley	2.13	0.90	20	9	4.82	
Albany	2.45	1.05	20	8	4.18	
Lawrence Tavern	10.97	2.30	19	12	9.87	
Wey Hill	6.05	1.90	20	12		
Richmond, St. Mary	3.45	1.45	20	6	6.11	
Quebec, St. Mary					4.45	
Above Rocks	8.37	2.85	19	13		
Glengoffe	8.78	3.81	20	6		
Carew Castle	12.37	3.25	20	13	11.19	
Hampstead, St. Mary	5.05	2.20	21	10	6.24	
Windsor Castle do.	4.47	2.12	6	11		
Troja	7.20	3.00	2	7		
Pear Tree Grove	5.44	1.88	2	8		
Guy's Hill	5.40	1.40	2	8	7.37	
Lucky Hill	4.41	1.36	6	11	6.14	
Rio Hoe	3.80	1.10	26	10	6.36	
Unity Valley	4.46	2.70	12	12	8.17	
Moneague	3.39	1.45	12	9	7.55	
Claremont	4.64	2.60	20	5	6.38	
Averham Park	2.75	1.24	13	7	5.60	
Albion	3.49	1.03	19	7	7.48	
<b>NORTHERN DIVISION (N.)</b>						
Port Maria	5.12	1.60	11	16	4.13	
Wentworth						
Oracabessa	3.86	1.62	12	9		
Huddersfield	1.39	0.82	11	2		
Ocho Rios	3.25	1.80	6	6	3.64	
Rockfield	3.27	0.80	20	10	5.21	
Liberty Hill	0.79	0.31	20	6	3.90	
St. Ann's Bay	2.59	0.92	13	12	3.51	
Richmond Estate	3.06	2.05	20	7	3.74	
Runaway Bay	1.07	0.56	20	2	2.61	
Knapdale	2.69	0.85	20	7		
Alexandria	5.71	1.00	14	13	7.12	
Bel-Air	2.25	0.50	18	7		
Brown's Town	2.71	0.97	19	8	5.71	
Wilton	2.67	0.74	20	7		
Watt Town, St. Ann	5.99	1.29	26	10	6.89	
Home Castle	3.15	1.20	21	6	5.18	
Arcadia	2.15	0.70	21	6	4.71	
Vale Royal	2.07	0.68	21	9	4.72	
Harmony Hall	2.99	1.35	30	5	3.63	
Duncans	3.14	1.46	13	9		
Clark's Town	6.54	3.25	21	7		
Falmouth	1.60	0.45	12	5	3.41	

STATIONS.	September, 1939.					STATIONS.	September, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Ins.	Amount.					Date.	Ins.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi	3.56	1.90	20	5		Mereworth	4.50	0.81	11	12	
Barrett Hall						Mandeville	4.59	1.80	11	9	10.05
Success					3.55	Uister Spring	12.22	2.14	29	15	10.17
Rose Hall					3.46	Greenvale	9.94	2.93	4	13	
Cinnamon Hill					3.89	Albert Town	17.87	3.00	30	14	10.87
Tryall					5.12	Craig Head	16.39	2.66	30	11	
Running Gut					3.68	Warsop	18.54	3.05	20	18	
Spring Estate					3.58	Troy	17.25	2.30	2	17	13.70
Friendship	4.16	2.00	12	12	8.34	Wallingford	11.63	2.48	10	17	12.37
Retirement	5.27	2.10	12	10	9.37	Balaclava	11.87			15	11.00
Rose Mount	1.05	0.59	21	7		Braes River					
Montego Bay	3.10	0.91	21	8	6.58	Wakefield	5.85	1.40	15	8	
Anchovy	5.33	0.99	21	14	6.98	Aberdeen	10.85	2.30	13	18	
Hopewell	5.88	1.50	18	13		Accompong	13.00			13	
Blue Hole	4.11	1.00	21	10	10.09	Maggotty	11.84	2.16	10	12	11.82
Cascade	9.59	1.43	14	19		Lacovia	6.98	1.55	14	13	
Lucea	4.77	1.15	15	14	8.16	Mulgrave	12.32	1.40	9	22	
Haughton Court	5.75	1.50	21	14	7.16	Holland	6.84	1.36	21	14	
Kendal—Hanover	13.68	2.05	19	18		Ipswich	11.84	1.43	21	22	
Cousins Cove	7.58	1.22	12	21		Ginger Hill	11.43	1.53	11	22	
Green River	11.66	2.28	19	18		Kempshot	4.64	1.16	21	13	9.10
Green Island	12.96	2.73	1	15	10.37	Mocho, St. James	10.18	1.50	18	15	
Haughton Hall	8.37	1.67	8	21		Catadupa	10.88	2.32	18	16	14.69
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	9.80	1.86	8	17	12.29
Knollis	6.41	2.21	20	10		New Market	13.19	3.15	12	17	11.81
Highgate (St. Cath.)	8.99	1.78	20	15		Springfield	13.42	4.10	29	19	
Rio Magno	6.95	2.20	2	7		Kew Park	10.44	1.85	29	16	12.38
Riversdale	7.40	1.75	29	9		The Bog	14.34	3.01	29	19	12.72
Headworks, R.C.C.	8.37	1.75	4	10	6.24	Bethel Town Dist.	14.00	2.54	20	25	15.76
Bog Walk	5.31	1.68	12	7		Burnt Ground	13.15	1.68	26	18	13.30
Linstead	3.03	1.70	20	7	7.48	Darliston	19.47	2.25	29	23	14.56
Ewarton	4.65	2.07	20	10		Bluefields	15.43	2.60	29	16	10.83
Cave Valley	9.25	1.30	16	12	7.87	Whithorn	9.33	1.38	21	15	11.20
Guanaboa Vale	6.62	2.11	27	8		Water Works Pen	12.67	2.10	21	19	11.01
Point Hill	4.84	1.77	20	9	10.89	Williamsfield, Wld.	8.54	1.30	12	23	
Brown's Hall	4.16	1.26	10	7	9.81	Baulk	10.94	1.90	29	19	
Bellas Gate	3.04	1.00	29	8	5.71	Askenish	10.91	1.80	3	16	12.07
Rock River	2.60	1.50	15	4		Grange Hill	13.96	1.65	29	18	11.75
Crofts Hill	8.65	4.25	30	11	7.67	Mount Eagle	11.99	1.35	7	19	
Far Enough	8.67	2.34	18	10		King's Vale	8.31	1.80	24	15	10.85
Suttons	4.43	1.84	15	8							
Colonel's Ridge	7.77	1.86	17	14		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	6.59	1.45	17	14	7.86	Morant Point L. H.	3.15	0.71	14	11	6.94
Crooked River	7.47	1.00	30	11		Golden Grove	5.52	2.05	20	13	
James Hill	9.71	1.63	30	18		Pleasant Hill	7.11	2.30	20	14	8.44
Frankfield	10.21	1.65	29	12	7.17	East Prospect	3.64	0.97	20	13	8.37
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.19	0.50	19	10	8.00
Mocho, Clarendon	6.24	2.05	28	7	9.10	Aeolus Valley	2.20	0.91	15	8	
Smithville	7.21	1.63	30	16		Yallahs	1.76	1.00	14	3	
Clarendon Park						Easington	1.79	0.62	15	5	8.18
Porus	6.90	1.72	17	10		Llandewey					
Boro-bridge	7.40	1.38	17	13		Mavis Bank	9.51	2.80	29	8	
Spaldings	10.03	1.72	8	9	7.97	Bull Bay	0.87	0.50	30	3	4.10
Williamsfield	5.37	1.13	30	13		Dallas Castle	8.54	5.30	30	10	
Brokenhurst	10.72	2.54	11	14	9.91	Gordon Town	10.09	1.86	17	15	7.84
Shooter's Hill					9.14	Irish Town	7.93	1.30	18	10	8.35
Wait-a-bit	19.84	3.60	18	16		Hope Gardens	9.62	2.17	30	16	6.94
Christiana	8.45	1.67	11	14	9.17	Watreka					
Holmwood						Iver					
Clifton Hill	4.75	1.25	18	11	11.43	Plumb Point L. H.	1.18	0.50	15	6	4.30
Kendal, Manchester	5.40	1.26	4	13	9.60						

STATIONS.	September, 1939.					STATIONS.	September, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	2.94	.50	11	13	5.32	Newport, Man.	7.13	1.50	11	12	8.20
Up-Park Camp	3.90	1.40	30	13		Alligator Pond	5.72	1.90	15	6	5.48
Cavaliers	3.54	1.08	30	14		Fairfield	6.70	1.73	4	18	7.94
St. Georges College	3.73	1.61	30	8		Pepper					
Upper Kingston	3.29	1.30	30	13	4.33	Myersville					
Parade Garden	2.64	0.56	30	8		Goshen					
Kingston P.W.O.	2.82	1.06	30	10	3.87	Southfield, St. Eliz.					7.80
Constant Spring	7.56	1.44	30	15		Munro	4.68	1.06	16	11	
Halfway Tree	2.17	0.34	11	12	4.72	Windsor, St. Eliz.	9.19	2.35	11	12	
Clifton Pen	8.36	3.11	17	12	4.24	Torrington	6.23	1.20	15	7	6.49
Seaward Pen	2.31	0.88	13	6		Santa Cruz					9.66
Red Hills	10.13	2.45	10	12		Hounslow	7.00	2.65	11	10	
Quarantine Station	1.59	0.58	21	9	2.98	Pedro Plains	6.01	1.75	19	10	4.07
Hematine	3.23	1.40	20	9	4.89	Mountainside	10.16	2.75	12	12	4.66
Spanish Town	3.24	1.04	20	8	4.94	Fort Charles	6.11	1.62	9	9	
Hog Hole, St. Cath.	6.08	1.63	11	9	5.69	Black River	2.87	0.75	15	7	5.43
Old Harbour	5.34	3.35	10	8	6.01	Mt. Charles	4.66	1.20	10	15	
May Pen	3.20	1.23	15	10	7.04	Font Hill	3.05	1.30	15	5	6.66
Glen Muir	2.65	1.20	15	7		Mount Edgecombe	9.11	1.75	15	19	8.25
Cottage	4.62	1.65	15	6		Sav.-la-Mar	6.68	1.90	12	14	7.08
Belle Plain	5.38	1.50	28	8		Little London	9.36	2.78	13	15	9.25
Milk River	3.28	1.40	14	5	7.27	Retreat	5.38	1.41	29	15	7.72
Retrieve	2.76	1.10	28	5	7.42	Negril Point L. H.	5.11	1.78	12	14	6.71
Stone's Hope	6.45	1.50	11	15	8.67						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	September,			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	4.80	8.48	10	13
Northern	4.66	5.89	10	10
West-central	11.24	10.99	16	16
Southern	4.93	6.42	11	11
The Island means	6.41	7.94	12	13

SHOCKS OF EARTHQUAKE IN SEPTEMBER, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—SEPTEMBER.

The mean rainfall for the Island was much below the average in all Divisions except the West-Central, which was slightly above the average.

The greatest total fall for the month was 19.84 inches at Wait-a-bit in the West-Central Division, and the heaviest fall in 24 hours was 4.44 inches at Hermitage in the North-Eastern Division on the 9th. The mean number of rain days was 12, or 1 less than the average. The greatest number was 25 at Bethel Town District in the West-Central Division.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 11.05 inches, was highest; Trelawny, with 9.17 inches, second; and Hanover, with 9.02 inches, third. Kingston, with 2.73 inches, was lowest.

Parish.	1939.	10-year	Parish.	1939.	10-year
	Inches.	Average.		Inches.	Average.
Kingston	2.73	3.88	St. James	5.80	6.31
St. Andrew	7.01	8.42	Hanover	9.02	8.84
St. Thomas	4.13	9.59	Westmoreland	11.05	9.62
Portland	4.28	18.90	St. Elizabeth	8.87	7.84
St. Mary	3.77	6.40	Manchester	7.05	9.28
St. Ann	3.55	5.59	Clarendon	6.17	7.38
Trelawny	9.17	6.26	St. Catherine	5.84	6.70

The total rainfall for the 9 months is given below, compared with the 60-year average, and shows a deficit of 7.23 inches.

	1939	60-year
	Inches.	Average.
January	2.90	4.00
February	1.18	3.13
March	4.98	3.35
April	4.94	4.77
May	6.57	8.77
June	6.35	6.53
July	5.07	4.75
August	4.54	6.93
September	6.41	7.94
Total	42.94	50.17

## CITY OF KINGSTON.

The total rainfall for the month of September was 2.82 inches representing about three-quarters of the 60-year normal of 3.87 inches. The aggregate rainfall for the nine months shows 14.80 inches and the aggregate normal for the corresponding period is 20.13 inches, showing a deficiency of about 26%. The greatest fall in 24 hours, in September, was 1.06 inch on the 30th. There were ten days with appreciable rain as compared to 50-year average of nine. The upper boundary of Kingston gauged 3.29 inches and thirteen rain days.

The number of days upon which distant rain was observed was as follows:—to northward fifteen, to northeast nine, to eastward and southwest once each, to westward two and to northwest nine.

Distant lightning seen to north and northeast each on five evenings, to east once and to west once.

Distant thunderstorm to north on seven occasions, to northeast and south twice each, to southwest twice, to west once and to northwest seven times. Very intense to the s.w. on the 15th.

The mean barometric pressure was 29.909 inches, the 33-year normal being 29.889, or 0.020 inch above normal. Highest reading 30.004 inches, on the 6th at 3 p.m., and the lowest 29.826 inches on 14th and 21st at 7 a.m., corrected for diurnal variation.

Mean temperature for the month based upon four observations per day, was 81.1°, as against the 33-year normal of 80.6° or 0.5° above the normal. The extreme maximum was 92.7° on the 1st and 2nd, and the extreme minimum was 72.4° on the 21st, giving an extreme monthly range of 20.3°. On the other hand the lowest maximum was 86.7° on the 14th and the highest minimum was 76.4°, on the 1st. The maximum was 90° or above on 16 occasions, and the minimum was 70° or above throughout. The greatest daily range was 18.5° on the 10th and the least 12.1° on the 14th.

The mean daily miles of wind registered was 185 as compared to the 25-year normal of 169, showing an excess of 9%. The greatest number of miles recorded in 24 hours was 307 on the 23rd, and the least was 98 on the 19th. Maximum velocity 32 m.p.h. on 7th at 1.45 p.m. South easterly wind continued after 7 p.m. on eight occasions and easterly wind on five evenings.

