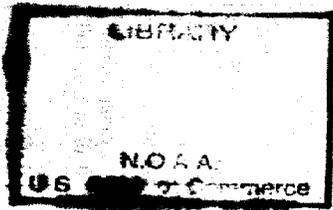


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1940



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
JANUARY, 1940.

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	30.021	29.972	76.3	79.9	82.6	74.9	7.7	95.5	6	70.2	20	25.3
Kingston	24	29.977	29.925	70.0	83.0	84.6	69.2	15.4	90.9	10	64.6	28	26.3
Negril Point Light House	33	30.011	29.958	72.1	81.1	82.7	68.7	14.0	88.0	11	65.8	10	22.2
Montego Bay †	33	..	..	67.8	81.4	84.8	65.6	19.2	89.5	7	62.0	29	27.5
Castleton Gardens	496	..	..	65.4	76.3	80.0	63.8	16.2	85.0	14	60.0	9*	25.0
Hope Gardens †	668	30.024	29.929	66.6	82.0	86.1	65.3	20.8	89.0	14	60.0	27	29.0
Hill Gardens, Blue Mountains	4,900	25.255	25.244	60.8	62.7	65.6	51.8	13.8	68.0	3	45.0	26	23.0

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	70	83	72	77	8.27	286	ENE	9.0	ENE	8.0	4.3	2.2	0.6	2.2	3.2	0.6
Kingston	24	65	84	70	64	0.97	177	N	6.0	SE	12.6	1.9	0.4	0.5	3.2	0.6	0.2
Negril Point Light House	33	69	90	71	74	2.98	178	NE	4.8	var.	8.2	2.1	0.3	1.4	2.9	..	1.5
Montego Bay	33	66	93	74	77	10.00	..	NE	3.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	63	95	73	91	10.55	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	62	84	69	67	1.31	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	57	86	59	85	4.93	..	..	..	..	..	..	..	..	..	..	..

\* 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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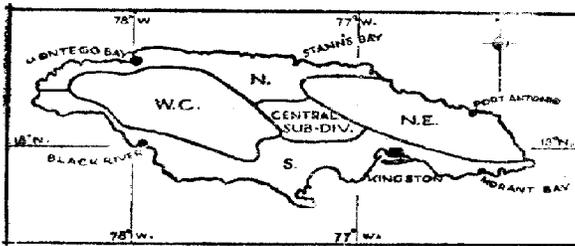
March 28, 2002

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 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.



January, 1940.

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	8.12	3.98	29	11	5.61	
Priestman's River	8.60	2.70	29	10	5.66	
Bath	7.01	2.85	29	15	6.12	
Barrett's Gap	8.32	3.00	30	24		
Millbank	12.86	3.87	29	18		
Comfort Castle	13.50	3.96	29	21		
Moore Town	9.79	2.10	29	18	16.89	
Port Antonio	11.47	3.43	29	14	8.71	
Passley Garden	12.38	4.04	29	18		
Fellowship	24.63	9.26	29	25	12.54	
Johnson River Br.	3.26	1.70	29	9	3.30	
Trinity Ville	0.00			0		
Fruitful Vale	16.98	2.76	29	12		
Hope Bay	10.07	1.35	28	13		
Cedar Valley	2.74	1.05	29	7	3.65	
Paradise	7.42	1.90	25	15		
Lennox	17.57	6.70	29	15		
Greenville	17.45	6.50	31	11	20.33	
Darley	18.09	8.85	29	19		
Spring Garden	12.36	6.07	29	11	8.92	
Hill Gardens	4.93	1.31	31	10	7.10	
Buff Bay	14.10	6.80	29	10	9.33	
Buff Bay R. Est.	19.47	7.00	29	15		
Belvedere, Portland	20.47	8.50	29	12	12.41	
Windsor Castle, do.	15.70	8.85	29	13	6.37	
Balcarres	15.88	5.93	31	13		
Mt. Holstein					16.06	
Cedar Hurst	6.53	1.51	31	16		
Hardware Gap	4.45				5.70	

STATIONS.	January, 1940				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
Ins.	Amount.	Date.	Ins.		
<b>NORTH-EASTERN DIVISION, contd.</b>					
Rose Hill	2.81	0.70	29	11	4.11
Mount Cressy	10.12	2.20	29		
Hermitage	2.40	0.68	25	14	
Mount Airy	7.34				
Stony Hill Ind. Sch.	3.42	1.00	25	10	2.96
Boon Hall	2.29	0.71	29	13	
Brandon Hill	6.28				
Enfield	17.53	5.00	29	14	
Aguulta Vale	11.01	3.91	29	12	7.44
Castleton Gardens	10.55	3.30	29	17	9.29
Water Valley	8.80	3.70	29	14	7.96
Albany					4.63
Lawrence Tavern	3.24				2.69
Wey Hill	5.77	1.91	29	12	
Richmond, St. Mary	10.41	4.11	29	12	7.20
Quebec, St. Mary	15.34	7.60	29	13	6.36
Above Rocks	3.72				
Glengoffe	2.15				
Carew Castle	3.48	1.06	29	11	2.72
Hampstead, St. Mary	13.50	4.30	29	17	10.18
Windsor Castle do.	8.21	3.70	29	7	
Troja	5.97	2.59	29	6	
Pear Tree Grove	6.09	2.60	29	11	
Guy's Hill	6.33	3.12	29	9	6.24
Lucky Hill	7.17	3.10	29	12	7.45
Rio Hoe	4.86	2.13	29	12	5.76
Unity Valley	5.14	2.37	29	14	4.93
Moneague	4.65	1.99	29	13	4.84
Claremont	4.49	1.50	29	10	5.91
Averham Park	5.77	1.77	29	14	7.06
Albion	4.79	1.31	29	11	5.37
<b>NORTHERN DIVISION (N).</b>					
Port Maria	13.13	8.30	29	15	5.85
Wentworth					
Jacks River	11.32	6.22	29	13	
Oracabessa	13.56	6.87	29	9	
Huddersfield	10.31	4.67	29	6	
Ocho Rios	7.26	2.51	29	16	4.73
Rockfield	8.20	3.90	29	13	7.67
Liberty Hill	2.35	1.46	30	12	6.53
St. Ann's Bay	9.23	3.50	29	13	5.22
Richmond Estate	7.28	2.20	29	12	5.82
Runaway Bay	5.55	1.70	29	7	2.85
Knapdale	5.31	1.48	29	14	
Alexandria	2.90	1.05	3	15	2.79
Bel-Air	10.35	3.00	29	11	
Brown's Town	7.41	1.70	30	14	6.01
Wilton	8.56	2.30	29	12	
Watt Town, St. Ann	3.38	0.61	27	13	2.82
Home Castle	11.55	2.55	25	8	5.52
Arcadia	12.25	4.50	24	11	4.76
Vale Royal	9.90	3.45	24	12	5.03
Harmony Hall	9.48	1.90	31	9	4.02
Duncans	9.75	2.16	24	10	
Clark's Town	4.97	1.12	24	10	
Falmouth	4.88	1.62	24	13	3.82

STATIONS.	January, 1940.					STATIONS.	January, 1940.				
	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 ..	4.63	0.82	30	11	..	Mereworth ..	3.88	1.47	16	12	..
Barrett Hall ..	3.40	..	..	..	..	Mandeville ..	3.53	1.50	16	11	3.03
Success ..	2.32	..	..	..	2.12	Ulster Spring ..	5.47	0.60	3	9	3.42
Rose Hall ..	2.37	..	..	..	3.42	Greenvale ..	1.47	0.40	21	9	..
Cinnamon Hill ..	3.41	..	..	..	3.49	Albert Town ..	7.10	3.50	27	7	2.31
Tryall ..	4.50	..	..	..	2.12	Craig Head ..	8.83	2.96	1	5	..
Running Gut ..	..	..	..	..	3.54	Warsop ..	7.00	2.30	1	11	..
Spring Estate ..	3.65	..	..	..	3.83	Troy ..	4.50	1.50	2	10	2.02
Friendship ..	5.59	2.10	30	15	3.74	Wallingford ..	1.82	0.45	24	12	1.80
Retirement ..	6.80	1.19	2	15	3.51	Balaclava ..	1.37	0.59	24	8	1.81
Rose Mount ..	7.35	1.73	30	13	..	Braes River ..	..	..	..	..	..
Montego Bay ..	10.00	3.03	19	11	2.88	Wakefield ..	3.84	0.90	24	11	..
Anchovy ..	11.17	2.85	24	15	2.85	Aberdeen ..	4.14	1.21	16	8	..
Hopewell ..	8.17	2.60	30	14	..	Accompong ..	..	..	..	..	..
Blue Hole ..	7.00	2.00	20	13	3.15	Maggotty ..	4.07	1.57	21	9	2.90
Cascade ..	20.65	3.21	25	19	..	Lacovia ..	0.82	0.25	15	5	..
Lucea ..	5.38	2.35	30	14	3.13	Mulgrave ..	2.41	0.65	11	10	..
Haughton Court ..	6.28	2.83	30	13	2.58	Holland ..	0.58	0.35	21	2	..
Kendal—Hanover ..	4.10	1.33	30	12	..	Ipswich ..	3.67	1.03	20	10	..
Cousins Cove ..	8.35	3.10	30	20	..	Ginger Hill ..	1.94	0.59	3	7	..
Green River ..	4.03	1.24	30	13	..	Kempshot ..	8.71	2.44	19	15	3.76
Green Island ..	4.37	0.50	11	10	2.38	Mocho, St. James ..	3.41	1.45	16	6	..
Haughton Hall ..	3.12	0.86	30	15	..	Catadupa ..	2.57	0.45	15	14	2.36
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	3.43	1.17	19	13	2.33
Knollis ..	3.16	1.00	30	8	..	New Market ..	1.95	0.65	15	7	2.47
Highgate (St. Cath.) ..	2.94	1.15	29	14	..	Springfield ..	5.36	2.83	14	8	..
Rio Magno ..	4.12	1.90	29	5	..	Kew Park ..	5.00	1.83	20	12	2.28
Riversdale ..	3.99	1.50	29	7	..	The Bog ..	1.51	0.31	24	9	2.73
Headworks, R.C.C. ..	1.60	0.73	29	4	1.62	Bethel Town Dist. ..	5.39	1.60	20	17	3.41
Bog Walk ..	2.53	0.87	29	5	..	Burnt Ground ..	5.19	2.59	18	10	2.58
Linstead ..	2.72	1.05	29	7	2.30	Darliston ..	7.34	2.04	19	10	2.93
Ewarton ..	3.41	1.20	29	7	..	Bluefields ..	0.52	0.40	21	3	2.81
Cave Valley ..	1.54	0.50	22	5	2.21	Whithorn ..	2.75	1.00	11	7	2.38
Guanaboa Vale ..	1.75	1.75	30	1	..	Water Works Pen ..	3.84	0.80	11	9	2.03
Point Hill ..	2.07	0.93	29	10	3.41	Williamsfield, Wld. ..	3.64	1.00	11	9	..
Brown's Hall ..	2.05	0.75	29	8	2.25	Baulk ..	2.91	1.18	11	12	..
Bellas Gate ..	3.07	0.75	23	8	1.66	Askenish ..	9.01	2.69	7	15	3.48
Rock River ..	1.71	0.84	29	5	..	Grange Hill ..	2.93	1.62	11	9	2.55
Crofts Hill ..	3.67	1.00	29	9	2.06	Mount Eagle ..	2.91	1.43	11	9	..
Far Enough ..	..	..	..	..	..	King's Vale ..	3.34	0.80	21	12	3.05
Suttons ..	2.13	0.97	29	9	..						
Colonel's Ridge ..	..	..	..	..	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	1.86	0.88	29	5	2.09	Morant Point L. H. ..	8.27	5.00	29	15	4.16
Crooked River ..	1.87	0.62	29	8	..	Golden Grove ..	9.53	5.95	29	17	..
James Hill ..	1.54	1.00	25	6	..	Pleasant Hill ..	6.55	3.25	29	18	4.83
Frankfield ..	3.05	0.60	24	9	1.45	East Prospect ..	4.70	1.98	29	16	3.99
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	2.34	1.21	27	7	2.84
Mocho, Clarendon ..	1.79	1.43	2	2	2.00	Aeolus Valley ..	2.67	1.14	29	15	..
Thompson Town ..	2.64	1.00	29	10	..	Yallahs ..	1.34	0.90	29	4	..
Clarendon Park ..	..	..	..	..	..	Easington ..	1.42	1.50	30	4	1.60
Porus ..	1.96	0.60	11	5	..	Llandewey ..	..	..	..	..	..
Boro-bridge ..	2.65	0.80	1	9	..	Mavis Bank ..	1.78	..	..	..	..
Spaldings ..	3.33	0.75	16	13	2.70	Bull Bay ..	0.60	..	..	..	0.73
Williamsfield ..	3.45	1.27	16	13	..	Dallas Castle ..	1.95	..	..	..	..
Brokenhurst ..	1.93	0.58	29	8	3.08	Gordon Town ..	1.76	..	..	..	3.20
Shooter's Hill ..	1.56	1.06	16	7	2.05	Irish Town ..	2.15	..	..	..	2.22
Wait-a-bit ..	5.13	1.10	1	9	..	Hope Gardens ..	1.31	0.59	28	10	1.79
Christiana ..	3.12	1.22	16	9	2.37	Waireka ..	..	..	..	..	..
Holmwood ..	..	..	..	..	..	Iver ..	..	..	..	..	..
Clifton Hill ..	3.42	1.50	16	6	2.10	Plumb Point L. H. ..	1.05	0.80	29	3	0.74
Kendal, Manchester ..	3.52	1.77	16	9	2.24						

STATIONS.	January, 1940.					STATIONS	January, 1940.				
	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.	1.19	0.75	29	4	1.35	Newport, Man.	2.10	0.47	15	7	2.56
Up-Park Camp	0.82	0.65	29	5	..	Alligator Pond	0.91	0.60	15	3	1.39
Cavaliers	0.81	0.34	30	4	..	Fairfield	..	..	..	..	2.38
St. Georges College	..	..	..	..	..	Pepper	..	..	..	..	..
Upper Kingston	0.91	0.72	29	6	0.55	Myersville	..	..	..	..	..
Parade Garden	0.83	0.65	29	3	..	Goshen	1.15	0.54	15	4	..
Kingston P.W.O.	0.97	0.60	29	4	0.87	Southfield, St. Eliz.	..	..	..	..	2.02
Constant Spring	1.51	0.53	25	8	..	Munro	1.86	0.88	15	13	..
Halfway Tree	1.21	..	..	..	0.97	Windsor, St. Eliz.	2.06	1.47	15	12	..
Clifton Pen	1.33	..	..	..	0.71	Torrington	1.65	1.00	15	5	2.26
Seaward Pen	1.11	..	..	..	..	Santa Cruz	..	..	..	..	2.51
Red Hills	4.25	..	..	..	..	Hounslow	0.19	0.19	15	1	..
Quarantine Station	1.53	1.15	30	3	0.65	Pedro Plains	..	..	..	..	1.60
Hematine	1.11	0.85	29	4	1.12	Mountainside	..	..	..	..	1.64
Spanish Town	1.20	0.85	29	3	1.32	Fort Charles	0.00	..	..	0	..
Hog Hole, St. Cath.	1.57	0.84	29	5	1.54	Black River	0.09	0.06	4	2	1.62
Old Harbour	2.65	0.75	29	8	2.03	Mt. Charles	0.87	0.20	11	7	..
May Pen	1.25	0.42	25	9	1.36	Font Hill	..	..	..	..	1.76
Glen Muir	0.80	0.60	29	2	..	Mount Edgecombe	1.63	0.91	15	3	2.07
Cottage	1.30	0.36	29	6	..	Sav-la-Mar	0.22	0.08	24	4	1.66
Belle Plain	2.60	0.70	29	8	..	Little London	2.85	0.92	30	9	1.90
Milk River	1.37	0.40	24	6	1.75	Retreat	1.73	0.74	30	4	1.82
Retrieve	2.10	0.62	29	7	1.21	Negril Point L. H.	2.98	1.41	30	8	1.73
Stone's Hope	2.25	0.50	3	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.	
	1940.	Ave.	1940.	Ave.
North-eastern	8.83	7.68	13	13
Northern	5.65	3.67	11	8
West-central	3.80	2.80	9	6
Southern	2.06	1.83	7	6
The Island means	5.09	4.00	10	8

SHOCKS OF EARTHQUAKE IN JANUARY, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
10th	7.42 p.m.	I	Rosemount
"	" "	I	Kempshot

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 exceeded the average in all Divisions.

The heaviest precipitation appears to have taken place towards the end of the month, and particularly on the 29th.

The greatest total fall for the month was 24.63 inches at Fellowship in the North-Eastern Division, and the heaviest fall in 24 hours was 9.26 inches at the same station on the 29th.

No rain fell at Trinity Ville in the North-Eastern Division and Fort Charles in the Southern Division.

The mean number of rain days was 10, the average for the month being 8. Fellowship in the North Eastern Division, had most—25.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 14.31 inches was highest; St. Mary with 11.18 inches next; and Trelawny with 7.02 inches third. Kingston, with 0.94 inch was lowest. The average was exceeded in all parishes.

Parish.	1940.	10-year average.	Parish.	1940.	10-year average.
Kingston	0.94	0.55	St. James	5.21	1.93
St. Andrew	2.91	2.27	Hanover	6.85	2.38
St. Thomas	4.47	3.43	Westmoreland	3.01	2.46
Portland	14.31	10.73	St. Elizabeth	1.95	1.91
St. Mary	11.18	6.27	Manchester	2.92	2.24
St. Ann	6.03	4.25	Clarendon	2.10	1.60
Trelawny	7.02	2.40	St. Catherine	3.06	2.30

## CITY OF KINGSTON.

The rainfall for the month of January was 0.97 of an inch which is 0.10 inch above the 60-year normal of 0.87 inch. Greatest fall in 24 hours was 0.60 inch on the 29th at the time of a "Norther." No rain was recorded from the 1st to 21st. There were four days with appreciable rainfall, which correspond with the 49-year average. The upper boundary of Kingston gauged 0.91 of an inch with six rain days.

The number of days upon which distant rain was observed are as follows:—to the northward on 3 days, to eastward and southward 2 days each. A "norther" blew from the 25th to 31st with high wind at 32 miles per hour on the 27th.

The mean barometric pressure was 29.965 inches. The 33-year normal being 29.974 inches shewing 0.009 inch below the normal. The highest reading was 30.017 inches on the 28th at 3 p.m., and the lowest was 29.872 inches on the 14th at 7 a.m., corrected for Diurnal variation.

Mean temperature for the month was 76.2°, based upon four observations per day, the 33-year normal being 75.8°, shewing 0.4° above the normal. The extreme Maximum was 90.9° on the 10th, and the lowest minimum was 64.6° on the 28th; equivalent to an extreme monthly range of 26.3°. On the other hand the lowest maximum was 77.2° on the 27th and the highest minimum was 73.1° on the 1st. The maximum was above 90° once (on the 10th), and the minimum was below 70° twenty times. The greatest daily range was 24.3° on the 10th, and the least was 8.1° on the 26th.

The mean daily miles of wind registered was 177, the 25-year normal being 163, giving about 9% above the normal. The greatest number of miles of wind recorded in 24 hours was 608 on the 27th (during a brisk "norther") and the least was 101 on the 24th. The greatest hourly velocity was 32 miles per hour on the 27th at about 11.30 a.m. from the north. Southeasterly wind appeared early once and continued after 7 p.m. on ten occasions.

The mean relative humidity was 76%, which is 2% below the 33-year normal of 78%. The mean 7 a.m. was 84% and the mean 3 p.m. 64%. Lowest 7 a.m., 70% on the 27th; lowest 3 p.m., 45% on the 10th.

Overcast conditions prevailed in the forenoon on 8 occasions and in the afternoon on 10 occasions.

Total evaporation for the month was 4.03 inches as compared to the 10-year normal of 5.06 inches.

Mean daily number of sunshine hours 6.8.

## NORTHERS IN JANUARY, 1940.

From the early forenoon of the 24th the barometric pressure indicated an area of high, above the normal, of 29.99 inches. The following given for Kingston, the barometer readings for 6 days, during the time of approach and departure of a "norther":—

	7 a.m.	3 p.m.
	Inches.	Inches.
Jan. 24th	29.995	30.012
" 25th	.998	.038
" 26th	.989	29.994
" 27th	30.009	30.041
" 28th	.039	.017
" 29th	29.997	29.999

The readings are reduced to sea-level, as well as for Diurnal Variation.

Highest barometer reading at 3 p.m. on the 28th of 30.047 inches which was about 0.07 inch above the normal.

There was a corresponding high pressure both at Morant Point and Negril Point.

The minimum temperature at Kingston for the 27th was 65.9°, for 28th, 64.6° and 29th, 69.6°. The 33-year average being 67.4°.

Relative humidity on 27th at 7 a.m. 70%, 3 p.m. 47%, and for the 28th 7 a.m. 85%, and 3 p.m. 57%. The general average being 67% or about 11% below the normal—denoting a “dry norther.”

There was surface wind starting from moderate, increasing to high winds from a northerly direction from the 26th to 28th as follows—in miles per hour:—

Jan. 26th	7 a.m.	n 12	Jan. 27th	7 a.m.	n 28		
“	26th	1 p.m.	n 15	“	27th	1 p.m.	n 32
“	26th	3 p.m.	n 16	“	27th	3 p.m.	n 32
“	26th	11 p.m.	n 20	“	27th	11 p.m.	n 15
“	27th	3 a.m.	n 28	“	28th	7 a.m.	n 11

It will be apparent that the maximum velocity of 32 miles per hour occurred just after midnight on the 27th, and at 7 a.m. on the 28th it decreased to 11 miles per hour.

At Morant Point on 27th, at 3 p.m., the wind blew from the NW at 25 miles per hour, and at Negril Point at the same hour, from the north, at 22 miles per hour.

From reports made it is evident this “norther” was generally experienced over the Island. Foreign Press announcements account a general great fall in temperature for most regions of the northern hemisphere, evidently the result of a wide advancing Polar Front, directed towards the Tropical Latitudes. For the most part the United States reported temperatures below freezing point, at about this interval.

There were some reports of partial damages to cultivation over the Island arising from this “norther,” but as most of the banana cultivations were already destroyed by the November, 1939, weather disturbance, there remained very little to suffer losses.

#### UPPER AIR OBSERVATIONS.

In connection with this “norther” it is proposed here to give particulars of the direction and velocity of the wind aloft of Kingston on the 27th, as derived from a Pilot Balloon ascent made from 4.35 p.m. on that day, when the surface air movement was about its maximum. Owing to persistent low clouds with overcast sky conditions during the regular forenoon hours, ascent was impossible, hence an afternoon ascent had to be resorted to.

The thickness of “northers” passing over this Station in past years shews as a rule, relatively low altitude.

In this example of the 27th January, the surface wind blew from the north up to a height of 3,800 feet, then from a height of 4,000 feet, it shifted to NW for a short while and from that point of altitude a sudden veering to SW prevailing, which persisted up to a height of 7,800 ft., blowing at about 16 miles per hour. After that point to an altitude of 10,800 feet, the directions was westward at about the same velocity. It regained to SW between 10,800 feet and 17,000 feet, concluding with a westward wind from 17,000 feet to 20,000 feet or nearly 4 miles aloft when the balloon disappeared from vision, with a final velocity of 31 miles per hour.

As the data concerning the first stage confined to a “norther” of the balloon ascent is specially interesting, the following summary, giving altitude, direction and velocity of wind, is tabulated:—

Altitude Feet.	Direction.	Velocity M.P.H.
Surface	N	32
600	N	25
1,300	N	26
2,000	N	19
2,600	N	16
3,200	N	15
3,800	NNW	8
5,000	SW	7

It will be readily seen that the “norther” starting with a surface wind of 32 miles per hour, gradually faded away in force to 15 miles per hour at an altitude of two-thirds of a mile.

The balloon was finally lost at an altitude of about 4 miles above sea-level with a westward current of 31 miles per hour.

This balloon ascent was made at 148½ East Street, Kingston (near to the southern end of the Race Course) at the Pilot Balloon Station, in operation since the year 1925. But it should be understood, although it was released from ground level at Kingston, the actual position of the balloon in the atmosphere, when the “norther” was no longer identified at 3,200 feet altitude, the horizontal distance, from the Kingston Station, owing to the drift by the wind, up to 3,200 feet altitude was 1½ miles distant to southward, or about midway between the Station and Plumb Point Light House. Likewise at the highest point aloft, when the balloon was finally lost from vision, it was then about 8 miles to ENE of Kingston, beyond the Long Mountain, over Bloxburg Plantation in St. Andrew.

It is to be noted, that from 15 years of Upper Air determinations the Reverse currents at high altitudes attain a maximum in January, February and March, from the west, reaching at times about 80 miles per hour.

#### NEGRIL POINT LIGHTHOUSE.

A table on pages 8 and 9 giving the Meteorological Results for Negril Point Light House, situated at the extreme western point of the Island, for the year 1939, is appended.

The extreme maximum temperature recorded was 91.7° on the 19th October, and the extreme minimum was 62.5° on the 18th February. The greatest range of temperature was 25.6° in the month of February, and the least range was 10.1° in the month of November.

The greatest monthly rainfall was 9.55 inches in November, the average for 35 years being 3.83 inches, shewing 5.72 inches in excess of the normal, and the least was 0.19 of an inch in February, as against the 35-year normal of 1.86 inch. The total number of days with appreciable rain was 151 for the 12 months. May, July and August had the greatest monthly rainfall days of 18 each, followed by April and March with 16 and 15 days, respectively. February had the least with only 3 days. The year's total rainfall was 59.84 inches as against the 35-year normal of 54.17 inches.

The daily average wind recorded was 136 miles. The highest daily average was 233 in November and the lowest was 106 in August.

The observations were conducted by Mr. J. S. Brownhill, J.P., the Superintendent of the Light House up to the 16th of July, when unfortunately he took ill and died on the 21st of July, 1939. Thereafter the observations were carried on by his successor, Mr. Donald Levy.

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,  
February 20th, 1940.

NEGRIL POINT, JAMAICA.—METEOROLOGICAL RESULTS FOR THE YEAR 1939.

FOR ELEVATION, SEE FOOT NOTE.

Month.	Barometer Pressure.		TEMPERATURE (FAH.)								Dewpoint and Relative Humidity.		Rainfall.		
	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 Fall.	Av. for 35 yrs.	No. of Days with Rain.
									Max.	Min.					
January	.30.009	29.956	76.3	71.3	82.3	85.3	68.3	17.0	87.5	63.6	65	68	1.22	1.73	8
February	.034	.995	75.3	70.1	82.0	84.6	66.6	18.0	87.5	62.5	64	80	0.19	1.86	3
March	.027	.982	75.3	70.9	81.3	84.0	66.8	17.2	87.2	64.3	65	83	4.67	2.77	15
April	29.993	.958	75.6	73.0	80.7	83.3	67.5	15.8	85.6	64.1	68	84	7.40	2.92	16
May	.949	.920	78.2	77.1	81.8	85.0	70.8	14.2	86.6	68.6	72	81	5.93	6.25	18
June	.968	.939	79.3	77.9	82.6	86.6	71.9	14.7	88.6	68.6	71	80	7.32	5.59	13
July	.983	.962	79.6	77.8	83.1	87.4	72.1	15.3	90.4	69.7	72	81	6.01	5.83	18
August	.934	.904	80.3	77.8	84.5	88.2	72.6	15.6	90.6	69.7	72	82	5.63	6.50	18
September	.930	.889	81.3	80.0	85.5	88.6	73.3	15.3	90.4	71.0	72	75	5.11	6.71	14
October	.879	.827	80.4	75.8	86.2	88.5	73.1	15.4	91.7	69.3	74	84	5.63	8.21	10
November	.882	.848	78.5	76.5	81.4	84.0	73.9	10.1	89.3	69.3	74	92	9.55	3.83	13
December	29.970	29.928	77.6	74.5	81.9	84.1	71.8	12.3	88.3	67.3	72	89	1.18	1.97	5
Means	29.963	29.925	78.1	75.2	82.8	85.8	70.7	15.1	88.6	67.3	70	83	...	...	...
Totals	...	...	...	...	...	...	...	...	...	...	...	...	59.84	54.17	151

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 33 ft. 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 RESONANCE, COND., for year 1889.

Month.	Wind, Miles per diem.	Wind: from and Miles per hour.			Clouds: in Tenth.						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	137	NE 4.0	9.0 NE	4.0	2.8	3.6	0.5	3.4	0.9	0.7	Clear 3 days, Cloudy 12, Overcast 7, Rain 8. Brisk NE winds throughout the month
February	143	NE 4.0	9.0 ENE	4.0	1.3	2.7	0.5	4.0	0.5	0.0	Clear 6, Cloudy 17, Overcast 5, Rain 3 days.
March	141	NE 4.0	9.0 ENE	3.0	1.6	2.6	0.2	4.1	0.5	0.1	Clear 6, Cloudy 10, Rain 15 days.
April	127	ENE 3.0	8.0 ENE	3.0	0.8	5.8	0.5	1.8	3.3	0.9	Cloudy 10, Overcast 4, Rain 16 days.
May	121	ENE 3.0	8.0 ENE	3.0	0.0	4.5	0.7	2.8	5.3	1.2	Clear 4, Cloudy 3, Overcast 6, Rain 18, Thunderstorm 4, Lightning and Thunder 11 days.
June	125	NE 4.0	8.0 ENE	3.0	1.6	3.2	0.0	5.3	3.7	0.5	Clear 7, Cloudy 12, Overcast 9, Rain 13, Thunderstorm 10 days.
July	109	NE 3.0	7.0 Var.	3.0	0.0	2.4	0.1	5.4	5.7	0.8	Clear 7, Cloudy 17, Overcast 7, Rain 18, Thunderstorm 13 days.
August	106	NE 4.0	6.0 Var.	3.0	0.0	3.1	0.1	5.0	5.7	0.6	Clear 8, Cloudy 18, Overcast 5, Rain 18, Dis. Thunderstorm and Lightning 16 days.
September	123	ENE 4.0	8.0 Var.	4.0	1.3	2.3	0.3	5.3	5.9	1.4	Clear 4, Cloudy 17, Overcast 6, Rain 14, Lightning and Thunderstorm 3 days.
October	139	E 3.0	8.0 NE	5.0	1.4	2.9	1.1	1.5	2.8	1.6	Clear 10, Cloudy 4, Overcast 6, Rain 10, Waterspout on 31st at 8.03 a.m. 10 miles from Shore, moving NE. Strong gales and heavy Seas.
November	233	NE 10.0	13.0 NE	8.0	3.5	4.6	1.0	0.9	2.2	1.5	Clear 13, Cloudy 1, Overcast 4, Rain 13. Strong Wind and heavy Seas.
December	130	NE 3.0	5.0 NE	3.7	2.4	3.5	1.1	0.8	3.5	2.2	Clear 25, Rain 5, Distant Thunder and Lightning 3 days.
Mean	136	NE 4.1	8.2 Var.	3.9	1.4	3.4	0.5	3.4	3.3	1.0	Rainfall for the year 5.67 inches above the average with 151 rain days.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
FEBRUARY, 1940.

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 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's 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	30.001	29.959	76.7	80.1	82.5	74.5	8.0	86.2	14	70.1	4	16.1
Kingston	24	29.960	29.909	70.8	84.1	85.8	69.7	16.1	89.7	15	64.4	4	25.3
Negril Point Light House	33	29.977	29.937	72.9	80.3	82.2	69.8	12.4	86.5	16	65.7	27	20.8
Montego Bay †	33	..	..	68.8	83.5	85.9	65.4	20.5	90.5	11	61.0	22	29.5
Castleton Gardens	496	..	..	66.8	77.2	81.6	65.0	16.6	87.0	10	60.0	14	27.0
Hope Gardens †	668	..	..	69.0	†	86.6	65.0	21.6	89.0	13	60.0	21	29.0
Hill Gardens, Blue Mountains	4,900	..	..	61.4	62.6	64.9	51.5	13.4	67.0	14	45.0	21	22.0

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.		L.	M.	U.	L.
Morant Point Light House	8	70	80	71	75	3.92	336	ENE	12.0	ENE	11.0	4.8	2.0	0.1	3.1	3.1	0.5
Kingston	24	65	83	69	61	1.49	208	N	6.7	SE	12.8	3.0	1.1	0.1	2.4	2.6	0.4
Negril Point Light House	33	68	83	69	70	1.84	185	NE	6.0	Var.	8.0	0.9	1.7	0.7	0.6	3.0	0.8
Montego Bay	33	66	90	75	75	2.61	..	NE	2.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	66	96	73	86	5.59	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	63	79	..	..	1.89	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	58	90	61	92	3.34	..	..	..	..	..	..	..	..	..	..	..

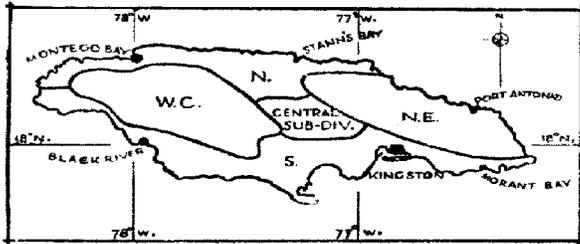
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.  
 † Not taken—

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.



February, 1940.