The mean relative humidity was 80% which is only 2% below the 33-year normal of 82%. The mean 7 a.m. was 81% and the mean 3 p.m. was 71%. Lowest 7 a.m. 69% on the 8th and lowest 3 p.m. 54% on the 7th.

Overcast condition prevailed in the early forenoon on eleven occasions and in the afternoon on twenty. The total evaporation for the month of September was 5.52 inches, the 10-year normal being 5.12 inches.

Mean daily number of sunshine hours 7.6.

#### CAYMAN ISLANDS.

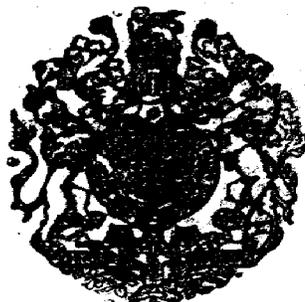
Government House, George Town, Grand Cayman. Total fall for the month of September 4.56 inches. Greatest fall in 24 hours 1.08 inch on the 19th. Number of days with appreciable rain 16.

#### WEATHER DISTURBANCES.

There were no weather disturbances of note reported as occurring in the entire Caribbean region in September.

J. F. BRENNAN,  
Government Meteorologist.

Kingston, Jamaica,  
20th October, 1939.



JAMAICA

# WEATHER REPORT.

FOR THE MONTH OF

OCTOBER, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus.

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

## METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)				Extreme Temperature (F.)					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	8	29.888	29.835	82.1	82.8	88.1	77.4	10.7	90.9	17*	72.1	3	18.8
Kingston	24	29.862	29.810	75.4	86.4	89.0	73.9	15.1	94.0	25	71.2	11	22.8
Negril Point Light House	33	29.879	29.827	75.8	86.2	88.5	73.1	15.4	91.7	19	69.3	26	22.4
Montego Bay †	33	..	..	75.1	88.0	90.9	71.6	19.3	95.0	22*	69.5*	2*	25.5
Castleton Gardens	496	..	..	71.0	80.9	85.8	68.2	17.6	91.0	6	65.0	1	26.0
Hope Gardens †	668	29.909	29.883	74.3	82.2	87.3	80.2	7.1	91.0	9*	69.0	26*	22.0
Hill Gardens, Blue Mountains	4,900	25.237	25.229	63.8	65.5	68.9	56.6	12.3	72.0	19	56.0	20*	16.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.						
Morant Point Light House	8	94	84	75	71	14.15	214	ENE	8.0	ENE	8.0	3.5	1.3	1.5	1.9	1.9	1.7
Kingston	24	71	85	74	68	9.09	134	N	4.3	SE	9.2	1.5	0.7	2.2	5.9	1.2	1.2
Negril Point Light House	33	74	84	75	71	5.63	139	E	3.0	var.	8.0	1.4	1.1	2.8	2.9	1.5	1.6
Montego Bay	33	73	92	79	73	1.61	..	E	..	NNE	..	..	..	..	..	..	..
Castleton Gardens	496	69	92	77	87	16.85	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	66	82	72	70	10.64	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	62	92	62	90	20.54	..	..	..	..	..	..	..	..	..	..	..

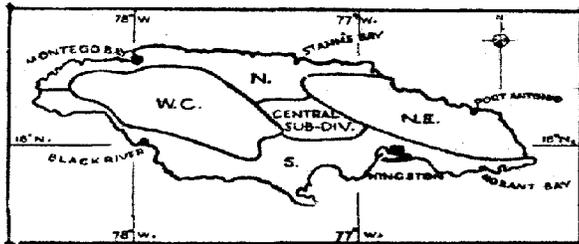
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



October, 1939.

STATIONS.	Total Fall.		Greatest fall in 24 hours.		Average.
	Ins.	Ins.	Amount.	Date.	
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioreal	12.33	4.56	28	9	16.40
Priestman's River	9.65	3.30	28	7	13.31
Bath	22.02	6.65	28	15	16.43
Barrett's Gap	25.42	10.00	29	13	..
Millbank	17.77	3.55	9	14	..
Comfort Castle	19.19	3.55	9	10	..
Moore Town	13.36	4.00	9	18	18.74
Port Antonio	8.33	2.22	26	10	14.24
Passley Garden	8.10	1.93	10	10	..
Fellowship	14.00	2.72	27	13	15.96
Johnson River Br.	19.72	5.73	28	11	13.59
Trinity Ville	21.70	5.23	28	13	..
Fruitful Vale	28.71	7.00	31	11	..
Hope Bay	11.67	2.33	29	13	..
Cedar Valley	19.26	5.20	28	14	13.94
Paradise	4.70	1.54	26	12	..
Lennox	5.90	1.10	3	10	..
Greenvale	17.28	2.20	17	14	10.97
Darley	7.79	1.47	27	12	..
Spring Garden	6.72	1.25	9	9	6.13
Hill Gardens	20.54	2.91	26	11	16.21
Buff Bay	7.80	1.95	1	12	9.27
Buff Bay R. Est.	8.18	2.28	9	11	..
Belvedere, Portland	8.01	2.64	9	11	6.55
Windsor Castle, do.	6.29	2.31	26	11	7.38
Balcarras	16.11	2.70	4	19	..
Mt. Holstein	13.15	3.96	16	18	..
Cedar Hurst	14.60	2.35	16	25	..
Hardware Gap	21.07	4.20	4	23	14.72

STATIONS.	October, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
	Ins.	Ins.	Amount.	Date.	Ins.
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	27.93	3.30	1	23	15.84
Mount Cressy	17.80	3.50	4	..	..
Hermitage	14.34	2.16	16	24	..
Mount Airy	15.28	2.51	26	23	..
Stony Hill Ind. Sch.	16.42	4.33	16	21	14.06
Boon Hall	14.00	2.24	16	23	..
Brandon Hill	12.70	1.79	4	13	..
Enfield	10.23	2.70	9	13	..
Agualta Vale	5.19	1.41	25	12	6.26
Castleton Gardens	16.85	3.80	1	15	14.36
Water Valley	5.01	1.32	25	10	7.27
Albany	6.43	1.50	25	12	7.44
Lawrence Tavern	7.08	1.30	17	11	11.90
Wey Hill	7.82	1.10	26	14	..
Richmond, St. Mary	10.35	3.77	17	11	8.14
Quebec, St. Mary	..	..	..	..	9.33
Above Rocks	10.06	2.30	17	16	..
Glengoffe	9.88	2.05	4	11	..
Carew Castle	9.78	1.71	16	11	12.61
Hampstead, St. Mary	10.32	2.00	26	14	7.88
Windsor Castle do.	8.41	1.20	21	16	..
Troja	8.29	1.87	26	10	..
Pear Tree Grove	8.14	1.60	27	14	..
Guy's Hill	9.56	1.43	27	16	7.27
Lucky Hill	7.85	1.77	26	15	8.26
Rio Hoe	9.86	3.00	27	10	8.68
Unity Valley	7.03	1.70	1	18	8.94
Moneague	7.37	1.32	26	12	8.97
Claremont	6.73	1.15	4	13	8.18
Averham Park	7.34	1.60	10	12	10.52
Albion	10.47	2.23	4	15	8.89
<b>NORTHERN DIVISION (N).</b>					
Port Maria	8.21	2.50	10	13	8.26
Wentworth	..	..	..	..	..
Oracabessa	4.75	1.75	11	8	..
Huddersfield	4.47	1.35	9	4	..
Ocho Rios	4.27	1.82	10	7	5.56
Rockfield	5.18	1.55	10	12	6.40
Liberty Hill	1.08	0.50	27	4	5.93
St. Ann's Bay	6.74	3.10	27	21	6.62
Richmond Estate	..	..	..	..	6.94
Runaway Bay	4.24	1.37	26	7	3.07
Knapdale	8.43	2.27	27	12	..
Alexandria	4.52	0.62	7	14	7.96
Bel-Air	8.05	1.90	26	8	..
Brown's Town	8.49	2.05	26	15	8.32
Wilton	7.23	1.95	26	9	..
Watt Town, St. Ann	8.67	1.42	10	14	8.33
Home Castle	6.75	3.35	27	5	6.51
Arcadia	7.47	2.26	27	8	6.15
Vale Royal	6.22	1.90	27	11	6.50
Harmony Hall	3.02	2.00	29	5	5.18
Duncans	4.56	2.80	27	7	..
Clark's Town	7.69	1.90	26	12	..
Falmouth	2.59	0.75	27	10	5.54

STATIONS.	October, 1939.					STATIONS.	October, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	3.76	1.26	16	9	..	Mereworth ..	11.10	2.06	31	18	..
Barrett Hall ..	..	..	..	..	..	Mandeville ..	9.28	1.48	31	17	14.86
Success ..	..	..	..	..	5.98	Ulster Spring ..	4.17	1.10	1	8	11.90
Rose Hall ..	..	..	..	..	6.24	Greenvale ..	10.21	1.75	15	17	..
Cinnamon Hill ..	..	..	..	..	6.66	Albert Town ..	4.75	1.90	16	8	11.79
Tryall ..	..	..	..	..	6.01	Craig Head ..	11.91	2.66	1	7	..
Running Gut ..	..	..	..	..	5.52	Warsop ..	16.82	2.30	16	17	..
Spring Estate ..	..	..	..	..	6.33	Troy ..	13.47	3.00	18	18	15.46
Friendship ..	3.45	0.80	5	10	10.16	Wallingford ..	10.08	2.30	10	22	13.54
Retirement ..	2.79	0.72	30	10	9.63	Balaclava ..	8.72	2.00	10	18	12.22
Rose Mount ..	1.74	0.54	31	9	..	Bras River ..	10.87	..	..	..	..
Montego Bay ..	1.61	0.41	27	9	7.53	Wakefield ..	7.25	1.25	30	12	..
Anchovy ..	2.98	0.76	5	12	6.96	Aberdeen ..	12.41	1.80	16	22	..
Hopewell ..	2.90	1.00	31	9	..	Accompong ..	9.32	..	..	17	..
Blue Hole ..	2.73	1.66	31	6	10.44	Maggoty ..	12.54	2.09	8	20	13.85
Cascade ..	7.74	1.70	31	14	..	Lacovia ..	9.99	2.00	31	14	..
Luca ..	3.50	1.20	31	11	8.12	Mulgrave ..	13.69	1.96	21	21	..
Haughton Court ..	3.07	1.43	31	9	7.18	Holland ..	16.93	3.50	13	16	..
Kendal—Hanover ..	7.94	2.44	21	12	..	Ipswich ..	..	..	..	..	..
Cousins Cove ..	4.45	1.69	21	16	..	Ginger Hill ..	12.33	1.60	31	17	..
Green River ..	6.64	1.43	31	11	..	Kempshot ..	6.41	3.23	16	14	9.67
Green Island ..	6.97	3.10	21	10	8.61	Moch, St. James ..	16.15	1.90	31	17	..
Haughton Hall ..	..	..	..	..	..	Catadupa ..	8.99	1.63	31	12	14.00
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	10.91	1.83	16	19	12.42
Knollis ..	8.68	2.20	28	11	..	New Market ..	12.38	2.11	31	13	13.14
Highgate (St. Cath.) ..	13.15	2.01	31	23	..	Springfield ..	15.32	2.26	12	18	..
Rio Magno ..	8.13	1.53	26	15	..	Kew Park ..	9.58	1.75	4	19	12.03
Riversdale ..	8.90	1.50	31	12	..	The Bog ..	12.86	1.56	23	20	13.75
Headworks, R.C.C. ..	11.00	3.00	28	15	9.03	Bethel Town Dist. ..	8.13	1.35	31	21	16.37
Bog Walk ..	8.20	1.70	29	7	..	Burnt Ground ..	7.44	1.60	4	11	12.28
Linstead ..	9.86	1.75	13	15	9.46	Darliston ..	18.19	2.00	31	26	14.89
Ewarton ..	6.49	1.21	11	9	..	Bluefields ..	11.59	1.77	10	17	10.89
Cave Valley ..	4.61	..	..	..	9.81	Whithorn ..	11.92	2.30	5	9	12.70
Guanaboa Vale ..	..	..	..	..	..	Water Works Pen ..	9.73	2.35	17	15	11.31
Point Hill ..	..	..	..	..	14.43	Williamsfield, Wld. ..	9.09	3.20	31	18	..
Brown's Hall ..	10.53	2.40	13	13	12.12	Baulk ..	9.91	1.70	31	19	..
Bellas Gate ..	11.10	2.40	31	13	11.55	Askenish ..	15.63	3.09	21	11	14.36
Rock River ..	10.49	1.75	29	12	..	Grange Hill ..	9.93	2.24	31	16	12.85
Crofts Hill ..	14.47	4.25	21	15	10.10	Mount Eagle ..	10.00	2.43	31	16	..
Far Enough ..	..	..	..	..	..	King's Vale ..	6.56	2.80	21	9	9.27
Suttons ..	9.32	2.00	29	14	..						
Colonel's Ridge ..	7.17	1.15	29	20	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	6.68	1.31	29	10	12.13	Morant Point L. H. ..	14.15	2.90	28	14	11.35
Crooked River ..	6.77	1.55	13	16	..	Golden Grove ..	15.64	4.36	28	15	..
James Hill ..	8.89	1.61	31	12	..	Pleasant Hill ..	15.54	4.42	28	14	1.37
Frankfield ..	6.77	1.05	13	12	11.27	East Prospect ..	20.85	6.10	29	14	11.83
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	18.21	5.74	28	12	12.12
Moch, Clarendon ..	11.44	2.63	21	11	13.81	Aeolus Valley ..	23.21	6.54	28	14	..
Smithville ..	9.30	1.60	29	12	..	Yallahs ..	22.65	7.06	29	10	..
Clarendon Park ..	..	..	..	..	..	Easington ..	17.81	4.47	29	11	11.41
Porus ..	9.10	2.30	29	13	..	Llandewey ..	..	..	..	..	..
Borobridge ..	5.45	0.80	3	10	..	Mavis Bank ..	17.71	3.58	31	16	..
Spaldings ..	12.53	1.50	28	15	13.05	Bull Bay ..	5.55	0.86	29	11	7.33
Williamsfield ..	9.17	1.46	31	19	..	Dallas Castle ..	14.95	3.15	31	20	..
Brokenhurst ..	13.14	2.84	29	18	13.95	Gordon Town ..	14.05	3.60	31	17	12.24
Shooter's Hill ..	7.05	1.37	12	14	12.08	Irish Town ..	17.81	3.50	4	17	10.54
Wait-a-bit ..	10.83	1.70	16	16	..	Hope Gardens ..	10.64	2.30	28	15	9.68
Christiana ..	8.31	1.18	31	19	10.97	Waireka ..	..	..	..	..	..
Holmwood ..	..	..	..	..	..	Iver ..	12.76	3.77	31	21	..
Clifton Hill ..	13.13	2.05	29	15	15.41	Plumb Point L. H. ..	11.12	3.23	31	10	7.15
Kendal, Manchester ..	8.67	1.57	31	14	13.65						

STATIONS.	October, 1939.					STATIONS.	October, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar. ..	10.57	2.60	28	9	8.55	Newport, Man. ..	9.52	2.39	31	11	11.79
Up-Park Camp ..	11.01	2.80	28	13		Alligator Pond ..	10.42	3.70	31	11	7.49
Cavaliers ..	10.41	2.56	29	11		Fairfield ..	10.38	2.24	31	20	10.33
St. Georges College ..	9.93	3.31	28	10		Pepper ..					
Upper Kingston ..	10.31	3.28	28	13	6.22	Myersville ..					
Parade Garden ..	9.11	3.00	29	9		Goshen ..	7.66				
Kingston P.W.O. ..	9.09	2.28	28	14	7.10	Southfield, St. Eliz. ..	11.20				8.25
Constant Spring ..	10.57	1.85	2	20		Munro ..	8.35	2.02	29	17	
Halfway Tree ..	11.21	2.20	29	8	8.05	Windsor, St. Eliz. ..	11.60	2.75	31	21	
Clifton Pen ..	15.91	4.13	28	13	6.56	Torrington ..	9.45	2.08	29	9	10.09
Seaward Pen ..	8.95	2.45	31	9		Santa Cruz ..	9.83	1.40	31	20	11.93
Red Hills ..	18.18	2.14	28	21		Hounslow ..	10.28	2.25	21	12	
Quarantine Station ..	13.86	4.65	29	10	5.34	Pedro Plains ..	8.89	2.32	31	12	5.44
Hematine ..	9.63	1.96	28	16	6.86	Mountainside ..	15.22	3.07	31	17	7.87
Spanish Town ..	13.93	4.30	28	15	8.34	Fort Charles ..	6.27	2.34	29	14	
Hog Hole, St. Cath. ..	15.00	4.00	28	15	8.94	Black River ..	6.34	1.57	30	10	8.06
Old Harbour ..	13.82	4.04	28	13	9.50	Mt. Charles ..	12.54	1.89	30	19	
May Pen ..	13.07	3.25	29	16	9.90	Font Hill ..	9.40	2.30	20	9	8.81
Glen Muir ..	12.05	2.50	28	10		Mount Edgecombe ..	8.87	2.98	29	16	9.80
Cottage ..	14.98	5.54	28	7		Sav.-la-Mar ..	9.13	2.86	21	14	8.87
Belle Plain ..	14.81	4.30	29	12		Little London ..	12.69	2.64	31	14	10.50
Milk River ..	10.95	3.61	29	9	8.20	Retreat ..	8.48	2.00	30	15	10.10
Retrieve ..	10.50	1.50	29	16	9.44	Negril Point L. H. ..	5.63	1.41	31	10	8.21
Stone's Hope ..	8.21	2.70	31	18	12.14						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	October.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern ..	11.76	11.72	14	15
Northern ..	5.99	7.37	11	12
West-central ..	10.26	12.31	16	17
Southern ..	11.69	9.24	14	13
The Island means ..	9.93	10.21	14	14

SHOCKS OF EARTHQUAKE IN OCTOBER, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—OCTOBER.

The mean rainfall for the Island was slightly below the average. The North-Eastern and Southern Divisions were above and the Northern and Southern Divisions below their averages.

Heavy and continuous rains accompanied by high winds occurred during the last few days of the month, due to the proximity of a weather disturbance, and caused much damage to roads and cultivation.

The greatest total fall for the month was 28.71 inches at Fruitful Vale in the North-Eastern Division and the heaviest fall in 24 hours was 10.00 inches at Barretts Gap in the same division on the 29th.

The mean number of days on which rain fell was 14, which is the average for the month. Darliston, in the West-Central Division, with 26, had most.

The mean rainfall in each parish is given below, compared with the 10-year average. St. Thomas, with 19.71 inches, was highest; St. Andrew next with 14.34 inches, and Portland third with 11.80 inches. St. James, with 5.88 inches was lowest.

Parish.	1939.	10-year Average.	Parish.	1939.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	9.91	6.83	St. James	5.88	9.34
St. Andrew	14.34	12.11	Hanover	6.30	11.70
St. Thomas	19.71	14.56	Westmoreland	10.36	12.17
Portland	11.80	13.58	St. Elizabeth	11.01	12.17
St. Mary	8.15	9.17	Manchester	10.01	14.24
St. Ann	6.69	7.68	Clarendon	10.30	12.72
Trelawny	7.40	8.74	St. Catherine	10.40	10.73

## CITY OF KINGSTON.

The total rainfall for the month of October, 1939, was 9.09 inches (most of this rain fell between the 28th and 31st) as compared to the 60-year normal of 7.11 inches, or about 28% above the normal. There were fourteen days with appreciable rainfall as compared to the 49-year average of twelve. The greatest fall in 24 hours was 2.28 inches on the 28th. The upper boundary of Kingston gauged 10.31 inches with thirteen rain days. This preponderance of rain towards the close of the month is attributable to the development of a weather disturbance to the westward of Cayman Island. The October "Season" rains were therefore amply marked.

The days upon which distant rain was observed are as follows—To northward on 19, to northeast 11, to east 10, to southeast on 3, to south on 4 and northwest 11.

Distant lightning to north on 2 occasions, to northeast on 5, to east 2, to south 3, southwest 1 and to west 3.

Distant thunderstorm to north on 6 occasions, to northeast 2, to east 2, south 1 and northwest 3. Local thunderstorm on the 3rd.

The mean barometric pressure was 29.849 ins. the 33-year normal being 29.866. There was low pressure at the end of the month, which resulted in reducing the mean by 0.017 of an inch below the average. The highest barometer reading was 29.921 inches on the 18th at 3 p.m. and the lowest was 29.751 on the 14th at 3 p.m. This was more than a tenth of an inch below the normal, with no indication of a weather disturbance in the locality, the pressure rose in four days to 29.921 or 0.17 of an inch above the low. Readings all corrected for diurnal variation.

The mean monthly temperature was 80.7°, the 33-year normal being 79.4° or 1.3° above the normal, based upon four observations per day. The highest maximum was 94.0° on the 25th and the lowest minimum was 71.2° on the 11th, giving an extreme monthly range of 22.8°. On the other hand, the lowest maximum was 76.1° on the 29th and the highest minimum was 76.4° on the 20th. These figures are, nearly relatively, the same. The greatest daily range was 21.0° on the 24th, and the least was 3.0° on the 29th. The maximum was 90° and above seventeen times, and the minimum was above 70° throughout.

The mean daily number of miles of wind registered, was 134, as compared to the 25-year normal of 155, or about 14% below the normal. The greatest number of miles recorded in 24 hours was 193 on the 28th, and the least number of miles was 97 on the 27th. The greatest hourly velocity was 25 miles per hour on the 20th at 3.15 p.m. South-easterly wind blew early on one occasion, and did not continue after 7 p.m. at any time.

Mean relative humidity 80%, as against the 33-year average of 84%. The mean 7 a.m. was 85% and the mean 3 p.m. was 68%. The lowest 7 a.m. was 75% on the 7th and the lowest 3 p.m. 52% on the 20th.

Overcast conditions prevailed in the early forenoon on 10 occasions and in the afternoon on 22.

The mean daily number of sunshine hours was 7.0.

Total evaporation for the month of October was 4.47 inches, the 10-year normal being 4.05 inches.

A Lunar halo was seen on the 19th October.

## CAYMAN ISLANDS.

Government House, George Town, Grand Cayman. The total rainfall for the month of October was 11.32 in. Greatest fall in 24 hours was 3.31 inches on the 30th. Number of days with appreciable rain 19.

## WEATHER DISTURBANCE.

In the early afternoon of the 31st October, there were indications of a weather disturbance developing to the westward of Negril Point, when a pressure gradient, at 3 p.m., between Kingston and Negril showed 0.082 of an inch, with a southerly gale at Negril. Storm warnings were issued at 3.40 p.m. on the 31st, through the General Post Office, cautioning western parishes.

As this disturbance, after passing over the Cayman Islands at 11 p.m. on the 31st appeared over the western parishes of Jamaica at 9 a.m. on the 2nd November or about 40 hours after the warning, a detailed account will be compiled for the November Weather Report.

## CORRIGENDUM.

Weather Report 762, page 1, Morant Point Light House, Bar. Pressure 7 a.m. for .814 read .948; 3 p.m. for .809 read .910.

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,

October 20th, 1939.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
NOVEMBER, 1939.

The barometric pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew 32°, gravity at Lat. and mean sea-level. The bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

METEOROLOGICAL RESULTS.

STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)				Extreme Temperature (F.)					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	8	ins.	ins.	°	°	°	°	°	°	°	°	°	°
Kingston	24	29.899	29.844	79.3	81.5	83.7	75.8	7.9	86.9	16	70.9	15	16.0
Negril Point Light House	33	29.860	29.813	73.4	82.6	85.1	72.3	12.8	91.8	15	68.8	30	23.0
Montego Bay †	33	29.882	29.848	76.5	81.4	84.0	73.9	10.1	89.3	13	69.3	9	20.0
Castleton Gardens	496	..	..	75.8	82.8	85.6	72.1	13.5	92.9	12	68.0	30	24.9
Hope Gardens †	668	..	..	71.1	76.5	80.4	69.4	11.0	88.0	30	66.0	11*	22.0
Hill Gardens, Blue Mountains	4,900	..	..	71.3	78.8	82.7	69.1	13.6	89.0	16	66.0	30	23.0
				62.3	63.9	65.2	55.4	9.8	67.0	9*	55.0	3*	12.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.	7 a.m.	3 p.m.	L.	M.	U.	L.
Morant Point Light House	8	74	85	76	82	17.48	357	ENE	12.0	ENE	13.0	4.7	2.1	1.3	4.2	2.4	1.8
Kingston	24	70	91	73	75	25.97	161	NNE	5.8	SE	9.1	3.4	1.5	2.2	3.4	2.7	0.8
Negril Point Light House	33	74	92	76	85	9.55	233	NE	10.0	var.	13.0	3.5	1.0	2.2	4.6	0.9	1.5
Montego Bay	33	72	88	76	79	13.22	..	ESE	4.0	NE	12.0	..	..	..	..	..	..
Castleton Gardens	496	70	97	74	92	76.58	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	69	91	72	79	30.58	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	61	95	61	88	48.40	..	..	..	..	..	..	..	..	..	..	..

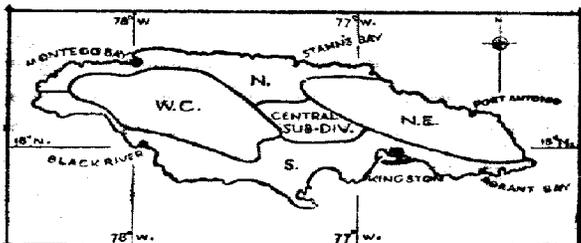
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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 Negrit; the North-eastern and West-central Divisions are the remaining parts of the Island bounded by the sea and the other Divisions.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



November, 1939.

STATIONS.	Total Fall.		Greatest fall in 24 hours.		Average.
	Ins.	Ins.	Amount.	Date.	
<b>NORTH-EASTERN DIVISION (N.E.)</b>					
Manchioneal	40.04	5.46	16	23	14.25
Priestman's River	32.59	5.40	17	21	11.66
Bath	37.61	10.20	2	20	14.24
Barrett's Gap	46.50	9.46	3	21	
Millbank	82.45	10.24	3	27	
Comfort Castle	94.92	10.40	17	27	
Moore Town	69.91	11.05	2	25	33.29
Port Antonio	32.90	7.55	18	25	16.98
Passley Garden	39.74	13.06	1	26	
Fellowship	65.28	14.60	17	28	25.41
Johnson River Br.	33.57	10.00	2	12	8.91
Trinity Ville					
Fruitful Vale	67.95	10.40	18	23	
Hope Bay	49.38	15.16	18	24	
Cedar Valley	65.70	28.54	2	16	12.08
Paradise	28.96	12.38	18	19	
Lennox	44.30	10.00	17	29	
Greenvale	69.96	8.77	2	28	33.76
Darley	45.70	13.04	18	30	
Spring Garden	37.29	8.56	17	22	13.01
Hill Gardens	48.40	6.25	3	28	15.57
Buff Bay	36.37	8.25	17	26	15.92
Buff Bay R. Est.	45.56	7.22	25	24	
Belvedere, Portland	50.97	7.12	17	25	15.52
Windsor Castle, do.	38.72	7.72	18	23	15.45
Balcarres	91.89	11.95	2	28	
Mt. Hoistein	71.83	12.00	4	28	30.39
Cedar Hurst	60.15	11.50	2	27	
Hardware Gap	58.56	15.18	2	30	16.76