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	8.35	2.75	19	11	5.07	
Priestman's River	5.70	1.25	8	9	4.42	
Bath	7.24	1.45	8	14	4.24	
Barrett's Gap	6.15	1.00	5	13		
Millbank	11.21	1.72	24	22		
Comfort Castle	13.47	2.26	25	21		
Moore Town	17.27	1.55	23	24	12.67	
Port Antonio	9.26	2.63	25	9	5.80	
Passley Garden	12.93	4.95	24	18		
Fellowship	17.65	4.10	24	22	9.87	
Johnson River Br.	3.91	1.50	25	9	2.33	
Trinity Ville	6.74	2.60	5	8		
Fruitful Vale	12.69	2.40	1	20		
Hope Bay	12.42	2.00	24	15		
Cedar Valley	5.22	1.14	25	15	2.54	
Paradise	6.64	2.10	1	21		
Lennox	13.73	3.42	5	14		
Greenvale	11.50	1.71	28	17	12.12	
Darley	14.61	2.48	1	20		
Spring Garden					5.64	
Hill Gardens	3.40	1.26	25	9	4.27	
Buff Bay	11.85	2.65	16	16	7.54	
Buff Bay R. Est.	15.36	4.12	12	19		
Belvedere, Portland	16.76	4.12	28	17	9.61	
Windsor Castle, do.	15.97	3.97	28	17	5.59	
Balcarras	10.15	1.80	16	15		
Mt. Holstein					8.70	
Cedar Hurst	4.75	0.90	2	18		
Hardware Gap	4.94	1.44	25	14	3.99	

STATIONS.	February, 1940.				
	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	3.90	0.98	25	13	4.48
Mount Cressy	6.28	1.40	8		
Hermitage	2.38	1.24	25	11	
Mount Airy	4.68	1.23	2	11	
Stony Hill Ind. Sch.	3.18	1.77	25	13	2.32
Boon Hall	2.85	1.43	25	13	
Brandon Hill	2.47	0.85	26	7	
Enfield	11.18	2.01	1	17	
Agualta Vale	6.17	1.00	16	15	5.12
Castleton Gardens	5.59	1.80	25	13	5.31
Water Valley	5.26	1.05	16	13	4.81
Albany	7.19	1.39	23	16	4.62
Lawrence Tavern	2.49	1.39	25	3	2.48
Wey Hill	2.47	0.90	25	9	
Richmond, St. Mary	4.14	1.20	2	9	4.41
Quebec, St. Mary	7.43	1.20	28	14	4.37
Above Rocks	2.63	1.50	2	5	
Glengoffe	2.20	1.45	25	2	
Carew Castle	3.64	2.00	2	5	2.22
Hampstead, St. Mary	8.61	2.30	7	14	6.29
Windsor Castle do.	5.71	2.10	28	10	
Troja	3.27	1.00	8	7	
Pear Tree Grove	2.90	0.50	8	11	
Guy's Hill	3.82	0.75	25	8	3.96
Lucky Hill	4.81	0.84	25	16	4.95
Rio Hoe	3.11	0.50	26	11	3.88
Unity Valley	3.32	1.03	8	13	3.55
Moneague	2.78	1.20	8	8	3.97
Claremont	4.55	0.89	26	12	3.96
Averham Park	5.64	0.28	30	16	4.46
Albion	4.81	1.19	28	14	3.63
<b>NORTHERN DIVISION (N).</b>					
Port Maria	8.85	2.11	28	16	5.00
Wentworth	6.51	2.15	28	9	
Jacks River	9.88	3.10	28	16	
Oracabessa	11.17	3.80	28	15	
Huddersfield	9.21	3.81	25	7	
Ocho Rios	7.71	2.03	25	15	3.48
Rockfield	7.48	1.83	28	13	5.22
Liberty Hill	3.51	1.25	29	8	4.46
St. Ann's Bay	12.51	3.80	28	13	4.60
Richmond Estate	10.09	3.74	25	11	4.10
Runaway Bay	8.92	4.20	1	7	2.26
Knapdale	4.38	1.30	28	12	
Alexandria	2.08	0.76	25	8	2.93
Bel-Air	10.00	2.00	25	11	
Brown's Town	5.52	2.03	25	12	4.29
Wilton	6.98	2.90	25	13	
Watt Town, St. Ann	2.91	1.04	25	7	2.90
Home Castle	6.80	3.75	25	7	3.30
Arcadia	4.72	1.15	25	11	2.61
Vale Royal	4.04	1.30	25	12	2.59
Harmony Hall	6.31	1.50	1	9	
Duncans	6.09	1.76	19	6	
Clark's Town	3.65	1.80	25	7	
Falmouth	2.82	1.15	25	7	1.82

STATIONS.	February, 1940.					STATIONS.	February, 1940.				
	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>	In.s.	In.s.			In.s.	<b>WEST-CENTRAL DIVISION, contd.</b>	In.s.	In.s.			In.s.
Adelphi	2.84	1.52	26	4		Mereworth	3.71	1.30	28	11	
Barrett Hall	4.08					Mandeville	2.75	1.03	28	9	2.68
Success	4.26				2.23	Ulster Spring	2.45	1.20	25	7	3.43
Rose Hall	3.30				2.36	Greenvale	2.21	1.12	25	7	
Cinnamon Hill	3.95				2.54	Albert Town	2.20	1.30	25	5	3.06
Tryall	5.35				1.53	Craig Head	4.25	1.77	25	5	
Running Gut	3.91				2.17	Warsop	3.65	2.10	25	10	
Spring Estate	4.25				2.44	Troy	1.73	1.30	25	3	3.09
Friendship	4.27	2.55	7	7	2.27	Wallingford	1.69	0.81	25	7	3.43
Retirement	3.25	1.72	7	7	1.29	Balaclava	1.68	1.08	25	5	2.50
Rose Mount	2.31	0.83	25	9		Braes River					
Montego Bay	2.61	1.09	25	4	1.83	Wakefield	1.56	1.15	25	7	
Anchovy	1.00	0.52	25	6	1.41	Aberdeen	1.53	0.86	25	4	
Hopewell	2.14	0.80	19	6		Accompong					
Blue Hole	1.41	0.89	26	3	3.79	Maggotty	2.11	1.37	25	5	3.45
Cascade	4.27	0.89	19	8		Lacovia	1.39	1.02	25	3	
Lucea	1.38	0.40	25	11	3.36	Mulgrave	1.89	0.86	27	10	
Houghton Court	1.89	1.03	25	9	2.13	Holland					
Kendal—Hanover	2.20	0.95	25	6		Ipswich					
Cousins Cove	2.63	1.04	8	13		Ginger Hill	1.07	0.31	25	6	
Green River	2.23	1.02	25	6		Kempshot	4.41	2.08	7	14	2.71
Green Island	2.02	0.44	8	5	2.12	Mochó, St. James	3.12	2.28	25	3	
Houghton Hall	0.97	0.37	25	7		Catadupa	2.28	1.77	26	6	3.11
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	1.51	0.88	25	8	3.23
Knollis	2.75	1.81	2	4		New Market	2.17	1.95	25	2	4.05
Highgate (St. Cath.)	4.75	2.75	2	14		Springfield					
Rio Magno	2.67	0.95	2	6		Kew Park	2.04	1.30	25	6	2.84
Riversdale	3.88	1.50	2	5		The Bog	2.68	1.71	25	8	4.05
Headworks, R. C.C.	2.23	1.20	2	4	1.64	Bethel Town Dist.	2.56	1.08	25	11	4.02
Bog Walk	2.58	1.70	2	3		Burnt Ground					2.67
Linstead	2.28	1.34	2	6	2.17	Darlston	3.57	1.63	25	8	3.62
Ewarton	2.93	1.30	2	5		Bluefields	1.88	1.32	25	11	3.73
Cave Valley	2.56	0.98	28	5	2.14	Whithorn	2.05	1.95	25	2	3.03
Guanaboa Vale	4.24	1.55	19	4		Water Works Pen	3.02	1.90	25	6	3.20
Point Hill	4.17	1.94	2	13	3.37	Williamsfield, Wld.	3.67	1.95	25	8	
Brown's Hall	3.21	1.89	2	7	2.18	Baulk	1.66	0.46	25	4	
Bellas Gate	4.92	1.79	2	10	1.67	Askenish	2.30	0.86	8	5	3.06
Rock River	1.96	1.26	29	3		Grange Hill	1.76	1.00	25	5	2.75
Crofts Hill	2.00	0.72	28	6	1.47	Mount Eagle	0.98	0.60	25	3	
Far Enough						King's Vale	0.60	0.36	25	2	2.62
Suttons	2.39	0.95	28	9							
Colonel's Ridge	2.30	1.54	2	4		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	2.08	0.70	28	10	1.58	Morant Point L.H.	3.92	1.12	28	15	2.73
Crooked River	2.66	1.40	28	8		Golden Grove	6.00	1.28	5	15	
James Hill	2.15	1.70	28	4		Pleasant Hill	4.70	1.30	25	15	2.53
Frankfield	2.62	1.15	28	6	2.29	East Prospect	2.55	0.77	5	14	2.52
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.10	0.46	25	11	1.95
Mochó, Clarendon	3.04	1.83	27	3	1.66	Aeolus Valley	1.37	1.31	25	12	
Thompson Town	4.71	2.30	28	11		Yallahs	1.49	1.20	25	4	
Clarendon Park						Easington	2.91	2.03	25	5	1.36
Porus	3.71	2.39	28	8		Llandewey					
Borobridge	1.85	1.00	29	3		Mavis Bank	3.31	1.35	2	10	
Spaldings	3.08	1.30	28	7	2.83	Bull Bay	0.76	0.76	26	1	0.42
Williamsfield	2.20	1.07	28	9		Dallas Castle	2.02	1.10	26	3	
Brokenhurst	4.44	2.09	28	10	2.47	Gordon Town	2.59	1.22	25	5	1.77
Shooter's Hill	1.44	0.20	20	7	2.18	Irish Town	2.50	1.00	22	6	1.65
Wait-a-bit	3.39	1.59	25	6		Hope Gardens	1.89	1.40	26	6	1.26
Christiana	2.51	0.79	28	9	2.61	Waireka					
Holmwood						Iver					
Clifton Hill	4.02	1.60	27	7	2.68	Plumb Point L.H.	1.60	1.05	25	4	1.65
Kendal, Manchester	1.44	0.77	28	5	2.49						

STATIONS.	February, 1940.					STATIONS.	February, 1940.				
	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. . . . .	3.45	2.12	25	3	1.22	Newport, Man. . . . .	2.87	1.57	28	3	2.55
Up-Park Camp . . . . .	2.62	2.00	25	4		Alligator Pond . . . . .					1.33
Cavaliers . . . . .	2.21	1.65	25	7		Fairfield . . . . .					2.45
St. George's College . . . . .	2.21	1.50	25	6		Pepper . . . . .					
Upper Kingston . . . . .	2.13	1.60	25	6	0.89	Myersville . . . . .					
Parade Garden . . . . .	1.75	1.29	25	3		Goshen . . . . .					
Kingston P.W.O. . . . .	1.49	1.08	25	4	0.61	Southfield, St. Eliz. . . . .					2.59
Constant Spring . . . . .	3.60	1.80	25	8		Munro . . . . .	3.79	1.51	28	16	
Halfway Tree . . . . .	2.29	1.30	25	5	0.85	Windsor, St. Eliz. . . . .	4.45	1.22	21	9	
Clifton Pen . . . . .	2.29	1.46	25	5	0.64	Torrington . . . . .	3.19	1.20	28	6	2.45
Seaward Pen . . . . .	2.31	1.36	26	3		Santa Cruz . . . . .					2.47
Red Hills . . . . .	4.18	1.60	2	5		Hounslow . . . . .	3.34	1.32	1	4	
Quarantine Station . . . . .	1.25	0.80	26	5	0.44	Pedro Plains . . . . .					1.38
Hematine . . . . .	1.07	0.71	25	3	1.43	Mountainside . . . . .	1.15	0.70	26	2	2.27
Spanish Town . . . . .	1.93	0.97	2	5	1.33	Fort Charles . . . . .	1.95	1.02	25	2	
Hog Hole, St. Cath. . . . .	2.27	1.36	2	5	1.72	Black River . . . . .	1.36	1.14	25	3	1.70
Old Harbour . . . . .	2.03	0.80	25	5	1.77	Mt. Charles . . . . .	1.87	1.30	25	4	
May Pen . . . . .	3.38	2.00	28	9	1.77	Font Hill . . . . .					1.84
Glen Muir . . . . .	3.15	1.75	28	3		Mount Edgecombe . . . . .	1.35	0.90	25	4	2.47
Cottage . . . . .	3.13	1.58	28	4		Sav.-la-Mar . . . . .	0.78	0.40	25	5	2.08
Belle Plain . . . . .	7.32	2.30	28	5		Little London . . . . .	2.06	1.79	25	4	3.12
Milk River . . . . .	2.75	1.40	25	4	1.20	Retreat . . . . .					2.71
Retrieve . . . . .					1.76	Negril Point L.H. . . . .	1.84	1.00	24	4	1.86
Stone's Hope . . . . .	5.05	1.77	28	11	2.15						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	February.			
	Rainfall, inches.		Days on which Rain fell.	
	1940.	Ave.	1940.	Ave.
North-eastern . . . . .	6.92	5.48	13	10
Northern . . . . .	4.20	2.48	8	6
West-central . . . . .	2.52	2.84	6	7
Southern . . . . .	2.31	1.72	6	6
The Island means . . . . .	3.99	3.13	8	7

SHOCKS OF EARTHQUAKE IN FEBRUARY, 1940.

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—FEBRUARY.

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

The greatest total fall for the month was 17.65 inches at Fellowship in the North-Eastern Division, and the heaviest fall in 24 hours was 4.95 inches at Passley Garden in the same Division on the 24th. The heaviest precipitation occurred during the last week of the month, and particularly on the 25th and 28th.

The mean number of rain days was 8, the average being 7. Moore Town 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. Portland, with 11.91 inches, was highest; St. Mary, with 6.93 inches, next; and St. Ann, with 5.98 inches third. Kingston, with 1.84 inch, was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	1.84	0.61	St. James	3.34	2.20
St. Andrew	2.97	2.51	Hanover	2.00	1.93
St. Thomas	4.18	2.70	Westmoreland	2.13	2.09
Portland	11.91	7.77	St. Elizabeth	2.16	3.31
St. Mary	6.93	4.93	Manchester	3.51	3.09
St. Ann	5.78	3.45	Clarendon	2.98	2.26
Trelawny	3.55	2.76	St. Catherine	2.95	2.57

## CITY OF KINGSTON.

The total rainfall for the month of February was 1.49 of an inch, representing nearly two and a half times the 60-year average of 0.61 inch. The greatest fall in 24 hours was 1.08 of an inch on the 25th. There were four days with appreciable rain as compared to the 49-year average of four. The upper boundary of Kingston gauged 2.13 inches with 6 rain-days.

The number of days upon which distant rain was observed are as follows:—to the northward on four days, northeast on four, to east on one, to southeast on three, and to south on two days. Fresh to brisk northers on the 3rd, from 21st to 23rd, and on the 26th.

The mean barometric pressure was 29.948 inches, the 33-year normal being 29.981 inches or 0.033 inch below the normal. The highest reading was 30.064 inches on the 22nd at 3 p.m., and the lowest was 29.860 inches on the 20th at 7 a.m., corrected for diurnal variation.

Mean temperature for the month was 77.1°, based upon four observations per day, the 33-year normal being 75.7° or 1.4° above the normal. The extreme maximum was 89.7° on the 15th and the extreme minimum was 64.4° on the 4th—giving an extreme monthly range of 25.3°. On the other hand, the lowest maximum was 78.2° on the 5th, and the highest minimum was 75.0°, on the 18th. The maximum was below 90° throughout, and the minimum was 70° and above 14 times. The greatest daily range was 23.1° on the 27th and the least was 9.8° on the 18th.

The mean daily miles of wind registered was 208, the 25-year normal being 174, giving 20% above the normal for the month. Greatest number of miles of wind registered in 24 hours was 484 on the 22nd and the least was 113 on the 5th. Greatest velocity 30 miles per hour on the 22nd at 2.45 p.m. South-easterly wind appeared early once, and continued after 7 p.m. seven times—and throughout the night twice.

Mean relative humidity 76% which is 2% below the 33-year normal, of 78%. The mean 7 a.m. was 83% and mean 3 p.m. was 61%. Lowest 7 a.m. was 71% on the 22nd and the lowest 3 p.m. was 46% on the 27th.

Overcast conditions prevailed in the forenoon on 11 occasions, and in the afternoon on 15.

Total evaporation for the month of February 4.97 inches, the 10-year average showing 4.90 inches.

Mean daily number of sunshine hours 7.7.

## NORTHERS OF FEBRUARY 1940.

At Kingston, during the early morning hours of the 21st February, a brisk "norther" appeared varying in surface velocity from fresh to brisk until it ceased in the forenoon of the 23rd February.

The surface wind recorded the following:—

Wind, Direction and Velocity  
in M.P.H.

	7 a.m.	3 p.m.
21st Feb.	..	N. 16
22nd Feb.	N. 18	NNW. 22
23rd Feb.	N. 10	..

The minimum temperature was as follows:—21st 70.6°, 22nd 71.4° and 23rd 69.3°, giving a mean : 70.4°. The 33-year normal being 67.3° or 3.1° above the normal.

The relative humidity was as follows:—

	7 a.m.	3 p.m.
21st	78%	52%
22nd	71%	51%
23rd	72%	56%
Means	74%	53%

The 33-year normal for 7 a.m. being 83% and 3 p.m. 66%, hence the forenoon was 9% below and the afternoon was 13% below the normal. There was no appreciable rainfall during this period.

From Pilot Balloon ascents made in the forenoon of the 21st, the following results were obtained:—  
Balloon released at 7.22 a.m. on 21st:

Altitude in Feet.	Direction.	Velocity in M.P.H.
700	N	19
1,350	N	15
2,000	N	9
2,600	NW	4
3,200	W	4

It will be seen that the "Norther" was limited to a height of about two-thirds of a mile. After that point the wind continued gentle from the NW up to 8,500 ft., then somewhat WSW to further heights.

On the following morning the 22nd this "Norther" continued and a Pilot balloon ascent gave the following results:—

Altitude in Feet.	Direction.	Velocity in M.P.H.
700	N	25
1,350	NNE	22
2,000	NNE	13
2,600	NE	8
3,200	NE	3

Following this height, the wind changed to south up to 7,300 ft. with a mean velocity of not more than 10 m.p.h., after that the wind blew from W.S.W.

Similar to the preceding day, this "Norther" ceased at about two-thirds of a mile, but the wind velocity at 10,000 ft. increased to 24 miles per hour.

The relative humidity on the 22nd continued as low as on the 21st and the barometric pressure on the 22nd at 7 a.m. was about 0.05 inch above the normal and at 3 p.m. it was 0.08 inch above.

A second "Norther" for the month was experienced on the 26th in the early hours, but the surface wind at 7 a.m. on the 26th was N.N.W. 12 miles per hour, which shewed less than the previous "Norther" of the 21st.

The minimum temperature was, on the 26th, 69.5°, and 27th, 65.5°.

The relative humidity was as follows:—

	7 a.m.	3 p.m.
26th	84%	62%
27th	80%	46%

The 33-year normal for 7 a.m. being 83%, and 3 p.m. 66%. The relative humidity clearly dropped as in the previous case. The afternoon of the 27th indicated 20% below the normal. This "Norther" was preceded by a rainfall of over one inch on the 25th.

From a Pilot balloon ascent made on the 26th, released near to 8 a.m., the following results were obtained:—

Altitude in feet.	Direction.	Velocity M.P.H.	Altitude in Feet.	Direction.	Velocity M.P.H.
700	N	22	5,600	NNW	11
1,350	N	33	6,100	NNW	15
2,000	N	36	6,700	NW	10
2,600	N	35	7,300	W	5
3,200	N	29	7,900	W	6
3,800	NNE	14	8,500	W	9
4,400	N	5	9,100	W	9
5,000	NW	7	9,700	W	12
			10,300	W	13

This was a thicker "Norther" than that of the 21st or about twice the height, for it was not before it attained an altitude of about 1½ mile above the ground that the direction changed from NW to W. At two miles altitude it blew from the west at 13 miles per hour. It is remarkable that although the wind at 2,000 ft. altitude attained a velocity of 36 m.p.h., which is more than double that of the "Norther" of the 21st, the surface wind was much less.

The barometric pressure on the preceding day, 25th, fell 0.09 of an inch at 7 a.m. and 0.07 inch at 3 p.m. below the normal. On the 26th at 7 a.m. the pressure was 0.07 inch below and on the 29th February, the reading returned to normal.

The rubber Pilot balloons employed, when inflated, in the balance, measure 25 inches in diameter, and weigh about 28 grams. The ascending rate is estimated at 180 metres, or about 600 ft. per minute.

## MORANT POINT LIGHT HOUSE.

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 1939, is appended.

The extreme maximum temperature was 92.3° on the 21st of August, and the extreme minimum was 63.6° on the 5th of April. The extreme range for the year was therefore 28.7°. The greatest monthly range was 26.1° in April and the least was 14.0° in February. The greatest monthly rainfall was 17.48 inches in November and the least was 0.27 inch in February. There were 155 days with appreciable rain during the year. November had the greatest with 21 days, and February the least with 7. The total rainfall for the year was 63.52 inches or 3.15 inches below the 60-year average of 66.67 inches. The deficiency was not considerable, and was apparent from February to May. On the other hand, the rainfall for November was more than twice the normal of 7.97 inches. The average fall for each day with rain (155 days) was 0.41 inch. The mean total daily miles of wind was 297. November recorded the greatest with 357, followed by December with 342, and October the least, with 214. The observations were conducted by Mr. Charles Durrant, Superintendent of the Light House up to the 12th of November, 1939, when he retired. Thereafter they were carried out by Mr. C. N. Ruddy who succeeded him.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
March 20th, 1940.

MORANT POINT, JAMAICA.—METEOROLOGICAL RESULTS FOR THE YEAR 1939.

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.	°	°	°	°	°	°	°	Max.	Min.	°	°	Ins.	
January	30.027	29.990	77.9	77.2	80.2	82.4	74.0	8.4	85.2	69.9	15.3	70	70	5.23	16
February	30.047	30.023	78.2	77.0	80.4	82.7	74.8	7.9	84.6	70.6	14.0	69	70	0.27	7
March	30.027	29.942	78.3	76.7	81.2	83.1	74.3	8.8	84.8	68.4	16.4	69	70	1.44	13
April	30.011	29.980	79.2	78.0	81.9	84.7	74.3	10.4	89.7	63.6	26.1	71	79	2.40	16
May	29.969	29.938	80.8	80.0	83.2	85.9	76.2	9.7	90.0	69.0	21.0	73	79	5.64	15
June	29.990	29.971	81.6	81.3	82.9	86.4	77.9	8.5	89.6	71.0	18.6	75	80	5.16	13
July	30.005	29.998	83.4	82.4	85.4	87.9	79.8	8.1	90.5	75.6	14.9	75	78	1.39	9
August	29.945	29.918	84.4	82.8	88.2	89.0	79.7	9.3	92.3	74.1	18.2	76	79	1.23	9
September	29.948	29.910	83.7	82.2	86.5	88.9	79.3	9.6	91.3	74.8	16.5	76	82	3.15	11
October	29.888	29.835	82.2	82.1	82.8	88.1	77.4	10.7	90.9	72.1	18.8	94	84	14.15	14
November	29.899	29.844	79.6	79.3	81.5	83.7	75.8	7.9	86.9	70.9	16.0	74	85	17.48	21
December	29.992	29.946	79.4	79.0	80.5	83.1	77.2	5.9	87.0	72.9	14.1	72	80	5.98	11
Means	29.979	29.941	80.7	79.8	82.9	85.5	76.7	8.8	88.6	71.1	17.5	75	80		
Totals														68.52	155

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 8 ft. Height of Thermometer above ground 4 ft. 6 ins. Height of Rain Gauge above the ground 3 ft. Height of Anemometer above the ground of 18 ft.

MORANT POINT, 1939—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	307	NE 16.0	ENE 13.0	3.0	2.2	2.0	2.6	0.5	0.3	Overcast 5 days.
February	316	ENE 15.0	ENE 14.0	2.7	1.8	1.6	2.7	0.1	0.4	Overcast 3 days.
March	281	NE 11.0	ENE 11.0	2.2	0.5	1.8	1.7	0.3	0.3	Overcast 2 days.
April	308	ENE 13.0	ENE 13.5	2.4	1.9	2.5	2.9	0.6	1.2	Overcast 4 days.
May	274	ENE 13.0	E 13.0	2.2	2.3	2.2	2.4	1.4	2.0	Overcast 3 days.
June	336	ENE 14.0	ENE 15.0	2.1	1.9	2.8	1.8	1.5	2.6	Overcast 4 days.
July	325	ENE 16.0	ENE 14.0	3.0	1.4	3.3	3.0	1.4	1.9	Overcast 8 days; Thunderstorm 20th.
August	267	ENE 14.0	ENE 12.0	1.2	0.9	1.8	2.1	2.3	1.8	Thunderstorm 6th.
September	244	ENE 11.7	ENE 11.6	1.8	0.8	1.8	1.9	2.4	2.6	Overcast 4 days.
October	214	ENE 8.0	ENE 8.0	3.5	1.9	1.3	1.9	1.5	1.7	Thunderstorm 31st.
November	357	ENE 12.0	ENE 13.0	4.7	4.2	2.1	2.4	1.3	1.8	S. W. gale 3rd and S. E. 18th.
December	342	ENE 10.0	ENE 10.0	3.5	3.6	2.1	2.1	2.9	2.0	Lightning 5th and 18th.
Mean	297	ENE 12.9	ENE 12.3	2.7	2.0	2.1	2.3	1.4	1.6	Overcast 28 days, thunderstorm 3, gale 3 and lightning 2.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

MARCH, 1940.

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	29.979	29.869	76.9	81.8	84.4	74.6	9.8	87.5	30	63.5	7	24.0
Kingston	24	29.934	29.881	71.1	84.8	86.4	69.4	17.0	90.9	9	64.6	6	26.3
Negril Point Light House	33	29.951	29.902	75.4	82.5	84.8	71.1	13.7	88.0	14	66.3	10	21.7
Montego Bay †	33	..	..	69.2	85.8	87.6	66.7	20.9	90.0	29	62.0	4*	28.0
Castleton Gardens	496	..	..	63.2	80.4	85.0	63.1	21.9	92.0	28	55.0	10	37.0
Hope Gardens †	668	..	..	66.2	†	87.0	65.2	21.8	91.0	31	62.0	3*	29.0
Hill Gardens, Blue Mountains	4,900	..	..	62.0	63.7	66.8	56.6	10.2	72.0	27*	50.0	1*	22.0

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	70	80	72	72	0.66	266	ENE	9.0	ENE	8.0	1.9	2.9	1.1	1.8	3.0	0.8
Kingston	24	66	80	69	61	0.05	188	N	4.9	SE	13.3	0.5	1.1	1.3	1.5	3.6	0.1
Negril Point Light House	33	68	80	71	70	2.31	166	E	6.0	var.	9.0	1.3	0.3	0.8	2.3	0.7	0.4
Montego Bay	33	67	91	75	70	2.67	..	NE	2.6	NNE	7.0	..	..	..	..	..	..
Castleton Gardens	496	59	87	74	80	2.94	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	60	82	..	..	0.23	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	57	84	60	86	0.21	..	..	..	..	..	..	..	..	..	..	..

\* 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.

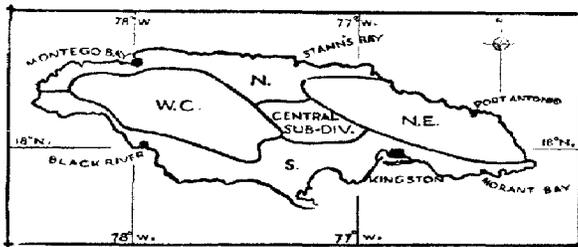
† Not taken.

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.



March, 1940.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
March, 1940.					
NORTH-EASTERN DIVISION (N.E.)					
Manchioneal	0.90	0.90	25	1	3.08
Priestman's River	0.00	..	..	0	4.38
Bath	0.83	0.31	13	5	4.29
Barrett's Gap	1.96	1.50	22	5	..
Millbank	2.90	0.95	16	9	..
Comfort Castle	3.38	1.03	18	10	..
Moore Town	2.37	0.62	12	10	9.97
Port Antonio	0.45	0.45	27	1	4.74
Passley Garden	0.66	0.66	8	1	..
Fellowship	0.91	0.32	18	6	7.25
Johnson River Br.	0.52	0.42	22	2	2.76
Trinity Ville	0.00	..	..	0	..
Fruitful Vale	1.38	0.36	12	6	..
Hope Bay	0.75	0.28	13	3	..
Cedar Valley	0.10	0.10	26	1	3.00
Paradise	0.24	0.14	26	2	..
Lennox	3.10	1.50	7	6	..
Greenvale	1.27	0.64	16	6	10.12
Darley	0.79	0.21	11	6	..
Spring Garden	..	..	..	..	5.81
Hill Gardens	0.21	0.09	15	3	4.55
Buff Bay	0.80	0.35	8	4	5.35
Buff Bay R. Est.	2.77	0.70	8	9	..
Belvedere, Portland	3.26	0.92	23	8	6.53
Windsor Castle, do.	1.55	0.90	25	5	5.49
Balcarres	1.55	0.87	16	4	..
Mt. Holstein	..	..	..	..	7.00
Cedar Hurst	0.71	0.37	25	4	..
Hardware Gap	0.12	0.12	13	1	4.07

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
March, 1940.					
NORTH-EASTERN DIVISION, contd.					
Rose Hill	0.16	0.07	16	3	4.53
Mount Cressy	1.01	0.35	16	..	..
Hermitage	0.46	0.40	23	3	..
Mount Airy	0.77	0.35	22	3	..
Stony Hill Ind. Sch.	0.37	0.19	4	4	2.97
Boon Hall	0.53	0.37	23	6	..
Brandon Hill	1.01	0.36	23	5	..
Enfield	4.32	1.35	20	5	..
Agualta Vale	1.04	0.58	23	3	4.43
Castleton Gardens	2.94	1.30	8	6	4.73
Water Valley	1.05	0.95	22	2	4.29
Albany	..	..	..	..	3.87
Lawrence Tavern	0.50	0.50	23	1	2.75
Wey Hill	1.55	0.41	16	6	..
Richmond, St. Mary	2.29	1.50	23	5	3.71
Quebec, St. Mary	0.40	0.40	23	1	2.91
Above Rocks	0.92	0.68	23	4	..
Glengoffe	0.70	0.55	25	2	..
Carew Castle	1.38	1.06	23	3	3.02
Hampstead, St. Mary	1.17	1.12	23	2	4.72
Windsor Castle do.	3.48	3.30	23	3	..
Troja	0.95	0.55	25	2	..
Pear Tree Grove	2.80	2.00	23	3	..
Guy's Hill	2.97	2.65	23	3	3.14
Lucky Hill	1.05	0.66	23	6	3.14
Rio Hoe	1.38	1.16	23	3	3.62
Unity Valley	1.42	1.16	23	3	3.64
Moneague	1.40	1.40	23	1	3.40
Claremont	0.56	0.36	24	1	3.17
Averham Park	0.70	0.40	25	3	3.72
Albion	1.55	1.46	23	2	3.50
NORTHERN DIVISION (N).					
Port Maria	0.35	0.20	1	3	3.06
Wentworth	..	..	..	..	..
Jacks River	0.13	0.08	2	2	..
Oracabessa	0.47	0.47	24	1	..
Huddersfield	0.40	0.40	24	1	..
Ocho Rios	0.07	0.02	23	3	2.50
Rockfield	0.27	0.27	23	5	3.41
Liberty Hill	0.04	0.04	14	1	3.67
St. Ann's Bay	0.10	0.10	24	1	2.94
Richmond Estate	0.27	0.27	24	1	2.71
Runaway Bay	0.00	..	..	0	1.45
Knapdale	0.69	0.44	23	3	..
Alexandria	2.07	1.59	23	3	1.91
Bel-Air	0.30	0.20	23	2	..
Brown's Town	1.51	1.24	23	3	3.05
Wilton	0.35	0.25	23	3	..
Watt Town, St. Ann	2.17	1.18	23	5	2.28
Home Castle	..	..	..	..	264
Arcadia	1.28	1.18	23	2	2.05
Vale Royal	0.77	0.39	23	4	2.32
Harmony Hall	0.22	0.22	23	1	2.04
Duncans	0.61	0.61	25	1	..
Clark's Town	0.92	0.50	24	3	..
Falmouth	0.95	0.50	24	2	1.77

STATIONS.	March, 1940.					STATIONS.	March, 1940.				
	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>	Ins.	Ins.			Ins.	<b>WEST-CENTRAL DIVISION, contd.</b>	Ins.	Ins.			Ins.
Adelphi ..	2.63	1.88	24	3	..	Mereworth ..	1.79	0.56	1	6	..
Barrett Hall ..	..	..	..	..	..	Mandeville ..	1.60	1.42	23	3	4.18
Success ..	..	..	..	..	1.74	Ulster Spring ..	2.11	1.10	23	4	4.09
Rose Hall ..	..	..	..	..	1.64	Greenvale ..	2.10	2.07	23	2	..
Cinnamon Hill ..	..	..	..	..	1.69	Albert Town ..	3.46	1.10	23	5	4.05
Tryall ..	..	..	..	..	1.60	Craig Head ..	4.57	2.29	23	4	..
Running Gut ..	..	..	..	..	1.55	Warsop ..	5.94	1.50	23	8	..
Spring Estate ..	..	..	..	..	1.52	Troy ..	7.45	2.10	23	5	5.88
Friendship ..	2.93	1.30	23	3	2.43	Wallingford ..	2.39	1.06	14	5	4.70
Retirement ..	2.19	1.70	23	4	3.02	Balaclava ..	2.48	1.30	23	4	4.47
Rose Mount ..	1.37	0.70	23	5	..	Braes River ..	..	..	..	..	..
Montego Bay ..	2.67	1.78	27	5	1.65	Wakefield ..	2.82	1.69	24	4	..
Anchovy ..	1.34	0.52	24	7	2.13	Aberdeen ..	5.13	2.45	14	9	..
Hopewell ..	4.50	2.15	24	3	..	Accompong ..	..	..	..	..	..
Blue Hole ..	3.88	1.89	24	4	3.01	Maggotty ..	3.09	1.16	23	6	5.93
Cascade ..	4.69	1.41	23	6	..	Lacovia ..	4.34	1.61	23	8	..
Luca ..	2.28	1.16	23	6	2.37	Mulgrave ..	5.75	1.80	26	6	..
Haughton Court ..	1.94	0.90	23	6	2.22	Holland ..	..	..	..	..	..
Kendal—Hanover ..	0.41	0.20	26	4	..	Ipswich ..	6.23	1.78	23	7	..
Cousins Cove ..	1.28	0.42	23	9	..	Ginger Hill ..	5.55	2.38	23	6	..
Green River ..	0.83	0.63	23	2	..	Kempshot ..	1.31	0.64	23	5	3.11
Green Island ..	0.99	0.70	23	4	3.29	Mocho, St. James ..	3.27	1.83	23	4	..
Haughton Hall ..	0.71	0.45	23	5	..	Catadupa ..	4.75	1.88	25	5	4.11
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	3.50	2.08	26	6	4.77
Knollis ..	0.43	0.41	23	2	..	New Market ..	5.23	3.00	23	9	5.53
Highgate (St. Cath.) ..	1.17	0.78	14	10	..	Springfield ..	4.80	2.30	24	7	..
Rio Magno ..	1.91	0.94	23	3	..	Kew Park ..	3.33	1.25	25	6	4.42
Riversdale ..	2.65	1.65	25	4	..	The Bog ..	6.42	2.29	25	10	6.34
Headworks, R.C.C. ..	1.15	0.67	12	3	2.90	Bethel Town Dist. ..	5.20	1.64	26	10	4.69
Bog Walk ..	0.78	0.78	23	1	..	Burnt Ground ..	3.30	1.68	23	6	4.53
Linstead ..	0.81	0.46	25	2	3.08	Darliston ..	3.95	2.15	23	4	6.13
Ewarton ..	2.12	1.45	23	3	..	Bluefields ..	3.26	1.05	14	7	6.93
Cave Valley ..	1.94	1.85	23	2	2.70	Whithorn ..	1.94	0.44	25	6	4.83
Guanaboa Vale ..	0.50	0.50	23	1	..	Water Works Pen ..	2.23	0.48	25	8	5.22
Point Hill ..	1.42	0.96	23	4	4.66	Williamsfield, Wld. ..	3.97	2.70	23	8	..
Brown's Hall ..	2.18	0.75	22	4	4.35	Bauk ..	4.39	1.90	23	7	..
Bellas Gate ..	0.10	0.10	14	1	2.50	Askenish ..	2.05	1.10	23	4	4.08
Rock River ..	0.39	0.22	22	2	..	Grange Hill ..	4.73	1.90	23	4	5.22
Crofts Hill ..	0.90	0.47	23	3	2.80	Mount Eagle ..	3.88	2.25	23	7	..
Kellit's ..	0.88	0.65	23	4	..	King's Vale ..	0.56	0.36	26	2	4.22
Suttons ..	0.71	0.68	23	2	..						
Colonel's Ridge ..	1.12	0.95	23	2	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	0.40	0.46	23	2	2.60	Morant Point L. H. ..	0.66	0.33	8	6	2.26
Crooked River ..	1.31	1.10	23	5	..	Golden Grove ..	..	..	..	..	..
James Hill ..	2.76	1.53	23	3	..	Pleasant Hill ..	1.51	1.10	13	6	3.39
Frankfield ..	3.05	3.05	23	1	2.14	East Prospect ..	1.12	0.65	13	5	2.96
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	0.24	0.12	13	3	1.96
Mocho, Clarendon ..	0.57	0.57	27	1	3.22	Aeolus Valley ..	0.28	0.22	22	3	..
Thompson Town ..	2.02	1.95	23	2	..	Yallahs ..	0.00	..	..	0	..
Clarendon Park ..	..	..	..	..	..	Easington ..	0.37	0.35	23	2	1.39
Porus ..	2.39	1.94	23	3	..	Llandewey ..	..	..	..	..	..
Borobridge ..	3.05	2.00	23	3	..	Mavis Bank ..	0.12	0.12	13	1	..
Spaldings ..	3.60	3.25	23	3	2.66	Bull Bay ..	0.00	..	..	0	0.41
Williamsfield ..	6.63	5.76	23	3	..	Dallas Castle ..	..	..	..	..	..
Brokenhurst ..	1.14	0.44	5	4	3.05	Gordon Town ..	0.14	0.10	25	2	1.70
Shooter's Hill ..	2.90	2.90	23	1	3.02	Irish Town ..	0.00	..	..	0	1.98
Wait-a-bit ..	4.09	2.00	19	3	..	Hope Gardens ..	0.23	0.20	31	3	2.01
Christiana ..	2.65	2.35	23	3	1.23	Waireka ..	..	..	..	..	..
Holmwood ..	2.87	1.50	23	4	..	Iver ..	..	..	..	..	..
Clifton Hill ..	1.35	0.75	24	2	2.52	Plumb Point L. H. ..	0.19	0.19	22	1	0.83
Kendal, Manchester ..	2.42	1.85	23	3	3.28						

STATIONS.	March, 1940.					STATIONS	March, 1940.				
	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.		
SOUTHERN DIVISION, <i>contd.</i>	Ins.	Ins.			Ins.	SOUTHERN DIVISION, <i>contd.</i>	Ins.	Ins.			Ins.
King's House Gar.	0.22	0.22	13	1	1.54	Newport, Man.	0.25	0.25	24	1	2.96
Up-Park Camp	0.01	0.01	31	1		Alligator Pond	0.00			0	2.96
Cavaliers	0.09	0.07	23	2		Fairfield					1.61
St. Georges College	0.27	0.27	22	1		Pepper					
Upper Kingston	0.22	0.22	28	1	0.76	Myersville					
Parade Garden	0.32	0.32	23	1		Goshen					
Kingston P.W.O.	0.05	0.05	22	1	0.94	Southfield, St. Eliz.					2.11
Constant Spring	0.07	0.07	13	1		Munro	0.38	0.35	23	3	
Halfway Tree	0.00			0	1.16	Windsor, St. Eliz.	0.07	0.03	23	3	
Clifton Pen	0.16	0.16	22	1	1.06	Torrington	0.10	0.10	24	1	3.13
Seaward Pen						Santa Cruz	4.78	1.60	23	9	4.61
Red Hills	0.00			0		Hounslow	0.22	0.22	1	1	
Quarantine Station	0.00			0	0.55	Pedro Plains	1.12	0.70	23	3	1.63
Hematine	0.39	0.39	13	1	152	Mountainside	0.00			0	2.32
Spanish Town	0.24	0.15	13	2	1.98	Fort Charles	0.64	0.64	23	1	
Hog Hole, St. Cath.	0.98	0.68	12	4	2.26	Black River	0.77	0.57	14	3	2.60
Old Harbour	0.21	0.15	23	2	2.40	Mt. Charles	4.86	1.67	31	7	
May Pen	0.37	0.23	12	2	2.53	Font Hill					3.45
Glen Muir	0.72	0.50	22	2		Mount Edgecombe	2.45	0.75	14	10	4.10
Cottage	0.49	0.31	23	3		Sav.-la-Mar	3.98	2.59	26	7	2.81
Belle Plain	1.72	1.57	23	2		Little London	2.81	0.72	14	9	3.11
Milk River	0.00			0	1.55	Retreat	3.21	1.24	26	7	3.63
Retrieve	0.10	0.10	4	1	2.10	Negril Point L. H.	2.31	0.92	12	9	2.77
Stone's Hope	1.17	0.57	24	4	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.	
	1940.	Ave.	1940.	Ave.
North-eastern	1.12	4.61	4	9
Northern	1.34	2.37	3	6
West-central	3.09	4.25	5	9
Southern	0.90	2.19	4	6
The Island means	1.61	3.35	4	8

SHOCKS OF EARTHQUAKE IN MARCH, 1940.