STATIONS.	November, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	40.57	5.50	18	25	15.38
Mount Cressy	59.38	10.50	2		
Hermitage	36.21	10.45	2	23	
Mount Airy	38.72	6.07	2	22	
Stony Hill Ind. Sch.	29.82	5.64	18	22	8.19
Boon Hall	30.67	5.68	1	24	
Brandon Hill	30.67	5.72	2	26	
Enfield	58.97	6.72	2	24	
Agualta Vale	38.33	6.23	25	25	11.68
Castleton Gardens	76.58	14.50	2	27	16.40
Water Valley	28.71	4.50	25	25	10.84
Albany	23.91	2.84	2	26	11.16
Lawrence Tavern	24.93	8.12	2	18	9.69
Wey Hill	29.32	5.70	1	23	
Richmond, St. Mary	33.03	4.15	25	21	12.12
Quebec, St. Mary	22.19	4.50	17	20	9.79
Above Rocks	30.35	9.00	2	20	
Glengoffe	26.69	5.00	2	16	
Carew Castle					10.69
Hampstead, St. Mary	35.80	5.30	25	27	16.24
Windsor Castle do.	33.87	3.78	4	27	
Troja	30.36	4.50	6	15	
Pear Tree Grove	27.81	2.50	18	25	
Guy's Hill	28.50	4.50	7	22	10.74
Lucky Hill	32.45	6.17	25	26	14.78
Rio Hoe	18.36	4.00	2	21	10.78
Unity Valley	32.97	6.21	1		10.35
Moneague	20.17	2.85	1	23	11.84
Claremont	24.33	3.20	25	23	11.99
Averham Park					13.38
Albion	24.63	4.12	1	25	10.62
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	23.32	4.80	18	23	11.02
Wentworth					
Oracabessa	19.52	3.70	18	19	
Huddersfield	17.54	3.03	17	14	
Ocho Rios	18.34	2.90	18	21	9.50
Rockfield	31.38	6.30	25	22	15.09
Liberty Hill	6.32	1.03	8	22	11.06
St. Ann's Bay	20.72	3.80	8	26	9.58
Richmond Estate	11.39	2.20	8	22	9.64
Runaway Bay	13.74	2.70	18	13	3.98
Knapdale	32.84	6.90	25	23	
Alexandria	13.19	2.40	18	21	5.45
Bel-Air	25.30	4.55	8	20	
Brown's Town	37.36	5.26	25	23	11.23
Wilton	33.01	5.65	25	24	
Watt Town, St. Ann					5.15
Home Castle					9.00
Arcadia	24.39	4.40	25	22	7.50
Vale Royal	23.99	4.20	25	22	7.75
Harmony Hall					6.11
Duncans	18.04	2.03	1	17	
Clark's Town	24.24	4.14	25	19	
Falmouth	11.96	2.15	15	14	5.02

STATIONS.	November, 1939.					STATIONS.	November, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Ins.	Amount.					Date.	Ins.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	24.68	6.35	2	30	..	Mereworth ..	27.63	8.00	1	18	..
Barrett Hall ..	..	..	..	..	..	Mandeville ..	23.56	6.75	1	12	7.05
Success ..	..	..	..	..	5.22	Ulster Spring ..	21.29	5.50	2	21	7.30
Rose Hall ..	..	..	..	..	5.71	Greenvale ..	20.94	8.30	1	14	..
Cinnamon Hill ..	..	..	..	..	5.56	Albert Town ..	28.29	6.25	2	22	7.40
Tryall ..	..	..	..	..	4.30	Craig Head ..	30.62	8.00	2	14	..
Running Gut ..	..	..	..	..	5.21	Warsop ..	30.17	6.50	2	25	..
Spring Estate ..	..	..	..	..	5.74	Troy ..	20.30	6.75	2	17	7.07
Friendship ..	15.89	3.75	2	23	5.97	Wallingford ..	16.00	5.63	1	19	6.87
Retirement ..	14.44	4.71	2	17	6.54	Balaclava ..	15.17	5.40	1	12	5.93
Rose Mount ..	11.27	2.00	2	18	..	Braes River ..	..	..	..	..	..
Montego Bay ..	12.22	2.08	1	16	5.10	Wakefield ..	20.16	3.85	2	22	..
Anchovy ..	6.87	1.02	1	19	3.23	Aberdeen ..	13.24	5.13	1	13	..
Hopewell ..	13.76	3.35	1	21	..	Accompong ..	..	..	..	..	..
Blue Hole ..	10.30	1.85	14	17	8.07	Maggotty ..	12.76	5.98	1	12	6.81
Cascade ..	18.52	4.65	1	20	..	Lacovia ..	10.60	1.68	18	13	..
Lucea ..	10.13	3.00	1	18	5.82	Mulgrave ..	15.51	5.75	1	17	..
Haughton Court ..	12.01	4.25	1	16	4.58	Holland ..	..	..	..	..	..
Kendal—Hanover ..	15.41	3.84	2	17	..	Ipswich ..	..	..	..	..	..
Cousins Cove ..	..	..	..	..	..	Ginger Hill ..	13.81	5.00	1	12	..
Green River ..	11.44	4.12	1	18	..	Kempshot ..	22.10	7.54	2	23	6.70
Green Island ..	9.49	3.10	1	18	4.62	Mocho, St. James ..	36.30	9.25	1	14	..
Haughton Hall ..	7.88	1.80	8	..	..	Catadupa ..	18.35	5.05	1	14	8.01
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	16.17	5.25	1	18	8.53
Knollis ..	22.66	4.65	1	16	..	New Market ..	16.49	8.70	1	12	7.39
Highgate (St. Cath.) ..	24.94	5.35	18	26	..	Springfield ..	17.85	9.10	1	12	..
Rio Magno ..	20.24	1.90	18	21	..	Kew Park ..	16.98	6.05	1	16	5.66
Riversdale ..	19.21	2.70	1	15	..	The Bog ..	15.16	7.40	1	13	6.66
Headworks, R.C.C. ..	36.36	10.87	18	12	5.12	Bethel Town Dist. ..	22.66	8.43	1	23	7.50
Bog Walk ..	6.30	1.50	6	7	..	Burnt Ground ..	15.80	8.10	2	21	5.96
Linstead ..	24.80	6.50	18	15	6.47	Darliston ..	21.93	7.50	1	18	7.35
Ewarton ..	15.03	3.85	1	13	..	Bluefields ..	9.90	4.04	1	9	6.48
Cave Valley ..	17.55	4.05	2	17	5.30	Whithorn ..	..	..	..	..	6.06
Guanaboa Vale ..	19.39	4.05	18	13	..	Water Works Pen ..	10.53	3.60	1	13	4.90
Point Hill ..	24.86	5.89	18	23	10.01	Williamsfield, Wld. ..	..	..	..	..	..
Brown's Hall ..	33.18	8.90	1	14	10.46	Baulk ..	13.61	3.52	1	16	..
Bellas Gate ..	25.19	5.70	18	14	3.56	Askenish ..	20.15	5.20	1	16	5.04
Rock River ..	31.90	9.25	1	14	..	Grange Hill ..	13.32	3.82	1	15	5.66
Crofts Hill ..	33.43	8.42	1	20	6.40	Mount Eagle ..	16.50	3.96	1	17	..
Far Enough ..	33.23	8.44	1	23	..	King's Vale ..	6.92	2.00	1	14	5.05
Suttons ..	21.74	5.50	18	15	..						
Colonel's Ridge ..	23.36	8.00	1	22	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	24.23	7.68	1	17	4.83	Morant Point L. H. ..	17.48	4.00	2	21	7.97
Crooked River ..	19.60	5.51	18	13	..	Golden Grove ..	20.79	4.17	2	23	..
James Hill ..	21.35	6.05	1	18	..	Pleasant Hill ..	19.32	5.10	2	20	8.87
Frankfield ..	20.93	6.15	1	17	4.39	East Prospect ..	21.51	6.10	2	19	10.31
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	23.67	5.86	2	14	7.22
Mocho, Clarendon ..	14.62	5.29	19	7	5.67	Aeolus Valley ..	29.92	7.75	2	17	..
Smithville ..	26.57	8.00	1	16	..	Yallahs ..	23.93	5.21	2	14	..
Clarendon Park ..	..	..	..	..	..	Easington ..	31.90	7.82	2	14	5.38
Porus ..	20.52	7.15	18	14	..	Llandewey ..	..	..	..	..	..
Borobridge ..	17.20	4.85	1	17	..	Mavis Bank ..	53.71	20.60	2	22	..
Spaldings ..	26.90	6.90	1	17	4.88	Bull Bay ..	5.51	1.50	18	7	3.10
Williamsfield ..	20.17	6.42	1	15	..	Dallas Castle ..	36.47	11.31	2	25	..
Brookhurst ..	26.80	7.32	18	15	7.29	Gordon Town ..	44.66	14.57	2	21	9.01
Shooter's Hill ..	19.14	6.60	1	13	6.74	Irish Town ..	44.60	10.00	17	20	8.98
Wait-a-bit ..	28.21	6.00	1	21	..	Hope Gardens ..	30.58	6.84	18	20	5.80
Christiana ..	26.34	8.12	1	21	6.35	Waireka ..	..	..	..	..	..
Holmwood ..	15.02	8.71	18	17	..	Iver ..	..	..	..	..	..
Clifton Hill ..	31.64	8.62	1	11	5.44	Plumb Point L. H. ..	24.92	8.00	18	10	2.45
Kendal, Manchester ..	20.98	7.10	1	14	6.41						

STATIONS.	November, 1939.					STATIONS.	November, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	21.61	5.81	1	20	4.75	Newport, Man.	23.45	5.94	1	12	6.73
Up-Park Camp	27.15	8.05	18	16		Alligator Pond	14.05	3.50	18	9	3.55
Cavaliers	25.45	7.55	18	16		Fairfield					6.59
St. Georges College	27.90	7.76	18	15		Pepper					
Upper Kingston	30.38	7.85	18	18	2.52	Myersville					
Parade Garden	19.75	5.50	2	15		Goshen					
Kingston P.W.O.	25.97	9.20	18	17	2.92	Southfield, St. Eliz.					4.69
Constant Spring	30.26	8.97	2	20		Munro	15.58	4.41	18	18	
Halfway Tree	25.69	5.44	18	17	4.05	Windsor, St. Eliz.	21.55	7.50	1	18	
Clifton Pen	34.08	7.08	18	17	4.82	Torrington	15.39	5.30	1	8	6.57
Seaward Pen	23.91	6.20	18	11		Santa Cruz	18.65	6.80	1	15	6.09
Red Hills	25.56	5.50	1	21		Hounslow	13.28	3.87	1	11	
Quarantine Station	27.84	9.55	19	17	2.56	Pedro Plains	11.41	3.88	1	9	3.85
Hematine					3.67	Mountainside	15.22	5.30	1	14	5.83
Spanish Town	29.87	9.10	18	11	3.80	Fort Charles	8.70	3.70	18	6	
Hog Hole, St. Cath.	32.97	9.62	18	12	4.60	Black River	11.77	3.90	1	13	4.36
Old Harbour	34.19	11.50	18	11	4.67	Mt. Charles	12.33	4.75	1	12	
May Pen	23.89	9.65	18	15	4.60	Font Hill	12.05	4.25	1	9	4.82
Glen Muir	24.30	10.00	18	12		Mount Edgecombe	9.17	2.96	1	12	4.92
Cottage	20.33	8.60	18	8		Sav.-la-Mar	9.78	3.70	1	11	3.67
Belle Plain	30.33	11.55	18	12		Little London	12.17	3.82	1	13	3.98
Milk River	19.57	6.20	1	9	5.12	Retreat	9.84	3.95	1	13	4.60
Retrieve	9.51	1.40	1	11	5.22	Negril Point L. H.	9.55	3.50	1	13	3.83
Stone's Hope	23.02	6.03	18	13	5.58						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	November.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	40.18	15.52	24	16
Northern	19.62	6.42	19	11
West-central	18.94	6.21	16	11
Southern	21.52	5.01	13	9
The Island means	25.07	8.29	18	12

SHOCKS OF EARTHQUAKE IN NOVEMBER, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
		None reported.	

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—NOVEMBER.

The mean rainfall for the Island, 25.07 inches, was about three times the average.

Due to a tropical disturbance which passed in the proximity of the western end of the Island, very heavy and continuous rains fell during the first week of the month and particularly on the 1st and 2nd, causing considerable damage to roads and crops. Heavy rains again fell on the 17th and 18th, due to another disturbance in the vicinity of the north-west of the Island.

The greatest total fall for the month was 94.92 inches at Comfort Castle in the North-Eastern Division. Other large totals were:—91.89 inches at Balcarres, 76.58 inches at Castleton, 71.83 inches at Mount Holstein all in the North-Eastern Division. Several other stations received totals of over 60.00 inches.

The heaviest fall in 24 hours was 20.60 inches at Mavis Bank in the Southern Division on the 2nd. Several stations recorded falls of over 10.00 inches in 24 hours.

The mean number of rain days was 18, the average for the month being 12. Darley and Hardware Gap in the North Eastern Division, had rain on all 30 days of the month.

The mean rainfall in each parish is given below. Compared with the 10-year average. Portland with 54.38 inches, was highest; St. Andrew with 34.30 inches second; and St. Mary, with 33.82 inches third. Hanover with 12.65 inches, was lowest.

Parish.	1939 Inches.	10-year Avg. Ins.	Parish.	1939. Inches.	10-year Avg. Ins.
Kingston ..	25.78	3.10	St. James ..	17.93	7.31
St. Andrew ..	34.30	11.56	Hanover ..	12.65	6.60
St. Thomas ..	31.04	9.68	Westmoreland ..	13.53	5.32
Portland ..	54.38	26.04	St. Elizabeth ..	14.37	5.68
St. Mary ..	33.82	14.21	Manchester ..	22.09	6.11
St. Ann ..	22.45	10.07	Clarendon ..	24.07	5.26
Trelawny ..	22.82	7.73	St. Catherine ..	25.50	7.58

## CITY OF KINGSTON.

The rainfall for the month of November was excessive, being 25.97 inches, or about nine times that of the 60-year normal of 2.92 inches. This phenomenal November record represents next to the highest of 30.45 inches in November, 1909, and occupies the 5th place in the order of greater falls during the past 70 years (ranging from 28.66 inches in May, 1888, to that of 30.67 in October, 1879). The greatest fall in 24 hours for November, 1939, was 9.20 inches on the 18th, followed by 4.55 inches on the 2nd. There were 17 days with rain compared to the 49-year average of 8. The upper boundary of Kingston had somewhat greater precipitation (30.38 inches,) the fall on the 1st being more than that at the Public Works Building. Most of this heavy rainfall was confined to the first two days and to the 18th and 19th. This high record occurred at the time of passing weather disturbances, nearly up to hurricane force on the 2nd, north of Jamaica.

The number of days upon which distant rain was observed is as follows:—To northward on 12, to NE on 11 to east on 5, to southeast on 5, to south on 6, to southwest and west 5 each, and to NW 6.

Distant lightning in the evening to NE and to south once each.

Distant thunderstorm to north, 5 times; to NE, twice; to south, 4; to SW, twice; and to west, once.

Local thunderstorm on the 8th and 18th.

The mean barometric pressure was 29.848 inches, the 33-year normal being 29.892 ins., or 0.044 inch below. Highest reading 29.955 inches on the 26th at 7 a.m., and the lowest was 29.571 inches on the 2nd at 9 a.m. (when the tropical disturbance was passing the Meridian north of Kingston). Readings corrected for Diurnal variation.