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

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 much below the average in all Divisions.

The greatest total fall for the month was 7.45 inches at Troy in the West-Central Division, and the heaviest fall in 24 hours was 5.76 inches at Williamsfield in the same Division on the 23rd.

No rain fell at Priestman's River, Trinity Ville, Runaway Bay, Yallahs, Bull Bay, Irish Town, Halfway Tree, Red Hills, Quarantine Station, Milk River, Alligator Pond, and Mountainside.

The mean number of rain days was 4, the average for the month being 8. The greatest number was 10, at Comfort Castle, Moore Town, Highgate (St. Catherine), The Bog, Bethel Town and Mount Edgecombe.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 3.64 inches, was highest; St. Elizabeth, with 2.72 inches was next; and St. James, with 2.60 inches was third. Kingston, with 0.18 inch, was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.18	0.64	St. James	2.60	2.52
St. Andrew	0.32	1.82	Hanover	2.11	2.78
St. Thomas	0.63	1.93	Westmoreland	3.64	3.34
Portland	1.49	6.36	St. Elizabeth	2.72	3.04
St. Mary	1.47	4.22	Manchester	2.12	2.49
St. Ann	0.93	3.17	Clarendon	1.37	1.88
Trelawny	2.55	3.12	St. Catherine	1.21	2.45

The total rainfall for the first Quarter of the year is given below, compared with the 60-year average, and shews an excess of 0.21 inch.

	1940.	60-year Average.
	Inches.	Inches.
January	5.09	4.00
February	3.99	3.13
March	1.61	3.35
	10.69	10.48

## CITY OF KINGSTON.

The total rainfall for the month of March, 1940, amounted to only 0.05 of an inch, the 60-year normal being 0.94 inch. There was one rain day of 0.05 inch on the 22nd. During the past seventy years (from 1870) there were four instances in March where the Kingston Station gave gaugings below this figure of 0.05 inch. In the years 1893 and 1901, no precipitation occurred (0.00), then in 1891 0.04 inch was recorded and in 1937 only 0.01 of an inch fell. However, the fall for the upper boundary of Kingston was 0.22 inch, the 22nd being the only rain day.

The number of days upon which distant rain was observed is as follows:—To northward, north-westward and westward one day each, and to north-eastward on two days.

The mean barometric pressure was 29.917 inches, the 33-year normal being 29.965 inches or 0.048 inch below the normal. Highest reading was 30.003 inches on the 17th at 7 a.m. and the lowest was 29.801 inches on the 8th at 7 a.m. (preceding a fresh norther of the 9th of 12 m.p.h.). Figures are corrected for diurnal variation.

Mean temperature for the month was 77.4°, the 33-year normal being 76.5°, or 0.9° above the normal. The extreme maximum was 90.9° on the 9th, and the extreme minimum was 64.6° on the 6th, giving a monthly range of 26.3°. On the other hand the lowest maximum was 84.2° on the 4th and 23rd, and the highest minimum was 77.6° on the 22nd. The maximum was above 90° once (on the 9th) and the minimum was 70° and above 13 times. The greatest daily range was 23.3° on the 9th, and the least was 8.3° on the 22nd, on a rain day.

The mean daily miles of wind registered was 188, which corresponds with the 25-year normal. The greatest number of miles of wind recorded was 316 on the 21st, and the least was 104 on the 7th. Maximum velocity, of short duration, was 33 miles per hour on the 29th at 11.40 a.m. Fresh "norther" on the 9th. Southeasterly wind continued after 7 p.m. on 12 occasions, and throughout the night twice.

The mean relative humidity was 75% and the 33-year normal 77% or about 2% below the normal, owing to deficiency of rainfall. The mean 7 a.m. was 80% and the mean 3 p.m. 61%. Lowest 7 a.m. 68% on the 11th and lowest 3 p.m. 49% on the 2nd and 7th.

Overcast conditions in the forenoon prevailed on eight occasions, and in the afternoon thirteen times.

The total evaporation for the month of March was 6.36 inches, the 10 year average being 6.64 inches.

The mean daily number of sunshine hours was 8.5.

## WEATHER DISTURBANCE.

On the 21st of March the Island barometric pressure shewed a tendency to fall nearly a tenth of an inch below the mean. On the 22nd in the forenoon, Kingston reading continued to fall and shewed nearly fifteen hundredths below the normal, with Negril Point below Kingston, Morant Point giving a gradient of about 0.05 inch above Negril. The wind at Negril at 7 a.m. indicated S.E. 15 miles per hour along with

squally weather and heavy seas. As these circumstances pointed to the forming of a weather disturbance to the N.W. of Negril Point, a notice was circulated at 10.15 a.m. to the effect that there was evidence of a moderate depression forming to N.W. of Negril and care advised. Heavy seas at Negril Point. Barometric pressure indicated a rise on the 23rd and this depression certainly moved away from the Island. On the 24th the pressure rose about one-tenth inch above that of the 22nd.

#### EVAPORATION TABLES.

*Kingston.*—Appended to this Weather Report No. 769 is a Table (A) summarising the results of the daily evaporation, gauged each month of the year 1939, 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 inspection of this Table for 1939, it will be seen that the maximum evaporation occurred in the month of July, when a total of 8.31 inches was gauged, representing for this month a daily mean of 0.268 inch. The minimum appears in the month of November, giving a total of 2.33 inch.

The total evaporation for the year 1939 was 66.74 inches or 4.97 inches below the 10-year average. The general monthly mean for the 12 months gives 5.56 inches with an average daily mean of 0.183 inch, or 0.16 of an inch greater than the previous year 1938.

The greatest evaporation in 24 hours was 0.45 of an inch on the 1st 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 58.86 inches for the year 1939.

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

*Negril Point.*—Another Table (B) shewing the amount of evaporation at Negril Point, to the extreme west of Jamaica is also appended. It will be observed that the monthly maximum of 7.58 inches occurred in March, with a daily mean of 0.245 inch. The minimum was 4.85 inches in November and December, giving a daily mean of 0.157 inch, respectively, or about two-thirds the amount for March.

The total evaporation for the year 1939 was 72.03 inches shewing 5.29 inches more than that for Kingston. The general monthly mean for the year was 6.00 inches, and the year's daily mean was 0.197 inch. It may be stated that the rain-gauge which is installed in the vicinity of the Evaporimeter gauged 59.84 inches for the year 1939.

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 1939 amounted to 0.34 inch on 27th February.

#### MORTEGO BAY.

A Table (C) giving a summary of the Meteorological observations carried out at Montego Bay during 1939, is appended. The extreme maximum temperature was 95.0° on July 16th and October 25th, and the lowest minimum was 61.0° on January 13th and March 25th. The mean daily temperature derived from four observations per day was 78.3°. The mean relative humidity at 7 a.m. was 88% and 3 p.m. was 72%. The observations were carried out by Mr. Sinclair of the Public Works Department, Montego Bay.

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,  
April 25th, 1940.

TABLE (A)—KINGSTON, 1939.

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	0.17	0.17	0.17	0.24	0.25	0.18	0.45	0.33	0.25	0.14	0.00	0.13
2	0.15	0.25	0.05	0.14	0.26	0.21	0.39	0.18	0.23	0.14	0.00	0.16
3	0.11	0.25	0.19	0.19	0.24	0.24	0.21	0.12	0.25	0.12	0.03	0.07
4	0.14	0.20	0.17	0.12	0.18	0.28	0.26	0.29	0.15	0.15	0.11	0.14
5	0.10	0.23	0.25	0.10	0.15	0.24	0.28	0.33	0.19	0.20	0.15	0.06
6	0.14	0.18	0.30	0.22	0.20	0.18	0.21	0.26	0.27	0.20	0.09	0.10
7	0.12	0.19	0.22	0.26	0.19	0.28	0.21	0.14	0.26	0.18	0.03	0.11
8	0.10	0.19	0.23	0.28	0.15	0.22	0.33	0.14	0.21	0.15	0.02	0.11
9	0.11	0.27	0.11	0.17	0.26	0.18	0.40	0.13	0.21	0.15	0.08	0.10
10	0.16	0.26	0.16	0.13	0.26	0.15	0.26	0.20	0.17	0.13	0.08	0.09
11	0.10	0.24	0.19	0.22	0.27	0.28	0.26	0.30	0.20	0.21	0.10	0.08
12	0.19	0.09	0.22	0.12	0.23	0.24	0.33	0.37	0.19	0.15	0.11	0.11
13	0.22	0.19	0.19	0.16	0.15	0.30	0.29	0.28	0.12	0.15	0.14	0.09
14	0.20	0.18	0.20	0.12	0.27	0.21	0.34	0.29	0.17	0.20	0.09	0.01
15	0.16	0.21	0.16	0.13	0.22	0.28	0.38	0.42	0.18	0.13	0.15	0.15
16	0.16	0.21	0.14	0.17	0.24	0.28	0.24	0.14	0.19	0.20	0.12	0.10
17	0.11	0.20	0.14	0.23	0.19	0.02	0.21	0.20	0.06	0.14	0.05	0.06
18	0.18	0.21	0.11	0.23	0.21	0.19	0.34	0.15	0.11	0.20	0.00	0.06
19	0.08	0.24	0.13	0.26	0.25	0.22	0.30	0.24	0.11	0.21	0.00	0.08
20	0.12	0.18	0.10	0.30	0.23	0.16	0.27	0.11	0.22	0.12	0.01	0.09
21	0.14	0.15	0.14	0.24	0.15	0.25	0.38	0.25	0.13	0.15	0.02	0.09
22	0.05	0.13	0.19	0.26	0.23	0.16	0.36	0.22	0.22	0.21	0.11	0.11
23	0.05	0.15	0.16	0.22	0.06	0.04	0.15	0.26	0.20	0.15	0.12	0.10
24	0.19	0.22	0.23	0.19	0.21	0.27	0.31	0.37	0.24	0.20	0.12	0.11
25	0.15	0.25	0.29	0.17	0.25	0.16	0.24	0.25	0.20	0.20	0.09	0.13
26	0.11	0.31	0.19	0.29	0.16	0.24	0.16	0.25	0.17	0.19	0.08	0.11
27	0.16	0.33	0.25	0.15	0.09	0.24	0.05	0.25	0.18	0.01	0.07	0.15
28	0.24	0.23	0.13	0.21	0.29	0.23	0.19	0.30	0.18	0.01	0.12	0.14
29	0.19	...	0.17	0.34	0.32	0.33	0.15	0.29	0.15	0.00	0.11	0.20
30	0.22	...	0.13	0.34	0.34	0.26	0.19	0.24	0.11	0.07	0.13	0.22
31	0.17	...	0.18	...	0.12	...	0.17	0.26	...	0.01	...	0.06
Totals	4.49	5.91	5.49	6.20	6.62	6.52	8.31	7.56	5.52	4.47	2.33	3.32
Daily Means	0.145	0.211	0.177	0.207	0.214	0.217	0.268	0.244	0.184	0.144	0.078	0.107
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 1939 was 66.74 inches.  
 10-year average evaporation for the year 1939 was 71.71 inches.

TABLE (B)—NEGRIL POINT, year 1939.

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	0.24	0.23	0.12	0.26	0.16	0.13	0.23	0.20	0.28	0.29	0.00	0.22
2	0.21	0.22	0.24	0.21	0.29	0.20	0.25	0.19	0.21	0.21	0.04	0.22
3	0.16	0.27	0.20	0.23	0.23	0.19	0.19	0.16	0.21	0.14	0.17	0.22
4	0.15	0.22	0.22	0.21	0.24	0.18	0.15	0.22	0.19	0.21	0.21	0.19
5	0.15	0.22	0.30	0.24	0.16	0.08	0.17	0.25	0.32	0.17	0.17	0.11
6	0.23	0.24	0.31	0.29	0.19	0.20	0.17	0.24	0.22	0.20	0.16	0.18
7	0.23	0.21	0.25	0.28	0.22	0.20	0.15	0.23	0.16	0.21	0.17	0.19
8	0.18	0.11	0.16	0.32	0.22	0.17	0.17	0.18	0.22	0.24	0.12	0.12
9	0.11	0.25	0.24	0.16	0.17	0.22	0.22	0.18	0.15	0.13	0.16	0.13
10	0.30	0.22	0.25	0.18	0.23	0.17	0.16	0.16	0.25	0.25	0.20	0.13
11	0.21	0.32	0.23	0.26	0.22	0.20	0.19	0.24	0.19	0.21	0.13	0.20
12	0.19	0.15	0.20	0.09	0.24	0.23	0.23	0.26	0.17	0.24	0.19	0.24
13	0.24	0.24	0.26	0.21	0.14	0.26	0.20	0.23	0.12	0.19	0.20	0.16
14	0.28	0.27	0.25	0.07	0.20	0.20	0.19	0.27	0.22	0.23	0.14	0.16
15	0.16	0.32	0.27	0.23	0.27	0.20	0.22	0.19	0.20	0.20	0.19	0.20
16	0.21	0.15	0.30	0.18	0.21	0.20	0.12	0.23	0.15	0.21	0.21	0.12
17	0.21	0.11	0.20	0.27	0.24	0.11	0.18	0.26	0.19	0.23	0.12	0.00
18	0.15	0.24	0.23	0.18	0.19	0.21	0.21	0.20	0.15	0.22	0.06	0.06
19	0.18	0.28	0.21	0.29	0.23	0.22	0.20	0.17	0.24	0.18	0.00	0.09
20	0.18	0.28	0.19	0.22	0.22	0.13	0.23	0.15	0.24	0.16	0.00	0.14
21	0.20	0.27	0.32	0.15	0.26	0.11	0.13	0.23	0.23	0.14	0.20	0.20
22	0.22	0.21	0.33	0.09	0.19	0.14	0.22	0.22	0.24	0.11	0.11	0.16
23	0.16	0.19	0.29	0.12	0.20	0.17	0.19	0.23	0.20	0.18	0.19	0.12
24	0.15	0.22	0.29	0.19	0.14	0.15	0.19	0.19	0.25	0.16	0.28	0.19
25	0.24	0.26	0.26	0.14	0.18	0.20	0.17	0.20	0.26	0.07	0.22	0.12
26	0.18	0.25	0.25	0.18	0.18	0.16	0.09	0.24	0.17	0.22	0.19	0.16
27	0.15	0.34	0.25	0.27	0.14	0.15	0.18	0.20	0.20	0.10	0.22	0.18
28	0.23	0.31	0.27	0.25	0.19	0.20	0.19	0.23	0.12	0.10	0.30	0.17
29	0.23	..	0.22	0.29	0.15	0.21	0.22	0.22	0.20	0.07	0.30	0.19
30	0.25	..	0.22	0.21	0.26	0.18	0.17	0.20	0.13	0.12	0.20	0.18
31	0.20	..	0.25	..	0.20	0.18	0.17	0.17	..	0.03	..	0.10
Totals	6.18	6.60	7.58	6.27	6.36	5.55	5.75	6.54	6.08	5.42	4.85	4.85
Daily Means	0.199	0.213	0.245	0.202	0.205	0.179	0.185	0.211	0.196	0.175	0.157	0.157

The Total Evaporation for the year 1939 was 72.03 inches.





# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

APRIL, 1940.

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	29.992	29.944	79.3	83.1	85.9	76.4	9.5	88.9	26	69.2	13	19.7
Kingston	24	29.947	29.896	74.9	84.8	87.1	71.5	15.6	90.4	24	68.4	7	22.0
Negril Point Light House	33	29.953	29.903	77.5	83.7	85.8	71.4	14.4	90.3	29	67.0	22	23.3
Montego Bay †	33	..	..	72.1	86.3	88.9	70.0	18.9	92.5	24*	65.0	17	27.5
Castleton Gardens	496	..	..	67.2	80.3	86.3	65.4	20.9	92.0	25*	62.0	7	30.0
Hope Gardens †	668	29.997	29.914	69.3	83.0	88.2	66.0	22.2	91.0	23*	60.0	15*	31.0
Hill Gardens, Blue Mountains	4,900	25.340	25.320	63.5	65.4	69.0	55.8	13.2	72.0	27	65.0	1*	7.0

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	72	80	73	73	1.15	287	ENE	10.0	ENE	9.0	3.1	2.6	0.9	2.6	2.6	1.0
Kingston	24	67	77	71	64	0.41	172	N	4.2	SE	12.9	0.3	0.6	1.7	3.6	2.6	0.4
Negril Point Light House	33	69	78	70	65	1.25	141	ENE	4.0	var.	8.0	0.1	1.1	0.3	1.2	2.7	1.1
Montego Bay	33	70	91	77	73	1.15	..	ESE	3.0	NE	8.0	..	..	..	..	..	..
Castleton Gardens	496	66	97	75	84	7.84	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	62	78	72	70	3.91	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	57	80	62	89	5.43	..	..	..	..	..	..	..	..	..	..	..

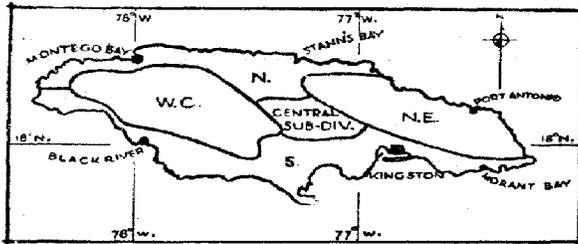
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.

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.	April, 1940.				
	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	1.50	0.50	11	5	6.64
Priestman's River	1.25	0.30	12	7	5.03
Bath	4.46	1.96	28	9	5.98
Barrett's Gap	9.52	4.00	28	10	..
Millbank	24.54	11.00	28	16	..
Comfort Castle	23.49	7.26	15	14	..
Moore Town	15.74	4.10	28	17	11.18
Port Antonio	7.97	1.82	28	9	6.55
Passley Garden	8.27	2.22	15	9	..
Fellowship	15.68	4.30	14	10	9.64
Johnson River Br.	1.50	0.53	12	7	4.08
Trinity Ville	1.77	0.84	12	7	..
Fruitful Vale	14.85	5.50	28	7	..
Hope Bay	13.72	4.75	24	11	..
Cedar Valley	1.45	0.36	11	8	4.04
Paradise	5.64	2.32	15	8	..
Lennox	10.20	4.40	15	11	..
Greenvale	9.53	3.21	28	8	10.16
Darley	16.75	6.31	15	11	..
Spring Garden	11.27	3.22	15	9	4.01
Hill Gardens	5.43	1.15	14	12	5.65
Buff Bay	10.67	3.07	28	7	6.26
Buff Bay R. Est.	10.72	3.04	28	8	..
Belvedere, Portland	11.51	3.20	28	9	4.50
Windsor Castle, do.	7.03	3.49	15	8	5.51
Balcarres	16.88	6.10	28	10	..
Mt. Holstein	..	..	..	..	7.03
Cedar Hurst	5.47	1.75	28	17	..
Hardware Gap	8.24	2.11	13	18	6.40

STATIONS.	April, 1940.				
	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	..	..	..	..	7.70
Mount Cressy	8.67	3.10	28	..	..
Hermitage	..	..	..	..	..
Mount Airy	7.19	1.78	28	12	..
Stony Hill Ind. Sch.	6.50	4.13	13	14	5.21
Boon Hall	5.35	2.14	13	13	..
Brandon Hill	3.45	1.32	28	6	..
Enfield	11.51	3.00	28	9	..
Agualta Vale	3.71	1.28	15	11	4.60
Castleton Gardens	7.84	2.10	21	10	6.64
Water Valley	3.69	1.45	28	7	4.88
Albany	..	..	..	..	4.66
Lawrence Tavern	5.25	1.60	3	9	4.74
Wey Hill	6.23	2.03	13	8	..
Richmond, St. Mary	2.01	0.50	15	7	4.54
Quebec, St. Mary	5.52	2.15	28	8	3.70
Above Rocks	5.87	1.87	6	16	..
Glengoffe	3.96	2.40	13	4	..
Carew Castle	5.84	2.10	6	12	5.08
Hampstead, St. Mary	3.58	1.10	3	8	5.47
Windsor Castle do.	2.25	0.70	21	7	..
Troja	3.01	1.15	3	5	..
Pear Tree Grove	1.68	0.45	11	7	..
Guy's Hill	2.02	0.80	28	6	4.32
Lucky Hill	1.80	0.48	28	7	4.92
Rio Hoe	2.31	1.20	28	7	4.51
Unity Valley	0.99	0.30	11	9	4.90
Moneague	1.22	0.48	11	7	4.66
Claremont	3.35	2.30	9	7	4.17
Averham Park	2.24	1.63	10	6	4.57
Albion	2.26	0.83	9	6	4.47
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	5.97	1.50	15	8	4.00
Wentworth	4.80	1.85	28	6	..
Jacks River	5.68	2.20	15	8	..
Oracabessa	2.81	1.53	15	6	..
Huddersfield	4.13	1.45	15	5	..
Ocho Rios	1.40	0.39	21	7	3.36
Rockfield	2.13	0.88	28	7	5.02
Liberty Hill	0.32	0.28	28	3	4.02
St. Ann's Bay	1.49	0.60	28	5	3.70
Richmond Estate	1.41	0.74	11	5	3.58
Runaway Bay	0.26	0.26	21	1	1.03
Knapdale	1.87	1.17	28	7	..
Alexandria	1.45	0.52	18	9	2.94
Bel-Air	0.70	0.40	29	4	..
Brown's Town	2.36	0.64	27	7	3.62
Wilton	1.59	0.80	29	5	..
Watt Town, St. Ann	3.92	1.25	9	8	3.02
Home Castle	0.55	0.45	15	2	3.22
Arcadia	1.76	0.52	27	5	2.56
Vale Royal	3.78	1.60	16	7	2.94
Harmony Hall	0.78	0.45	21	5	2.08
Duncans	2.00	0.88	16	4	..
Clark's Town	3.40	1.10	28	4	..
Falmouth	1.03	0.88	16	2	2.06

STATIONS.	April, 1940.					STATIONS.	April, 1940.				
	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	2.72	2.00	16	3	..	Mereworth	2.77	0.90	17	12	..
Barrett Hall	..	..	..	..	..	Mandeville	2.12	0.91	16	6	5.60
Success	..	..	..	..	1.84	Ulster Spring	2.02	0.50	18	8	6.85
Rose Hall	..	..	..	..	1.78	Greenvale	7.29	2.17	10	10	..
Cinnamon Hill	..	..	..	..	1.83	Albert Town	2.15	0.70	17	5	6.62
Tryall	..	..	..	..	2.60	Craig Head	7.36	2.20	30	6	..
Running Gut	..	..	..	..	1.79	Warsop	5.79	1.60	10	10	..
Spring Estate	..	..	..	..	1.67	Troy	4.27	1.00	28	11	8.28
Friendship	1.31	0.60	29	5	2.72	Wallingford	5.52	1.06	30	14	8.41
Retirement	1.64	0.35	17	7	4.29	Balacava	6.59	1.84	30	10	9.03
Rose Mount	1.48	1.21	9	3	..	Braes River	7.47	1.44	1	9	..
Montego Bay	1.15	1.06	9	2	3.02	Wakefield	1.62	1.12	16	4	..
Anchovy	3.17	1.84	9	6	3.34	Aberdeen	6.17	1.60	9	14	..
Hopewell	3.57	0.90	9	8	..	Accompong	1.60	..	..	4	..
Blue Hole	2.87	1.16	9	4	3.55	Maggotty	8.36	4.70	9	9	9.83
Cascade	13.39	3.89	6	13	..	Lacovia	5.11	1.48	28	9	..
Lucaea	2.04	0.77	4	8	3.53	Mulgrave	7.91	2.30	28	12	..
Haughton Court	3.15	1.30	7	7	3.33	Holland	4.09	1.15	1	8	..
Kendal—Hanover	5.10	1.60	6	10	..	Ipswich	5.61	2.20	27	13	..
Cousins Cove	7.43	2.91	9	13	..	Ginger Hill	6.30	1.36	28	14	..
Green River	5.61	1.78	6	9	..	Kempshot	2.51	0.72	24	10	4.90
Green Island	5.25	2.97	9	8	4.79	Mochó, St. James	9.58	2.04	24	10	..
Haughton Hall	3.38	1.20	9	9	..	Catadupa	5.19	1.53	28	9	7.63
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	2.91	0.84	16	13	7.13
Knollis	4.20	1.59	6	7	..	New Market	2.52	1.15	28	5	10.00
Highgate (St. Cath.)	4.34	2.63	13	7	..	Springfield	6.15	2.35	28	11	..
Rio Magno	1.52	0.52	11	6	..	Kew Park	4.70	2.00	28	9	7.99
Riversdale	4.10	2.13	21	5	..	The Bog	3.57	0.56	29	11	10.35
Headworks, R.C.C.	4.12	1.74	13	7	3.46	Bethel Town Dist.	5.20	1.08	17	17	8.81
Bog Walk	3.72	1.30	13	6	..	Burnt Ground	3.08	0.74	10	13	5.75
Linstead	5.60	1.65	6	9	4.46	Darliston	12.78	2.51	28	12	10.92
Ewarton	2.64	0.72	13	6	..	Bluefields	5.37	1.00	3	12	8.08
Cave Valley	3.42	1.82	18	6	4.63	Whithorn	3.79	1.36	6	5	7.13
Guanaboa Vale	3.81	2.30	13	3	..	Water Works Pen	3.45	1.05	6	8	7.43
Point Hill	2.84	1.25	13	11	5.52	Williamsfield, Wld.	12.23	2.60	9	10	..
Brown's Hall	1.76	0.62	20	6	4.17	Baulk	5.15	1.56	28	8	..
Bellas Gate	2.57	2.04	14	3	2.39	Askenish	6.26	2.00	4	6	6.96
Rock River	1.84	1.00	14	4	..	Grange Hill	2.28	0.47	27	12	7.01
Crofts Hill	3.13	2.38	13	5	3.73	Mount Eagle	2.78	0.70	27	13	..
Kellit's	1.30	0.87	13	4	..	King's Vale	6.76	3.48	9	9	5.64
Suttons	1.99	1.09	13	3	..						
Colonel's Ridge	2.01	0.90	13	6	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	1.00	0.64	13	4	3.73	Morant Point L. H.	1.15	0.58	27	7	3.19
Crooked River	3.77	2.05	13	9	..	Golden Grove	..	..	..	..	..
James Hill	3.50	1.17	13	6	..	Pleasant Hill	1.63	0.56	11	15	2.19
Frankfield	2.75	1.07	6	5	3.44	East Prospect	3.60	1.64	28	8	4.23
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.60	1.90	28	6	2.84
Mochó, Clarendon	0.58	0.36	28	2	4.76	Lloyds	0.70	0.51	12	3	..
Thompson Town	2.61	1.44	13	4	..	Yallahs	0.00	..	..	0	..
Porus	1.28	1.16	20	2	..	Easington	0.15	0.15	26	1	2.00
Borobridge	3.45	1.85	13	7	..	Llandewey	..	..	..	..	..
Spaldings	2.22	0.60	17	8	3.43	Mavis Bank	4.17	2.35	13	9	..
Williamsfield	2.03	0.79	20	7	..	Bull Bay	0.00	..	..	0	0.93
Brokenhurst	0.96	0.60	17	4	5.31	Dallas Castle	2.09	0.45	20	10	..
Shooter's Hill	2.39	0.92	13	5	4.17	Gordon Town	5.75	3.17	13	7	3.26
Wait-a-bit	3.11	0.99	27	7	..	Irish Town	4.60	2.00	13	7	4.06
Christiana	2.25	0.93	12	9	6.64	Hope Gardens	3.91	1.29	23	9	2.95
Holmwood	1.09	0.38	17	5	..	Waireka	..	..	..	..	..
Clifton Hill	1.32	0.50	27	3	4.45	Iver	..	..	..	..	..
Kendal, Manchester	1.40	0.60	13	5	6.06	Plumb Point L. H.	0.00	..	..	0	1.15

STATIONS.	April, 1940.					STATIONS	April, 1940.				
	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.	3.06	1.10	13	5	2.43	Newport, Man.	1.12	0.47	13	4	4.77
Up-Park Camp	0.96	0.46	13	5	..	Alligator Pond	0.20	0.20	28	1	2.97
Cavaliers	..	..	..	..	..	Fairfield	..	..	..	..	5.39
St. Georges College	0.70	0.36	13	4	..	Pepper	..	..	..	..	..
Upper Kingston	0.97	0.49	13	7	0.94	Myersville	7.92	1.46	10	8	..
Parade Garden	0.72	0.28	13	4	..	Goshen	6.97	2.27	10	7	..
Kingston P.W.O.	0.41	0.16	13	6	1.17	Southfield, St. Eliz.	..	..	..	..	3.60
Constant Spring	..	..	..	..	..	Munro	3.39	1.30	10	8	..
Halfway Tree	1.86	0.82	13	5	1.86	Windsor, St. Eliz.	5.84	1.63	30	10	..
Clifton Pen	1.07	0.59	13	4	1.74	Torrington	3.61	1.50	9	5	4.86
Seaward Pen	1.65	1.45	13	2	..	Santa Cruz	10.82	2.62	30	11	8.81
Red Hills	3.90	2.50	13	5	..	Hounslow	4.46	0.90	12	10	..
Quarantine Station	1.93	1.80	14	4	1.36	Pedro Plains	3.15	1.24	10	6	2.64
Hematine	0.84	0.69	13	3	2.49	Mountainside	5.59	1.28	17	8	5.20
Spanish Town	0.93	0.65	13	5	2.36	Fort Charles	1.36	0.46	16	5	..
Hog Hole, St. Cath.	2.55	0.66	11	7	2.94	Black River	1.99	1.20	1	8	3.98
Old Harbour	2.87	0.75	13	4	2.81	Mt. Charles	5.54	1.50	1	11	..
May Pen	0.29	0.23	13	2	3.00	Font Hill	..	..	..	..	4.45
Glen Muir	0.00	..	..	0	..	Mount Edgecombe	4.80	1.00	10	14	5.32
Cottage	0.00	..	..	0	..	Sav-la-Mar	1.75	0.27	12	7	4.79
Belle Plain	0.68	0.48	20	2	..	Little London	3.32	0.92	10	9	4.88
Milk River	0.10	0.10	24	1	2.22	Retreat	2.55	1.40	27	8	4.91
Retrieve	1.02	0.34	10	3	2.59	Negril Point L. H.	1.25	0.88	12	6	2.92
Stone's Hope	1.35	0.51	15	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.	
	1940.	Ave.	1940.	Ave.
North-eastern	5.42	5.80	9	10
Northern	2.41	3.17	6	6
West-central	3.88	6.82	9	11
Southern	2.31	3.28	6	7
The Island means	3.51	4.77	8	9

SHOCKS OF EARTHQUAKE IN APRIL, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
18th.	10.00 A.M.	I	Munro College.

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 below the average in all divisions.