Mean Temperature for the month was 77.8°, based upon four observations per day, as against the 33-year normal of 78.3° or 0.5° below the normal. The extreme maximum was 91.8° on the 15th and the extreme minimum was 68.8° on the 30th, giving a maximum monthly range of 23.0°. On the other hand the lowest maximum was 73.1° on the 19th, and the highest minimum was 74.6° on the 15th. The maximum was 90° and above on three occasions, and the minimum was below 70° on three occasions. The greatest daily range was 19.2° on the 25th and the least range was 2.6° on the 19th during heavy rain.

The mean daily miles of wind registered was 161 as compared to the 25-year normal of 141, shewing an excess of about 14%. The greatest number of miles recorded was 710 on the 2nd during a passing weather disturbance, and the least was 96 on the 4th. Maximum velocity 42 m.p.h on the 2nd at 7.15 a.m. Southeasterly wind early once, and continued after 7 p.m. twice. Rainsquall on 21st at 11.10 a.m.

The mean relative humidity was 86%, the normal being 82% or about 4% above the normal. The mean 7 a.m. was 91% and the mean 3 p.m. 75%. Lowest 7 a.m. 80% on the 24th and lowest 3 p.m. 53% on the 16th.

Overcast conditions prevailed in the early forenoon on 21 occasions and in the afternoon on 27 occasions.

The total evaporation for the month of November was 2.33 inches, as compared to the 10-year normal of 3.55 ins.

The mean daily number of sunshine hours was 5.1.

## WEATHER DISTURBANCES.

In the region of the Caribbean Sea, over a long period of years, the months of August, September and October shew a mean maximum of hurricane activity as compared to the remaining months in the year. Attention is therefore directed to the fact, that up to the last day of October, 1939, there was a pronounced absence of any weather disturbance, of a threatening tendency, throughout this area.

It was not until the forenoon on the 31st October, that the barometric pressure indicated a fall of less than a tenth of an inch (0.08 inch). The gradient between Kingston and Negril Point gradually increased,

until at about 3 p.m. Negril Point gave a reading of 29.717 inches, equivalent to 0.142 inch below normal and about 0.08 inch lower than Kingston. There was wind at Negril Point of gale force (40 m.p.h) and heavy seas were also reported. This revealed very disturbed weather to westward. A weather warning at 3.40 p.m. on the 31st October was then telegraphed around the Island advising caution.

A broadcast message was received from Washington, U.S.W.B., on 31st October at 9.40 a.m. as follows:—  
 "Weather disturbed area now extending slowly north-northeastward, and now extends from southern Florida to the northwest Caribbean, with lowest pressure a short distance to the north of Swan Island. It is attended by fresh to strong winds and squalls. Caution advised small crafts over NW Caribbean, western Cuba waters and around the Florida Coast until conditions improve".

As up to that time the disturbance, according to the U.S.W.B., was apparently threatening western Cuba, and not Jamaica, and this notice, if circulated, would be somewhat confusing, it was detained, for the reason that the indications, as arrived at by the Kingston and Negril Point observations, clearly shewed that a weather disturbance was developing not too far to the west of Negril Point, Jamaica, and warranted a notice by the Jamaica Weather Service. At 3.40 p.m. on Tuesday, the 31st October, through the General Post Office, and telegraphed to all stations, the following warning was despatched: "From local observations disturbed weather conditions prevail near westward of Negril Point. Caution advised western parishes next 24 hours".

Special cable messages were also despatched from Kingston to Washington at 9 a.m. and at 3 p.m. on the 31st October, pointing out threatening conditions near Jamaica.

At 5.15 p.m. on the 31st October, a broadcast warning was received from the U.S.W.B. somewhat revising the wording of the earlier one, and stated, "Tropical disturbance apparently central 1 p.m. near Grand Cayman, moving slowly northeastward, attended by strong wind probably reaching gale force near to centre.

A later message from Washington, received on the 1st November located the centre as about 50 miles to the ENE of Grand Cayman, moving towards ENE about 12 miles per hour, with wind of hurricane force near to centre. It was further estimated to be moving near Manzanillo, SE Cuban Coast, or about 140 miles northward of the northern coast of Jamaica.

This storm pursued an easterly course between Cuba and Jamaica coursing around SE Cuba with diminished intensity towards the Atlantic Ocean near to Bermuda.

The greatest falls of the barometer, at the western section of Jamaica were as follows:—

Negril Point 1st November, 1 p.m. 29.590 inches or 0.279 inch below normal.  
 Kempshot 2nd November, 9 a.m. 29.310 inches or 0.559 in. below normal.  
 Rosemount (Montego Bay) 2nd November, 8 p.m. 29.200 inches or 0.669 inch below the normal.

The Montego Bay barometric pressure, nearest to the storm centre indicated about two-thirds of an inch below the October normal of 29.869 inches. It is quite evident that had the barometric pressure fallen one inch below the normal, the force of wind would very likely have attained hurricane force at that section of the Island. Consequently, the disturbance as felt ashore may have attained a wind velocity of about 70 miles per hour at certain limited points along NW Jamaica. A wind of gale force would be sufficient to entail general destruction of banana cultivation and damage frail structures, with the heavy seas affecting small crafts.

It must be emphasized that this weather disturbance, definitely, organized during the 31st October to the west of Cayman Islands, and passed near to Cayman at about 11 p.m. on the 31st October, then appeared to the north of Montego Bay on the 2nd November at about 9 a.m.

The warning issued from Kingston advising caution was 40 hours in advance of the time of arrival of the storm centre near to western parishes. When warned it was seven hours before it was near to Cayman or about 400 miles to the westward of Jamaica.

This storm track, so far as can be estimated, commenced with mild wind to the north of Swan Island, then pursued ENE towards Cayman Islands, then between Cuba and Jamaica, diminishing in intensity along SE Cuba, until it reached a point in the vicinity of Bermuda, and lost its identity in the Atlantic.

Excessive precipitation in Jamaica, occurred from the last days of October to the middle of November. The November Island mean rainfall registered three times that of the 60-year normal. The area of greatest rainfall was confined to NE portion in Portland, where this parish reached a phenomenal mean of over 54 inches for the entire month of November. The sections of country to the extreme west shewed much less rainfall, Hanover giving 12.65 inches or one quarter that of Portland. The middle parishes ranged from about 14 inches to 34 inches.

Acknowledgement is herein recorded of the valuable detailed reports of barometric pressure and wind velocity, made at the time of this weather disturbance, received from:—

Mrs. C. M. Stillwagon	Kempshot
Mr. Septimus Nash	Mount Pleasant (Black River)
Mr. Edward Foster	Rosemount
Supt. Negril Point Light House, and	Negril Point
Morant Point Light House	Morant Point.

The following are abbreviated Tables made from data supplied by the respective observers:—  
Kempshot (about 4 miles to the SE of Montego Bay) supplied by Mrs. C. M. Stillwagon:—

Date.	Hour.	Barometer.	Wind and conditions of weather. *
1939		ins.	
Oct. 31	7 a.m.	29.785	South wind. Rainsqualls.
" 31	11 a.m.	29.742	South wind. Fracto-Stratus clouds from south.
" "	3 p.m.	29.724	South wind strong. Strato-Cirrus southwest.
" "	7 p.m.	29.691	South wind. Rainsqualls.
Nov. 1	7 a.m.	29.709	South wind light. Rainsqualls and fog.
" "	11 a.m.	29.721	South wind. Fracto-Stratus clouds from SW.
" "	3 p.m.	29.727	Southwest wind. Stratus from SW
" "	7 p.m.	29.682	South wind. Fog and rain.
" "	11 p.m.	29.630	South wind strong. Rain and wind in gusts.
Nov. 2	3 a.m.	29.530	South wind strong.
" "	7 a.m.	29.400	Southwest full force. Heavy rain.
" "	9.10 a.m.	29.310	Southwest. Violent gusts of wind.
" "	9.30 a.m.	29.340	Southwest. Torrential rain
" "	11 a.m.	29.390	West-southwest wind. Strong torrential rain.
" "	3 p.m.	29.460	Northwest. Strong.
" "	5 p.m.	29.520	Northwest. Strong.
Nov. 3	8.30 a.m.	29.690	North wind strong. Rainsqualls.
" "	3 p.m.	29.679	North wind strong. Fog and rain.
Total rainfall on 2nd., 7.54 inches.			

Barometer readings corrected for Diurnal variation.

Lowest barometer on November 2nd at 9.10 a.m.—29.31 inches.

Rose Mount (to the east of Montego Bay) supplied by Mr. Edward Foster, F.S.I.

Date.	Hour.	Barometer.	Date.	Hour.	Barometer.
1939		ins.	1939		ins.
Oct. 31	7 a.m.	29.71	Nov. 2	9.15 a.m.	29.30
" "	3 p.m.	.62	" "	11 a.m.	.32
" "	6 p.m.	.64	" "	Noon	.32
" "	8.30 p.m.	.66	" "	1 p.m.	.32
" "	10 p.m.	.65	" "	2 p.m.	.33
" "	12 midnight	.66	" "	3 p.m.	.37
Nov. 1	6 a.m.	.64	" "	4 p.m.	.42
" "	7 a.m.	.66	" "	5 p.m.	.48
" "	10 a.m.	.69	" "	6 p.m.	.51
" "	12.30 p.m.	.66	" "	7 p.m.	.52
" "	3 p.m.	.61	" "	9 p.m.	.58
" "	8 p.m.	.61	" "	10 p.m.	.57
" "	11 p.m.	.55	" "	11 p.m.	.58
Nov. 2	1 a.m.	.51	Nov. 3	3 a.m.	.52
" "	2 a.m.	.47	" "	4 a.m.	.52
" "	3 a.m.	.47	" "	5 a.m.	.52
" "	4 a.m.	.41	" "	6 a.m.	.54
" "	5 a.m.	.37	" "	8 a.m.	.57
" "	6 a.m.	.36	" "	9 a.m.	.59
" "	7 a.m.	.31	" "	10 a.m.	.60
" "	8.10 a.m.	29.20	" "	11 a.m.	29.59

The above are barometer readings sea level, and not corrected for Diurnal variation.

Piercest winds from the south and southwest. Serious damage to trees. Lowest barometer reading on November 2nd at 8.10 a.m. 29.20 inches.

Mount Pleasant (6 miles to north of Black River), St. Elizabeth and about 650 feet above sea level. Supplied by Mr. Septimus Nash of Black River. Normal barometer 29.120 inches.

Date.	Hour.	Barometer.	Wind Dir.	Estimated velocity(m.p.h.)	Remarks.
1939		inches			
Nov. 1	11.30 p.m.	28.70	SW	30 to 40	Heavy showers and gusty
" 2	1.15 a.m.	.65	SW	30 to 40	do. do.
" "	9 a.m.	.60	SW	40 to 60	do. do.
" "	11.40 a.m.	.58	SW	40 to 60	Foggy
" "	Noon	.58	SW	30 to 40	Light rain.
" "	2 p.m.	.52	SW	25 to 30	do. do.
" "	3.50 p.m.	.50	do.	25	do.
" "	5.40 p.m.	.60	do.	Light	do.
" "	6.30 p.m.	.60	do.	do.	do.
" "	11.50 p.m.	.65	do.	do.	Light rain and foggy.
Nov. 3	3.40 a.m.	.60	SW	do.	do. do.
" "	9.40 a.m.	.50	do.	Calm	

Barometer not corrected for Diurnal variation nor for elevation. Lowest pressure observed on November 2nd. at 3.50 p.m. and on the 3rd at 9.40 a.m., 28.50 inches.

Negril Point Light House (extreme west of Jamaica) Superintendent of Light House.

Date.	Hour.	Barometer.	Wind		Conditions of Weather.
			Dir.	M.P.H.	
1939.		inches.			
Oct. 31	7 a.m.	29.780	S	12	10 Nimbus south. Rain.
" "	3 p.m.	.733	S	40	Strong Gale. 7 Stratus south.
" "	6 p.m.	.724	S	50	Heavy sea. Stratus south.
Nov. 1	1 a.m.	.692	S	50	Strong gale. Stratus south.
" "	7 a.m.	.708	W	45	Heavy sea. Rain. Heavy
" "	10 a.m.	.723	W	45	10 Nimbus west. Rain. Heavy
" "	3 p.m.	.714	W	45	sea. 10 Stratus west. Rain. Heavy
Nov. 2	7 a.m.	.544	WNW	60	sea. 10 Stratus west. Rain. Heavy
" "	9.30 a.m.	.556	NW	50	10 Stratus. Rain squalls.
" "	3 p.m.	.616	NNW	45	do. Rain.
" 3	7 a.m.	.640	N	30	10 Stratus. Rain squalls.
" "	3 p.m.	.679	NNW	30	7 Stratus north. Squally.
" 4	7 a.m.	.684	NNW	20	9 Stratus north, squally.
" "	11 a.m.	.707	N	20	5 Stratus
" "	3 p.m.	29.728	NNW	35	2 Stratus NNW partly cloudy.

The barometer readings are also corrected for Diurnal variation. Lowest barometer reading 29.54 inches on November 2nd, 7 a.m.

## Morant Point Light House (extreme east of Jamaica) Superintendent of the Light House.

Date.	Hour.	Barometer.	Wind Velocity		Conditions of Weather.
			Dir.	M.P.H.	
1939		inches.			
Oct. 31	7 a.m.	29.809	calm	—	10 lower clouds from SE— showery.
" "	3 p.m.	.806	SW	8	10 lower clouds from SW— showery.
Nov. 1	7 a.m.	.787	calm		7 cloud 6 SW. 2 cloud— 5 showery.
" "	3 p.m.	.688	calm		10 cloud. 6 SW.
Nov. 2	7 a.m.	.767	SW	15	10 lower clouds SW—Rainy. Sea—moderate
" "	3 p.m.	.701	SW	25	9 lower clouds SW—Showery
Nov. 3	7 a.m.	.652	SW	25	8 lower clouds SW—Heavy sea.
" "	3 p.m.	.657	SW	30	7 lower clouds SW—Heavy Sea and showery.
" "	6 p.m.			45	
Nov. 4	7 a.m.	.673	SW	8	7 lower clouds SW—Sea calm, showery.
" "	3 p.m.	.687	SW	10	Lower cloud. SW fine.

The barometer readings are also corrected for Diurnal variation. Lowest barometer reading 29.652 on November 3, at 7 a.m.