The greatest total fall for the month was 24.54 inches at Millbank in the North-eastern Division, and the heaviest fall in 24 hours was 11.00 inches at the same station on the 28th.

No rain fell at Yallahs, Bull Bay, Plumb Point Lighthouse, Glen Muir and Cottage, all in the Southern Division.

The mean number of rain days was 8, the average for the month being 9. Hardware Gap, in the North eastern Division, had the greatest number—18.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 12.51 inches, was highest; St. Elizabeth, with 5.26 inches, next; and Hanover, with 5.22 inches was third. Kingston, with 0.56 inch, was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.56	1.08	St. James	3.17	5.21
St. Andrew	4.24	4.45	Hanover	5.22	6.13
St. Thomas	2.38	4.67	Westmoreland	4.69	7.85
Portland	12.51	10.45	St. Elizabeth	5.26	6.97
St. Mary	4.77	6.63	Manchester	2.25	5.07
St. Ann	1.76	5.62	Clarendon	1.73	4.48
Trelawny	2.64	5.18	St. Catherine	3.02	4.93

## CITY OF KINGSTON.

The total rainfall for the month of April was 0.41 of an inch, the 60-year normal being 1.17 inch, or about one third of the normal. The greatest fall during 24 hours was 0.16 inch on the 13th and 17th. There were six days with appreciable rain, as compared to the 49-year average of eight. The upper boundary of Kingston gauged 0.97 of an inch, with seven rain days.

The several directions in which distant rain were observed are as follows:—to the northward five days, to northeastward and eastward two, to the westward and northwest one each.

The mean barometric pressure was 29.929 inches, the 33-year normal being 29.941 inches or 0.012 inch below the normal. The highest reading was 29.987 inches on the 1st at 3 p.m. and the lowest was 29.834 inches on the 22nd at 7 a.m. Corrected for diurnal variation.

The mean temperature for the month, based upon four observations per day, was 79.1°, the 33-year normal being 78.2° or 0.9° above the normal. The extreme maximum was 90.4° on the 24th, and the extreme minimum was 68.4° on the 7th, giving the extreme monthly range of 22.0°. On the other hand, the lowest maximum was 84.6° on the 12th and the highest minimum was 75.2° on the 25th. The maximum was 90° and above on two occasions. The minimum was 70° and above 27 times. The greatest daily range was 18.3° on the 30th, and the least was 13.0° on the 20th and 28th.

The mean daily miles of wind registered was 172, the 25-year normal being 188, giving 9% below the normal for the month. The greatest number of miles recorded in 24 hours was 315 on the 5th and the least was 103 on the 11th. Southeasterly wind continued after 7 p.m. on 18 occasions.

Mean relative humidity 75%, the 33-year normal being 78%. The mean 7 a.m. was 77% and mean 3 p.m. 64%. Lowest 7 a.m. 66% on the 5th and lowest 3 p.m. 54% on the 25th.

Overcast conditions prevailed in the forenoon six times, and in the afternoon nineteen times.

Total evaporation for the month of April 6.19 inches, the 10-year normal being 7.75 inches.

Mean daily number of sunshine hours 7.3.

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,  
May 20th, 1940.



## JAMAICA

## WEATHER REPORT.

FOR THE MONTH OF

MAY, 1940.

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 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	29.953	29.916	80.2	83.9	87.1	76.9	10.2	93.3	30	68.5	20	24.8
Kingston	24	29.905	29.868	77.8	84.9	87.9	73.5	14.4	90.2	15	69.4	18*	20.8
Negril Point Light House	33	29.904	29.874	79.4	84.0	87.2	72.9	14.3	89.5	28	68.3	21	21.2
Montego Bay †	33	..	..	74.9	86.5	88.9	71.3	17.6	92.9	30	69.0	5*	23.9
Castleton Gardens	496	..	..	69.1	79.7	84.2	67.2	17.0	91.0	31	62.0	20	29.0
Hope Gardens †	668	29.942	29.894	73.2	82.6	88.1	70.0	18.1	91.0	24*	68.0	1	23.0
Hill Gardens, Blue Mountains	4,900	25.257	25.239	63.2	65.1	67.5	56.0	11.5	72.0	31	55.0	6*	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.		
	ft.	°	%	°	%	ins.	Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	74	83	75	76	5.52	265	E	8.0	ENE	9.0	3.0	2.8	0.7	3.0	3.2	1.5
Kingston	24	70	77	73	69	0.92	178	NE	4.9	SE	11.7	0.3	1.2	2.5	4.6	0.8	3.0
Negril Point Light House	33	72	79	72	69	9.33	132	NE	3.0	Var.	8.0	0.4	0.5	3.7	2.1	3.0	1.2
Montego Bay	33	72	89	78	76	14.38	..	NE	3.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	67	95	76	88	39.81	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	69	88	77	83	4.66	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	61	91	63	91	11.10	..	..	..	..	..	..	..	..	..	..	..

\* 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.

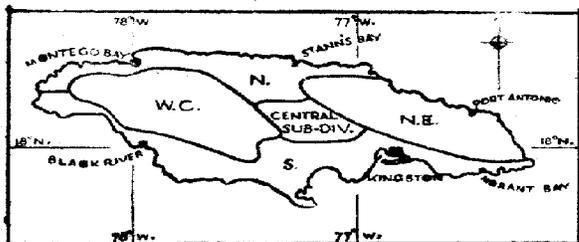
† Not taken—

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 Negri; 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.	May, 1940.				
	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	5.80	2.00	16	10	12.66
Priestman's River	6.35	1.90	21	15	10.55
Bath	9.45	1.90	12	22	12.33
Barrett's Gap	18.42	2.90	21	22	
Millbank	38.24	13.24	13	22	
Comfort Castle	37.28	13.60	13	20	
Moore Town	28.20	4.25	6	16	16.68
Port Antonio	13.61	2.37	5	19	13.73
Passley Garden	12.20	3.22	1	15	
Fellowship	23.88	4.34	5	23	16.19
Johnson River Br.	7.10	3.10	24	18	9.56
Trinity Ville	7.86	2.07	24	10	
Fruitful Vale	36.31	12.65	13	12	
Hope Bay	12.53	4.22	13	15	
Cedar Valley	4.75	0.78	17	16	9.10
Paradise	13.13	3.80	13	17	
Lennox	15.94	2.52	13	19	
Greenvale	60.52	17.00	13	19	9.27
Darley	17.74	3.40	13	17	
Spring Garden	11.01	1.70	12	20	6.05
Hill Gardens	11.75	3.45	6	13	9.77
Buff Bay	10.91	2.75	13	15	7.97
Buff Bay R. Est.	29.08	7.00	13	19	
Belvedere, Portland	23.41	6.61	13	19	6.08
Windsor Castle, do.	10.38	3.05	13	17	5.86
Balcarres	73.20	18.90	13	19	
Mt. Holstein	30.81	9.10	7	17	10.07
Cedar Hurst	19.76	7.26	6	16	
Hardware Gap	14.05	3.16	6	20	11.24

STATIONS.	May, 1940.				
	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	7.75	2.00	5	16	12.52
Mount Cressy	30.23	6.10	6	16	
Hermitage	4.91	0.86	6	17	
Mount Airy	23.32	3.97	23	16	
Stony Hill Ind. Sch.	5.10	1.10	6	18	9.29
Boon Hall	6.99	2.54	23	18	
Brandon Hill	23.07	3.92	6	17	
Enfield	34.46	6.31	13	18	
Aqualta Vale	10.20	2.20	13	17	5.76
Castleton Gardens	39.81	10.45	6	22	11.65
Water Valley	9.83	3.00	13	15	7.06
Albany					6.92
Lawrence Tavern	7.78	1.20	16	15	9.18
Wey Hill	17.85	8.24	6	15	
Richmond, St. Mary	26.76	4.15	13	21	7.54
Quebec, St. Mary	15.69	3.57	1	15	6.45
Above Rocks	9.88	2.10	15	19	
Glengoffe	6.98	2.10	6	9	
Carew Castle	7.77	1.26	9	14	9.78
Hampstead, St. Mary	18.93	3.50	13	20	7.33
Windsor Castle do.	19.71	5.85	13	18	
Troja	15.08	3.50	5	18	
Pear Tree Grove	22.92	3.30	14	19	
Guy's Hill	20.45	5.53	13	16	7.46
Lucky Hill	23.91	6.43	13	20	8.48
Rio Hoe	21.01	4.81	3	18	8.12
Unity Valley	22.53	4.85	11	20	9.79
Moneague	16.73	2.92	11	16	8.76
Claremont	14.10	2.12	3	17	7.08
Averham Park	19.92	4.40	13	24	7.26
Albion	12.69	2.57	13	18	8.30
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	7.06	1.60	1	12	6.31
Wentworth					
Jacks River	10.68	1.22	11	25	
Oracabessa	10.05	1.52	11	16	
Huddersfield	13.41	2.05	29	13	
Ocho Rios	10.52	2.32	13	23	5.22
Rockfield	21.10	6.37	12	14	5.94
Liberty Hill	4.95	2.00	13	15	4.72
St. Ann's Bay	12.02	2.37	3	17	5.30
Richmond Estate	8.02	1.89	10	19	6.14
Runaway Bay	5.56	1.00	25	11	2.23
Knapdale	16.09	6.25	13	18	
Alexandria	8.48	1.90	3	18	7.29
Bel-Air	8.15	1.35	17	16	
Brown's Town	16.58	6.22	13	20	8.61
Wilton	11.43	2.02	13	19	
Watt Town, St. Ann	14.04	3.08	10	15	8.24
Home Castle	15.65	4.40	13	15	5.60
Arcadia	7.61	1.65	13	17	4.89
Vale Royal	8.75	2.69	13	14	5.82
Harmony Hall					4.49
Duncaus	6.96	2.35	14	12	
Clark's Town	13.23	5.70	13	13	
Falmouth	7.17	2.04	1	17	4.48

STATIONS.	May, 1940.					STATIONS.	May, 1940.				
	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>Ins.</b>	<b>Ins.</b>			<b>Ins.</b>	<b>WEST-CENTRAL DIVISION, contd.</b>	<b>Ins.</b>	<b>Ins.</b>			<b>Ins.</b>
Adelphi	14.84	5.41	13	18		Mereworth	13.51	1.83	13	19	
Barrett Hall						Mandeville	10.70	2.02	12	14	9.93
Success					4.25	Ulster Spring	14.24	2.10	24	17	11.90
Rose Hall					4.24	Greenvale	9.51	1.75	10	19	
Cinnamon Hill					4.78	Albert Town	16.46	2.05	3	15	10.58
Tryall					6.05	Craig Head	17.94	2.85	16	12	
Running Gut					4.74	Warsop	23.57	3.80	16	19	
Spring Estate					4.28	Troy	20.90	3.73	19	14	14.60
Friendship	12.92	3.20	11	17	7.85	Wallingford	16.64	3.25	4	21	11.80
Retirement	13.07	2.03	1	16	8.50	Balaclava	15.85	2.16	3	23	12.13
Rose Mount	11.72	3.47	13	13		Braes River	18.80	3.08	3	14	
Montego Bay	14.38	3.82	13	11	7.12	Wakefield	18.41	3.05	24	17	
Anchovy	13.65	1.91	10	17	8.00	Aberdeen	19.25	2.88	1	18	
Hopewell	13.23	1.70	8	16		Accompong	14.17	2.23	4	20	
Blue Hole	7.71	2.93	16	10	12.10	Maggotty	15.85	4.17	5	18	13.21
Cascade	31.98	5.87	16	20		Lacovia	10.40	1.48	4	15	
Luca	7.39	1.22	26	12	8.53	Mulgrave	18.18	2.15	4	19	
Haughton Court	10.78	2.11	29	13	8.89	Holland					
Kendal—Hanover	9.37	2.02	28	13		Ipswich	19.90	2.46	24	17	
Cousins Cove	5.82	1.32	25	16		Ginger Hill	21.12	2.38	24	20	
Green River	11.92	1.48	23	19		Kempshot	14.54	2.09	29	17	10.19
Green Island	10.97	3.00	16	15	9.84	Mocho, St. James	17.63	2.91	5	16	
Haughton Hall	7.74	1.60	28	18		Catadupa	14.39	2.28	19	21	15.76
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	10.14	1.98	1	19	13.30
Knollis	6.43	2.35	28	9		New Market	13.10	2.00	19	18	12.50
Highgate (St. Cath.)	9.07	2.25	5	19		Springfield	12.12	2.52	16	16	
Rio Magno	12.30	2.08	13	12		Kew Park	13.90	2.67	10	19	12.97
Riversdale	10.27	1.84	6	11		The Bog	16.20	3.18	9	22	14.15
Headworks, R. C.C.	9.17	3.86	17	11	7.31	Bethel Town Dist.	15.23	2.45	10	22	16.95
Bog Walk	4.92	1.32	28	9		Burnt Ground	14.64	2.61	10	17	13.74
Linstead	5.82	1.84	9	12	9.69	Darliston	22.53	2.84	5	22	16.30
Ewarton	6.07	2.93	19	12		Bluefields	10.28	1.65	14	10	11.86
Cave Valley	13.38	4.09	11	14	9.10	Whithorn	14.93	2.15	1	16	13.29
Guanaboa Vale	7.09	2.10	18	10		Water Works Pen	13.25	2.70	16	20	11.86
Point Hill	9.92	1.60	28	18	11.11	Williamsfield, Wld.	13.23	2.00	24	21	
Brown's Hall	11.61	2.78	19	20	8.28	Baulk	8.56	2.10	14	12	
Bellas Gate	11.54	2.70	5	15	5.57	Askenish	12.32	3.00	28	11	12.65
Rock River	17.02	4.78	12	17		Grange Hill	7.16	2.01	28	15	13.44
Crofts Hill	12.66	5.10	12	15	7.16	Mount Eagle	9.12	1.78	14	16	
Far Enough	16.47	3.74	22	21		King's Vale	9.62	1.60	16	15	11.38
Suttons	21.15	5.00	12	17							
Colonel's Ridge	12.88	2.27	12	21		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	17.02	3.41	12	21	8.55	Morant Point L.H.	5.52	2.25	17	18	8.68
Crooked River	13.92	2.20	12	23		Golden Grove					
James Hill	14.51	2.00	4	22		Pleasant Hill	9.03	2.07	24	21	7.69
Frankfield	13.10	2.65	12	18	7.52	East Prospect	5.65	1.51	24	15	8.88
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	1.81	0.46	13	10	7.31
Mocho, Clarendon	10.35	3.00	12	11	9.71	Aeolus Valley	2.44	0.62	12	14	
Thompson Town	16.73	4.12	12	20		Yallahs	0.58	0.28	17	4	
Clarendon Park						Easington	2.50	0.95	19	6	6.26
Porus	12.38	2.56	12	18		Llandewey					
Borobridge	11.95	1.50	4	15		Mavis Bank	7.33	1.66	23	13	
Spaldings	18.42	2.05	19	20	7.74	Bull Bay	0.90	0.90	18	1	3.87
Williamsfield	12.48	2.27	12	18		Dallas Castle	4.91	1.63	16	11	
Brokenhurst	14.38	2.64	17	19	9.59	Gordon Town	6.76	2.25	5	12	7.13
Shooter's Hill					7.34	Irish Town	6.00	1.00	6	11	6.56
Wait-a-bit	19.10	3.05	9	19		Hope Gardens	4.66	1.11	8	11	6.23
Christiana	8.55	1.73	5	16	10.69	Watreka					
Holmwood						Iver					
Clifton Hill	17.34	4.25	12	10	6.97	Plumb Point L.H.	0.53	0.43	4	2	4.57
Kendal, Manchester	11.68	1.67	11	18	9.83						

STATIONS.	May, 1940.					STATIONS.	May, 1940.				
	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. . .	3.49	1.20	17	7	5.84	Newport, Man. . .	7.80	1.45	17	13	8.02
Up-Park Camp . . .	1.76	0.40	13	10		Alligator Pond . . .	3.44	1.10	17	6	5.15
Cavaliers . . .	1.28	0.37	13	8		Fairfield . . .					7.55
St. George's College . . .	0.92	0.32	7	7		Pepper . . .					
Upper Kingston . . .	1.16	0.34	7	8	2.44	Myersville . . .	13.33	2.80	3	9	
Parade Garden . . .	0.86	0.22	16	7		Goshen . . .	8.80	1.32	11	13	
Kingston P.W.O. . .	0.92	0.27	5	8	4.01	Southfield, St. Eliz. . .					5.88
Constant Spring . . .	3.28	0.50	6	16		Munro . . .	9.79	1.96	17	15	
Halfway Tree . . .	1.90	0.65	5	6	4.63	Windsor, St. Eliz. . .	9.34	1.77	12	18	
Clifton Pen . . .	2.49	0.61	12	6	3.94	Torrington . . .	7.88	1.55	5	11	6.26
Seaward Pen . . .	3.39	1.18	17	6		Santa Cruz . . .	12.77	2.65	22	18	11.02
Red Hills . . .	7.32	2.26	18	14		Hounslow . . .	4.82	1.20	13	10	
Quarantine Station . . .	0.68	0.15	15	8	3.33	Pedro Plains . . .	1.86	0.53	13	5	3.48
Hematine . . .	4.52	2.47	17	8	6.19	Mountainside . . .	8.11	2.10	3	9	3.73
Spanish Town . . .	5.37	3.35	17	10	5.82	Fort Charles . . .	3.24	2.00	14	3	
Hog Hole, St. Cath. . .	8.24	5.64	17	15	6.65	Black River . . .	10.03	2.55	5	14	6.57
Old Harbour . . .	8.12	3.40	17	7	5.85	Mt. Charles . . .	13.71	1.62	19	22	
May Pen . . .	7.32	1.65	12	15	6.44	Font Hill . . .					7.40
Glen Muir . . .	7.30	1.80	12	6		Mount Edgecombe . . .	7.62	3.26	28	12	8.37
Cottage . . .	5.98	1.72	17	9		Sav.-la-Mar . . .	7.71	1.25	3	17	8.60
Belle Plain . . .	12.57	2.55	12	13		Little London . . .	9.21	2.69	6	15	9.89
Milk River . . .	5.46	3.15	17	11	5.60	Retreat . . .	5.35	1.55	3	14	9.03
Retrieve . . .	4.46	1.85	17	12	4.77	Negril Point L.H. . .	9.33	3.41	6	11	6.25
Stone's Hope . . .	10.18	1.92	17	17	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.	
	1940.	Ave.	1940.	Ave.
North-eastern . . .	17.13	9.76	17	13
Northern . . .	11.05	6.90	16	10
West-central . . .	14.06	12.06	17	15
Southern . . .	5.52	6.35	11	10
The Island means . . .	11.94	8.77	15	12

SHOCKS OF EARTHQUAKE IN MAY, 1940.

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 much above the average in all Divisions except the Southern which was deficient.

The greatest total fall for the month was 73.20 inches at Balcarres in the North-Eastern Division, and the heaviest fall in 24 hours was 18.90 inches at the same station on the 13th. Greenvale in the same Division had a total fall of 60.52 inches, with 17.00 inches on the 13th.

The mean number of rain days was 15, the average for the month being 12. The greatest number was 25 at Jacks River in St. Mary, Northern Division.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 24.10 inches, was highest; St. Mary, with 18.45 inches was next; and Trelawny, with 14.22 inches was third. Kingston, with 0.88 inch, was lowest, and was the only parish below the average.

Parish.	1940.	10-year Average	Parish.	1940.	10-year Average.
	Inches.	Inches		Inches.	Inches.
Kingston ..	0.88	1.90	St. James ..	13.73	8.79
St. Andrew ..	8.01	5.73	Hanover ..	11.81	11.00
St. Thomas ..	6.26	5.30	Westmoreland ..	11.48	10.77
Portland ..	24.10	9.96	St. Elizabeth ..	12.22	6.86
St. Mary ..	18.45	7.74	Manchester ..	10.50	5.91
St. Ann ..	13.15	6.90	Clarendon ..	13.05	5.67
Trelawny ..	14.22	7.45	St. Catherine ..	9.29	6.31

## CITY OF KINGSTON.

The total rainfall for the month of May was 0.92 of an inch or about one-quarter that of the normal of 4.02 inches. Greatest fall in 24 hours 0.27 of an inch on the 5th. There were eight days with appreciable rainfall as compared to the 49-year average of seven. The upper boundary of Kingston gauged 1.16 inch with 8 rain days.

The number of days upon which distant rain was observed are as follows:—To northward 5, to north-eastward 5, to west 3, to northwest 4. Fresh norther of short duration on 16th.

The mean barometric pressure was 29.892 inches, the 33-year normal being 29.910 inches, or 0.018 of an inch below the 33-year normal. The highest reading was 30.014 inches on the 5th at 3 p.m., and the lowest was 29.797 inches on the 20th at 7 a.m., corrected for diurnal variation.

Mean temperature for the month based upon 4 observations per day was 80.5°, the 33-year normal being 79.7° or 0.8° above the normal. The extreme maximum was 90.2° on the 15th and the extreme minimum was 69.4°, on the 18th and 20th, giving an extreme monthly range of 20.8°. On the other hand, the lowest maximum was 85.7° on the 6th and the highest minimum was 80.2° on the 31st. The maximum was above 90° once, and the minimum was above 70° 29 times. The greatest daily range was 18.2° on the 18th and the least was 7.8° on the 31st.

The mean daily miles of wind registered was 178, the 25-year normal being 209, giving 15% below the normal. Greatest number of miles of wind registered in 24 hours was 409 on the 31st and the least was 88 on the 7th. Greatest velocity 24 miles per hour on the 31st at noon. Southeasterly wind appeared early 3 times and continued after 7 p.m. on 11 times and throughout the night 3 times.

Mean relative humidity 77% which is 2% below the 33-year average of 79%. The mean 7 a.m. was 77% and mean 3 p.m. 69%. Lowest 7 a.m. 69% on the 28th and lowest 3 p.m. 59% on the 23rd.

Overcast conditions prevailed in the forenoon on 11 occasions and in the afternoon on 24 occasions.

Total evaporation for the month of May was 6.89 inches and the 10-year average 7.91 inches.

Mean daily sunshine hours 6.7.

## SOLAR HALO OF 29TH MAY, 1940.

A very brilliant Solar Halo appeared on Wednesday, 29th May. The Sun was almost directly overhead just before noon and continued to be visible until about 1 p.m. This phenomenon is known as a 22½ degree halo, as the ring gives a radius of 22½ degrees from the Sun. This one exhibited the prismatic colours, with the red ring along the inner edge of the circle, with violet ring on the outer edge. It was a perfect and complete halo. Then, from the ring to about half-way to the Sun's centre appeared very dark, and the illumination brightened up as it reached nearer to the Sun.

Perfect types of Halo such as this one are rare in Jamaica. On the 24th of May, 1919, and on the 14th May, 1921, exceptionally brilliant Solar Halos were visible in Kingston.

J. BRENNAN,  
Govt. Meteorologist.

Kingston,  
June 20th, 1940.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
JUNE, 1940.

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 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	29.992	29.961	82.5	85.9	88.8	80.3	8.5	90.5	30	75.5	21	15.0
Kingston	24	29.946	29.907	80.0	87.2	90.2	75.4	14.8	93.5	29	73.0	17*	20.5
Negril Point Light House	33	29.941	29.911	80.5	84.3	88.1	73.2	14.9	91.0	25	70.0	9	21.0
Montego Bay †	33	..	..	76.5	88.4	91.4	72.3	19.1	94.5	25	69.0	10*	25.5
Castleton Gardens	496	..	..	70.1	84.0	89.0	68.7	20.3	93.0	25*	65.0	1*	28.0
Hope Gardens †	668	..	..	74.6	86.7	91.4	70.8	20.6	96.0	7	69.0	17*	27.0
Hill Gardens, Blue Mountains	4,900	..	..	64.8	69.3	72.2	57.6	14.6	77.0	29	57.0	17*	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	77	73	0.10	348	E	12.0	E	11.0	2.3	3.4	1.3	2.2	3.1	1.1
Kingston	24	70	71	73	63	0.09	272	NE	6.1	SE	19.8	0.3	0.1	1.7	1.5	1.9	1.9
Negril Point Light House	33	71	75	75	74	4.33	139	SE	3.4	SE	8.4	0.0	0.2	2.4	3.2	3.2	0.4
Montego Bay	33	73	88	79	75	3.25	..	E	3.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	61	72	78	81	13.55	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	70	82	72	60	3.00	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	63	92	67	77	5.31	..	..	..	..	..	..	..	..	..	..	..

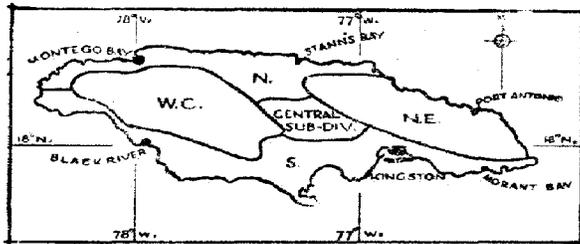
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

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.



June, 1940.

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	7.60	3.00	21	7	6.18
Mount Cressy	12.23	3.40	22	9	..
Hermitage	7.69	3.36	19	9	..
Mount Airy	10.99	1.93	7	14	..
Stony Hill Ind. Sch.	5.64	2.85	21	7	6.53
Boon Hall	8.00	3.53	21	9	..
Brandon Hill	12.42	3.31	19	9	..
Enfield	7.00	5.60	19	6	..
Agualta Vale	0.90	0.90	19	1	2.93
Castleton Gardens	19.55	6.00	7	11	8.82
Water Valley	0.75	0.75	19	1	3.74
Albany	1.42	0.66	19	4	3.01
Lawrence Tavern	3.37	1.87	19	5	6.27
Wey Hill	3.92	1.17	7	10	..
Richmond, St. Mary	6.21	3.76	19	5	4.69
Quebec, St. Mary	2.55	1.54	1	5	4.48
Above Rocks	5.04	1.42	19	11	..
Glengoffe	5.05	1.15	22	9	..
Carew Castle	3.78	1.00	9	9	8.51
Hampstead, St. Mary	3.84	3.25	19	5	3.57
Windsor Castle do.	4.11	3.15	18	4	..
Troja	8.32	6.00	19	6	..
Pear Tree Grove	5.26	2.50	19	7	..
Guy's Hill	3.42	2.30	18	3	5.74
Lucky Hill	3.23	2.57	19	8	3.66
Rio Hoe	2.38	0.50	9	10	7.47
Unity Valley	4.09	1.34	22	12	7.72
Moneague	4.19	1.52	24	9	7.39
Claremont	1.48	0.81	22	4	5.04
Averham Park	1.41	0.46	21	14	4.94
Albion	6.86	3.94	21	9	6.16
<b>NORTHERN DIVISION (N).</b>					
Port Maria	1.14	0.46	16	6	4.86
Wentworth	1.14	0.52	16	4	..
Jacks River	1.00	0.20	26	10	..
Oracabessa	1.32	0.48	28	5	..
Huddersfield	2.79	1.05	13	3	..
Ocho Rios	2.33	0.60	7	12	3.16
Rockfield	4.40	2.55	7	11	3.10
Liberty Hill	1.43	0.70	7	4	3.58
St. Ann's Bay	1.84	1.39	7	4	3.67
Richmond Estate	0.93	0.65	7	6	4.10
Runaway Bay	0.96	0.50	22	2	1.19
Knapdale	..	..	..	..	..
Alexandria	2.44	0.86	7	6	3.18
Bel-Air	2.55	1.05	22	5	..
Brown's Town	4.42	1.71	7	11	3.55
Wilton	3.69	1.98	21	8	..
Watt Town, St. Ann	4.13	2.12	24	7	3.86
Home Castle	..	..	..	..	3.60
Arcadia	0.90	0.25	7	7	3.70
Vale Royal	1.41	0.51	7	6	4.09
Harmony Hall	..	..	..	..	2.56
Duncans	0.46	0.46	7	1	..
Clark's Town	2.67	1.10	23	6	..
Falmouth	1.11	0.36	20	8	2.48

STATIONS.	June, 1940.				
	Total Fall.	Greatest fall in 24 hours.	Days on which 0.01 or more fell.	Average.	
	Ins.	Ins.			Ins.
<b>NORTH-EASTERN DIVISION (N.E.)</b>					
Manchioneal	2.27	1.84	19	3	6.76
Priestman's River	3.40	1.05	9	6	4.99
Bath	2.83	0.60	19	15	10.91
Barrett's Gap	4.19	0.93	19	12	..
Millbank	12.19	2.64	19	20	..
Comfort Castle	9.06	2.50	19	11	..
Moore Town	7.48	1.50	25	13	18.56
Port Antonio	4.07	1.10	19	9	14.32
Passley Garden	3.68	0.66	19	12	..
Fellowship	7.42	2.60	19	13	17.26
Johnson River Br.	2.45	1.10	19	12	11.52
Trinity Ville	2.64	0.94	19	4	..
Fruitful Vale	3.40	1.34	30	6	..
Hope Bay	3.31	2.44	20	3	..
Cedar Valley	1.61	0.68	20	5	11.22
Paradise	1.01	0.34	29	5	..
Lennox	3.50	2.00	19	6	..
Greenvale	8.61	5.00	15	5	3.66
Darley	2.81	1.63	19	8	..
Spring Garden	1.55	0.96	19	3	3.92
Hill Gardens	5.31	2.96	19	9	6.73
Buff Bay	0.67	0.55	26	2	6.60
Buff Bay R. Est.	3.53	2.36	19	6	..
Belvedere, Portland	2.82	1.81	19	6	1.98
Windsor Castle, do.	2.06	1.52	19	4	5.00
Balcarres	10.35	5.82	19	5	..
Mt. Holstein	5.18	1.68	8	10	5.54
Cedar Hurst	6.46	3.50	21	8	..
Hardware Gap	4.47	2.65	21	9	6.58

STATIONS.	June, 1940.					STATIONS.	June, 1940.				
	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	3.79	1.50	21	9	..	Mereworth	1.55	1.10	20	7	..
Barrett Hall	..	..	..	..	..	Mandeville	2.68	1.95	20	4	2.82
Success	..	..	..	..	2.19	Ulster Spring	4.79	1.75	21	11	6.31
Rose Hall	..	..	..	..	2.70	Greenvale	4.10	2.60	20	8	..
Cinnamon Hill	..	..	..	..	2.78	Albert Town	4.24	1.70	21	6	5.35
Tryall	..	..	..	..	5.08	Craig Head	10.13	2.68	19	5	..
Running Gut	..	..	..	..	2.86	Warsop	8.52	2.10	22	5	..
Spring Estate	..	..	..	..	2.63	Troy	7.27	1.77	8	7	8.13
Friendship	4.64	1.53	22	10	6.04	Wallingford	3.11	1.28	19	8	5.05
Retirement	4.29	0.94	22	8	6.82	Balaclava	6.05	1.98	20	6	4.52
Rose Mount	4.21	1.37	7	10	..	Braes River	2.50	1.76	20	2	..
Montego Bay	3.25	0.96	7	9	6.17	Wakefield	5.55	2.10	21	11	..
Anchovy	9.72	2.25	22	14	6.78	Aberdeen	8.48	3.15	8	9	..
Hopewell	9.37	3.30	8	13	..	Accompong	9.39	3.31	18	8	..
Blue Hole	5.25	0.90	6	14	11.30	Maggoty	7.48	2.34	8	11	6.53
Cascade	21.87	5.43	23	16	..	Lacovia	4.74	1.50	20	7	..
Lucea	5.19	1.04	29	16	7.90	Mulgrave	13.96	2.12	18	14	..
Haughton Court	8.51	1.71	23	13	8.17	Holland	..	..	..	..	..
Kendal—Hanover	10.69	2.51	10	14	..	Ipswich	12.01	3.02	19	15	..
Cousins Cove	12.59	2.70	23	21	..	Ginger Hill	11.89	2.75	18	13	..
Green River	12.84	3.15	19	17	..	Kempshot	..	..	..	..	8.57
Green Island	9.77	2.28	19	16	11.93	Mocho, St. James	16.61	2.15	8	13	..
Haughton Hall	8.12	1.97	19	19	..	Catadupa	17.27	3.65	20	12	9.83
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	11.53	1.94	23	15	9.97
Knollis	5.25	2.80	18	7	..	New Market	6.77	2.00	19	10	7.99
Highgate (St. Cath.)	5.26	2.75	18	10	..	Springfield	..	..	..	..	..
Rio Magno	8.44	5.10	19	6	..	Kew Park	20.23	5.35	19	16	9.21
Riversdale	6.96	1.75	19	13	..	The Bog	8.78	1.61	8	13	8.37
Headworks, R. C.C.	2.77	1.73	18	2	4.56	Bethel Town Dist.	21.14	5.25	19	16	11.15
Bog Walk	3.10	1.10	16	7	..	Burnt Ground	14.21	2.16	8	14	10.07
Linstead	2.74	0.69	18	8	7.24	Darliston	18.80	2.72	19	17	10.53
Ewarton	2.54	0.73	11	8	..	Bluefields	9.43	1.99	19	13	9.42
Cave Valley	6.45	1.68	8	10	7.11	Whithorn	11.32	1.60	10	13	10.16
Guanaboa Vale	2.02	1.07	18	3	..	Water Works Pen	16.96	3.65	8	17	8.87
Point Hill	1.83	0.49	18	8	8.23	Williamsfield, Wid.	18.17	3.40	10	18	..
Brown's Hall	4.10	1.90	16	4	9.18	Baulk	7.85	2.80	19	18	..
Bellas Gate	4.03	1.55	16	4	1.82	Askenish	13.45	2.25	9	13	15.10
Rock River	1.55	0.55	8	5	..	Grauge Hill	11.89	1.33	30	18	11.09
Crofts Hill	0.59	0.32	19	2	3.52	Mount Eagle	8.55	1.45	30	6	..
Far Enough	2.05	0.86	19	6	..	King's Vale	7.20	1.00	10	15	11.84
Suttons	1.22	0.39	6	7	..						
Colonel's Ridge	3.66	2.34	20	6	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	1.13	0.33	8	6	5.98	Morant Point L.H.	0.10	0.10	16	1	5.59
Crooked River	6.93	3.06	20	8	..	Golden Grove	1.43	0.80	20	6	..
James Hill	4.05	1.20	8	11	..	Pleasant Hill	2.19	1.07	19	9	3.79
Frankfield	4.63	1.30	20	9	4.37	East Prospect	1.58	0.52	13	10	6.38
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.00	0.60	17	11	7.59
Mocho, Clarendon	2.36	1.85	20	3	6.25	Lloyds	0.89	0.30	25	14	..
Thompson Town	2.37	1.23	20	6	..	Yallahs	0.35	0.35	20	1	..
Porus	2.68	1.95	20	4	..	Easington	1.12	0.62	21	3	7.36
Borobridge	3.30	1.30	20	8	..	Llandewey	..	..	..	..	..
Spaldings	1.30	0.60	20	5	4.10	Mavis Bank	0.48	0.28	21	3	..
Williamsfield	3.59	2.37	20	7	..	Bull Bay	0.00	..	..	0	3.90
Brokenhurst	2.39	0.93	16	8	9.92	Dallas Castle	0.48	0.24	9	4	..
Shooter's Hill	2.63	1.50	20	5	4.86	Gordon Town	2.35	1.37	19	3	4.40
Wait-a-bit	7.11	3.56	20	4	..	Irish Town	2.69	1.30	19	3	3.93
Christiana	2.55	1.48	20	5	5.96	Hope Gardens	3.00	1.75	8	7	4.66
Holmwood	..	..	..	..	..	Waireka	..	..	..	..	..
Clifton Hill	2.63	2.30	20	2	4.06	Iver	..	..	..	..	..
Kendal, Manchester	1.97	1.13	20	5	7.05	Plumb Point L.H.	0.00	..	..	0	3.85

STATIONS.	June, 1940.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar.	1.73	0.54	8	5	3.82
Up-Park Camp	0.53	0.37	21	4	..
Cavaliers	0.34	0.25	21	3	..
St. George's College	..	..	..	..	..
Upper Kingston	0.31	0.26	21	4	0.99
Parade Garden	0.13	0.13	21	1	..
Kingston P.W.O.	0.09	0.09	21	1	3.53
Constant Spring	2.95	1.18	21	7	..
Halfway Tree	0.14	0.07	16	3	3.24
Clifton Pen	0.19	0.16	21	2	3.43
Seaward Pen	1.22	1.07	18	3	..
Red Hills	3.07	1.30	16	7	..
Quarantine Station	0.02	0.02	20	1	2.19
Hematine	1.06	0.86	18	2	2.41
Spanish Town	0.87	0.50	18	3	4.08
Hog Hole, St. Cath.	1.17	0.74	20	4	4.43
Old Harbour	0.48	0.30	18	2	5.30
May Pen	1.21	1.07	18	6	5.11
Glen Muir	..	..	..	..	..
Cottage	0.00	..	..	..	..
Belle Plain	1.49	1.08	16	3	..
Milk River	0.38	0.15	19	3	4.88
Retrieve	1.37	0.78	20	3	2.74
Stone's Hope	3.20	2.42	20	4	7.44

STATIONS.	June, 1940.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Newport, Man.	2.80	2.19	20	3	6.99
Alligator Pond	0.40	0.40	20	1	3.65
Fairfield	..	..	..	..	5.32
Pepper	..	..	..	..	..
Myersville	2.13	2.07	20	2	..
Goshen	2.14	1.00	20	3	..
Southfield, St. Eliz.	..	..	..	..	2.72
Munro	2.89	1.27	19	5	..
Windsor, St. Eliz.	2.57	1.47	20	6	..
Torrington	2.07	1.42	20	2	3.05
Santa Cruz	5.38	2.16	20	7	5.15
Hounslow	2.50	1.75	20	3	..
Pedro Plains	1.71	1.45	20	4	2.10
Mountainside	2.46	1.70	20	5	2.04
Fort Charles	2.00	2.00	20	1	..
Black River	2.73	1.05	18	7	3.58
Mt. Charles	7.51	3.12	19	9	..
Font Hill	..	..	..	..	4.74
Mount Edgecombe	8.77	1.64	18	4	6.11
Sav.-la-Mar	7.51	1.47	20	12	6.61
Little London	11.56	3.91	18	17	8.52
Retreat	9.46	3.22	18	15	7.39
Negril Point L.H.	4.33	1.12	8	9	5.51

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	June.			
	Rainfall, inches.		Days on which Rain fell.	
	1940.	Ave.	1940.	Ave.
North-eastern	4.14	7.51	8	11
Northern	3.55	5.10	9	9
West-central	8.60	8.57	10	13
Southern	2.40	4.93	5	8
The Island means	4.67	6.53	8	10

SHOCKS OF EARTHQUAKE IN JUNE, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
30th	1.48 a.m.	I	Fellowship Boon Hall Unity Valley Belle Plain Lloyds Kingston

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 much below the average in all Divisions except the West-Central, which had slightly more than its average.

The greatest total fall for the month was 21.87 inches at Cascade in the Northern Division, and the heaviest fall in 24 hours was 6.00 inches at Castleton Gardens on the 7th and at Troja on the 19th, both in the Northern Division.

No rain fell at Bull Bay, Plumb Point Lighthouse and Cottage, all in the Southern Division.

The mean number of rain days was 8, the average for the month being 10. Cousins Cove in the Northern Division had most—21.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 12.17 inches, was highest; Hanover, with 10.70 inches, next; and St. James, with 8.39 inches, was third. Kingston, with 0.13 inch was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.13	2.42	St. James	8.39	6.85
St. Andrew	4.23	4.21	Hanover	10.70	10.83
St. Thomas	1.83	8.64	Westmoreland	12.17	8.58
Portland	4.76	8.19	St. Elizabeth	5.45	4.46
St. Mary	3.80	4.85	Manchester	2.98	6.62
St. Ann	3.11	4.67	Clarendon	2.25	5.31
Trelawny	4.00	5.41	St. Catherine	3.57	5.71

The total rainfall for the first half of the year is given below, compared with the 60-year average, and shows an excess of 0.26 inch.

	1940.	60-year Average.
	Inches.	Inches.
January	5.09	4.00
February	3.99	3.13
March	1.61	3.35
April	3.51	4.77
May	11.94	8.77
June	4.67	6.53
Total	30.81	30.55

## CITY OF KINGSTON.

The total rainfall for the month of June was 0.09 of an inch with only one rain day on the 21st. The 60-year normal rainfall is 3.51 inches, hence the precipitation was very deficient, being about 2½% of the average. The average rain days is 6.4. The upper boundary of Kingston gauged 0.31 of an inch with 4 rain days.

The several directions in which distant rain was observed:—to the northward 6, to southeast one and to north-westward 7.

The mean barometric pressure was 29.933 inches, the 33-year normal being 29.932 inches, or 0.001 inch above the normal. Highest reading 29.992 inches on the 30th at 7 a.m. and the lowest 29.863 inches on the 20th at 7 a.m., corrected for diurnal variation.

The mean temperature was 82.7°, the 33-year normal being 80.9°, or 1.8° above the normal. The extreme maximum was 93.5° on the 29th and the extreme minimum was 73.0° on the 17th and 18th, giving an extreme monthly range of 20.5°. On the other hand the lowest maximum was 87.1° on the 8th and the highest minimum 81.3°, on the 1st the maximum was 90° or above on 15 occasions. The minimum was above 70° throughout. The greatest daily range was 17.6° on the 27th and the least was 9.7° on the 1st.

The mean daily miles of wind registered was 272, the 25-year normal being 239 or 14% above the normal for the month. The greatest number of miles recorded was 477 on the 1st and the least was 127 on the 8th. South-easterly wind appeared before 7 a.m. on 4 occasions and continued after 7 p.m. 23 times. The greatest hourly velocity was 30 m.p.h. on the 1st at about 3.15 p.m.

The mean relative humidity was 70%, the 33-year normal being 78%. Mean 7 a.m. 71% and mean 3 p.m. 63%. Lowest 7 a.m. 57% on 12th and lowest 3 p.m. 46% on 12th.

Overcast conditions prevailed in the early forenoon on five occasions and in afternoon on fourteen occasions. Total evaporation for the month of June, 1940, 8.99 inches. The 10-year average being 6.93 inches. This excess over the normal may be attributed to prevailing high southeast winds and mean temperature nearly 2° in excess.

Mean daily number of sunshine hours 8.7.

The aggregate rainfall total for the half year—January to June, 1940, was 3.93 inches, and the aggregate average for this period is 11.12 inches, representing about 35% of the normal.

J. F. BRENNAN,  
Government Meteorologist.

Kingston, 22nd July, 1940.



# JAMAICA WEATHER REPORT.

FOR THE MONTH OF

JULY, 1940.

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 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 adapted 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	30.021	29.992	83.3	86.8	88.9	80.4	8.5	92.9	12	74.9	17	18.0
Kingston	24	29.980	29.935	78.8	88.4	90.9	75.4	15.5	98.8	15	72.0	26	21.8
Negril Point Light House	33	29.973	29.941	80.1	86.0	89.2	74.0	15.2	92.0	20	68.5	22	23.5
Montego Bay †	33			77.1	90.1	93.1	73.5	19.6	95.0	24*	69.9	26	25.1
Castleton Gardens	496			70.8	84.8	90.8	65.4	25.4	95.0	29	65.0	28*	30.0
Hope Gardens †	668	30.013	29.938	74.7	88.2	90.1	70.9	19.2	95.0	3	70.0	11*	25.0
Hill Gardens, Blue Mountains	4,900	25.312	25.271	64.4	69.1	73.6	58.0	15.6	77.0	3	57.0	13*	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	79	77	72	2.28	354	E	12.0	E	12.0	0.3	1.1	2.9	0.9	2.4	3.0	0.7
Kingston	24	70	74	73	61	2.24	242	NNE	4.2	SE	20.5	0.0	0.6	2.3	1.4	1.6	2.8	
Negril Point Light House	33	72	76	75	70	3.77	113	NE	3.5	Var.	9.0	0.0	0.3	2.1	2.8	2.3	1.9	
Montego Bay	33	73	88	78	72	0.71	..	SE	3.0	NE	7.0	..	..	..	..	..	..	
Castleton Gardens	496	69	95	79	81	2.17	..	..	..	..	..	..	..	..	..	..	..	
Hope Gardens	668	69	81	69	54	3.73	..	..	..	..	..	..	..	..	..	..	..	
Hill Gardens, Blue Mtns.	4,900	59	83	61	76	1.73	..	..	..	..	..	..	..	..	..	..	..	

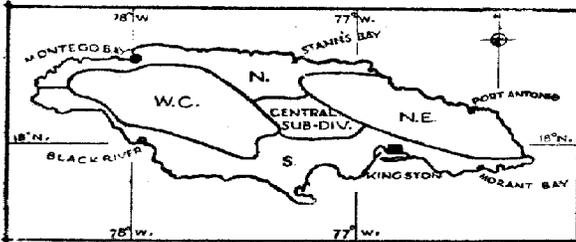
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

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.	July, 1940.				
	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	5.70	1.23	20	8	5.49
Priestman's River	3.80	1.10	24	6	5.64
Bath	5.49	1.75	16	13	7.93
Barrett's Gap	7.15	1.50	24	13	
Millbank	16.94	3.30	24	17	
Comfort Castle					
Moore Town	16.85	3.00	1	17	16.27
Port Antonio	4.90	1.00	20	9	10.25
Passley Garden	5.27	0.93	20	18	
Fellowship	11.92	2.40	16	15	13.80
Johnson River Br.	7.27	2.77	16	14	6.63
Trinity Ville	5.57	2.00	16	9	
Fruitful Vale	12.88	3.39	18	11	
Hope Bay	8.33	2.14	18	12	
Cedar Valley	2.75	1.46	24	5	4.19
Paradise	6.04	1.10	20	12	
Lennox	7.10	2.00	18	14	
Greenvale	4.16	1.70	25	5	3.57
Darley	5.77	1.76	18	13	
Spring Garden					3.95
Hill Gardens	1.73	0.77	16	4	3.36
Buff Bay	5.24	1.34	1	9	6.15
Buff Bay R. Est.	5.15	1.90	20	9	
Belvedere, Portland	2.76	0.67	17	8	2.37
Windsor Castle, do.	5.81	1.54	18	12	3.89
Balcarres	4.53	1.40	25	7	
Mt. Holstein	1.73	0.84	11	5	4.72
Cedar Hurst	3.42	1.30	16	10	
Hardware Gap	2.16	1.43	16	8	3.90

STATIONS.	July, 1940.				
	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	2.71	1.48	16	7	5.40
Mount Cressy	2.42	0.70	11		
Hermitage	2.71	1.43	16	10	
Mount Airy	2.95	0.76	1	7	
Stony Hill Ind. Sch.	3.12	1.34	15	7	4.87
Boon Hall	2.81	1.60	16	10	
Brandon Hill	2.00	0.64	10	5	
Enfield	1.71	0.57	20	6	
Agualta Vale	3.87	1.35	1	5	3.15
Castleton Gardens	2.17	0.80	11	10	5.86
Water Valley	1.76	1.05	24	4	3.13
Albany					3.63
Lawrence Tavern	1.65	0.50	25	7	5.09
Wey Hill	2.39	0.90	16	8	
Richmond, St. Mary	2.29	1.00	16	5	3.26
Quebec, St. Mary	3.62	1.54	1	6	3.42
Above Rocks	5.17	1.31	24	14	
Glengoffe	3.08	1.58	8	4	
Carew Castle	4.15	1.61	24	9	6.24
Hampstead, St. Mary	1.54	0.60	1	5	2.87
Windsor Castle do.	1.48	0.60	11	6	
Troja	0.76	0.41	16	2	
Pear Tree Grove	1.00	0.75	16	2	
Guy's Hill	0.78	0.50	11	3	3.83
Lucky Hill	0.97	0.29	1	6	2.85
Rio Hoe	1.52	0.50	21	5	4.09
Unity Valley	4.10	1.67	17	9	5.49
Moneague	3.39	1.45	17	6	4.51
Claremont	1.87	1.05	19	4	3.23
Averham Park	1.60	1.12	21	5	2.91
Albion	2.88	1.72	25	9	3.98
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	3.25	1.10	1	9	3.89
Wentworth					
Jacks River	3.27	1.68	1	8	
Oracabessa	4.13	1.50	1	7	
Huddersfield	2.79	1.05	20	5	
Ocho Rios	1.24	0.47	1	9	2.10
Rockfield	1.19	0.32	13	1	2.91
Liberty Hill	0.49	0.22	20	3	2.08
St. Ann's Bay	0.25	0.15	20	2	2.83
Richmond Estate					2.20
Runaway Bay	0.00			0	1.06
Knapdale	2.60	0.80	20	6	
Alexandria	2.21	1.00	24	7	2.86
Bel-Air	0.85	0.45	14	3	
Brown's Town	1.54	0.64	25	8	2.39
Wilton	1.57	1.00	13	7	
Watt Town, St. Ann	4.79	1.50	9	11	3.00
Home Castle	0.85			1	2.18
Arcadia	0.59	0.22	25	4	2.16
Vale Royal	0.99	0.59	17	6	2.74
Harmony Hall					1.45
Duncans	0.23	0.23	20	1	
Clark's Town	1.70	0.64	13	5	
Falmouth	0.24	0.10	13	4	1.46

STATIONS.	July, 1940.					STATIONS.	July, 1940.				
	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	1.98	1.28	25	3		Mereworth	4.48	1.66	24	8	
Barrett Hall					1.30	Mandeville	6.42	3.73	24	6	5.32
Success					1.13	Ulster Spring	6.97	1.50	18	10	5.35
Rose Hall					1.18	Greenvale	6.51	1.53	24	13	
Cinnamon Hill					3.54	Albert Town	5.60	1.50	18	6	4.92
Tryall					1.24	Craig Head	1.96	1.00	25	3	
Running Gut					1.44	Warsop	7.46	3.18	27	10	
Spring Estate					2.88	Troy	11.05	2.90	31	7	6.94
Friendship	1.07	0.40	25	4	4.01	Wallingford	6.01	1.32	24	10	5.18
Retirement	1.56	0.82	18	4		Balaclava	6.71	1.70	7	8	4.69
Rose Mount	1.00	0.85	25	2		Braes River	2.32	0.80	24	7	
Montego Bay	0.71	0.58	25	2	3.21	Wakefield	2.44	1.44	25	8	
Anchovy	2.92	1.26	16	7	4.49	Aberdeen	6.82	1.66	27	7	
Hopewell	4.01	1.80	18	9		Accompong	11.64	3.38	18	9	
Blue Hole	5.37	1.50	25	6	5.85	Maggotty	4.69	1.00	15	9	8.35
Cascade	13.10	3.41	28	13		Lacovia	8.03	1.58	21	12	
Luca	4.58	1.27	25	10	4.93	Mulgrave	11.01	2.18	25	14	
Haughton Court	4.28	1.54	25	10	4.63	Holland					
Kendal—Hanover	9.20	2.93	15	18		Ipswich	9.70	1.50	9	13	
Cousins Cove	4.55	1.81	25	14		Ginger Hill	6.16	0.84	24	15	
Green River	10.25	3.05	7	15		Kempshot	2.42	0.57	25	13	5.68
Green Island	6.30	1.70	25	15	8.59	Mocho, St. James	15.61	3.07	23	10	
Haughton Hall	6.10	2.24	25	20		Catadupa	12.26	3.00	24	15	9.36
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	6.07	1.54	18	18	9.59
Knollis	4.75	1.30	24	9		New Market	8.61	2.40	15	12	8.36
Highgate (St. Cath.)	3.80	1.73	27	15		Springfield					
Rio Magno	1.38	0.50	16	4		Kew Park	10.02	2.19	18	18	9.85
Riversdale	5.20	1.83	15	7		The Bog	7.69	2.21	15	15	9.11
Headworks, R. C.C.	2.10	1.00	19	5	2.99	Bethel Town Dist.	14.15	2.56	18	22	14.74
Bog Walk	4.23	1.18	15	8		Burnt Ground	4.93	1.88	19	10	8.81
Linstead	7.03	1.80	24	13	5.88	Darlston	12.25	1.23	22	21	11.42
Ewarton	2.33	0.84	25	6		Bluefields	3.28	0.65	15	13	9.32
Cave Valley	4.04	0.74	15	12	4.54	Whithorn	9.99	1.55	19	14	10.12
Guanaboa Vale	1.29	1.03	19	3		Water Works Pen	11.96	2.05	19	16	9.40
Point Hill	5.80	1.74	16	16	6.17	Williamsfield, Wld.	10.27	1.60	18	19	
Brown's Hall	6.94	2.32	16	7	5.20	Baulk	6.99	0.95	18	15	
Bellas Gate	8.66	2.74	16	8	1.30	Askenish	9.39	2.00	17	11	10.38
Rock River	3.38	1.25	24	8		Grange Hill	7.97	1.75	21	16	11.11
Crofts Hill	3.18	0.88	21	8	2.68	Mount Eagle	7.92	1.67	24	16	
Kellitts	4.46	1.50	24	6		King's Vale	5.78	1.20	17	11	9.82
Suttons	2.87	0.84	24	9							
Colonel's Ridge	3.82	0.69	16	12		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	2.10	1.12	24	7	3.12	Morant Point L.H.	2.28	0.62	10	9	3.17
Crooked River	4.97	1.34	24	10		Golden Grove	2.51	0.67	16	8	
James Hill	3.86	1.00	24	11		Pleasant Hill	3.64	1.23	16	14	3.19
Frankfield	6.41	2.05	25	8	4.50	East Prospect	3.70	1.19	25	10	4.30
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.29	0.76	11	9	4.95
Mocho, Clarendon	5.18	2.25	16	6	3.46	Lloyds	2.56	1.00	16	13	
Thompson Town	2.56	1.07	21	9		Yallahs	1.55	1.05	11	3	
Porus	4.75	1.76	24	7		Easington	4.21	1.88	16	9	4.87
Borobridge	4.23	1.40	24	9		Mavis Bank	1.02	0.35	16	7	
Spaldings	5.66	1.00	15	12	3.79	Bull Bay	0.61	0.41	16	2	1.68
Williamsfield	4.24	1.68	24	10		Dallas Castle	3.05	1.83	24	5	
Brokenhurst	4.47	1.91	25	7	4.73	Gordon Town	0.94	0.66	16	3	2.33
Shooter's Hill	3.21	1.21	24	8	4.88	Irish Town	0.55	0.40	16	2	1.73
Wait-a-bit	4.78	1.40	27	8		Hope Gardens	3.73	2.12	31	6	2.50
Christiana	4.33	1.15	24	15	4.09	Plumb Point L.H.	0.76	0.66	24	2	1.75
Hohnwood											
Clifton Hill	6.47	3.55	24	6	4.97						
Kendal, Manchester	4.45	1.32	24	9	5.13						

STATIONS.	July, 1940.					STATIONS.	July, 1940.				
	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. . . . .	2.01	0.50	15	3	2.37	Newport, Man. . . . .	2.32	0.98	25	5	3.28
Up-Park Camp . . . . .	2.01	0.86	16	5		Alligator Pond . . . . .	1.40	0.50	20	4	2.01
Cavaliers . . . . .	1.80	0.70	24	3		Fairfield . . . . .					2.69
St. George's College . . . . .	1.77	1.10	24	5		Pepper . . . . .					
Upper Kingston . . . . .	1.73	1.06	24	6	1.58	Myersville . . . . .	1.74	0.48	31	5	
Parade Garden . . . . .	1.66	1.02	24	6		Goshen . . . . .	1.16	0.47	31	5	
Kingston P.W.O. . . . .	2.24	0.97	24	6	1.53	Southfield, St. Eliz. . . . .					1.88
Constant Spring . . . . .	1.51	0.69	16	7		Muaro . . . . .	1.60	0.46	21	9	
Halfway Tree . . . . .	1.38	0.46	16	4	1.53	Windsor, St. Eliz. . . . .	1.06	0.34	16	9	
Clifton Pen . . . . .	0.96	0.45	16	4	1.33	Torrington . . . . .	1.26	0.64	16	4	2.29
Seaward Pen . . . . .	1.40	0.62	23	3		Santa Cruz . . . . .	6.75	1.34	20	13	5.25
Red Hills . . . . .	1.86	0.95	23	5		Hounsflow . . . . .	1.02	0.47	20	3	
Quarantine Station . . . . .	1.65	1.15	25	5	0.92	Pedro Plains . . . . .	0.51	0.41	25	2	1.52
Hematine . . . . .					1.14	Mountainside . . . . .	1.57	0.90	17	4	2.81
Spanish Town . . . . .	0.43	0.18	16	3	1.90	Fort Charles . . . . .	0.00			0	
Hog Hole, St. Cath. . . . .	1.48	0.96	16	4	2.19	Black River . . . . .	2.82	0.64	30	11	4.52
Old Harbour . . . . .	1.55	0.70	25	3	1.99	Mt. Charles . . . . .	4.81	0.94	26	14	
May Pen . . . . .	3.26	2.76	16	6	2.76	Font Hill . . . . .					5.41
Glen Muir . . . . .	3.90	2.50	16	4		Mount Edgecombe . . . . .	4.81	1.00	1	12	6.82
Cottage . . . . .	1.05	0.65	16	3		Sav.-la-Mar . . . . .	2.57	0.41	30	11	6.19
Belle Plain . . . . .	3.74	1.90	16	5		Little London . . . . .	5.26	1.69	24	19	6.20
Milk River . . . . .	1.30	0.50	20	3	1.62	Retreat . . . . .	5.78	2.10	24	11	7.43
Retrieve . . . . .	1.58	0.75	20	4	1.53	Negril Point L.H. . . . .	3.77	1.35	24	16	5.83
Stene's Hope . . . . .	1.53	0.90	25	3	3.50						

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	July.			
	Rainfall, inches.		Days on which Rain fell.	
	1940.	Ave.	1940.	Ave.
North-eastern . . . . .	3.83	5.25	8	10
Northern . . . . .	3.02	3.19	8	7
West-central . . . . .	7.17	7.56	11	13
Southern . . . . .	2.36	2.99	6	7
The Island means . . . . .	4.10	4.75	8	9

SHOCKS OF EARTHQUAKE IN JULY, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
29th 30th	2.15 p.m. 11 a.m.	I I	Port Antonio Do Fellowship Bath Stony Hill Unity Valley Linstead Colonel's Ridge Spaldings Clifton Hill East Prospect Kingston Old Harbour

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 below the average in all Divisions.

The greatest total fall for the month was 16.94 inches at Millbank in the North-eastern Division, and the heaviest fall in 24 hours was 3.73 inches at Mandeville, in the West-Central Division, on the 24th.

No rain fell at Runaway Bay and Fort Charles.

The mean number of rain days was 8, the average for the month being 9. The greatest number was 22 at Bethel Town in the West-Central Division.

The mean rainfall in each parish is given below, compared with the 10-year average. Westmoreland, with 7.79 inches, was highest; Portland, with 6.91 inches next; and Hanover with 6.76 inches, was third. Kingston, with 1.63 inch was lowest.

Parish.	1940 Inches.	10-Year Average Inches.	Parish.	1940 Inches.	10-Year Average Inches.
Kingston ..	1.63	3.02	St. James ..	4.95	4.80
St. Andrew ..	2.09	4.74	Hanover ..	6.76	7.84
St. Thomas ..	3.92	6.90	Westmoreland ..	7.79	8.93
Portland ..	6.91	9.21	St. Elizabeth ..	4.71	4.80
St. Mary ..	2.52	3.95	Manchester ..	3.87	5.70
St. Ann ..	2.32	3.35	Clarendon ..	3.66	5.07
Trelawny ..	3.82	3.86	St. Catherine ..	3.26	5.03

## CITY OF KINGSTON.

The total rainfall for the month of July, was 2.24 inches, the 60-Year normal being 1.54 inch. All of this precipitation occurred during the latter half of the month. The greatest fall in 24 hours was 0.97 of an inch, on the 24th. There were six days with appreciable rain, as compared with the 49-Year average of five. The Upper Boundary of Kingston gauged 1.73 of an inch with 6 rain days.

The several directions from which distant rain was observed are as follows:—to north on 4, to north-east on 3 to east, south-east and south once and to northwest 3.

The mean barometric pressure was 29.969 inches, the 33-Year normal being 29.960 inches, or 0.009 inch above the normal. The highest reading was 30.042 inches on the 10th at 3 p.m., and the lowest was 29.908 inches on the 7th at 3 p.m., corrected for Diurnal Variation.

The mean temperature for the month, based upon four observations per day, was 82.9°, the 33-Year normal 81.4°, shewing 1.5° above the normal. The extreme maximum was 93.8° on the 14th and the extreme minimum was 72.0° on the 26th, giving the extreme monthly range of 21.8°. On the other hand, the lowest maximum was 88.0° on the 16th, and the highest minimum was 78.1° on the 3rd and 14th. The maximum was 90° or above on 23 days, and the minimum was above 70° throughout. The greatest daily range was 18.4° on the 30th, and the least was 11.1° on the 16th.

The mean daily miles of wind registered was 242, the 25-Year normal being 227, giving 7% above the normal. The greatest number of miles of wind recorded in 24 hours was 387 on the 3rd, and the least was 120 on the 11th. South-easterly wind prevailed before 7 a.m. on two days and continued after 7 p.m. on 20 occasions and throughout the night twice.

Distant lighting was seen to north once, also once to the east-south-east.

Distant thunderstorm was observed to the north on 5 occasions, to the east twice, to the north-east once, south-east twice, to the south and north-west once each. Local thunderstorm on 24th (intense about noon).

Dense haze prevailed around on the 11th. Overcast conditions prevailed in the forenoon on 7 occasions and in the afternoon 14 times.

Total evaporation for the month was 8.76 inches, the 10-Year normal being 7.87 inches.

Mean daily number of sunshine hours 9.3.

A moderate shock of Earthquake was felt on the 30th at about 11.05 a.m. Horizontal movement about 0.03 of an inch lasting a few seconds. It was apparently of a slow period and was felt at other parts of the eastern section of the Island. Santiago de Cuba also reported a mild shock at the same time.

## CAYMAN ISLANDS.

The following is a table of the rainfall at George Town, Grand Cayman, for the first seven months of the year 1940:—

Month.	Inches.	10-Year Normal.
January .. ..	4.20	3.69
February .. ..	2.98	0.69
March .. ..	0.52	1.68
April .. ..	0.58	2.36
May .. ..	3.43	7.37
June .. ..	3.74	9.60
July .. ..	3.12	7.21

J. F. BRENNAN,  
Government Meteorologist.

Kingston, Jamaica,  
August 20th, 1940.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
AUGUST, 1940.

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 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	29.967	29.933	83.1	86.7	88.9	80.2	8.7	90.7	5	74.5	27	16.2
Kingston	24	29.939	29.891	77.7	88.4	90.7	75.0	15.7	94.5	6*	71.4	22	23.1
Negril Point Light House	33	29.931	29.900	78.7	85.2	88.7	73.7	15.0	91.0	6*	71.3	9*	19.7
Montego Bay †	33	..	..	76.6	87.4	92.2	72.2	20.0	94.5	5*	67.5	23	27.0
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens †	668	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mountains	4,900	..	..	..	..	..	..	..	..	..	..	..	..

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.					Mls.	7 a.m.		3 p.m.		7 a.m.			3 p.m.		
		°	%	°	%	ins.				Dir.	m.p.h.	Dir.	m.p.h.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	77	81	78	74	3.73	311	ENE	10.0	E	9.0	3.2	2.5	1.0	1.7	3.1	1.4		
Kingston	24	70	78	73	63	0.46	200	N	3.8	SE	18.1	0.5	0.4	3.5	2.0	2.9	1.0		
Negril Point Light House	33	74	83	75	72	3.64	104	NE	4.4	Var.	7.3	0.1	0.8	3.7	3.2	3.8	1.2		
Montego Bay	33	72	87	78	75	3.80	..	SE	1.0	E	7.0	..	..	..	..	..	..		
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Hope Gardens	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Hill Gardens, Blue Mtns.	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		

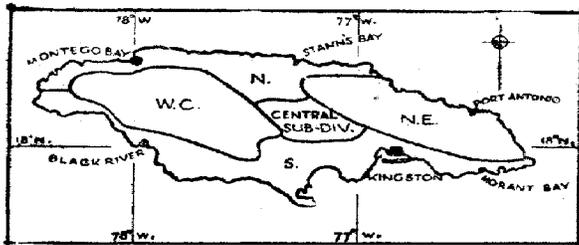
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
† Montego Bay—observations made at 8 a.m. and 3 p.m.

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.



August, 1940.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
August, 1940.					
	Ins.	Ins.			Ins.
NORTH-EASTERN DIVISION (N.E.)					
Manchioneal	6.64	1.54	27	5	7.09
Priestman's River	3.45	0.90	25	11	8.00
Bath	6.03	1.48	19	15	9.98
Barrett's Gap	7.62	2.50	19	11	
Millbank	5.29	1.22	29	11	
Comfort Castle	6.37	1.20	13	10	
Moore Town	9.32	2.60	20	16	15.77
Port Antonio	4.10	1.90	5	6	11.62
Passley Garden	4.70	0.89	23	14	
Fellowship	4.98	1.10	20	11	
Johnson River Br.	2.42	0.48	18	10	14.25
Trinity Ville	1.25	0.53	7	4	10.01
Fruitful Vale	1.89	1.09	16	5	
Hope Bay	1.32	0.62	20	7	
Cedar Valley	1.06	0.57	7	4	9.23
Paradise	0.16	0.10	17	2	
Lennox	2.80	1.40	29	6	
Greenvale	0.31	0.22	18	3	5.80
Darley	2.30	0.78	17	6	
Spring Garden	1.41	0.51	29	5	6.52
Hill Gardens	1.55	0.96	15	9	7.80
Buff Bay	1.48	0.41	29	5	5.87
Buff Bay R. Est.	0.42	0.30	28	3	
Belvedere, Portland	0.50	0.26	29	4	5.35
Windsor Castle, do.	1.45	0.86	29	6	5.49
Balcarras	3.37	2.21	13	4	
Mt. Holstein	4.07	1.42	11	7	7.02
Cedar Hurst	1.98	0.54	13	10	
Hardware Gap	3.30	1.18	20	10	7.22

STATIONS.	August, 1940.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
NORTH-EASTERN DIVISION, contd.					
	Ins.	Ins.			Ins.
Rose Hill	5.94	1.60	20	13	9.92
Mount Cressy	8.48	2.20	11		
Hermitage	5.20	1.37	20	14	
Mount Airy	7.16	2.32	31	10	
Stony Hill Ind. Sch.	4.75	1.24	31	15	8.86
Boon Hall	5.25	1.18	20	15	
Brandon Hill	5.87	1.13	21	9	
Enfield	0.98	0.32	19	6	
Agualta Vale	1.69	0.86	6	4	4.28
Castleton Gardens	11.27	1.45	11	11	9.83
Water Valley	1.20	0.75	6	4	4.31
Albany					4.01
Lawrence Tavern	7.44	1.50	13	11	8.23
Wey Hill	4.12	0.98	14	11	
Richmond, St. Mary	3.27	1.03	24	6	5.05
Quebec, St. Mary	0.64	0.49	29	2	4.50
Above Rocks	8.34	1.80	14	14	
Glengoffe	10.68	1.98	24	11	
Carew Castle	8.20	1.94	11	15	10.06
Hampstead, St. Mary	1.35	0.58	7	5	4.39
Windsor Castle do.	0.75	0.35	11	3	
Troja	5.80	2.62	14	7	
Pear Tree Grove	2.95	1.30	14	6	
Guy's Hill	1.64	0.73	26	3	4.13
Lucky Hill	1.43	0.51	7	5	4.66
Rio Hoe	3.71	1.61	15	6	5.86
Unity Valley	3.07	1.25	26	6	6.60
Moneague	4.41	1.66	24	7	6.69
Claremont	1.86	0.74	15	4	5.08
Averham Park	2.49	1.29	23	4	4.59
Albion	5.59	2.05	13	8	6.01
NORTHERN DIVISION (N).					
Port Maria	0.50	0.22	29	3	4.94
Wentworth	0.40	0.25	26	2	
Jacks River	0.35	0.19	23	4	
Oracabessa	1.02	0.52	24	3	
Huddersfield	1.50	0.85	14	4	
Ocho Rios	1.67	0.80	7	6	2.99
Rockfield	1.57	0.47	15	5	4.30
Liberty Hill	0.56	0.28	11	3	3.19
St. Ann's Bay	2.08	0.85	11	5	3.07
Richmond Estate					3.04
Runaway Bay	0.20	0.20	7	1	1.88
Knapdale	1.28	0.58	11	6	
Alexandria	2.05	0.56	26	8	3.86
Bel-Air	0.95	0.40	19	4	
Brown's Town	3.79	1.48	11	6	3.96
Wilton	2.88	0.85	14	7	
Watt Town, St. Ann	2.86	0.70	21	8	4.58
Home Castle	8.20	1.85	13	7	3.43
Arcadia	2.34	0.60	11	9	3.27
Vale Royal	2.48	0.70	26	8	4.58
Harmony Hall					2.35
Duncans	1.43	0.46	11	5	
Clark's Town	3.56	1.05	26	9	
Falmouth	2.39	1.05	13	5	2.45