## Kingston—Government Meteorologist.

Date.	Hour.	Barometer.	Wind		Conditions of Weather.
			Dir.	Vel.	
1939		ins.			
Oct. 31	7 a.m.	29.788	NW	3	10 Nimbus W. Heavy rain and distant thunder.storm.
" "	11 a.m.	.778	SE	10	10 Cumulo-Nimbus south.
" "	3 p.m.	.801	SW	10	10 Nimbus and Cumulo-Nimbus south, thunderstorm to south.
" "	7 p.m.	.791	E	6	10 Nimbus south.
" "	11 p.m.	.760	S	10	Cloudy.
Nov. 1	5 a.m.	.769			
" "	7 a.m.	.746	E	6	8 Cumulos NW. Rain midnight to 4.30 a.m.
" "	11 a.m.	.747	SE	6	Light Rain
" "	3 p.m.	.775	SE	7	10 Nimbus SW.
" "	7 p.m.	.740	SE	4	10 Nimbus South.
Nov. 2	6 a.m.	.729	SE	23	Cloudy.
" "	7 a.m.	.700	SE	30	10 Nimbus. SE rain from 2.30 a.m. Thunderstorm to south.
" "	7.15 a.m.		SE	42	Highest velocity of wind.
" "	11 a.m.	.672	SE	30	10 Nimbus. Rain.
" "	3 p.m.	.633	SE	25	10 Nimbus. SSE rain.
" "	7 p.m.	.594	S	30	10 Nimbus. South. Rain.
" "	9 p.m.	.571	S	24	Lowest barometer.
" "	11 p.m.	.582	SW	36	
Nov. 3	7 a.m.	.608	S	20	10 Nimbus
" "	10 a.m.	.618	SW	16	
" "	3 p.m.	.636	SW	12	10 Nimbus and Cumulo-Nimbus SW.

Barometer readings also corrected for Diurnal variation. Many intermediate readings omitted in Table. Lowest barometer reading on November 2nd at 9 p.m. 29.571 ins.

From the foregoing sets of tabulated observations made in Jamaica, taking the data supplied from stations at the extreme west (Negril Point) and successively followed to Montego Bay, Kempshot, Kingston and to Morant Point (extreme east), there is sufficient evidence produced from the times given of the lowest readings of the barometer, supported by the times of the highest wind velocity, to conclude that the storm centre, if it really followed a course running from due west to eastward, must have attained a very slow progressive movement of about 6 to 7 miles per hour, from its location at the meridian line of Negril Point to that at Morant Point, in its track, when coursing between Cuba and Jamaica.

Then also, the advancing movement from Cayman Islands, where the centre arrived at 11 p.m. on 31st October to 7 a.m. on the 2nd of November, when the storm centre was to the north of Negril, gives 32 hours. The distance from Cayman to Negril Point may be taken as 220 miles, and the time of travel between these points of the storm centre was 32 hours, we derive a speed of progress of  $6\frac{1}{2}$  miles per hour, which corresponds with the preceding figures, and reveals an exceptionally slow rate.

From Press reports appearing, it is stated that the Cayman Islands, which were near the storm centre, experienced severe damages to their agricultural crops, many small craft were wrecked and the S.S. "Cimboco" had to delay her voyage from Grand Cayman to Kingston, but nevertheless encountered wind of gale force arriving at Kingston on the 14th November.

In Jamaica the damages arising from this storm to agriculture, particularly the banana cultivations, were immense, and as the wind may have reached high gale force along the north coast, several frail structures collapsed and huts of the peasantry in some areas were blown down. A few large trees were uprooted. Some small craft suffered.

A considerable portion of the damages to crops must be attributable to the excessive rainfall in most of the parishes.

#### WEATHER DISTURBANCE OF 19TH NOVEMBER.

On the 18th November the barometric pressure at Kingston shewed a tendency to fall slightly and in the forenoon of the 18th, Negril Point telegraphed weather conditions as rough seas and wind of 20 miles per hour, with rain. On Sunday 19th, the pressure continued to fall, at Kingston, and in the afternoon was about half a tenth inch below normal. There was heavy rainfall on the 18th, Kingston gauging 9.20 inches and on the 19th 4.47 inches.

A warning was issued in the afternoon at 4.15 p.m. on 19th, stating "Local observations indicate a weather disturbance developing to the westward of Negril. Caution advised next 30 hours, especially western parishes".

On the 20th at 7 a.m. Negril reported barometer 29.83 inches—wind SE, 8 miles per hour, overcast with rain and rough sea continues, and at 3 p.m. the pressure rose slightly but rough sea unabated.

On the same date, at Kempshot in St. James, Mrs. Stillwagon noted low pressure at 6 a.m. on the 20th, when at 10 a.m. the lowest barometer reading was 29.822 inches, with scud from the south—the wind was SE, fresh. Kempshot pressure increased to 29.878 inches at 9 p.m. the same day. But on the 21st at 9 a.m. the pressure again lowered to 29.810 inches and started to increase to 29.867 inches by 6 p.m. At 7 a.m. on 21st Negril Point gave a pressure of 29.792 inches, wind east 4 miles per hour—overcast, sea slightly heavy.

There was heavy rainfall at most places over the Island at this time.

From all the evidence available it would appear there existed an extended area of low pressure to the westward of Negril Point moving somewhat north easterly around the NW coast of the Island towards Cuba. For according to a "Daily Gleaner" published interview, of the 21st November with Mr. Brandt and Mr. Douglas Bell of the United Fruit Co., who arrived by P. A. Plane, "Cuba had not suffered from storms, but heavy rains had wrought considerable damage. One of the big bridges near Santiago de Cuba had been destroyed. As a result, trains for the interior had been held up".

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,  
December 20th, 1939.



JAMAICA

# WEATHER REPORT.

FOR THE MONTH OF

DECEMBER, 1939.

The barometric 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 bar. at Hill Gardens is reduced to the first two standards only. Thermometers are exposed in Stevenson's Screen; 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 four cup instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower (L) clouds are for the most part fracto-stratus; the Middle (M) cloud cumulus and the Upper (U) clouds, cirrus and cirro-stratus

The rainfall is measured at 7 a.m., and entered as having fallen on the previous day.

The 75th Meridian Time West of Greenwich adopted from 1st February, 1912.

METEOROLOGICAL RESULTS.

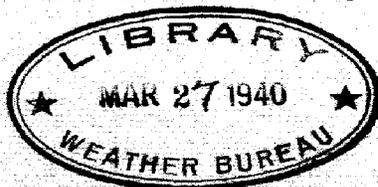
STATIONS.	Elevation.	Bar. Pressure		Temperature. (F.)					Extreme Temperature (F.)				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
		ins.	ins.	°	°	°	°	°	°	°	°	°	°
Morant Point Light House	8	29.992	29.946	79.0	80.5	83.1	77.2	5.9	87.0	21	72.9	31	14.1
Kingston	24	29.949	29.902	71.6	83.5	85.1	70.9	14.2	88.3	7	68.1	1	20.2
Negril Point Light House	33	29.970	29.928	74.5	81.9	84.1	71.8	12.3	88.3	1	67.3	7*	21.0
Montego Bay †	33	..	..	72.1	84.7	87.2	69.2	18.0	90.5	2	61.5	31	29.0
Castleton Gardens	496	..	..	69.2	77.1	79.5	67.2	12.3	86.0	29	62.0	2	24.0
Hope Gardens †	668	30.002	29.928	69.7	80.7	84.3	67.6	16.7	87.0	15*	65.0	23	22.0
Hill Gardens, Blue Mountains	4,900	25.287	25.256	62.80	64.1	65.8	54.8	11.0	70.0	30	54.0	1*	16.0

STATIONS.	Elevation.	Dewpoint and Rel. 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.		
		°	%	°	%	%			Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L.	M.	U.	L.	M.
Morant Point Light House	8	72	80	73	79	5.98	342	ENE	10.0	ENE	10.0	3.5	2.1	2.9	3.6	2.1	2.0	
Kingston	24	68	88	72	70	0.52	137	N	4.8	SE	8.4	1.7	0.5	5.2	4.4	1.2	2.2	
Negril Point Light House	33	72	89	76	82	1.18	130	NE	3.0	var.	5.0	2.4	1.1	3.5	3.5	0.8	2.2	
Montego Bay	33	69	90	77	78	2.85	..	NE	3.0	NE	7.0	..	..	..	..	..	..	
Castleton Gardens	496	64	85	74	87	7.88	..	..	..	..	..	..	..	..	..	..	..	
Hope Gardens	668	66	88	72	74	2.51	..	..	..	..	..	..	..	..	..	..	..	
Hill Gardens, Blue Mtns.	4,900	61	91	61	81	4.64	..	..	..	..	..	..	..	..	..	..	..	

\* And on other days.

† Hope Gardens—observations made at 9 a.m. and 3 p.m.

‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

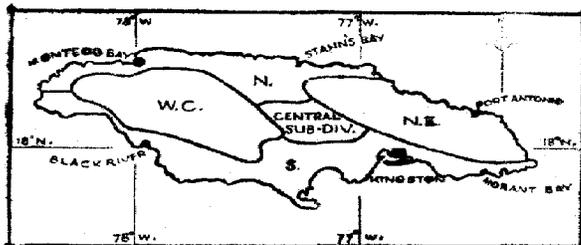


THE RAINFALL.

THE first four columns contain all the information relating to the Rainfall for the month received for publication up to the time of sending this report to press; the last columns contain the corresponding Rainfall average for the month according to "The Rainfall of Jamaica from about 1870 to the end of 1929." In obtaining the mean rainfall for the month only those stations are considered for which the average Rainfall has been also given in the last columns that the results derived from these two columns are comparable for each Division. These results are given 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 shore 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.

A Map showing these Rainfall Divisions is published in Mr. Maxwell Hall's "Rainfall of Jamaica," following page 27, 1911 Edition, and of page 33 of 1934 Edition, an outline of which is given below.



STATIONS.	December, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioneal	11.87	4.14	31	11	7.25
Priestman's River	8.30	3.30	19	8	5.59
Bath	11.38	3.39	31	14	8.68
Barrett's Gap	12.71	2.50	20	17	
Millbank	32.46	8.76	5	20	
Comfort Castle	34.04	9.30	5	26	
Moore Town	27.08	4.00	4	24	23.75
Port Antonio	8.00	1.60	20	11	12.43
Passley Garden	7.50	1.48	21	13	
Fellowship	18.82	2.50	16	20	18.25
Johnson River Br.	3.60	1.95	19	5	4.73
Trinity Ville	2.29	1.21	19	3	
Fruitful Vale	31.18	4.22	12	20	
Hope Bay	8.76	1.68	5	17	
Cedar Valley	1.89	0.59	9	7	4.29
Paradise	11.80	1.70	16	22	
Lennox	23.90	4.20	5	17	
Greenvale	24.81	7.90	7	20	22.57
Darley	16.11	2.60	5	19	
Spring Garden					8.06
Hill Gardens	4.64	1.56	16	7	9.68
Buff Bay	10.19	1.97	16	19	11.80
Buff Bay R. Est.	25.13	3.30	15	20	
Belvedere, Portland	20.53	3.63	16	17	13.85
Windsor Castle, do.	8.63	2.36	16	19	11.68
Balcarres	34.22	8.00	7	22	
Mt. Holstein	10.51	1.49	10	26	19.56
Cedar Hurst	8.65	2.42	10	21	
Hardware Gap	4.29	2.20	20	14	6.29

STATIONS.	December, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	2.66	0.75	20	13	5.06
Mount Cressy	10.35	2.10	9		
Hermitage	2.79	1.45	7	12	
Mount Airy	5.78	1.98	9	9	
Stony Hill Ind. Sch.	3.91	1.26	10	14	3.81
Boon Hall	1.68	0.61	9	16	
Brandon Hill	5.03	0.73	12	18	
Enfield	29.17	6.00	6	20	
Agualta Vale	7.09	2.33	16	14	9.48
Castleton Gardens	7.88	1.43	7	14	12.78
Water Valley	7.90	1.65	16	13	9.46
Albany	7.16	1.20	21	18	9.41
Lawrence Tavern	1.65	0.69	9	4	4.36
Wey Hill	3.58	0.70	8	10	
Richmond, St. Mary	8.48	2.00	7	15	9.83
Quebec, St. Mary	6.09	1.20	22	15	9.47
Above Rocks	2.53	0.67	8	9	
Glengoffe	1.25	0.50	9	3	
Carew Castle	1.42	0.39	10	3	4.70
Hampstead, St. Mary	9.70	4.00	16	17	11.86
Windsor Castle do.	8.16	1.62	14	19	
Troja	7.76	3.95	7	7	
Fear Tree Grove	6.90	3.55	7	20	
Guy's Hill	7.03	1.48	14	17	7.42
Lucky Hill	7.29	2.00	16	9	10.23
Rio Hoe	3.23	0.75	7	17	8.45
Unity Valley	2.45	0.53	16	15	7.25
Moneague	2.92	0.50	16	12	7.25
Claremont	3.48	1.10	16	13	7.78
Averham Park	5.49	1.50	17	22	10.25
Albion	3.04	0.75	16	17	7.86
<b>NORTHERN DIVISION (N).</b>					
Port Maria	5.93	1.45	5	20	7.05
Wentworth					
Oracabessa	5.23	1.07	16	10	
Huddersfield	4.53	1.30	31	7	
Ocho Rios	5.89	1.71	31	17	6.62
Rockfield					9.39
Liberty Hill	1.96	0.75	16	9	7.86
St. Ann's Bay	8.61	2.38	31	15	7.25
Richmond Estate	3.77	1.50	16	11	7.92
Runaway Bay	4.72	1.25	16	10	3.39
Knapdale	6.98	2.27	7	15	
Alexandria	0.68	0.15	31	6	2.67
Bel-Air	5.80	1.90	16	13	
Brown's Town	4.66	2.29	7	13	8.42
Wilton	6.66	2.65	16	13	
Watt Town, St. Ann	6.43	0.95	2	13	2.06
Home Castle	3.05	0.80	7	7	7.53
Arcadia	3.86	1.55	16	13	6.65
Vale Royal	3.66	1.16	16	11	7.38
Harmony Hall	5.42	2.22	31	10	5.85
Duncans	4.07	2.07	31	6	
Clark's Town	2.87	0.76	23	6	
Falmouth	2.30	0.47	11	9	4.53