STATIONS.	August, 1940.					STATIONS.	August, 1940.				
	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	4.89	1.35	11	7		Mereworth	5.09	2.50	23	11	
Barrett Hall					2.11	Mandeville	5.45	1.55	7	8	8.53
Success					2.06	Ulster Spring	5.23	1.40	10	12	8.54
Rose Hall					2.19	Greenvale	10.19	2.60	31	13	
Cinnamon Hill					5.04	Albert Town	8.55	2.00	10	10	9.25
Tryall					2.43	Craig Head	10.49	3.00	19	6	
Running Gut					2.44	Warsop	12.58	1.56	18	21	
Spring Estate					5.63	Troy	21.40	3.80	14	21	10.09
Friendship	4.74	1.31	7	9	6.11	Wallingford	11.52	2.55	24	19	10.33
Retirement	5.29	1.52	15	10		Balaclava	9.96	2.48	23	13	7.97
Rose Mount	2.99	0.72	14	8		Braes River	9.21	2.23	13	14	
Montego Bay	3.80	0.72	13	9	5.12	Wakefield	9.87	2.76	11	12	
Anchovy	4.69	1.35	24	13	6.55	Aberdeen	13.06	2.45	23	18	
Hopewell	6.55	1.20	7	11		Accompong	16.17	3.52	10	19	
Blue Hole	6.37	1.99	7	8	7.20	Maggotty	9.50	1.64	19	17	11.21
Cascade	14.30	2.38	21	18		Lacovia	7.66	1.52	17	13	
Luca	7.41	3.57	7	12	6.29	Mulgrave	12.33	2.65	10	24	
Haughton Court	4.89	3.14	7	8	6.65	Holland					
Kendal—Hanover	8.75	2.05	21	19		Ipswich	15.09	1.78	10	27	
Cousins Cove	6.94	2.58	7	20		Ginger Hill	12.86	3.00	14	19	
Green River	7.09	1.53	13	16		Kempshot	6.96	1.81	13	12	7.87
Green Island	8.43	3.18	7	18	9.48	Mocho, St. James	11.70	1.73	16	12	
Haughton Hall	6.97	1.10	23	21		Catadupa	11.83	1.75	1	21	13.41
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	13.08	1.85	16	21	11.05
Knollis	5.47	0.95	10	8		New Market					13.12
Highgate (St. Cath.)	4.01	0.62	14	17		Springfield					
Rio Magno	3.34	0.70	25	8		Kew Park	10.82	1.69	18	24	12.12
Riversdale	8.54	1.80	19	10		The Bog	7.64	1.92	30	20	13.91
Headworks, R. C.C.	0.99	0.39	20	4	5.55	Bethel Town Dist.	15.68	1.90	18	24	14.10
Bog Walk	5.10	1.30	20	11		Burnt Ground	9.25	1.57	14	18	11.09
Linstead	4.70	1.44	19	11	8.62	Darliston	18.62	2.60	31	28	15.00
Ewarton	0.66	0.40	21	4		Bluefields	9.42	1.18	16	19	11.75
Cave Valley	2.68	0.82	13	7	7.42	Whithorn	6.88	1.28	16	11	11.74
Guanaboa Vale	5.01	1.91	17	3		Water Works Pen	9.74	1.50	21	20	12.72
Point Hill	7.61	1.84	20	13	10.25	Williamsfield, Wld.	12.11	2.50	8	28	
Brown's Hall	5.40	0.90	17	11	7.88	Baulk	10.83	1.60	14	19	
Bellas Gate	10.74	3.25	7	12	5.95	Askenish	10.64	1.90	21	13	12.78
Rock River	3.55	1.00	20	8		Grange Hill	11.20	2.46	13	19	13.06
Crofts Hill	2.74	1.57	7	5	7.71	Mount Eagle	11.61	1.49	25	18	
Kellit's	3.37	1.33	20	11		King's Vale	6.90	1.42	21	19	10.61
Suttons											
Colonel's Ridge	8.23	2.62	19	13		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	3.97	0.70	20	14	6.31	Morant Point L.H.	3.73	1.17	26	14	5.05
Crooked River	8.33	2.33	19	14		Golden Grove	6.23	1.71	19	20	
James Hill	6.33	1.24	31	12		Pleasant Hill	5.56	1.40	19	15	6.87
Frankfield	5.53	1.25	18	12	7.82	East Prospect	3.16	0.84	26	14	6.69
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	2.89	0.69	19	11	6.43
Mocho, Clarendon	1.52	0.75	23	5	6.79	Lloyds	1.17	0.33	29	9	
Thompson Town	3.82	0.91	19	12		Yallahs	1.76	0.77	20	4	
Porus	1.14	0.50	7	5		Easington	0.72	0.45	21	2	6.67
Borobridge	4.75	1.90	19	9		Mavis Bank	0.17	0.15	7	2	
Spaldings	6.14	1.70	12	12	7.26	Bull Bay	0.00				2.54
Williamsfield	6.60	2.81	7	10		Dallas Castle	0.45	0.25	30	4	
Brokenhurst	4.71	1.96	7	8	8.16	Gordon Town	2.13	0.90	23	5	5.09
Shooter's Hill	5.49	2.45	7	10	7.38	Irish Town	3.60	1.20	23	5	5.95
Wait-a-bit	9.14	2.39	12	8		Hope Gardens	0.74	0.30	16	5	5.81
Christiana	5.51	2.50	12	10	7.03	Plumb Point L.H.	0.15	0.15	7	1	3.47
Holmwood	5.00	1.56	12	11							
Clifton Hill	5.92	2.32	23	5	8.46						
Kendal, Manchester	5.11	2.60	7	10	8.13						

STATIONS.	August, 1940.					STATIONS.	August, 1940.				
	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. . . . .	1.46	0.70	17	6	4.90	Newport, Man. . . . .	2.68	1.22	7	5	7.35
Up-Park Camp . . . . .	1.03	0.25	20	7		Alligator Pond . . . . .	0.10	0.10	8	1	4.13
Cavaliers . . . . .	0.70	0.33	20	7		Myersville . . . . .	1.58	0.76	31	3	
St. George's College . . . . .	1.10	0.50	20	4		Goshen . . . . .	7.73	1.65	13	9	
Upper Kingston . . . . .	0.89	0.45	20	6	4.83	Munro . . . . .	3.57	0.68	23	8	
Parade Garden . . . . .	0.57	0.37	20	2		Windsor, St. Eliz. . . . .	5.13	1.24	27	10	
Kingston P.W.O. . . . .	0.46	0.22	20	5	3.60	Torrington . . . . .	3.36	1.34	27	6	5.54
Constant Spring . . . . .	3.92	1.43	17	10		Santa Cruz . . . . .	10.75	1.80	17	16	9.25
Halfway Tree . . . . .	0.14	0.14	23	1	3.84	Hounslow . . . . .	3.74	0.82	26	6	
Clifton Pen . . . . .	0.85	0.44	23	2	3.91	Pedro Plains . . . . .	0.74	0.30	17	3	2.92
Seaward Pen . . . . .	1.42	0.96	17	2		Mountainside . . . . .	4.29	1.00	18	8	5.38
Red Hills . . . . .	3.94	1.72	17	9		Fort Charles . . . . .	1.68			4	
Quarantine Station . . . . .	0.10	0.07	24	2	2.56	Black River . . . . .	7.62	1.27	17	4	6.31
Hematine . . . . .	0.00			0	3.66	Mt. Charles . . . . .	7.43	1.40	13	17	
Spanish Town . . . . .	0.00			0	3.87	Font Hill . . . . .					6.27
Hog Hole, St. Cath. . . . .	0.05	0.05	17	1	4.25	Mount Edgecombe . . . . .	2.57	0.73	18	12	8.46
Old Harbour . . . . .	0.68	0.50	5	2	4.71	Sav.-la-Mar . . . . .	2.26	0.95	3	15	7.86
May Pen . . . . .	1.41	0.46	17	7	5.26	Little London . . . . .	8.93	2.09	12	17	6.66
Glen Muir . . . . .	1.50	0.70	31	3		Retreat . . . . .	8.12	1.36	26	14	8.42
Cottage . . . . .	0.04	0.04	7	1		Negril Point L.H. . . . .	3.64	0.98	4	16	6.50
Belle Plain . . . . .	1.64	0.72	27	3							
Milk River . . . . .	0.00			0	4.26						
Retrieve . . . . .	0.35	0.35	7	1	4.06						
Stone's Hope . . . . .	3.07	1.05	23	8	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.	
	1940.	Ave.	1940.	Ave.
North-eastern . . . . .	3.48	7.41	8	11
Northern . . . . .	4.02	4.89	9	9
West-central . . . . .	9.10	10.17	15	15
Southern . . . . .	2.49	5.27	7	10
The Island means . . . . .	4.77	6.93	10	11

SHOCKS OF EARTHQUAKE IN AUGUST, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
15th	6.30 p.m.	I	Boon Hall

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 average in all Divisions.

The greatest total fall for the month was 21.40 inches at Troy in the West Central Division, and the heaviest fall in 24 hours was 3.80 inches at the same station on the 14th.

No rain fell at Bull Bay, Hematine, Spanish Town and Milk River in the Southern Division.

The mean number of rain days was 10, the average for the month being 11, Darliston and Williamsfield, Westmoreland, with 28 each, had the greatest number.

The mean rainfall in each parish is given below. Compared with the 10-year average. Westmoreland, with 9.38 inches was highest; Hanover with 8.04 inches, second; and St. Elizabeth with 7.88 inches, was third; Kingston, with 0.63 inch, was lowest.

Parish.	1940.	10-year average.	Parish.	1940.	10 year average.
	Inches.	Inches.		Inches.	Inches.
Kingston	0.63	5.61	St. James	7.00	6.11
St. Andrew	3.35	7.25	Hanover	8.04	8.67
St. Thomas	3.35	8.24	Westmoreland	9.38	9.91
Portland	3.11	10.48	St. Elizabeth	7.88	7.00
St. Mary	2.03	6.38	Manchester	4.80	8.23
St. Ann	2.73	4.87	Clarendon	3.70	6.81
Trelawny	7.18	5.36	St. Catherine	4.37	7.46

## CITY OF KINGSTON.

The total rainfall for the month of August was 0.46 of an inch, the 60-year normal being 3.60 inches, or about one-eighth of this normal. There was no rain from the 1st to the 16th. Five days with appreciable rainfall as against the average of 8.8 days. This is the least August rainfall since the year 1896, when 0.40 of an inch fell. The upper boundary of Kingston gauged 0.89 of an inch with 6 rain days.

The several directions in which distant rain was observed are as follows:—To northward on nine, to north-eastward on five, to eastward four, to southeast and west one each and to northwest three.

Distant lightning was observed to north and eastward once each.

Distant thunderstorm to north on eight days, to northeast, east, south and west once each. Local thunderstorm on 31st, intense at 2.30 p.m.

The mean barometric pressure was 29.927 inches, the 33-year normal being 29.929, or 0.002 inch below normal. Highest reading 29.995 inches on the 3rd at 7 a.m. and the lowest was 29.852 inches on 28th at 3 p.m.—corrected for diurnal variation.

The mean temperature, based upon four observations per day, was 82.4°, the 33-year normal being 81.0°, or 1.4° above the normal. The highest maximum was 94.5° on the 6th and 30th, and the lowest minimum was 71.4° on the 22nd giving an extreme monthly range of 23.1°. On the other hand, the lowest maximum was 88.4° on the 27th and the highest minimum was 77.2° on the 26th. The greatest range was 19.7° on the 5th, and the least was 12.3° on the 12th. The maximum was 90° or above on 24 days, and the minimum above 70° throughout.

By studying the number of occasions on which the maximum temperature reached 90° and above during the three months of June, July and August (the warmest months) from the year 1935 to 1940, a period of six years, there is revealed a remarkable progressive increase as given below:—

Years.	No. of Days.
1935	10
1936	24
1937	30
1938	29
1939	31
1940	62

But the most significant feature in evidence is that in the present year for these 3 months, the number of cases attained was phenomenal, and give 62 days against the next highest of 31 in the previous year. The general mean temperature for these three months combined, gives about 1½ degrees above the normal.

The mean daily miles of wind registered was 200, the 25-year normal being 193, or about 4% above the normal. The greatest number of miles recorded in 24 hours was 341 on the 8th, and the least was 110 on the 23rd. The maximum velocity was 30 miles per hour on the 20th at about 9.25 a.m. South-easterly wind appeared before 7 a.m. on no occasions, but continued after 7 p.m. on 14 days, and throughout the night once.

Overcast conditions prevailed in the early forenoon on 12 occasions and in the afternoon on 14.

Total evaporation for the month of August 7.81 inches, the 10-year average being 7.56 inches.

Mean daily number of sunshine hours 8.8.

## WEATHER DISTURBANCE.

On the 5th August in the early forenoon, the United States Weather Bureau located a weather disturbance near to the Virgin Islands, and at 7 a.m. on the 6th it was estimated at about 100 miles southeast of Turks Island, attended by only fresh to moderately strong winds, moving about 7 to 10 miles per hour, with winds of 50 to 60 miles per hour, moving west-northwestward. It was located on the 10th to the eastward of Dayton Beach, Jacksonville. It had spread out and covered a large area off the South Atlantic and Florida coasts with squalls of gale force. It continued northward about 15 miles per hour with wind of moderate intensity.

J. F. BRENNAN,  
Government Meteorologist.

Kingston, Jamaica,  
September 20th, 1940.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
SEPTEMBER, 1940.

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 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	29.907	29.868	81.8	85.7	88.5	78.3	10.2	90.7	17	70.5	13	20.2
Kingston	24	29.873	29.836	76.0	85.8	89.2	74.4	14.8	91.8	23	72.1	27	19.7
Negril Point Light House	33	29.861	29.821	79.2	85.3	88.1	73.9	14.2	90.8	24	72.3	25	18.5
Montego Bay †	33	..	..	75.8	86.9	90.8	71.8	19.0	94.1	2	68.5	3	25.6
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens †	668	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mountains	4,900	..	..	..	..	..	..	..	..	..	..	..	..

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	76	82	77	75	5.79	229	E	9.0	SE	9.0	3.2	2.0	2.3	3.1	2.7	2.0	
Kingston	24	70	83	74	69	2.16	170	NNE	4.2	SE	12.4	1.8	0.9	2.5	3.3	1.0	3.4	
Negril Point Light House	33	72	80	74	71	4.44	148	E	4.0	SE	9.0	0.5	1.0	4.5	2.8	2.4	1.8	
Montego Bay	33	72	87	78	76	13.34	..	SE	3.0	NE	7.0	..	..	..	..	..	..	
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Hope Gardens	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Hill Gardens, Blue Mtns.	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

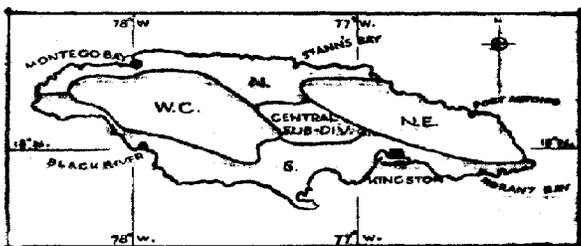
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡ Montego Bay—observations made at 8 a.m. and 3 p.m.

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 23 of 1944 Edition, an outline of which is given below.



September, 1940.

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, contd.</b>						
Rose Hill	5.99	1.55	18	16	13.48	
Mount Cressy	17.08	3.00	19	17	...	
Hermitage	8.61	3.80	18	17	...	
Mount Airy	16.25	3.30	19	17	...	
Stony Hill Ind. Sch.	19.64	4.17	18	16	10.05	
Boon Hall	9.98	4.33	18	16	...	
Brandon Hill	11.48	1.93	18	18	...	
Enfield	4.63	1.08	27	9	...	
Agualta Vale	5.25	2.42	27	11	4.94	
Castleton Gardens	17.88	3.90	19	17	11.76	
Water Valley	2.29	1.30	27	6	4.82	
Albany	...	...	...	...	4.18	
Lawrence Tavern	7.20	1.80	18	12	9.87	
Wey Hill	4.56	0.78	19	12	...	
Richmond, St. Mary	2.45	0.45	27	11	6.11	
Quebec, St. Mary	4.93	1.25	20	10	4.45	
Above Rocks	6.51	1.80	17	13	...	
Glengoffe	5.35	1.87	24	11	...	
Carew Castle	5.72	1.41	17	12	11.19	
Hampstead, St. Mary	4.34	1.25	7	10	6.24	
Windsor Castle do.	8.26	2.05	30	12	...	
Troja	2.50	0.45	19	8	...	
Pear Tree Grove	4.70	1.40	4	9	...	
Guy's Hill	6.48	2.00	4	12	7.37	
Lucky Hill	4.66	1.07	7	11	6.14	
Rio Hoe	4.68	1.66	4	10	6.36	
Unity Valley	4.96	1.49	13	16	8.17	
Moneague	2.34	1.10	4	14	7.55	
Claremont	2.29	0.30	4	12	6.38	
Averham Park	2.99	1.10	22	7	5.60	
Albion	3.71	1.17	24	8	7.48	
<b>NORTHERN DIVISION (N.).</b>						
Port Maria	3.13	0.75	20	11	4.13	
Wentworth	4.28	1.05	29	12	...	
Jacks River	7.22	3.12	29	12	...	
Oracabessa	9.21	4.21	29	10	...	
Huddersfield	3.10	0.66	8	10	...	
Ocho Rios	2.38	0.51	3	13	3.64	
Rockfield	2.65	0.57	1	10	5.21	
Liberty Hill	0.59	0.22	4	5	3.90	
St. Ann's Bay	2.45	0.51	4	10	3.51	
Richmond Estate	3.61	1.25	7	9	3.74	
Runaway Bay	2.24	0.52	24	6	2.61	
Knapdale	4.55	1.66	24	9	...	
Alexandria	2.04	0.71	18	10	7.12	
Bel-Air	4.25	0.95	22	9	...	
Brown's Town	3.68	1.73	24	12	5.71	
Wilton	6.06	1.90	13	10	...	
Watt Town, St. Ann	2.70	1.12	3	7	6.89	
Home Castle	...	...	...	...	5.18	
Areadia	3.77	1.33	24	12	4.71	
Vale Royal	4.40	2.28	24	12	4.72	
Harmony Hall	5.05	1.80	24	8	3.63	
Duncans	3.76	1.62	24	7	...	
Clark's Town	4.32	2.30	24	5	...	
Falmouth	5.10	1.06	6	13	3.41	

September, 1940.

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	10.94	4.00	5	7	9.68	
Priestman's River	12.70	4.80	5	8	10.33	
Bath	13.61	2.86	3	19	12.17	
Barrett's Gap	10.76	3.30	5	13	...	
Millbank	11.50	4.32	5	11	...	
Comfort Castle	13.97	4.00	5	7	...	
Moore Town	15.28	3.00	6	17	14.81	
Port Antonio	8.40	1.80	8	8	10.38	
Passley Garden	7.35	1.83	2	11	...	
Fellowship	8.65	1.95	5	14	12.57	
Johnson River Br.	11.75	2.68	5	16	10.94	
Trinity Ville	12.73	2.50	5	17	...	
Fruitful Vale	5.46	2.60	25	7	...	
Hope Bay	1.24	0.40	5	6	...	
Cedar Valley	7.94	1.25	7	14	12.17	
Paradise	1.92	0.70	6	6	...	
Lennox	2.40	1.20	6	5	...	
Greenvale	10.35	4.00	24	11	8.51	
Darley	6.40	3.53	3	5	...	
Spring Garden	1.87	0.88	3	6	8.57	
Hill Gardens	3.98	0.82	28	15	9.42	
Buff Bay	2.93	0.88	3	6	5.07	
Buff Bay R. Est.	2.20	0.63	4	8	...	
Belvedere, Portland	4.07	0.72	24	10	1.19	
Windsor Castle, do.	1.91	0.48	5	6	5.48	
Balcarres	11.43	2.60	24	13	...	
Mt. Holstein	8.38	2.77	17	10	10.13	
Cedar Hurst	6.47	2.03	4	14	...	
Hardware Gap	3.60	1.12	23	15	10.70	

STATIONS.	September, 1940.					STATIONS.	September, 1940.				
	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>Ins.</b>	<b>Ins.</b>			<b>Ins.</b>	<b>WEST-CENTRAL DIVISION, contd.</b>	<b>Ins.</b>	<b>Ins.</b>			<b>Ins.</b>
Adelphi	8.39	1.54	6	14		Mereworth	4.29	1.16	12	15	
Barrett Hall						Mandeville	4.67	1.36	12	13	10.05
Success					3.65	Ulster Spring	4.88	1.40	13	9	10.17
Rose Hall					3.46	Greenvale	2.70	1.30	3	4	
Cinnamon Hill					3.89	Albert Town	4.21	1.20	22	6	10.87
Tryall					5.12	Craig Head	4.42	1.54	17	4	
Running Gut					3.68	Warsop	4.72	2.55	17	6	
Spring Estate					3.58	Troy	8.45	2.50	17	6	13.70
Friendship	10.02	1.60	6	20	8.34	Wallingford	1.80	0.44	18	10	12.37
Retirement	11.93	2.26	4	13	9.37	Balaclava	1.86	0.50	1	9	11.00
Rose Mount	10.19	1.48	15	21		Braes River	4.81	1.40	3	9	
Montego Bay	13.34	3.85	14	20	6.58	Wakefield	9.23	2.75	6	15	
Anchovy	12.57	1.69	3	22	6.98	Aberdeen	5.16	1.10	24	17	
Hopewell	6.84	1.20	18	18		Accompong					
Blue Hole	8.24	1.39	4	16	10.09	Maggotty	4.97	1.34	17	9	11.82
Cascade	33.87	4.27	16	23		Lacovia	3.44	0.65	18	9	
Luca	7.64	1.65	29	19	8.16	Mulgrave	12.25	2.40	16	22	
Haughton Court	12.24	2.50	8	16	7.16	Holland					
Kendal—Hanover	12.89	2.77	26	17		Ipwich	7.45	1.78	10	15	
Cousins Cove	12.56	2.40	26	20		Ginger Hill	9.77	1.95	17	12	
Green River	9.67	2.89	26	15		Kempshot	9.77	2.27	4	17	9.10
Green Island	13.86	4.88	26	17	10.37	Mocho, St. James	12.05	1.95	4	13	
Haughton Hall	8.55	2.42	26	17		Catadupa	9.74	1.12	19	20	14.69
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	11.52	2.80	3	18	12.29
Knollis	4.40	1.50	17	9		New Market	5.64	1.12	3	15	11.81
Highgate (St. Cath.)	3.85	2.31	26	16		Springfield					
Rio Magno	3.82	1.57	13	12		Kew Park	8.78	2.12	19	15	12.38
Riversdale	2.94	0.70	24	7		The Bog	7.52	1.35	16	17	12.72
Headworks, R. C.C.	1.46	0.93	2	3	6.24	Bethel Town Dist.	10.92	2.55	19	20	15.76
Bog Walk	5.80	1.84	25	8		Burnt Ground	13.13	1.70	27	20	13.30
Linstead	6.23	1.55	18	11	7.48	Darliston	12.52	3.85	4	19	14.56
Ewarton	1.02	0.50	24	5		Bluefields	8.20	1.63	18	15	10.83
Cave Valley	5.58	1.69	16	9	7.87	Whithorn	8.57	1.33	4	11	11.20
Guanaboa Vale	1.13	0.75	6	3		Water Works Pen.	10.28	2.50	26	4	11.01
Point Hill	6.38	3.84	26	12	10.80	Williamsfield, Wld.	16.83	1.40	5	22	
Brown's Hall					9.81	Bauk	10.81	1.56	5	16	
Bellas Gate	8.67	1.90	6	13	5.71	Askenish	21.18	2.44	26	14	12.07
Rock River	5.15	1.40	1	11		Grange Hill	7.13	1.53	26	15	11.75
Crofts Hill	6.55	1.80	2	10	7.67	Mount Eagle	6.56	1.31	26	14	
Kell's	7.37	1.57	22	13		King's Vale	7.04	1.30	26	18	10.85
Suttons											
Colonel's Ridge	6.74	1.71	17	17							
Chapelton	6.98	1.50	12	17	7.86						
Crooked River	8.16	2.30	16	19							
James Hill	5.85	1.60	16	11							
Frankfield	7.53	1.08	16	13	7.17						
<b>WEST-CENTRAL DIVISION (W.C.)</b>						<b>SOUTHERN DIVISION (S.)</b>					
Mocho, Clarendon	3.19	0.92	1	8	9.10	Morant Point L.H.	5.79	1.88	3	11	6.94
Thompson Town	8.59	1.70	17	13		Golden Grove	9.37	3.00	3	14	
Porus	3.82	0.60	5	11		Pleasant Hill	10.24	3.23	3	15	8.44
Borobridge	5.25	1.10	13	8		East Prospect	8.21	1.73	28	17	8.37
Spaldings	7.32	1.55	13	14	7.97	Morant Bay	8.84	2.40	4	15	8.00
Williamsfield	5.07	1.37	28	15		Lloyds	7.73	1.50	28	16	
Brokenhurst	7.74	1.78	12	15	9.91	Yallahs	6.80	3.50	28	6	
Shooter's Hill	5.65	1.28	12	12	9.14	Easington	7.06	2.25	28	10	8.18
Wait-a-bit	7.30	2.50	17	6		Mavis Bank	3.21	1.00	6	11	
Christiana	7.89	2.72	2	13	9.17	Bull Bay	1.54	1.29	29	2	4.10
Holmwood	6.25	1.61	14	11		Dallas Castle	2.65	0.65	1	12	
Clifton Hill	5.35	1.94	10	5	11.43	Gordon Town	3.94	1.10	18	9	7.84
Kendal, Manchester	6.67	3.56	12	11	9.60	Irish Town	4.22	0.90	1	9	8.35
						Hope Gardens					6.94
						Plumb Point L.H.	1.50	0.77	5	6	4.30

STATIONS.	September, 1940.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
King's House Gar. . . . .	..	..	..	..	5 32
Up-Park Camp . . . . .	3.74	1.10	5	10	..
Cavaliers . . . . .	3.34	1.11	3	10	..
St. George's College . . . . .	3.02	1.37	28	8	..
Upper Kingston . . . . .	2.96	1.28	28	11	4.33
Parade Garden . . . . .	..	..	..	..	..
Kingston P.W.O. . . . .	2.16	1.14	28	9	3.87
Constant Spring . . . . .	7.58	2.04	18	16	..
Halfway Tree . . . . .	1.95	0.56	28	7	4.72
Clifton Pen . . . . .	3.49	1.46	28	8	4.24
Seaward Pen . . . . .	2.78	1.11	6	4	..
Red Hills . . . . .	4.24	1.25	17	10	..
Quarantine Station . . . . .	1.97	0.95	29	9	2.98
Hematine . . . . .	2.57	0.90	1	7	4.89
Spanish Town . . . . .	2.78	0.90	1	7	4.94
Hog Hole, St. Cath. . . . .	3.41	2.06	2	8	5.69
Old Harbour . . . . .	1.98	0.75	5	6	6.01
May Pen . . . . .	2.24	1.24	1	8	7.04
Glen Muir . . . . .	2.10	0.80	5	4	..
Cottage . . . . .	8.47	1.80	28	11	..
Belle Plain . . . . .	4.58	1.68	1	10	..
Milk River . . . . .	5.40	2.21	28	8	7.27
Retrieve . . . . .	6.21	1.27	28	9	7.42
Stone's Hope . . . . .	9.27	2.26	28	14	8.67

STATIONS.	September, 1940.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
<b>SOUTHERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Newport, Man. . . . .	6.49	1.22	5	11	8.20
Alligator Pond . . . . .	2.49	1.15	12	6	5.48
Myersville . . . . .	6.37	1.67	3	7	..
Goshen . . . . .	1.43	0.38	6	6	..
Munro . . . . .	2.85	0.87	17	12	..
Windsor, St. Eliz. . . . .	3.78	1.23	3	12	..
Torrington . . . . .	1.90	0.58	3	5	6.49
Santa Cruz . . . . .	7.94	1.97	1	12	9.66
Hounslow . . . . .	2.32	0.74	1	5	..
Pedro Plains . . . . .	1.13	0.72	1	2	4.07
Mountainside . . . . .	3.12	1.12	1	5	4.66
Fort Charles . . . . .	0.58	0.40	25	2	..
Black River . . . . .	1.35	0.66	22	8	5.43
Mt. Charles . . . . .	4.88	1.58	17	13	..
Font Hill . . . . .	..	..	..	..	6.66
Mount Edgecombe . . . . .	4.70	1.04	3	13	8.25
Sav.-la-Mar . . . . .	4.39	1.61	26	12	7.08
Little London . . . . .	6.05	1.29	1	13	9.25
Retreat . . . . .	4.24	1.26	16	10	7.72
Negril Point L.H. . . . .	4.44	1.35	1	11	6.71

NOTES.

COMPARATIVE TABLE OF RAINFALL AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	September.			
	Rainfall, inches.		Days on which Rain fell.	
	1940.	Ave.	1940.	Ave.
North-eastern . . . . .	6.75	8.48	11	13
Northern . . . . .	6.10	5.89	13	10
West-central . . . . .	7.81	10.99	13	16
Southern . . . . .	4.42	6.42	9	11
The Island means . . . . .	6.27	7.94	12	13

SHOCKS OF EARTHQUAKE IN SEPTEMBER, 1940.

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 deficient in all Divisions, except the Northern, which was slightly above the average.

The greatest total fall for the month was 33.87 inches at Cascade in the Northern Division, and the heaviest fall in 24 hours was 4.88 inches at Green Island, in the same division on the 26th.

The mean number of rain days was 12, the average for the month being 13. Cascade in the Northern Division had the greatest number—23.

There was a hail storm at Linstead on the 24th.

The mean rainfall in each parish is given below, compared with the 10-year average. Hanover, with 12.90 inches was highest; St. James with 10.95 inches, next; and St. Thomas, with 9.30 inches, was third. Kingston with 2.41 inches, was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	2.41	3.88	St. James	10.95	6.31
St. Andrew	6.26	8.42	Hanover	12.90	8.84
St. Thomas	9.30	9.59	Westmoreland	8.25	9.62
Portland	7.08	18.90	St. Elizabeth	4.29	7.84
St. Mary	5.75	6.40	Manchester	5.56	9.28
St. Ann	3.36	5.59	Clarendon	6.00	7.38
Trelawny	5.43	6.26	St. Catherine	3.96	6.70

The total rainfall for the nine months is given below, compared with the 60-year average, and shows a deficiency of 4.22 inches.

	1940.	60-year Average.
	Inches.	Inches.
January	5.09	4.00
February	3.99	3.13
March	1.61	3.35
April	3.51	4.77
May	11.94	8.77
June	4.67	6.53
July	4.10	4.75
August	4.77	6.93
September	6.27	7.94
Total	45.95	50.17

## CITY OF KINGSTON.

The total rainfall for the month of September, 1940, amounted to only 2.16 inches as compared to the 60-year normal of 3.87 inches, showing a little above one-half of the normal. There were, however, 9 days with appreciable rainfall. The upper boundary of Kingston gauged 2.96 inches with 11 rain days.

The several directions in which distant rain was observed are as follows:—to northward on 10 occasions, to north-eastward on 3, to east, southeast, south, southwest and west on one each, and to northwest on 5.

Distant lightning was seen to northward on 2 occasions, to east, south, southwest and northwest on one each. Distant thunderstorm to north 7 times, to west once and northwest twice.

Local thunderstorm on the 1st.

Southeast rainsquall on the 28th at 10 a.m.

The mean barometric pressure was 29.866 inches, the 33-year normal being 29.889 or 0.023 inch, below the normal. Highest reading 29.927 inches on 24th at 3 p.m. and the lowest 29.806 on 27th at 3 p.m., corrected for diurnal variation.

Mean temperature for the month 80.8°, the 33-year normal being 80.6° or 0.2° above the normal. The extreme maximum was 91.8° on the 23rd and the extreme minimum was 72.1° on the 27th, giving an extreme monthly range of 19.7°. On the other hand the lowest maximum was 82.0° on the 6th and the highest minimum 77.6° on the 15th. The greatest daily range was 17.9° on the 27th and the least was 7.4° on the 6th. The maximum was 90° or above on 14 occasions and the minimum was above 70° throughout.

The mean daily miles of wind registered was 170, the 25-year normal being 169. The greatest number of miles of wind recorded in 24 hours was 269 on the 8th and the least was 98 on the 1st. Southeasterly wind appeared before 7 a.m. twice and continued after 7 p.m. 14 times. The greatest hourly velocity was 33 miles per hour on the 25th at about 11.45 a.m.

The mean relative humidity was 80%, the 33-year normal being 82%. Mean 7 a.m. 83% and mean 3 p.m. 69%. Lowest 7 a.m. 75% on the 24th and lowest 3 p.m. 58% on the 14th.

Overcast conditions prevailed in the early forenoon on 14 occasions and in the afternoon on 23 occasions.

Total evaporation for the month of September, 5.43 inches, the 10-year normal being 5.12 inches.

Mean daily number of sunshine hours, 7.6.

**WEATHER DISTURBANCE.**

On the 12th September the U.S. Weather Bureau issued a notice stating that there was a tropical disturbance central at 1 a.m. about 200 miles N.N.E. of Puerto Rico, apparently of moderate intensity, and moving slowly W.N.W. or north-westward. On the 13th September at 1 p.m. it was reported about 260 miles north of San Juan, Porto Rico, of hurricane force moving W.N.W. at about 12 to 14 miles per hour. On the 14th September it was located about 400 miles E.N.E. of Nassau moving rather slowly northward attended by gales over a wide area, and winds of hurricane force near centre. It later on changed its course to north-eastward moving from 12 to 14 miles per hour and probably passed near Bermuda on Sunday 15th. It continued northward. Notices were issued from Jamaica to shipping.

Otherwise, the Caribbean region was free of any disturbance.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
19th October, 1940.

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JAMAICA

# WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1940.



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 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	29.907	29.857	80.3	82.2	85.1	74.4	10.7	90.7	1	70.2	16	20.5
Kingston	24	29.873	29.828	75.1	84.9	87.4	73.8	13.6	91.2	22	71.6	12	19.6
Negril Point Light House	33	29.868	29.820	77.3	83.8	86.8	73.3	13.5	89.5	4*	68.3	16	21.2
Montego Bay †	33	..	..	75.1	84.4	88.5	71.6	16.9	91.9	2	68.0	16*	23.9
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens †	668	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mountains	4,900	..	..	..	..	..	..	..	..	..	..	..	..

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.		L.	M.	U.	L.
	ft.	°	%	°	%	ins.	Mls.	Dir.	m.p.h.	Dir.	m.p.h.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	75	84	76	82	19.52	230	ENE	10.0	NE	9.0	4.8	2.3	0.9	4.4	2.8	0.7
Kingston	24	71	87	76	72	2.91	129	N	4.6	SE	8.5	4.0	0.0	1.6	5.0	1.5	1.6
Negril Point Light House	33	72	84	75	73	4.06	120	NE	5.1	N	7.6	0.5	1.9	4.0	3.5	1.7	2.2
Montego Bay	33	72	91	75	77	6.17	..	E	3.0	ENE	7.0	..	..	..	..	..	..
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

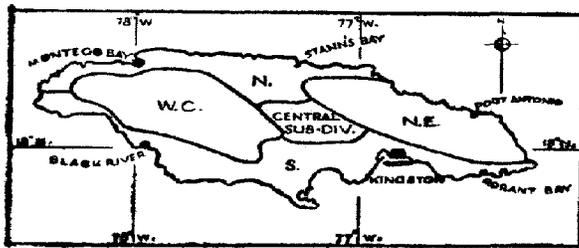
\* And on other days. † Hope Gardens—observations made at 9 a.m. and 3 p.m.  
 † Montego Bay—observations made at 8 a.m. and 3 p.m.

THE RAINFALL.

The first four columns contain all the information relating to the Rainfall for the month received for the 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:	October, 1940.				
	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	16.65	3.55	10	13	16.40
Eccles down	23.66	3.35	3	26	
Priestman's River	17.60	3.00	23	13	13.31
Bath	28.72	7.18	10	19	16.43
Barrett's Gap	30.23	5.58	10	18	
Millbank	45.14	15.15	18	18	
Comfort Castle	45.03	15.15	18	19	
Moore Town	30.97	7.50	18	21	18.74
Port Antonio	17.81	5.21	18	17	14.24
Passley Garden	19.10	7.02	18	20	
Fellowship	25.65	12.30	18	20	15.96
Johnson River Br.	18.86	5.30	10	16	13.50
Trinity Vill	16.14	4.78	10	18	
Fruitful Vale	28.88	6.23	18	28	
Hope Bay	19.54	8.35	18	14	
Cedar Valley	17.67	4.25	10	19	13.94
Paradise	7.30	1.80	19	11	
Lennox					
Greenvale	17.12	5.54	24	17	10.97
Darley	19.14	8.39	18	14	
Spring Garden					6.13
Hill Gardens	5.58	3.20	22	18	16.21
Buff Bay	10.80	4.10	18	9	9.27
Buff Bay R. Est.	10.90	2.89	18	14	
Belvedere, Portland	9.29	2.63	18	13	6.55
Windsor Castle, do.	9.77	4.10	19	15	7.38
Balcarres	26.28	7.98	22	15	
Mt. Holstein	13.10	5.86	24	12	
Cedar Hurst	13.82	5.50	23	18	

STATIONS.	October, 1940.				
	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.
Hardware Gap	14.56	4.30	22	14	14.72
Rose Hill	13.57	3.00	23	16	15.84
Mount Cressy	20.54	5.20	23		
Hermitage	9.23	2.26	23	19	
Mount Airy	16.86	3.35	23	13	
Stony Hill Ind. Sch.	11.46	3.72	13	19	14.06
Boon Hall	10.35	2.37	23	18	
Brandon Hill	8.84	2.05	21	16	
Enfield	9.38	2.50	23	14	
Agualta Vale	6.22	1.66	6	12	6.26
Castleton Gardens	19.24	3.75	22	14	14.36
Water Valley	4.24	1.30	23	6	7.27
Albany	5.17	1.62	22	12	7.44
Lawrence Tavern	6.35	1.60	19	9	11.90
Wey Hill	5.81	1.45	23	16	
Richmond, St. Mary	8.94	2.20	23	11	8.14
Quebec, St. Mary	9.98	2.80	12	13	9.33
Above Rocks	7.60	1.43	4	15	
Glengoffe	4.00	1.50	23	5	
Carew Castle	6.72	1.75	27	13	12.61
Hampstead, St. Mary	11.34	4.40	6	10	7.88
Windsor Castle do.	9.34	2.30	23	11	
Troja	6.92	1.75	6	8	
Pear Tree Grove	12.16	2.46	3	12	
Guy's Hill	8.02	2.00	23	10	7.27
Lucky Hill	9.26	2.64	23	15	8.26
Rio Hoe	8.56	2.82	23	12	8.68
Unity Valley	6.50	1.68	23	14	8.94
Moneague	7.94	2.30	23	14	8.97
Claremont	10.75	3.50	23	13	8.18
Averham Park	10.27	2.68	24	15	10.52
Albion	11.50	2.83	23	14	8.89
<b>NORTHERN DIVISION (N).</b>					
Port Maria	7.19	1.51	22	16	8.26
Wentworth	7.21	1.60	22	14	
Jacks River	6.68	1.58	23	16	
Oracabessa	10.45	1.74	22	14	
Huddersfield	10.96	2.20	28	11	
Ocho Rios	11.44	2.30	5	20	5.56
Rockfield	11.75	4.18	23	15	6.40
Liberty Hill	3.19	1.14	23	10	5.93
St. Ann's Bay	9.32	3.56	4	16	6.62
Richmond Estate					6.94
Runaway Bay	6.39	1.35	11	9	3.07
Knapdale	5.64	1.10	23	13	
Alexandria	6.06	1.72	13	12	7.96
Bel-Air	6.90	1.40	19	13	
Brown's Town	9.29	1.52	23	19	8.32
Wilton	9.49	2.30	6	17	
Watt Town, St. Ann	7.85	2.24	11	11	8.33
Home Castle	11.30	2.80	6	11	6.51
Arcadia	8.41	1.85	10	19	6.15
Vale Royal	9.29	1.90	4	20	6.50
Harmony Hall	6.20	1.60	10	14	5.18
Duncans	7.26	1.48	5	12	
Clark's Town	7.54	1.64	6	14	
Falmouth	5.61	1.48	8	17	5.34

STATIONS.	October, 1940.					STATIONS.	October, 1940.				
	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	7.88	2.52	8	16	..	Mereworth	9.77	1.50	13	19	..
Barrett Hall	..	..	..	..	..	Mandeville	8.07	1.34	13	14	14.86
Success	..	..	..	..	5.98	Ulster Spring	12.65	1.70	27	19	11.90
Rose Hall	..	..	..	..	6.24	Greenvale	13.62	2.90	20	20	..
Cinnamon Hill	..	..	..	..	6.66	Albert Town	13.53	2.25	27	16	11.79
Tryall	..	..	..	..	6.01	Craig Head	6.22	1.20	4	11	..
Running Gut	..	..	..	..	5.52	Warsop	12.80	2.10	11	18	..
Spring Estate	..	..	..	..	6.33	Troy	10.62	2.00	12	13	15.46
Friendship	5.23	2.04	8	17	10.16	Wallingford	6.82	2.43	5	17	13.54
Retirement	4.96	2.23	8	11	9.63	Balaclava	7.04	1.95	5	12	12.22
Rose Mount	8.41	1.62	1	14	..	Braes River	5.21	1.83	13	10	..
Montego Bay	6.17	1.51	1	13	7.53	Wakefield	9.08	2.28	27	16	..
Anchovy	6.06	2.01	1	12	6.96	Aberdeen	7.74	1.25	5	15	..
Hopewell	5.88	1.55	19	14	..	Accompong	..	..	..	..	..
Blue Hole	8.54	2.33	8	10	10.44	Maggotty	7.03	1.77	13	15	13.85
Cascade	10.27	2.85	8	11	..	Lacovia	4.67	1.52	13	7	..
Lucea	4.74	1.61	12	12	8.12	Mulgrave	11.69	1.35	2	25	..
Houghton Court	6.57	1.60	12	12	7.18	Holland	..	..	..	..	..
Kendal—Hanover	8.17	2.01	8	18	..	Ipswich	11.72	1.80	13	23	..
Cousins Cove	3.48	1.64	8	14	..	Ginger Hill	10.58	2.02	13	16	..
Green River	8.86	2.03	8	13	..	Kempshot	6.47	1.30	28	15	9.67
Green Island	4.24	1.80	8	12	8.61	Mocho, St. James	10.04	2.65	20	12	..
Houghton Hall	5.07	1.70	8	14	..	Catadupa	16.69	3.50	19	19	14.00
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	8.10	2.18	13	18	12.42
Knollis	3.53	0.96	7	15	..	New Market	11.49	2.90	12	19	13.14
Highgate (St. Cath.)	4.49	0.63	31	22	..	Springfield	..	..	..	..	..
Rio Magno	6.00	2.25	23	9	..	Kew Park	10.02	2.24	13	17	12.03
Riversdale	3.86	1.00	23	12	..	The Bog	11.73	2.04	12	15	13.75
Headworks, R. C.C.	6.22	1.60	14	12	9.03	Bethel Town Dist.	13.08	2.42	26	17	16.37
Bog Walk	3.45	1.10	7	6	..	Burnt Ground	7.71	2.00	8	11	12.28
Linstead	2.83	0.62	7	11	9.46	Darliston	18.81	4.03	11	20	14.89
Ewarton	5.72	1.43	8	5	..	Bluefields	8.23	1.82	3	11	10.89
Cave Valley	9.78	1.73	5	15	9.81	Whithorn	8.08	1.25	1	9	12.70
Guanaboa Vale	7.72	1.80	13	8	..	Water Works Pen	8.12	1.30	1	19	11.31
Point Hill	8.14	1.89	13	16	14.43	Williamsfield, Wld.	8.94	2.30	5	22	..
Brown's Hall	7.76	2.20	15	22	12.12	Baulk	10.86	2.00	5	14	..
Bellas Gate	5.06	1.04	13	14	11.55	Askenish	8.46	2.15	8	14	14.36
Rock River	3.35	1.20	8	7	..	Grange Hill	8.91	2.15	5	16	12.85
Crofts Hill	4.32	1.11	13	4	10.10	Mount Eagle	11.19	2.87	5	15	..
Kellit's	11.62	2.28	14	17	..	King's Vale	6.08	1.90	13	11	9.27
Suttons	..	..	..	..	..						
Colonel's Ridge	7.09	1.78	15	18	..	<b>SOUTHERN DIVISION (S.)</b>					
Chapelton	6.27	1.62	30	17	12.13	Morant Point L.H.	19.52	2.90	6	20	11.35
Crooked River	6.68	1.58	15	19	..	Golden Grove	23.76	5.50	5	19	..
James Hill	6.35	1.14	14	17	..	Pleasant Hill	22.97	5.00	5	19	11.37
Frankfield	8.90	1.45	8	30	11.27	East Prospect	25.72	6.05	10	16	11.83
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay	14.78	5.05	10	15	12.12
Mocho, Clarendon	14.82	3.41	27	13	13.81	Lloyds	10.34	3.06	10	17	..
Thompson Town	10.21	2.92	8	15	..	Yallahs	9.13	3.68	10	10	..
Porus	7.46	3.10	8	11	..	Easington	11.39	5.78	10	15	11.41
Borobridge	7.05	1.85	4	14	..	Mavis Bank	12.40	2.38	22	17	..
Spaldings	15.59	2.47	8	19	13.05	Bull Bay	4.31	1.91	10	6	7.33
Williamsfield	..	..	..	..	..	Dallas Castle	7.49	1.35	22	21	..
Brokenhurst	12.35	2.58	8	18	13.95	Gordon Town	11.52	1.92	23	12	12.24
Shooter's Hill	10.83	3.02	8	15	12.08	Irish Town	13.18	3.50	23	13	10.54
Wait-a-bit	11.82	2.30	9	15	..	Hope Gardens	..	..	..	..	9.68
Christiana	12.33	3.50	11	18	10.97	Plumb Point L.H.	4.28	1.05	10	9	7.15
Holmwood	11.69	3.57	26	18	..						
Clifton Hill	15.37	4.30	15	10	15.41						
Kendal, Manchester	9.31	2.05	8	14	13.65						

STATIONS.	October, 1940.					STATIONS.	October, 1940.				
	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.	3.20	0.68	10	12	8.55	Newport, Man.	7.82	1.94	8	14	11.79
Up-Park Camp	3.88	1.35	8	9		Alligator Pond	7.58	2.00	11	8	7.49
Cavaliers	3.52	1.15	8	8		Myersville	5.48	1.15	12	9	
St. George's College	2.86	0.81	8	9	6.22	Goshen	8.08	1.53	13	12	
Upper Kingston	2.91	0.96	8	10	7.10	Munro	6.56	1.44	9	21	
Parade Garden	8.11	2.22	13	15		Windsor, St. Eliz.	5.02	1.07	23	18	
Kingston P.W.O.	2.56	0.85	8	7	8.05	Torrington	7.01	1.64	23	10	10.09
Constant Spring	2.73	1.62	8	8	6.56	Santa Cruz	7.19	3.30	13	11	11.93
Halfway Tree	3.14	1.05	9	5		Hounslow	6.94	1.49	9	10	
Clifton Pen	8.96	2.18	13	15		Pedro Plains	4.23	0.93	8	11	5.44
Seaward Pen	4.50	1.09	9	12	5.34	Mountainside	3.74	1.00	28	6	7.87
Red Hills	4.22	1.50	8	10	6.86	Fort Charles	3.12	1.00	8	5	
Quarantine Station	4.20	1.31	25	11	8.34	Black River	1.60	0.29	9	9	8.06
Hematine	4.85	1.30	25	15	8.94	Mt. Charles	6.03	1.40	12	14	
Spanish Town	5.33	1.70	25	9	9.50	Font Hill					8.81
Hog Hole, St. Cath.	9.34	3.22	25	17	9.90	Mount Edgecombe	9.42	4.78	19	17	9.80
Old Harbour	9.70	5.00	25	8		Sav-la-Mar	4.25	0.97	6	9	8.87
May Pen	10.36	1.85	15	14		Little London	7.69	3.08	5	12	10.50
Glen Muir	9.69	2.23	8	14		Retreat	3.43	1.20	8	10	10.10
Cottage	3.12	0.64	8	11	8.20	Negril Point L.H.	4.06	1.30	8	12	8.21
Belle Plain	8.87	2.10	13	13	9.44						
Milk River	7.05	1.47	8	18	12.14						
Retrieve											
Stone's Hope											

## NOTES.

COMPARATIVE TABLE OF RAINFALL  
AND DAYS ON WHICH RAIN FELL.

DIVISIONAL AND ISLAND RAINFALL.	October.			
	Rainfall, inches.		Days on which Rain fell.	
	1940.	Ave.	1940.	Ave.
North-eastern	12.84	11.72	15	15
Northern	7.07	7.57	14	12
West-central	10.34	12.31	15	17
Southern	7.60	9.24	12	13
The Island means	9.46	10.21	14	14

## SHOCKS OF EARTHQUAKE IN OCTOBER, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
2	7.50 p.m.	I	Lloyds.

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 below the average in all Divisions except the North-Eastern.

The greatest total fall for the month was 45.14 inches at Millbank in the North-Eastern Division, and the heaviest fall in 24 hours was 15.15 inches at the same station and at Comfort Castle in the same Division, both on the 18th.

The mean number of rain days was 14 which is the average for the month. Fruitful Vale, in the North-Eastern Division, had the greatest number—28.

The mean rainfall in each parish is given below compared with the 10-year average. Portland with 20.36 inches was highest; St. Thomas with 19.17 inches, second; and Manchester with 9.62 inches, was third. Kingston, with 3.39 inches was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	3.39	3.10	St. James	8.08	7.31
St. Andrew	8.97	11.56	Hanover	6.77	6.60
St. Thomas	19.17	9.68	Westmoreland	9.18	5.32
Portland	20.36	26.04	St. Elizabeth	6.85	5.68
St. Mary	8.84	14.21	Manchester	9.62	6.11
St. Ann	8.63	10.07	Clarendon	8.50	5.26
Trelawny	9.57	7.73	St. Catherine	5.67	7.58

### CITY OF KINGSTON.

The total rainfall for the month of October was 2.91 inches. The 60-year normal is 7.11 inches, representing about 40% of the normal. There were ten days with appreciable rainfall. The greatest fall in 24 hours was 0.96 of an inch on the 8th. The upper boundary of Kingston gauged 2.86 inches with nine rain days.

The several directions in which distant rain was observed, are to northward 5, to northeast 7, to east 1, to south and west 2 each and northwest 3.

Distant lightning to northeast three times, to east once and to south twice. Distant thunderstorm to north three days, to northeast once, to south twice and southwest once. Local thunderstorm on 13th at 1 p.m.

A fresh "norther" of short duration (10 miles per hour) on the 19th.

The mean barometric pressure was 29.863 inches, the 33-year normal being 29.866 inches, or 0.003 of an inch below the normal. Highest reading 29.928 inches on the 29th at 3 p.m., and the lowest 29.781 inches on the 9th at 7 a.m., corrected for diurnal variation. The low barometer of the 9th was due to small depression northeast of Jamaica.

The mean temperature, based upon four observations daily, was 79.8°, or 0.4° above the 33-year normal of 79.4°. The extreme maximum was 91.2° on the 22nd, and the extreme minimum was 71.6° on the 12th, shewing an extreme monthly range of 19.6°. On the other hand, the lowest maximum was 77.3° on the 9th (a rain day) and the highest minimum was 75.9° on the 19th. The greatest range of temperature 18.6° on the 17th and the least range was 2.2° on the 9th. The maximum was 90° and above on eleven days, and the minimum above 70° throughout.

The mean daily miles of wind registered was 129 as against the 25-year average of 155, or about 83% of the average. The greatest number of miles of wind recorded was 184 on the 1st and the least was 76 on the 23rd. The greatest hourly velocity was 24 miles per hour on the 1st at 1.45 p.m.

Mean relative humidity 83%, the 33-year normal being 84%. Mean 7 a.m. 87%, and mean 3 p.m. 72%. Lowest 7 a.m. 76% on the 17th, and lowest 3 p.m. 54% on the 16th.

Overcast conditions prevailed 17 times in the early forenoon and 24 times in the afternoon.

Total evaporation for the month was 4.21 inches, the 10-year average being 4.05 inches.

Mean daily number of sunshine hours 6.3.

### WEATHER DISTURBANCE.

On the 9th October there was evidence of a slight atmospheric depression, apparently developing between eastern Cuba and Jamaica, and on the 11th the barometric pressure was nearly back to normal. This weather disturbance failed to organize, even to slight intensity. There was, however, fairly good precipitation reported by several parishes, during this interval. The lowest barometer at Kingston was 29.78 inches.

On the 22nd October the United States Weather Bureau issued a broadcast notice that in the afternoon of the 21st a slight weather disturbance existed in the southwestern Caribbean, apparently increasing in intensity and moving northward. On the 22nd October it had developed into a tropical storm, moving north-north-west, central at about 150 miles to the east north-east of Bluefields, Nicaragua, moving slowly attended by strong shifting winds and apparently increasing in intensity. Caution was advised ships in western Caribbean. It was afterwards moving very slowly to north north-westward, and 125 miles east of Nicaragua, attended by winds about 50 miles per hour. A notice of the 23rd October stated that the disturbance was central near Cape Gracias, Nicaragua, and shewed no increase in intensity, but was attended by strong winds over a large area, especially in the Gulf of Honduras. Then at 10.30 p.m. on the 23rd a notice stated it had moved well inland over Nicaragua and diminished considerably in intensity. Circular warnings to shipping were issued by the General Post Office, Jamaica.

According to a Press report of the Daily Gleaner on November 27th, a sailing vessel known as the "Hustler" which was on her way from Cristobal to Caymans, evidently met this storm and has been lost. Captain Lawrence Bodden and thirteen other persons including passengers and crew perished.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
20th November, 1940.



JAMAICA  
**WEATHER REPORT.**  
 FOR THE MONTH OF  
 NOVEMBER, 1940.

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 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	29.938	29.889	79.7	82.8	84.8	76.4	8.4	87.9	2	69.1	15	18.8
Kingston	24	29.897	29.847	73.2	86.1	89.3	71.9	17.4	92.5	1	68.4	30	24.1
Negril Point Light House	33	29.896	29.848	75.5	84.7	88.0	72.6	15.4	90.5	12	66.5	14	24.0
Montego Bay†	33	..	..	74.9	84.8	86.8	71.6	15.2	92.0	2	66.9	27	25.1
Castleton Gardens*	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens,	668	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue*	..	..	..	..	..	..	..	..	..	..	..	..	..
Mountains	4,900	..	..	..	..	..	..	..	..	..	..	..	..

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	74	83	75	77	7.47	318	NE	14.0	NE	13.0	3.1	2.3	1.2	2.2	3.2	0.9
Kingston	24	69	86	72	64	1.40	126	N	5.4	SE	7.5	1.7	1.5	1.1	2.9	2.7	0.9
Negril Point Light House	33	69	83	73	67	2.49	141	NE	5.0	Var.	6.9	0.4	2.0	2.1	2.0	3.4	0.5
Montego Bay	33	72	89	76	75	6.61	..	ENE	3.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

\* And on other days.

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

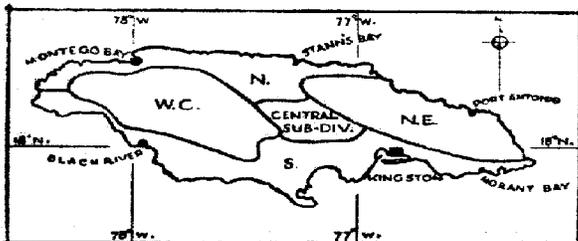
\* Not received.

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.	November, 1940.				
	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.
Maachioneal	10.79	2.30	16	17	14.25
Ecclesdown	17.97	2.53	4	28	
Priestman's River	10.95	2.90	8	11	11.66
Bath	11.59	2.86	4	19	14.24
Barrett's Gap	18.42	4.00	4	14	
Millbank	45.16	11.20	4	21	
Comfort Castle	63.74	12.50	3	20	
Moore Town	43.20	10.40	4	24	33.29
Port Antonio	9.36	3.50	4	11	16.98
Passley Garden	16.27	2.88	4	20	
Fellowship	23.15	5.30	4	26	25.41
Johnson River Br.	3.92	1.15	9	10	8.91
Trinity Ville	3.56	1.17	9	9	
Fruitful Vale	45.27	11.43	18	21	
Hope Bay	36.13	12.00	18	15	
Cedar Valley	7.27	2.00	5	12	12.08
Paradise †					
Lennox	37.10	19.00*	19	21	
Greenvale	79.20	27.15	18	22	33.76
Darley	17.99	8.76	18	16	
Spring Garden					13.01
Hill Gardens					15.57
Buff Bay	27.61	11.30	18	13	15.92
Buff Bay R. Est.	42.47	11.50	18	24	
Belvedere, Portland	28.95	11.40	18	19	15.52
Windsor Castle. do.	28.61	14.52	18	20	15.45
Balcarros	78.94	19.95	19	21	
Mt. Holstein	49.94	19.58	19	19	30.39
Cedar Hurst	30.43	16.33	19	20	
Hardware Gap	13.20	7.22	19	16	16.76

\* Gauge overflowed.

† Gauge Washed away by flood.

STATIONS.	November, 1940				
	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	5.82	1.16	18	16	15.38
Mount Cressy	34.63	12.50	19		
Hermitage	5.46	1.38	22	15	
Mount Airy	25.40	10.42	19	18	
Stony Hill Ind. Sch.	5.00	1.27	22	12	8.19
Boon Hall	5.51	1.70	22	13	
Brandon Hill	18.43	4.45	19	15	
Enfield	46.57	10.50	18	21	
Agualta Vale	21.69	10.44	18	21	11.68
Castleton Gardens	41.69	11.46	19	17	16.40
Water Valley	22.19	12.00	18	21	10.84
Albany	16.73	7.50	18	17	11.16
Lawrence Tavern	8.31	3.30	22	10	9.69
Wey Hill	12.53	2.50	22	16	
Richmond, St. Mary	20.71	13.14	18	17	12.12
Quebec, St. Mary	16.81	11.05	18	12	9.79
Above Rocks	7.13	2.72	22	8	
Glengoffe	9.06	3.56	22	7	
Carew Castle	6.93	3.02	22	13	10.69
Hampstead, St. Mary					16.24
Windsor Castle do.	18.07	5.25	18	21	
Troja	12.67	4.25	20	10	
Pear Tree Grove	11.62	4.35	18	19	
Guy's Hill	12.42	3.05	18	22	10.74
Lucky Hill	22.49	7.80	18	22	14.78
Rio Hoe	8.87	1.97	18	16	10.78
Unity Valley	5.79	0.83	22	21	10.35
Moneague	5.72	1.35	18	18	11.84
Claremont	6.71	1.20	18	16	11.99
Averham Park	11.99	3.37	9	16	13.38
Albion	8.54	1.35	18	17	10.62
<b>NORTHERN DIVISION (N)</b>					
Port Maria	12.12	5.14	18	17	11.02
Wentworth	12.80	5.40	18	8	
Jacks River	16.90	7.40	18	18	
Oracabessa	19.43	7.98	18	17	
Huddersfield	16.46	6.10	18	9	
Ocho Rios	13.32	3.00	18	21	9.50
Rockfield	15.60	2.37	18	20	15.09
Liberty Hill	4.80	1.50	18	15	11.06
St. Ann's Bay	6.93	1.82	18	15	9.58
Richmond Estate	7.02	1.49	18	16	9.64
Runaway Bay	9.15	2.23	8	10	3.98
Knapdale	13.43	2.70	20	18	
Alexandria	2.47	1.36	7	16	5.45
Bel-Air	14.75	4.70	16	16	
Brown's Town	9.56	2.04	20	19	11.23
Wilton	14.67	2.63	16	20	
Watt Town, St. Ann	1.49	0.56	12	6	5.15
Home Castle					9.00
Arcadia	16.45	10.35	16	17	7.50
Vale Royal	16.71	10.15	16	18	7.75
Harmony Hall	7.46	2.25	16	12	6.11
Duncans	8.82	4.16	16	13	
Clark's Town	18.44	10.00	16	17	
Falmouth	8.39	1.83	18	16	5.02

STATIONS.	November, 1940.					STATIONS.	November, 1940.				
	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	5.89	1.95	16	14		Mereworth	9.44	3.15	16	15	
Barrett Hall						Mandeville	5.62	2.10	9	7	7.05
Success					5.22	Ulster Spring	4.10	0.75	4	12	7.30
Rose Hall					5.71	Greenvale	5.67	1.80	21	8	
Cinnamon Hill					5.56	Albert Town	7.03	2.52	24	6	7.40
Tryall					4.30	Craig Head	4.15	2.33	8	4	
Running Gut					5.21	Warsop	5.53	1.35	28	13	
Spring Estate					5.74	Troy	3.00	1.30	8	5	7.07
Friendship					5.97	Wallingford	6.19	2.40	8	13	6.87
Retirement	6.88	2.26	15	14	6.54	Balaclava	6.57	2.17	8	11	5.93
Rose Mount	3.98	1.16	17	16		Braes River	7.02	2.70	3	9	
Montego Bay	6.61	1.98	16	11	5.10	Wakefield	12.03	7.30	16	12	
Anchovy	9.87	6.70	16	10	3.23	Aberdeen	7.06	2.88	8	9	
Hopewell	6.76	2.50	16	10		Accompong					
Blue Hole	5.43	2.00	16	10	8.07	Maggotty	6.40	1.45	25	11	6.81
Cascade	8.52	3.26	16	7		Lacovia	9.56	1.58	23	14	
Lucea	6.18	2.50	17	14	5.82	Mulgrave	3.90	1.75	8	10	
Haughton Court	7.41	3.31	17	10	4.58	Holland					
Kendal—Hanover	3.40	1.42	16	7		Ipswich	5.68	1.83	8	8	
Cousins Cove	7.86	3.66	17	12		Ginger Hill					
Green River	2.46	0.78	16	6		Kempshot	10.22	4.87	16	12	6.70
Green Island	4.95	2.56	17	9	4.62	Mocho, St. James					
Haughton Hall	4.03	1.95	17	7		Catadupa	3.37	2.50	16	3	8.01
<b>CENTRAL SUB-DIVISION.</b>						Cambridge	4.03	2.72	16	6	5.53
Knollis	5.00	1.40	25	9		New Market	6.47	1.43	3	11	7.39
Highgate (St. Cath.)	6.38	1.26	22	15		Springfield					
Rio Magno	13.21	3.45	20	15		Kew Park	2.13	1.83	16	4	5.66
Riversdale						The Bog	5.91	1.75	22	16	6.66
Headworks, R.C.C.	3.58	0.61	21	10	5.12	Bethel Town Dist.	4.62	3.85	16	4	7.50
Bog Walk	4.96	1.85	8	7		Burnt Ground	4.91	4.03	16	4	5.96
Linstead	5.79	1.90	8	9	6.47	Darliston	4.37	2.06	16	5	7.35
Ewarton	2.89	0.75	23	6		Bluefields	3.30	1.21	16	7	6.48
Cave Valley	1.26	0.56	7	4	5.30	Whithorn	0.90	0.46	25	2	6.06
Guanahoa Vale	3.59	0.90	7	7		Water Works Pen	3.72	1.50	16	8	4.90
Point Hill	4.32	1.16	8	12	10.01	Williamsfield, Wld.	9.58	6.20	17	7	
Brown's Hall					10.46	Bauk	4.86	2.00	16	7	
Bellas Gate	2.40	0.58	17	7	3.56	Askenish	6.92	3.25	16	8	5.04
Rock River	1.54	1.35	6	6		Grange Hill	4.40	1.78	16	12	5.66
Crofts Hill	7.59	3.75	6	8	6.40	Mount Eagle	4.77	1.52	6	10	
Kellit's	3.81	1.37	8	11		King's Vale	2.48	0.92	17	5	5.05
Suttons	4.40	1.76	25	8							
Colonel's Ridge	5.88	1.87	6	10							
Chapelton	4.66	2.60	25	11	4.83						
Crooked River	2.98	1.55	25	9							
James Hill	2.89	0.85	8	7							
Frankfield	3.18	0.58	8	8	4.39						
<b>WEST-CENTRAL DIVISION (W.C.)</b>						<b>SOUTHERN DIVISION (S.)</b>					
Mocho, Clarendon	2.17	0.65	16	8	5.67	Morant Point L.H.	7.47	1.92	4	17	7.97
Thompson Town	4.15	1.18	8	9		Golden Grove	9.47	2.53	5	23	
Porus	2.85	0.66	16	10		Pleasant Hill	6.79	1.63	5	15	8.87
Borobridge	3.35	1.00	25	10		East Prospect	7.38	1.43	18	14	10.31
Spaldings	9.61	4.15	8	9	4.88	Morant Bay	3.52	1.60	18	11	7.22
Williamsfield	3.60	0.87	17	12		Lloyds	2.07	0.88	18	10	
Brokenhurst	9.43	2.15	9	13	7.29	Yallahs	1.48	1.00	18	2	
Shooter's Hill	3.11	0.59	3	9	6.74	Easington	1.41	1.41	18	1	5.38
Wait-a-bit	5.42	1.24	15	17		Mavis Bank	4.62	1.33	18	16	
Christiana	2.98	0.84	8	13	6.35	Bull Bay	2.36	0.92	19	8	3.10
Holmwood	2.02	1.05	3	8		Dallas Castle	3.91	0.70	18	17	
Clifton Hill	8.33	3.68	9	5	5.44	Gordon Town	4.66	0.74	18	13	9.01
Kendal, Manchester	2.66	0.64	17	11	6.41	Irish Town	5.35	1.00	20	9	8.98
						Hope Gardens					5.80
						Plumb Point L.H.	1.15	0.45	19	3	2.45

STATIONS.	November, 1940.					STATIONS.	November, 1940.				
	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. . . . .	..	..	..	..	4.75	Newport, Man. . . . .	5.29	1.47	9	9	6.73
Up-Park Camp . . . . .	3.41	0.91	5	12	..	Alligator Pond . . . . .	2.27	0.70	16	4	3.55
Cavaliers . . . . .	2.75	0.98	5	11	..	Myersville . . . . .	8.71	1.81	9	9	..
St. George's College . . . . .	..	..	..	..	..	Goshen . . . . .	10.77	4.28	3	13	..
Upper Kingston . . . . .	2.99	0.73	14	12	2.52	Munro . . . . .	7.75	1.64	3	19	..
Parade Garden . . . . .	..	..	..	..	..	Windsor, St. Eliz. . . . .	7.62	2.22	17	20	..
Kingston P.W.O. . . . .	1.40	0.51	18	8	2.92	Torrington . . . . .	5.90	1.40	3	7	6.57
Constant Spring . . . . .	3.71	0.90	9	13	..	Santa Cruz . . . . .	11.58	4.21	3	15	6.09
Halway Tree . . . . .	4.23	2.45	18	10	4.05	Hounslow . . . . .	6.49	1.40	3	9	..
Clifton Pen . . . . .	1.96	0.63	18	8	4.82	Pedro Plains . . . . .	3.95	1.25	3	9	3.85
Seaward Pen . . . . .	1.20	0.60	18	3	..	Mountainside . . . . .	7.20	3.10	3	8	5.88
Red Hills . . . . .	3.59	0.66	18	14	..	Fort Charles . . . . .	3.66	1.32	4	7	..
Quarantine Station . . . . .	1.04	0.80	19	5	2.56	Black River . . . . .	5.42	0.93	20	13	4.36
Hematine . . . . .	..	..	..	..	3.67	Mt. Charles . . . . .	10.35	2.45	22	14	..
Spanish Town . . . . .	1.88	0.44	18	8	3.80	Font Hill . . . . .	..	..	..	..	4.82
Hog Hole, St. Cath. . . . .	2.16	0.48	18	10	4.60	Mount Edgecombe . . . . .	5.78	2.87	21	11	4.92
Old Harbour . . . . .	5.33	1.70	25	9	4.67	Sav.-la-Mar . . . . .	2.53	1.22	16	6	3.67
May Pen . . . . .	2.59	0.60	16	10	4.60	Little London . . . . .	5.53	2.19	21	7	3.98
Glen Muir . . . . .	1.60	0.90	27	4	..	Retreat . . . . .	5.46	1.80	6	10	4.60
Cottage . . . . .	0.75	0.45	18	3	..	Negril Point L.H. . . . .	2.49	0.83	16	8	3.83
Belle Plain . . . . .	4.65	2.07	16	8	..						
Milk River . . . . .	3.28	1.08	4	10	5.12						
Retrieve . . . . .	1.90	0.65	18	7	5.22						
Stone's Hope . . . . .	6.18	2.00	9	10	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.	
	1940.	Ave.	1940.	Ave.
North-eastern . . . . .	18.61	15.52	17	16
Northern . . . . .	7.30	6.42	12	11
West-central . . . . .	5.00	6.21	9	11
Southern . . . . .	4.19	5.01	10	9
The Island means . . . . .	8.77	8.29	12	12

SHOCKS OF EARTHQUAKE IN NOVEMBER, 1940.

Date.	Standard Time. (Approx.)	Intensity.	Notes, where, etc.
5th	7.45 a.m.	I	Unity Valley East Prospect
9th	8.15 p.m.	III	Boon Hall Unity Valley Chapelton Golden Grove East Prospect Dallas Castle Plumb Point Lighthouse, Kingston Halfway Tree Quarantine Station and other places
11th	4.40 p.m.	I	East Prospect

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 was slightly above normal. The North-Eastern and Northern Divisions were above the average; and the West-Central and Southern Divisions were below normal.

The North-Eastern Division, particularly the parish of Portland and part of the parish of St. Mary experienced very heavy rains on the 3rd and 4th, and again on the 18th and 19th, which caused loss of life and serious damage to roads, bridges and private property. The heaviest fall in 24 hours was 27.15 inches at Greenvale in Portland on the 18th. Other heavy falls were Balcarres 19.95 inches, Mount Holstein 19.58 inches, Lennox 19.00 inches (gauge overflowed), Cedar Hurst 16.33 inches, all in Portland and on the 19th. Several other stations in Portland and St. Mary gauged over 10.00 inches on the 3rd and 4th and the 18th and 19th.

The greatest total fall for the month was 79.20 inches at Greenvale, Portland, closely followed by Balcarres in the same parish with 78.94 inches. Other large total falls were 63.74 ins. at Comfort Castle, 49.94 ins. at Mount Holstein, 45.27 ins. at Fruitful Vale, 45.16 ins. at Millbank, 43.20 ins. at Moore Town, 42.47 ins. at Buff Bay River Estate, all in Portland; also 46.57 at Enfield and 41.69 at Castleton in St. Mary. Several other stations gauged over 30.00 inches.

The mean number of rain days was 12, which is the average for the month. Fellowship in the North-Eastern Division had the greatest number—26.

The mean rainfall in each parish is given below, compared with the 10-year average. Portland, with 35.38 inches was highest; St. Mary with 21.15 inches, next; and Trelawny with 9.45 inches, was third. Kingston, with 1.85 inch, was lowest.

Parish.	1940.	10-year Average.	Parish.	1940.	10-year Average.
	Inches.	Inches.		Inches.	Inches.
Kingston	1.85	3.10	St. James	6.36	7.31
St. Andrew	7.76	11.56	Hanover	5.49	6.60
St. Thomas	6.49	9.68	Westmoreland	4.40	5.32
Portland	35.38	26.04	St. Elizabeth	7.01	5.68
St. Mary	21.15	14.21	Manchester	4.72	6.11
St. Ann	8.53	10.07	Clarendon	3.84	5.26
Trelawny	9.45	7.73	St. Catherine	6.06	7.58

## CITY OF KINGSTON.

The total rainfall for the month of November was 1.40 inch, the 60-year normal being 2.92 inches. There were 8 days with appreciable rain, corresponding to the average. The upper boundary of Kingston gauged 2.99 inches, with 12 rain days. Heaviest fall in 24 hours was 0.51 of an inch on the 18th.