STATIONS.	December, 1939.					STATIONS.	December, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Ins.	Amount.					Date.	Ins.		
<b>NORTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi	1.20	0.32	31	6		Mereworth	1.59	0.40	20	10	
Barrett Hall						Mandeville	2.12	1.00	4	8	2.95
Success					3.95	Ulster Spring	0.50	0.20	16	4	4.08
Rose Hall					4.64	Greenvale	2.17	0.50	2	9	
Cinnamon Hill					4.66	Albert Town	2.81	0.79	24	6	3.71
Tryall					3.28	Craig Head	0.00			0	
Running Gut					4.73	Warsop	1.05	0.35	4	5	
Spring Estate					4.51	Troy	2.25	0.90	21	4	3.05
Friendship	1.30	0.40	17	8	2.88	Wallingford	2.62	1.00	10	8	2.26
Retirement	1.02	0.30	17	7	2.94	Balaclava	2.50	1.11	17	5	2.16
Rose Mount	3.36	0.81	27	13		Braes River					
Montego Bay	2.85	1.34	31	4	4.26	Wakefield	1.91	0.67	31	8	
Anchovy	0.87	0.41	27	8	2.85	Aberdeen	0.84	0.40	17	4	
Hopewell	2.01	1.05	31	8		Accompong					
Blue Hole	6.46	2.49	31	6	2.32	Maggotty	1.27	0.40	24	6	2.88
Cascade	3.90	2.12	31	7		Lacovia	1.38	0.53	17	7	
Luca	4.80	2.60	31	8	3.37	Mulgrave	1.38	0.60	4	4	
Haughton Court	2.83	0.73	31	7	3.17	Holland	2.90	1.35	9	5	
Kendal—Hanover	1.65	0.70	31	5		Ipswich	0.99	0.47	17	4	
Cousins Cove	1.81	0.82	5	11		Ginger Hill	0.18	0.11	18	2	
Green River	1.62	0.43	11	5		Kempshot	2.41	1.23	31	8	5.03
Green Island	1.07	0.33	31	7	2.14	Mocho, St. James	1.03	1.03	24	1	
Haughton Hall	1.00	0.45	31	7		Catadupa	0.87	0.43	31	3	2.88
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	0.58	0.29	31	5	2.26
Knollis	2.00	1.50	20	3		New Market	1.83	0.65	15	4	2.01
Highgate (St. Cath.)	2.40	0.64	20	13		Springfield	1.85	1.00	16	3	
Rio Magno	3.31	1.28	7	9		Kew Park	0.22	0.12	31	2	2.56
Riversdale	2.22	1.20	20	4		The Bog	1.38	0.61	9	5	2.79
Headworks, R.C.C.	3.28	1.40	10	7	2.00	Bethel Town Dist.	0.54	0.15	14	5	2.19
Bog Walk	1.90	1.00	21	2		Burnt Ground	0.33	0.18	18	2	2.99
Linstead	1.22	0.73	20	3	3.37	Darliston	2.43	0.92	17	7	2.96
Ewarton	0.56	0.30	14	2		Bluefields	0.83	0.83	9	1	2.67
Cave Valley	1.03	0.55	16	4	3.05	Whithorn	2.10	2.00	17	2	2.49
Guanaboa Vale						Water Works Pen	3.29	1.20	17	5	2.21
Point Hill	3.79	1.10	18	9	4.43	Williamsfield, Wld.	0.98	0.75	10	4	
Brown's Hall	3.01	1.77	10	5	3.31	Baulk	0.21	0.12	17	2	
Bellas Gate	1.74	1.40	10	3	0.98	Askenish	2.63	2.63	31	1	2.33
Rock River	2.48	1.10	9	5		Grange Hill	0.71	0.42	17	4	3.01
Crofts Hill	1.96	0.75	24	6	2.16	Mount Eagle	0.30	0.22	17	2	
Far Enough	4.13	1.74	17	8		King's Vale	2.72	1.80	31	4	2.93
Suttons	3.24	1.61	10	6							
Colonel's Ridge	3.62	1.50	20	6		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	2.52	1.18	10	9	2.32	Morant Point L. H.	5.98	2.81	19	11	5.58
Crooked River	3.38	0.95	9	7		Golden Grove	11.00	4.10	19	15	
James Hill	2.93	0.90	21	8		Pleasant Hill	9.85	3.77	19	15	4.39
Frankfield	3.56	1.31	21	5	2.04	East Prospect	6.76	3.02	19	12	4.65
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	0.87	0.25	18	5	3.96
Mocho, Clarendon	3.70	0.80	24	5	2.00	Aeolus Valley					
Smithville	2.67	1.30	24	10		Yallahs	1.35	0.90	19	3	
Clarendon Park						Easington	1.37	0.80	20	4	2.63
Porus	1.84	0.58	24	8		Llandewey					
Borobridge	3.20	1.10	21	7		Mavis Bank	1.73	0.50	20	11	
Spaldings	2.33	0.90	1	7	2.13	Bull Bay	0.56	0.30	9	2	1.07
Williamsfield	2.95	1.04	20	13		Dallas Castle	6.05	1.78	20	15	
Brokenhurst	1.79	0.52	20	7	3.04	Gordon Town	2.55	0.78	17	9	2.93
Shooter's Hill	3.93	1.61	4	7	2.16	Irish Town	2.53	0.60	17	6	3.11
Wait-a-bit	2.33	1.00	21	8		Hope Gardens	2.51	0.87	20	14	2.58
Christiana	4.13	1.40	4	9	2.93	Waireka					
Helmwood	3.05	1.22	4	9		Iver					
Clifton Hill	3.91	1.92	4	8	1.57	Plumb Point L. H.	0.50	0.20	31	3	1.31
Kendal, Manchester	2.69	1.22	4	4	2.50						

STATIONS.	December, 1939.					STATIONS.	December, 1939.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.	<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	2.49	1.64	20	3	1.91	Newport, Man.	1.39	0.66	20	3	3.02
Up-Park Camp	0.63	0.24	17	7	..	Alligator Pond	1.51	0.60	31	6	1.97
Cavaliers	0.60	0.20	19	9	..	Fairfield	..	..	..	..	2.43
St. Georges College	..	..	..	..	..	Pepper	..	..	..	..	..
Upper Kingston	0.80	0.22	19	8	0.73	Myersville	..	..	..	..	..
Parade Garden	0.55	0.26	19	4	..	Goshen	..	..	..	..	..
Kingston P.W.O.	0.52	0.21	19	8	1.41	Southfield, St. Eliz.	..	..	..	..	1.61
Constant Spring	6.69	2.86	7	11	..	Munro	2.33	0.48	3	17	..
Halfway Tree	0.95	0.35	20	7	1.70	Windsor, St. Eliz.	2.83	0.62	9	18	..
Clifton Pen	0.95	0.46	17	5	1.10	Torrington	2.34	1.00	7	5	2.42
Seaward Pen	2.94	1.00	7	4	..	Santa Cruz	3.11	1.40	21	9	2.60
Red Hills	3.27	1.88	10	11	..	Hounslow	3.98	1.02	7	9	..
Quarantine Station	0.55	0.14	9	6	0.79	Pedro Plains	..	..	..	..	1.44
Hematine	0.89	0.33	17	5	1.34	Mountainside	2.18	1.30	7	8	1.29
Spanish Town	2.09	0.55	17	12	1.79	Fort Charles	1.68	1.05	9	4	..
Hog Hole, St. Cath.	3.16	1.36	17	10	1.98	Black River	1.82	0.39	13	8	2.22
Old Harbour	2.35	0.70	31	6	2.33	Mt. Charles	2.00	0.67	21	8	..
May Pen	1.30	0.34	7	11	2.00	Font Hill	3.30	1.50	9	4	1.99
Glen Muir	0.40	0.40	31	1	..	Mount Edgecombe	0.39	0.29	11	2	2.36
Cottage	1.17	0.78	31	3	..	Sav.-la-Mar	1.29	0.68	9	2	1.96
Belle Plain	0.71	0.45	24	2	..	Little London	1.28	0.52	17	4	2.17
Milk River	2.02	0.98	11	5	1.82	Retreat	0.23	0.12	17	3	2.21
Retrieve	0.58	0.25	8	3	1.25	Negril Point L. H.	1.18	0.68	9	5	1.97
Stone's Hope	0.86	0.33	31	4	2.45						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	December.			
	Rainfall, inches.		Days on which Rain fell.	
	1939.	Ave.	1939.	Ave.
North-eastern	8.04	10.32	15	14
Northern	3.36	5.03	8	9
West-central	2.11	3.26	5	7
Southern	2.03	2.19	7	6
The Island means	3.88	5.20	9	9

SHOCKS OF EARTHQUAKE IN DECEMBER, 1939.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
11th	5.30 p.m.	I	Munro
11th	"	I	Windsor
25th	4.00 a.m.	I	Clifton Hill.

N.B.—IT IS PARTICULARLY REQUESTED THAT ALL RAINFALL POST CARDS BE SENT IN NOT LATER THAN THE 5TH OF EACH MONTH.

## THE ISLAND—DECEMBER.

The mean rainfall was much below the average in all divisions.

The greatest total fall for the month was 34.22 inches at Balcarres in the North-eastern Division and the heaviest fall in 24 hours was 9.30 inches at Comfort Castle in the same Division on the 5th.

No rain fell at Craighead in the West-Central Division.

The mean number of raindays was 9, which is the average for the month. Comfort Castle and Mount Holstein, both in the North Eastern Division, had most—26 each.

The mean rainfall in each parish is given below compared with the 10-year average. Portland with 18.21 inches, was highest. St. Mary, with 8.44 inches, second: and St. Thomas with 5.75 inches, third. Kingston with 0.59 inch, was lowest.

Parish.	1939.	10 years average.	Parish.	1939	10 years average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.59	0.82	St. James	1.55	2.85
St. Andrew	3.15	3.40	Hanover	2.71	2.55
St. Thomas	5.75	4.31	Westmoreland	1.08	1.90
Portland	18.21	14.43	St. Elizabeth	2.02	1.70
St. Mary	8.44	8.97	Manchester	2.16	1.84
St. Ann	4.26	6.14	Clarendon	2.52	1.54
Trelawny	2.75	3.25	St. Catherine	2.80	2.98

## THE YEAR 1939.

Comparative Table A gives the mean monthly rainfall in each Division, with the respective totals compared with the 60-year average, and shows an excess of 7.92 inches.

The mean number of raindays is also given, compared with the 35-year average, and shows an excess of 9.

The mean rainfall per rain day was 0.62 inch.

In the first half of the year the rainfall was 12% below, and in the second half 27% above the average.

Table B gives the mean monthly rainfall in the 14 parishes, with the respective totals, compared with the 10-year average. Portland with 130.09 inches, has the highest total for the year. Westmoreland, with 108.17 inches was next, and St. Thomas, with 89.73 inches was third. Kingston with 51.46 inches, lowest.

The differences that will be observed between Tables A and B as regards both the total for the year and that for each month, are due to the former being based only on stations with an average, while the latter includes all stations.

## CITY OF KINGSTON.

The total rainfall for the month of December, 1939, was 0.52 of an inch, which is about one-third that of the 60-year average of 1.41 inch. There were eight days with small rainfall as compared to the 49-year average of five. The greatest rainfall in 24 hours was 0.21 inch on the 19th. The upper boundary of Kingston gauged 0.80 inch with eight rain days.

The days upon which distant rain was observed are as follows:—to northward on 9, to northeast on 3, to east and southeast on 1 each and to northwest on 2.

Distant thunderstorm to northward and north-westward once each, on the 11th and 7th, respectively.

The mean barometric pressure was 29.939 inches, the 33-year normal being 29.941 inches or 0.002 inch below the normal. The highest barometer reading was 29.997 inches on the 7th at 7 a.m. and the lowest was 29.891 inches on the 26th at 3 p.m., corrected for diurnal variation.

The mean monthly temperature was 77.3°, the 33-year normal being 76.8° or 0.50 above the normal, based upon four observations per day. Highest maximum 88.3° on the 7th and lowest minimum 68.1° on the 1st giving an extreme monthly range of 20.2°. On the other hand, the lowest maximum was 77.6° on the 18th and the highest minimum 73.4° on the 4th and 29th. The greatest daily range was 19.5° on the 1st, and the least was 5.1° on the 18th. The maximum was below 90° throughout the month, and the minimum was below 70° seven times.

The mean daily number of miles of wind registered was 137, as compared to the 25-year average of 146 or about 6% below the normal. The greatest number of miles of wind recorded in 24 hours was 312 on the 29th and the least number was 82 on the 5th. Southeasterly wind blew early once and continued after 7 p.m. four times, and throughout the night once. Fresh "Norther" of short duration on the 11th.

Mean relative humidity 82%, as against the 33-year average of 80%. The mean 7 a.m. was 88% and the mean 3 p.m. was 79%. Lowest 7 a.m. was 78% on the 4th and lowest 3 p.m. 60% on the 1st. Overcast conditions prevailed in the early forenoon on 21 occasions and in the afternoon on 23.

The mean daily number of sunshine hours was 5.9.

Total evaporation for the month of December was 3.32 inches, the 10-year normal being 4.37 inches.

Lunar halo on the 21st (faint).

## WEATHER DISTURBANCES—YEAR 1939.

(1) On June 13th the U.S.W. Bureau reported evidence of a Tropical Disturbance of slight intensity attended by squalls, with fresh to strong winds near to centre, which passed into the Gulf of Mexico, through the Yucatan Channel about 300 miles W.S.W. of Havana, Cuba. The following day, 14th, the centre passed about 180 miles south of Pensacola, Florida, U.S.A., moving northward.

(2) On August 9th the U.S.W. Bureau located a slight Tropical Disturbance about 125 to 120 miles to the NE of Turks Island, moving slowly W.N. westward. On the 11th August, it continued to move W.N.W. at 14 miles per hour, with gale wind up to 50 miles per hour within a small area.

(3) On the 12th October there was an unusually persistent low pressure area over the eastern Caribbean Sea, with abnormal wind direction, but no high winds reported or indication of cyclonic development. On the 13th October the barometric pressure was rising with improving weather conditions—according to Washington reports.

(4) On the 15th October the U.S.W. Bureau located a Weather Disturbance about midway between Turks Island and Bermuda, with strong, squally, NE and north winds—probably passed about 200 miles from Bermuda, with winds varying from 30 to 40 miles per hour. It advanced rapidly to northward, being central about 600 miles to the eastward of Nantucket, U.S.A.

The preceding notices of weather disturbances having given positions far away from Jamaica and of higher Latitudes than Jamaica, it was deemed not essential to issue telegraph warnings over this Island, the Press notices being considered sufficient.

Attention may be directed to the fact that the months of August, September and October were almost entirely free of Tropical Storms in the Caribbean Sea until the last day of October, when on the 31st a weather disturbance began to organize to the westward of the Cayman Islands. Rough seas and wind of gale force reported on the 31st October from Negril Point, Jamaica, with falling barometer. A warning from Kingston, was issued at 3.40 p.m. on Tuesday, 31st October throughout the Island.

This disturbance coursed on an easterly track, between Cuba and Jamaica, after passing near to Cayman Islands at about 11 p.m. on the 31st. The centre passed to the north of Montego Bay on Thursday 2nd November, in the early forenoon—moving at a slow rate of about 6 to 7 miles per hour.

The U.S.W. Bureau estimated that for a short while the centre may have attained hurricane force, but upon advancing further eastward, near to SE Cuba, the force of wind greatly diminished. It appears to have continued on a NE course, over eastern Cuba, to some distance to the SW of Bermuda.

The Island of Jamaica suffered considerable loss of cultivation, as well as destruction of frail structures. The wind may have attained a strong gale force of about 60 to 70 miles per hour, especially along the northern coastal region of the Island.

There was minor loss experienced by small crafts, and to some four deaths arising from high seas, despite a warning of 40 hours before the centre passed near to Jamaica.

The barometric pressure in St. James (NW Jamaica) fell to about 29.31 inches during the forenoon of the 2nd November. The normal pressure at this time is given as 29.88 inches, representing a fall of about half an inch below the normal. There was abnormal rainfall over the entire Island—particularly over the NE portion.

(5) On the 18th November a shallow barometric depression developed and moved around the westward of Negril Point, moving toward south eastern Cuba, later on, causing heavy floods near to Santiago, Cuba, and serious damages to bridge structure. There was also excessive rains experienced over Jamaica between the 18th and 20th November.

It may be added that the Mean Island Rainfalls for October and November 1939 are as follows in inches:

	Actual	60-year Average.
October	9.93	10.21
November	25.07	8.29

#### KINGSTON, FOR THE YEAR 1939.

The total rainfall for the year 1939, as registered at the Public Works Buildings, Port Royal Street, Kingston, was 50.38 inches, the 60 year normal being 31.57 inches, showing an excess of 18.81 inches. This was the highest annual rainfall recorded since 1933 when a total of 73.53 inches was recorded. The month of November recorded the greatest fall, with 25.97 inches, and December the least with only 0.52 inch. The total number of days with appreciable rain, was 96 as against the 49-year average of 79. The greatest number of rain days in one month was 17 in November, and the least 3 in February.

The mean barometric pressure for the year 1939 was 29.936 inches and the 33-year normal is 29.932 inches.

Mean temperature for the year was 78.6° as against the 33-year normal of 78.7°, a difference of 0.1°.

The mean amount of cloudiness for the year was 54%, as against the normal of 53%.

The mean relative humidity was 77%, the 33-year average being 79%. Average daily wind 195 miles, normal 183 (see Table C).

#### SUMMARY OF EXTREMES FOR THE YEAR 1939.

Table (D) giving the extreme values of certain observations is appended. February gave the highest barometer reading of 30.090 inches on the 12th, and November the lowest with 29.571 inches on the 2nd.

The maximum temperature rose to 90° or above as follows:—February one day, June 3, July 12, August 16, September 16, October 17, and November 3 days. Then the minimum temperature was below 70° for 27 days in January, 27 days in February, 31 in March, 24 in April, 5 in May, 3 in November, 7 in December and above 70° throughout from June to October. For the 12 months there were 124 days on which the minimum read below 70° and 68 days on which the maximum recorded above 90°.

The maximum number of miles of wind registered in 24 hours was 710 on November 2nd, due to weather disturbance in the vicinity of Jamaica, and the minimum was 82 miles on the 2nd of December. The greatest rate of hourly velocity during short intervals was 42 miles per hour on 2nd November.

The monthly lowest 7 a.m. relative humidity was 80% on November 24th and the lowest 3 p.m. was 42% on February 27th, January followed with 44% on the 24th.

During the year the greatest rainfall in 24 hours was 9.20 inches on November 18th.

Kingston,  
January 20th, 1940.

J. F. BRENNAN,  
Government Meteorologist.

TABLE (A)—The Island Rainfall 1939 (In inches).

Month.	Divisions.—				The Island.		Rain Days.	
	N.E.	N.	W.C.	S.	1939.	Average for 60 years.	Means for 1939.	Average for 35 years.
January	5.02	3.16	1.77	1.63	2.89	4.00	9	8
February	1.48	0.96	1.44	0.83	1.18	3.13	5	7
March	4.57	3.58	8.37	3.38	4.97	3.35	10	8
April	5.02	4.01	8.00	2.71	4.93	4.77	11	9
May	5.39	4.50	12.44	3.95	6.57	8.77	12	12
June	6.36	3.62	10.44	4.98	6.35	6.53	12	10
July	4.38	3.51	8.79	3.59	5.07	4.75	10	9
August	2.60	3.12	9.03	3.39	4.54	6.93	9	11
September	4.80	4.66	11.24	4.93	6.41	7.94	12	13
October	11.76	5.99	10.26	11.69	9.93	10.21	14	14
November	40.18	19.62	18.94	21.52	25.07	8.29	18	12
December	8.04	3.36	2.11	2.03	3.88	5.20	9	9
Total 1939	99.60	60.09	102.83	64.63	81.79	..	131	..
Total 60-year Average	99.54	56.68	87.84	51.42	..	73.87	..	122

TABLE (B)—Mean Rainfall in inches for each Parish for the Year 1939.

Parish.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	10-Year Average.
Kingston	0.72	0.53	1.78	1.75	1.95	2.20	1.93	1.59	2.73	9.91	25.78	0.59	51.46	30.46
St. Andrew	1.69	0.91	3.94	3.15	5.43	5.61	3.75	4.32	7.01	14.34	34.30	3.15	87.60	68.47
St. Thomas	3.97	1.05	2.32	3.09	4.40	9.10	3.65	1.52	4.13	19.71	31.04	5.75	89.73	79.95
Portland	7.23	2.29	5.90	4.65	5.58	8.80	4.39	2.58	4.28	11.80	54.38	18.21	130.09	136.13
St. Mary	5.63	1.42	3.61	5.17	4.73	3.52	2.44	1.95	3.77	8.15	33.82	8.44	82.65	83.72
St. Ann	4.65	1.18	3.21	3.88	4.02	1.99	2.67	1.50	3.55	6.69	22.45	4.26	60.05	65.75
Trelawny	3.66	1.07	3.88	4.90	7.91	3.99	7.00	4.00	9.17	7.40	22.82	2.75	78.55	61.52
St. James	2.56	0.41	3.76	5.40	8.23	7.66	7.89	6.78	5.80	5.88	17.93	1.55	73.85	64.22
Hanover	2.40	1.49	6.13	12.44	11.04	7.42	7.68	8.00	9.02	6.30	12.65	2.71	87.28	81.25
Westmoreland	1.70	0.74	10.28	10.09	14.82	12.09	10.12	11.71	11.05	10.36	13.53	1.08	108.17	83.75
St. Elizabeth	1.71	1.16	8.94	4.13	8.94	8.25	7.64	8.39	8.87	11.01	14.37	2.02	85.43	65.74
Manchester	1.52	1.90	4.40	2.29	4.44	6.25	2.93	4.60	7.05	10.01	22.09	2.16	69.64	70.82
Clarendon	1.60	1.38	3.77	2.52	3.64	5.51	3.46	4.54	6.17	10.30	24.07	2.52	69.48	59.98
St. Catherine	2.11	0.72	3.99	4.40	3.58	4.89	4.28	4.70	5.84	10.40	25.50	2.80	73.21	64.75
Means	2.94	1.16	4.71	4.89	6.34	6.23	4.99	4.73	6.32	10.16	25.34	4.14	81.95	72.62

TABLE (C).—KINGSTON, JAMAICA.—METEOROLOGICAL RESULTS FOR THE YEAR 1907.

(FOR ELEVATION, See Foot Notes 1 and 2).

Month.	Barometer Pressure.		TEMPERATURE (FAH.)							Dewpoint and Relative Humidity.			Rainfall (ins.)		Rain Days.		
	7 a.m.	3 p.m.	Mean.	7 a.m.	3 p.m.	Max.	Min.	Range.	Extremes for Month.	7 a.m.	3 p.m.	Actual.	Av.	No.	Av.	for	
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°	Ins.	60	49	49	49
January	29.995	29.986	76.3	69.1	83.6	86.2	68.2	18.0	89.5	64.0	25.5	63	61	0.59	0.87	6	4
February	30.019	.963	75.9	68.4	83.8	85.9	67.5	18.4	90.8	64.1	26.7	61	79	0.73	0.61	3	4
March	.001	.947	74.8	68.4	81.7	84.3	66.9	17.4	87.3	63.6	23.7	63	81	1.73	0.94	6	4
April	29.989	.932	76.8	72.7	82.8	85.0	68.6	16.4	87.0	65.0	22.0	65	78	1.81	1.17	6	5
May	.943	.900	78.8	76.3	82.9	86.4	71.4	15.0	88.9	68.0	20.9	68	76	1.38	4.02	7	7
June	.960	.924	80.6	78.0	84.6	88.1	73.6	14.5	93.1	70.5	22.6	70	76	1.61	3.51	9	6
July	.975	.936	81.6	77.9	86.6	89.6	74.2	15.4	94.3	71.4	22.9	68	73	2.80	1.54	6	5
August	.925	.871	81.6	76.9	87.1	90.3	74.0	16.3	93.9	70.2	23.7	70	78	1.33	3.60	4	9
September	.921	.874	81.1	76.3	85.8	90.0	74.4	15.6	92.7	72.4	20.3	70	81	2.82	3.87	10	10
October	.862	.810	80.7	75.4	86.4	89.0	73.9	15.1	94.0	71.2	22.8	71	85	9.09	7.11	14	12
November	.860	.813	77.8	73.4	82.6	85.1	72.3	12.8	91.8	68.8	23.0	70	91	25.97	2.92	17	8
December	29.949	29.902	77.3	71.6	83.5	85.1	70.9	14.2	88.3	68.1	20.2	68	88	0.52	1.41	8	5
Means	29.950	29.901	78.6	73.7	84.3	87.1	71.3	15.8	91.0	68.1	22.9	67	81	..	..	..	..
Totals	..	..	..	..	..	..	..	..	..	..	..	..	..	50.38	31.57	96	79

Notes:—(1) Since the year 1907, the observations have been made as follows:—

At 148½ East Street—(a) Pressure, Barometer 111 ft. above sea level. (b) Temperature, (Thermometers 107 ft. above sea level and 4 feet above ground). (c) Clouds and their direction.

At Public Works Buildings, Port Royal Street—(d) Rainfall, (Gauge 57.28 ft. above sea level.) (e) Wind—(Anemometer 69.38 ft. above sea level, wind vane 70.88 ft. above sea level.)

(2) Standard Barometer at Public Works Building—24 ft. above sea level.

TABLE (C) contd. KINGSTON, 1930—MEAN RESULTS.

Month.	Wind, Miles per diem.	Wind: from and Miles per hour.			Clouds in Tenths.						Weather Conditions, etc
		7 a.m.	3 p.m.	11 p.m.	Lower.		Middle.		Upper.		
					7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	
January	184	NNE 4.4	SE 14.1	NNE 5.0	2.0	2.8	1.4	2.1	0.9	0.7	Rainfall 0.28 inch below normal.
February	221	NNE 4.0	SE 17.5	ENE 4.7	0.6	2.5	0.8	3.1	0.1	0.3	" 0.12 " above "
March	184	N 3.3	SE 16.6	N 3.2	0.5	4.5	1.2	2.7	0.4	0.0	" 0.79 " " "
April	248	NE 5.3	SE 17.7	E 5.3	1.6	3.3	0.6	1.8	1.1	0.6	" 0.64 " " "
May	218	NNE 4.1	SE 16.3	NE 4.7	0.4	5.4	0.2	1.4	3.6	0.6	" 2.64 inches below normal.
June	224	NE 5.5	SE 18.4	ENE 4.8	0.9	4.6	0.7	1.5	2.0	2.2	" 1.90 inch " " "
July	238	NNE 4.8	SE 18.3	NE 3.9	0.1	3.0	1.1	1.4	2.6	1.6	" 1.26 " above "
August	195	N 3.8	SE 18.2	NE 3.3	0.0	3.2	0.2	3.0	2.0	0.2	" 2.27 " below "
September	185	N 3.5	SE 15.0	N 4.0	0.7	3.7	0.3	2.2	3.3	1.5	" 1.05 " " "
October	134	N 4.3	SE 9.2	NNE 4.1	1.5	5.9	0.7	1.2	2.2	1.2	" 1.98 " above "
November	161	NNE 5.8	SE 9.1	N 6.4	3.4	3.4	1.5	2.7	2.2	0.8	" 23.05 " " "
December	137	N 4.8	SE 8.4	NE 5.0	1.7	4.4	0.5	1.2	5.2	2.2	" 0.89 " below "
Means	195	NE 5.2	SE 14.9	NE 4.5	1.1	3.9	0.8	2.0	2.1	1.0	Rainfall for the year 50.38 inches with 96 days with rain.

TABLE (D).—Summary of Extremes of Instrumental Observations for each month of the year, 1939.

Month.	Barometer.		Temperature (Fah.)		Surface Wind.			Relative Humidity lowest.			Rainfall greatest in 24 hours.			
	Highest.	Lowest.	90° and above No. of days.	Below 70° No. of days.	Miles in 24 hours.			7 a.m.		3 p.m.		Amount (Ins.)	Date.	
					Greatest.	Least.	Days.	%	Date.	%	Date.			
January	30.048	29.915	14	27	395	29	109	21	66	29	44	24	0.34	23
February	.090	.937	2	27	398	27	97	22 & 12	64	3	42	27	0.48	23
March	.048	.921	13 & 14	31	317	6	110	24	72	1	49	6	0.97	20
April	0.61	.905	5 & 29	24	413	7	119	13	69	22	55	11/18	0.62	2
May	29.970	.875	23	5	411	30	114	5	63	29	59	16/29	0.68	21
June	30.050	.884	24	0	440	13	113	23	66	14	52	13	0.54	10
July	.022	.902	20	0	408	21	129	27	60	22	44	2	1.37	27
August	.023	.830	10	0	295	4	117	2	68	30	47	12	1.10	9
September	.004	.826	14 & 21	0	307	23	98	19	69	8	54	7	1.06	30
October	29.921	.751	14	0	193	28	97	27	75	7	52	20	2.28	28
November	.955	.571	2	3	710	2	96	4	80	24	53	16	9.20	18
December	29.997	29.891	26	7	312	29	82	5	78	4	60	1	0.21	19

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