The several directions in which distant rain was observed are as follows: To north 6, to north-east 10, to east 2 to south 1, and north-west 2.

Distant lightning to north twice and north-east once.

Distant thunderstorm to north 3 times, to north-east once on 19th, intense at 8 p.m.

The mean barometric pressure was 29.884 inches, the 33-year normal being 29.892 inches, shewing 0.008 of an inch below the normal. Highest reading 29.968 inches on the 29th at 3 p.m. and the lowest 29.779 inches on the 6th at 7 a.m. Corrected for diurnal variation.

The mean temperature was 79.6°, the 33-year normal being 78.3° or 1.3° above the normal. The extreme maximum was 92.5° on the 1st and the extreme minimum 68.4° on the 30th, giving an extreme monthly range of 24.1°. On the other hand, the lowest maximum was 86.0° on the 18th and the highest minimum was 75.9° on the 17th. The maximum was 90° and above on 10 occasions, and the minimum was below 70° on 4 occasions. The greatest daily range was 23.1° on the 30th and the least range was 11.1° on the 17th.

The mean daily miles of wind registered was 126, the normal being 146. The greatest number of miles recorded was 182 on the 27th and the least 87 on the 10th.

The mean relative humidity was 78% and the normal 82%. Mean 7 a.m. 86%, and mean 3 p.m. 64%. Lowest 7 a.m. 78% on the 27th, and lowest 3 p.m. 45% on the 12th and 13th.

Overcast conditions prevailed in the early forenoon on 12 days and in the afternoon on 19.

Total evaporation for the month of November was 6.89 inches, the 10-year average being 3.55 inches. The relative humidity was 4% below the 33-year average and the mean maximum temperature was nearly 2° above the normal of 87.4°.

Mean daily number of sunshine hours 7.8.

## EARTHQUAKE OF THE 9TH JANUARY.

There was an exceptionally prolonged earthquake felt at Kingston on the 9th at 8.15 p.m. It was of a long-period character, the horizontal movement was slow and recorded 0.15 of an inch, of a duration of about 8 seconds, apparently from east to west.

According to Press report (The Daily Gleaner) this earthquake was felt at most other places over the Island, such as at Buff Bay, Seaforth Town, Newport, Ewarton, Grantham, Falmouth and Moneague, besides the places given on page 4 of this Weather Report.

## THE FLOOD RAINS OF THE 18TH AND 19TH NOVEMBER, 1940.

On the 18th and 19th of November, 1940, heavy rains occurred over the north-east section of the Island, including the parish of Portland and part of St. Mary, where severe floods arising from a "cloud-burst" caused considerable damage, involving serious loss of life and great destruction to property. A Rainfall Map of the region affected is appended.

The north-eastern division of the Island is noted for its greatest average annual rainfall of nearly 100 inches whereas the southern division can claim only about one-half of this with 51 inches.

The north-eastern region is also susceptible to recording, periodically, several of these "cloud-bursts," as in the instances shewn on the records for 8th November 1899, 26th November, 1904, 4th November, 1909 and 21st November, 1937. But deluges have appeared in the Island with less frequency at other sections.

The map, herewith, reveals a preponderance of rainfall of 60 inches, within a small area to the immediate SE of Buff Bay, and following the contours of the respective changes radiating from this concentrated area, we perceive a gradually diminishing rainfall, both to the east and west of this "cloud-burst" centre. The contour lines proceeding southward of Port Maria give around 10 inches, and then following the lines to the eastward the rainfall is seen to have decreased to about 5 inches, along the coastline from Manchioneal to Port Antonio.

It may be stated that rainfall observers on about 25 stations have very kindly supplied the necessary data concerning the respective gaugings, from the 18th to 23rd November. Nearly all this floods-rain, however, was confined to the 18th and 19th of November.

There was also a marked secondary centre of flooding, around Comfort Castle and Millbank, nearer to the Blue Mountain Range, giving a mean rainfall of 25 ins. at the same time.

Sudden cloud-bursts of this character are developed by continued ascending currents of vapour-charged air into a colder stratum of the troposphere. In several cases there is generally found an intense display of lightning. The rest of the Island recorded a normal precipitation in November.

During the period of this abnormal rainfall, the barometric pressure in Kingston was as follows:—

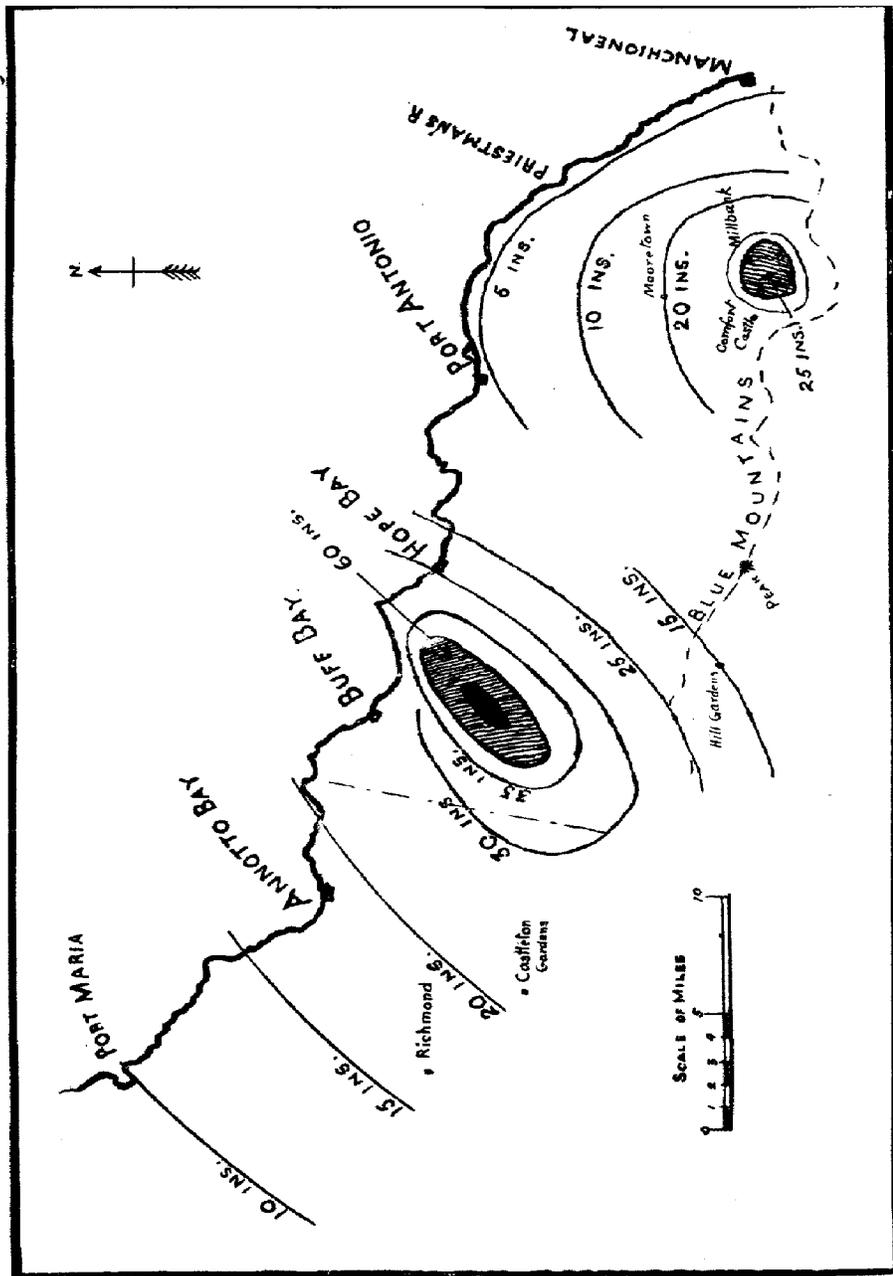
	inch.
On the 16th at 7 a.m.	0.015 Below the normal.
On the 17th at 7 a.m.	0.010 Above the normal.
On the 18th at 7 a.m.	0.018 Above the normal.
On the 19th at 7 a.m.	The normal (29.892).

It is evident, therefore, that should there have been any marked barometric depression as a result of this unusual weather, it must have been confined almost entirely to the Buff Bay area.

Details of the individual station's rainfall, derived from about 240 places distributed throughout the Island will be found in this Report.

J. F. BRENNAN,  
Govt. Meteorologist.

Kingston,  
December 20th, 1940.



MAP OF FLOOD RAINS OVER N.E. JAMAICA, NOVEMBER 18TH TO 19TH 1940.



JAMAICA  
**WEATHER REPORT.**  
FOR THE MONTH OF  
**DECEMBER, 1940.**

The barometric pressures at all the Stations, except the Hill Gardens, are reduced to the standards of Kew 32°, gravity at Lat. 43° 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	29.956	29.917	79.3	81.4	84.4	74.7	9.7	86.5	24	67.2	24	19.3
Kingston	24	29.927	29.879	72.2	85.4	88.1	71.0	17.1	93.5	2	67.4	25	26.1
Negril Point Light House	33	29.922	29.884	74.0	82.7	85.4	71.8	13.6	89.3	11	66.4	25	22.9
Montego Bay †	33	..	..	73.3	83.3	85.6	69.9	15.7	89.0	1	65.0	21*	24.0
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens †	668	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mountains	4,900	..	..	..	..	..	..	..	..	..	..	..	..

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	75	89	76	85	9.29	304	ENE	11.0	NE	9.0	2.8	3.3	0.8	3.5	2.9	1.0
Kingston	24	78	86	71	63	4.01	154	NNE	5.0	SE	12.3	2.1	0.7	1.4	3.2	2.6	1.1
Negril Point Light House	33	69	87	73	71	5.74	163	NE	6.0	var.	8.0	1.8	1.7	2.0	2.4	4.7	0.7
Montego Bay	33	70	90	75	77	4.20	..	ENE	3.0	NE	7.0	..	..	..	..	..	..
Castleton Gardens	496	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hope Gardens	668	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Gardens, Blue Mtns.	4,900	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

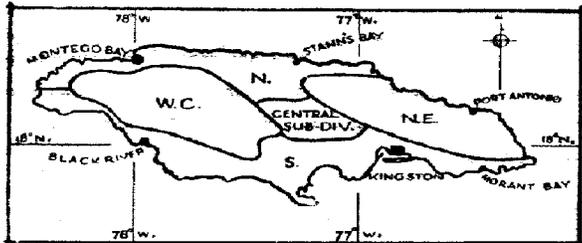
\* And on other days. †Hope Gardens—observations made at 9 a.m. and 3 p.m.  
‡Montego Bay—observations made at 8 a.m. and 3 p.m.

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 1920." 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.



December, 1940.

STATIONS.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
December, 1940.					
<b>NORTH-EASTERN DIVISION (N.E.)</b>	Ins.	Ins.			Ins.
Manchioneal	9.68	3.48	22	14	7.25
Ecclesdown	16.23	3.86	22	26	
Priestman's River	12.75	5.45	22	14	5.59
Bath	17.91	4.87	22	24	8.68
Barrett's Gap	22.76	7.96	22	17	
Millbank	28.55	3.15	22	25	
Comfort Castle					
Moore Town	18.43	3.50	22	27	23.75
Port Antonio	16.13	4.00	22	16	12.43
Passley Garden	12.28	2.26	22	22	
Fellowship	23.31	4.10	9	22	18.25
Johnson River Br.	12.66	3.34	22	14	4.73
Trinity Ville					
Fruitful Vale	21.83	6.16	9	21	
Hope Bay	9.70	2.50	14	7	4.29
Cedar Valley	13.89	3.40	22	14	
Paradise					
Lennox	12.90	2.50	9	23	
Greenvale	35.33	10.00	8	24	22.57
Darley					
Spring Garden					8.06
Hill Gardens	5.18	1.18	22	20	9.68
Buff Bay	10.86	1.50	16	16	11.80
Buff Bay R. Est.	24.62	7.21	10	21	
Belvedere, Portland	14.82	2.75	9	17	13.85
Windsor Castle, do.	9.42	1.13	22	22	11.68
Balsarres	36.60	10.00	10	20	
Mt. Holstein	12.98	3.15	5	16	19.56
Cedar Hurst	7.22	1.33	5	22	
Hardware Gap	6.30	1.23	7	19	6.29
December, 1940.					
<b>NORTH-EASTERN DIVISION, contd.</b>	Ins.	Ins.			Ins.
Rose Hill	5.68	1.05	22	18	5.06
Mount Cressy	10.17	3.00	5		
Hermitage	5.84	1.54	7	16	
Mount Airy	8.61	1.92	29	14	
Stony Hill Ind. Sch.	4.83	1.27	22	16	3.81
Boon Hall	4.84	1.22	22	18	
Brandon Hill	6.61	1.95	5	12	
Enfield	34.27	17.62	10	17	
Agualta Vale	9.06	1.50	10	20	9.48
Castleron Gardens	11.93	4.80	16	13	12.78
Water Valley	9.30	1.08	2	20	9.46
Albany					9.41
Lawrence Tavern	3.55	1.40	22	11	4.36
Wey Hill	6.57	2.00	17	18	
Richmond, St. Mary	12.68	3.64	10	18	9.83
Quebec, St. Mary	12.05	2.73	16	17	9.47
Above Rocks	4.51	1.21	22	14	
Glengoffe	3.78	1.39	22	10	
Carew Castle	4.40	1.14	22	14	4.70
Hampstead, St. Mary	8.91	2.50	9	19	11.86
Windsor Castle do.	7.69	1.50	10	15	
Troja	8.26	1.46	10	13	
Pear Tree Grove	10.12	2.00	10	18	
Guy's Hill	8.59	1.67	10	19	7.42
Lucky Hill	8.40	1.03	12	19	10.23
Rio Hoc	6.91	1.50	8	17	8.45
Unity Valley	7.77	0.95	8	22	7.25
Moneague	6.72	0.81	8	23	7.25
Claremont	6.77	1.29	8	20	7.78
Averham Park					10.25
Albion	5.33	0.63	8	18	7.86
December, 1940.					
<b>NORTHERN DIVISION (N.)</b>					
Port Maria	9.06	1.46	9	18	7.05
Wentworth	8.60	1.65	16	12	
Jacks River	9.21	2.15	16	19	
Oracabessa	11.04	1.78	15	17	
Huddersfield	7.17	1.25	21	13	
Ocho Rios	7.34	1.20	10	20	6.62
Rockfield	9.52	2.01	8	18	9.39
Liberty Hill	5.25	2.00	10	12	7.86
St. Ann's Bay	8.82	2.59	9	15	7.25
Richmond Estate	8.80	2.39	10	20	7.92
Runaway Bay	4.36	1.10	10	8	3.39
Knapdale	11.81	2.70	10	12	
Alexandria	2.03	0.38	22	13	2.67
Bel-Air	9.00	4.10	10	18	
Brown's Town	9.17	1.83	10	20	8.42
Wilton	10.47	3.27	10	19	
Watt Town, St. Ann	2.17	0.39	25	15	2.06
Home Castle	6.90	2.00	11	7	7.52
Arcadia	6.84	1.90	10	21	6.65
Vale Royal	7.39	1.60	10	19	7.38
Harmony Hall					5.85
Duncans	7.72	4.16	16	13	
Clark's Town	4.85	0.75	24	13	
Falmouth	5.10	1.10	11	17	4.53

STATIONS.	December, 1940.					STATIONS.	December, 1940.				
	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 ..	3.30	0.83	23	10		Mereworth ..	5.53	1.78	22	15	
Barrett Hall ..					3.95	Mandeville ..	2.92	1.28	22	10	2.95
Success ..					4.64	Ulster Spring ..	3.34	1.20	7	8	4.08
Rose Hall ..					4.66	Greenvale ..	4.48	2.20	7	3	3.71
Cinnamon Hill ..					3.28	Albert Town ..					
Tryall ..					4.73	Craig Head ..					
Running Gut ..					4.51	Warsop ..					
Spring Estate ..					2.88	Troy ..					3.05
Friendship ..	3.96	1.25	23	14	2.94	Wallington ..	3.37	1.40	7	16	2.26
Retirement ..	3.89	1.34	23	12		Balaclava ..	3.94	1.47	7	8	2.16
Rose Mount ..	4.46	1.31	9	14		Braes River ..	2.59	0.76	8	5	
Montego Bay ..	4.20	1.45	9	15	4.26	Wakefield ..	2.13	0.62	23	10	
Anchovy ..	4.82	1.18	5	13	2.85	Aberdeen ..	3.79	1.00	23	10	
Hopewell ..	3.68	1.42	23	14		Accompong ..					
Blue Hole ..	5.60	1.82	23	10	2.32	Maggotty ..	5.56	2.09	7	9	2.88
Cascade ..	8.29	3.37	21	9		Lacovia ..	3.25	1.15	7	9	
Lucea ..	7.02	2.75	23	10	3.37	Mulgrave ..	4.87	1.15	8	10	
Houghton Court ..	4.25	2.03	23	7	3.17	Holland ..					
Kendal—Hanover ..	5.18	1.36	28	9		Ipawich ..	5.20	1.85	8	11	
Cousins Cove ..	5.83	2.14	23	12		Ginger Hill ..	6.22	2.37	8	9	
Green River ..	4.34	1.35	23	9		Kempshot ..	4.04	2.25	23	8	5.03
Green Island ..	4.05	1.88	23	9	2.14	Mocho, St. James ..	5.48	2.10	8	6	
Houghton Hall ..	3.37	1.57	23	11		Catadupa ..	1.73	1.38	8	8	2.88
<b>CENTRAL SUB-DIVISION.</b>						Cambridge ..	3.96	1.52	8	9	2.26
Knollis ..	4.65	1.50	26	6		New Market ..					2.01
Highgate (St. Cath.) ..	4.83	1.50	22	15		Springfield ..					
Rio Magno ..	9.37	1.55	10	17		Kew Park ..	4.43	1.13	8	11	2.56
Riversdale ..	5.39	1.57	22	11		The Bog ..	6.40	1.58	8	18	2.79
Headworks, R.C.C. ..	5.48	1.56	22	11	2.00	Bethel Town Dist. ..	5.29	1.56	8	10	2.19
Bog Walk ..	5.80	1.75	18	9		Burnt Ground ..	3.44	2.13	23	6	2.99
Linstead ..	4.79	1.38	22	11	3.37	Darliston ..	10.48	2.03	28	12	2.96
Ewarton ..	5.41	1.61	22	13		Bluefields ..	6.61	1.20	28	13	2.67
Cave Valley ..	2.97	0.90	22	11	3.05	Whithorn ..	5.73	1.34	23	6	2.49
Guanaboa Vale ..	4.07	1.60	22	8		Water Works Pen ..	11.70	4.10	18	13	2.21
Point Hill ..	8.42	1.73	22	16	4.43	Williamsfield, Wld. ..	9.31	4.00	23	17	
Brown's Hall ..					3.31	Baulk ..	5.47	1.37	23	10	
Bellas Gate ..	8.83	2.27	29	12	0.98	Askenish ..	5.89	1.35	20	12	2.33
Rock River ..	3.35	1.70	22	5		Grange Hill ..	6.33	1.64	30	10	3.01
Crofts Hill ..	6.51	1.48	22	13	2.16	Mount Eagle ..	7.74	1.98	18	13	
Kellitts ..	5.63	1.42	29	12		King's Vale ..	4.64	1.30	28	9	2.93
Suttons ..	5.24	2.38	29	9							
Colonel's Ridge ..	3.96	1.28	22	13		<b>SOUTHERN DIVISION (S.)</b>					
Chapelton ..	3.97	1.38	22	12	2.32	Morant Point L. H. ..	9.29	1.90	7	19	5.58
Crooked River ..	4.55	1.38	8	13		Golden Grove ..	13.57	3.10	22	21	
James Hill ..	3.93	1.36	22	11		Pleasant Hill ..	12.37	1.97	22	19	4.39
Frankfield ..	4.21	1.30	7	8	2.04	East Prospect ..	16.95	6.04	22	21	4.65
<b>WEST-CENTRAL DIVISION (W.C.)</b>						Morant Bay ..	11.76	4.71	22	17	3.96
Mocho, Clarendon ..	4.81	1.20	23	11	2.00	Lloyds ..	10.99	3.95	22	14	
Thompson Town ..	5.73	1.70	22	11		Yallahs ..	8.34	3.49	22	8	
Porus ..	4.74	1.82	22	10		Easington ..	10.93	3.90	21	10	2.63
Borobridge ..	3.35	1.30	7	9		Mavis Bank ..	5.34	2.00	22	14	
Spaldings ..	5.67	1.60	7	13	2.13	Bull Bay ..	3.36	1.30	22	6	1.07
Williamsfield ..	4.07	1.50	22	11		Dallas Castle ..					
Brokenhurst ..	5.99	1.85	22	15	3.04	Gordon Town ..	4.49	2.00	22	10	2.93
Shooter's Hill ..	3.85	1.38	21	7	2.16	Irish Town ..	5.10	1.00	22	9	3.11
Wait-a-bit ..						Hope Gardens ..					2.58
Christiana ..	4.26	1.25	29	12	2.93	Plumb Point L. H. ..	4.44	2.54	22	6	1.31
Helmwood ..	4.58	0.60	7	12							
Clifton Hill ..	3.97	1.90	22	5	1.57						
Kendal, Manchester ..	3.30	1.25	22	8	2.50						

STATIONS.	December, 1940.					STATIONS	December, 1940.				
	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.	..	..	..	..	1.91	Newport, Man.	3.25	1.87	22	7	3.02
Up-Park Camp	3.10	1.64	22	9	..	Alligator Pond	2.86	1.90	22	4	1.97
Cavaliers	6.40	3.75	22	8	..	Myersville	2.78	1.00	23	7	..
St. Georges College	2.97	1.77	22	7	..	Goshen	3.74	0.86	9	8	..
Upper Kingston	3.45	1.62	22	9	0.73	Munro	7.24	2.03	22	15	..
Parade Garden	..	..	..	..	..	Windsor, St. Eliz.	3.05	1.41	22	16	..
Kingston P.W.O.	4.01	1.84	22	12	1.41	Torrington	3.95	2.00	22	5	2.42
Constant Spring	4.23	1.21	18	13	..	Santa Cruz	6.46	2.28	7	8	2.60
Halfway Tree	2.46	1.72	22	10	1.70	Hounslow	2.15	1.00	22	7	..
Clifton Pen	2.60	2.50	22	10	1.10	Pedro Plains	4.79	2.27	3	8	1.44
Seaward Pen	3.90	2.65	22	5	..	Mountainside	3.32	1.55	8	5	1.29
Red Hills	4.52	0.94	22	11	..	Fort Charles	1.14	0.46	22	4	..
Quarantine Station	4.08	2.45	23	7	0.79	Black River	3.93	0.95	5	10	2.22
Hematine	4.74	2.24	29	5	1.34	Mt. Charles	4.00	1.00	23	8	..
Spanish Town	4.23	1.55	28	10	1.79	Font Hill	..	..	..	..	1.99
Hog Hole, St. Cath.	5.04	1.98	28	9	1.98	Mount Edgecombe	6.60	1.00	14	16	2.36
Old Harbour	5.03	2.01	29	5	2.33	Sav.-la-Mar	4.96	1.85	23	10	1.96
May Pen	4.17	1.30	29	11	2.00	Little London	7.78	1.48	13	15	2.17
Glen Muir	3.00	1.50	29	3	..	Retreat	8.26	1.60	18	15	2.21
Cottage	5.12	1.94	22	9	..	Negril Point L. H.	5.74	1.45	23	11	1.97
Belle Plain	5.24	1.83	22	9	..						
Milk River	3.04	1.27	22	6	1.82						
Retrieve	5.20	2.02	22	8	1.25						
Stone's Hope	4.40	1.43	22	11	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.	
	1940.	Ave.	1940.	Ave.
North-eastern	10.89	10.32	19	14
Northern	5.86	5.03	13	9
West-central	5.20	3.26	10	7
Southern	5.73	2.19	10	6
The Island means	6.92	5.20	13	9

SHOCKS OF EARTHQUAKE IN December, 1940.

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—DECEMBER.

The mean rainfall was above the average in all Divisions, particularly the Southern Division which had more than double its normal.

The greatest fall in 24 hours was 36.60 inches at Balcarres in the North-Eastern Division, and the heaviest fall in 24 hours was 10.00 inches at the same station on the 10th.

The mean number of rain days was 13, the average for the month being 9. Moore Town in the North-Eastern Division had most—27.

The mean rainfall in each parish is given below. Compared with the 10-year average. Portland, with 17.56 inches, was highest; St. Thomas, with 13.45 inches, was second; and St. Mary, with 11.06 inches, was third. Kingston with 3.72 inches, was lowest.

Parish.	1940.	10-years average.	Parish.	1940.	10-years average.
	Inches.	Inches.		Inches.	Inches.
Kingston	3.72	0.82	St. James	4.01	2.85
St. Andrew	5.07	3.40	Hanover	5.04	2.55
St. Thomas	13.45	4.31	Westmoreland	7.05	1.90
Portland	17.56	14.43	St. Elizabeth	4.14	1.70
St. Mary	11.06	8.97	Manchester	4.17	1.84
St. Ann	6.95	6.14	Clarendon	4.60	1.54
Trelawny	5.67	3.25	St. Catherine	6.06	2.98

## THE YEAR 1940.

Table A gives the monthly rainfall in each Division, with the respective totals, compared with the 60-year average, and shows a deficit of 2.77 inches.

In the first half of the year the rainfall was 1% above and in the second half 8% below the average.

The mean number of rain days is also given and is the same as the 35-year average.

The mean rainfall per rainday was 0.58 inch.

Table B gives the mean monthly rainfall in the 14 Parishes, with the respective totals, compared with the 10 year average. Portland, with 159.48 inches, was highest; St. Mary, with 97.95 inches, was second; and Hanover, with 83.69 inches, was third. Kingston, with 18.16 inches was 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 was 4.01 inches, the 60-year normal being 1.41 inch. There were twelve days with appreciable rainfall, the 49-year average being 4.6 days. Greatest fall in 24 hours was 1.84 inch on the 22nd. The upper boundary of Kingston gauged 3.45 inches with 9 rain days.

The several directions in which distant rain was observed are as follows: to northward, 3; to northeast, 4; to southeast, 4; and to southwest and northwest, one each.

Distant lightning to west on the 26th and thunderstorm to north on the 10th, and to the southwest on the 8th.

The mean barometric pressure was 29.917 inches, the 33-year normal being 29.941 inches, shewing 0.024 of an inch below the normal. Highest reading 30.005 inches on 19th at 3 p.m., and the lowest, 29.762 inches, on the 26th at 7 a.m.; corrected for diurnal variation.

The mean temperature was 78.7°, the 33-year normal being 76.8°. The extreme maximum was 93.5° on the 2nd, and the extreme minimum was 67.4° on the 25th. The extreme monthly range was 26.1°. On the other hand, the lowest maximum was 80.3° on the 22nd and the highest minimum 76.5° on the 27th. The maximum was 90° or above eleven occasions. The minimum was below 70° on six occasions. Greatest daily range 22.6° on the 2nd, and the least 9.5° on the 27th.

The mean daily miles of wind registered was 154, the 25-year normal being 146, shewing 5% above the average. The greatest number of miles recorded was 285 on the 27th, and the least was 70 miles on the 23rd. South-easterly wind appeared before 7 a.m. on two days and continued after 7 p.m. on five days and throughout the night once. Maximum hourly velocity 36 miles per hour on the 2nd, at about 3.30 p.m.

The mean relative humidity was 80% which is the 33-year normal. Mean 7 a.m. 86% and mean 3 p.m. 63%. Lowest 7 a.m., 79% on the 19th and 20th, and the lowest 3 p.m., 43% on the 3rd.

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

Total evaporation for December 6.37 inches, the normal being 4.37 inches. This excess over the average may be attributed to the maximum temperature being 1½° above the normal and to the mean monthly temperature being about 2° above the 33-year average.

Mean daily number of sunshine hours 7.1.

## KINGSTON FOR THE YEAR 1940.

Total rainfall for the year 1940, as registered at the Public Works Buildings, Port Royal Street, Kingston, was 17.11 inches, the 60-year normal being 31.57 inches, shewing a deficiency of 14.46 inches. This was the lowest annual rainfall recorded since 1930 when a total of 15.48 inches was recorded. The month of December recorded the greatest fall, with 4.01 inches, and March the least with only 0.05 inch. The total number of days with appreciable rain, was 74 as against the 49-year average of 79. The greatest number of raindays in one month was 10 in October, and the least 1 in March and June respectively.

The mean barometric pressure for the year 1940 was 29.918 inches and the 33-year normal is 29.932 inches.

Mean temperature for the year was 79.6 as against the 33-year normal of 78.7, a difference of 0.9.

The mean amount of cloudiness for the year was 53% which is the normal.

The mean relative humidity was 75%, the 33-year average being 79%. Average daily wind 185 miles, normal 185 (see Table C)

## SUMMARY OF EXTREMES FOR THE YEAR 1940.

Table (D) giving the extreme values of certain observations is appended. February gave the highest barometer reading of 30.064 inches on 22nd, and December the lowest 29.762 on the 26th.

The maximum temperature rose to 90° or above as follows:—In January, one day; March, one day; April, two days; May, one day; June, 15 days, July, 23 days; August, 24 days; September, 14 days; October, 11 days; November, 10 days; and December, 11 days. Then the minimum temperature was below 70° for 20 days in January, 14 in February, 18 in March, 3 in April, 2 in May, 4 in November, and 6 in December, and above 70° throughout from June to October. For the 12 months there were 67 days in which the minimum read below 70° and 113 days in which the maximum recorded over 90°.

The maximum number of miles of wind registered in 24 hours was 608 in January, 27th, and the minimum was 76 on the 10th of October. The greatest rate of hourly velocity during short intervals was 40 miles per hour on the 24th of April.

The monthly lowest 7 a.m. relative humidity was 57% on June 12th, and the lowest 3 p.m. was 43% on December 3rd.

During the year the greatest rainfall in 24 hours was 1.84 inch on the 22nd of December.

J. F. BRENNAN,  
Government Meteorologist.

Kingston,  
January 20th, 1941.

TABLE (A).—The Island Rainfall 1940. (In inches.)

Month.	Divisions.				The Island.		Rain Days.	
	N.E.	N.	W.C.	S.	1940.	Average for 60 years.	Means for 1940.	Average for 35 years.
January	8.83	5.65	3.80	2.06	5.09	4.00	10	8
February	6.92	4.20	2.52	2.31	3.99	3.13	8	7
March	1.12	1.34	3.09	0.90	1.61	3.35	4	8
April	5.42	2.41	3.88	2.31	3.51	4.77	8	9
May	17.13	11.05	14.06	5.52	11.94	8.77	15	12
June	4.14	3.55	8.60	2.40	4.67	6.53	8	10
July	3.83	3.02	7.17	2.36	4.10	4.75	8	9
August	3.48	4.02	9.10	2.49	4.77	6.93	10	11
September	6.75	6.10	7.81	4.42	6.27	7.94	12	13
October	12.84	7.07	10.34	7.60	9.46	10.21	14	14
November	18.61	7.30	5.00	4.19	8.77	8.29	12	12
December	10.89	5.86	5.20	5.73	6.92	5.20	13	9
Total 1940	99.96	61.57	80.57	42.29	71.10		122	
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 1940.

Parish.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	10-year Average.
Kingston	0.94	1.84	0.18	0.56	0.88	0.13	1.63	0.63	2.41	3.39	1.85	3.72	18.16	30.46
St. Andrew	2.91	2.97	0.32	4.24	8.01	4.23	2.09	3.35	6.26	8.97	7.76	5.07	56.18	68.47
St. Thomas	4.47	4.18	0.63	2.38	6.26	1.83	3.92	3.35	9.30	19.17	6.49	13.45	75.43	79.96
Portland	14.31	11.91	1.49	12.51	24.10	4.76	6.91	3.11	7.08	20.36	35.38	17.56	159.48	136.13
St. Mary	11.18	6.93	1.47	4.77	18.45	3.80	2.52	2.03	5.75	8.84	21.15	11.06	97.95	83.72
St. Ann	6.03	5.78	0.93	1.76	13.15	3.11	2.32	2.73	3.36	8.63	8.53	6.95	63.28	65.76
Trelawny	7.02	3.55	2.55	2.64	14.22	4.00	3.82	7.18	5.43	9.57	9.45	5.67	75.10	61.52
St. James	5.21	3.34	2.60	3.17	13.73	8.39	4.95	7.00	10.95	8.08	6.36	4.01	77.79	64.22
Hanover	6.85	2.00	2.11	5.22	11.81	10.70	6.76	8.04	12.90	6.77	5.49	5.04	83.69	81.25
Westmoreland	3.01	2.13	3.64	4.69	11.48	12.17	7.79	9.38	8.25	9.18	4.40	7.05	83.17	83.76
St. Elizabeth	1.95	2.16	2.72	5.26	12.22	5.45	4.71	7.88	4.29	6.85	7.01	4.14	64.64	65.74
Manchester	2.92	3.51	2.12	2.35	10.50	2.98	3.87	4.80	5.56	9.62	4.72	4.17	57.12	70.82
Clarendon	2.10	2.98	1.37	1.73	13.05	2.25	3.66	3.70	6.00	8.50	3.84	4.60	53.78	59.98
St. Catherine	3.06	2.95	1.21	3.02	9.29	3.57	3.26	4.37	3.96	5.67	6.06	6.06	52.48	64.75
Means	5.14	4.01	1.67	3.88	11.94	4.83	4.16	4.82	6.54	9.54	9.17	7.04	72.74	72.62

TABLE (C).—KINGSTON, JAMAICA.—METEOROLOGICAL RESULTS FOR THE YEAR 1940.  
(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 Fall.	60 yrs.	No.	Av. for 49 yrs.		
	Ins.	Ins.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	
January	29.977	29.925	76.2	70.0	83.0	84.6	69.2	15.4	90.9	64.6	26.3	65	70	0.97	0.87	4	4	
February	29.980	29.909	75.7	70.8	84.1	85.8	69.7	16.1	89.7	64.4	25.3	65	69	1.49	0.61	4	4	
March	29.934	29.881	77.4	71.1	84.8	86.4	69.4	17.0	90.9	64.6	26.3	66	69	0.05	0.94	1	4	
April	29.947	29.896	79.1	74.9	84.8	87.1	71.5	15.6	90.4	68.4	22.0	67	71	0.41	1.17	6	5	
May	29.905	29.868	80.5	77.8	84.9	87.9	73.5	14.4	90.2	69.4	20.8	70	73	0.92	4.02	8	7	
June	29.946	29.907	82.7	80.0	87.2	90.2	75.4	14.8	93.5	73.0	20.5	70	71	0.09	3.51	1	6	
July	29.980	29.935	82.9	78.8	88.4	90.9	75.4	15.5	93.8	72.0	21.8	70	74	2.24	1.54	6	5	
August	29.939	29.891	82.4	77.7	88.4	90.7	75.0	15.7	94.5	71.4	23.1	70	78	0.46	3.60	5	9	
September	29.873	29.836	80.8	76.0	85.8	89.2	74.4	14.8	91.8	72.1	19.7	70	83	2.16	3.87	9	10	
October	29.873	29.828	79.8	75.1	84.9	87.4	73.8	13.6	91.2	71.6	19.6	71	87	2.91	7.11	10	12	
November	29.897	29.847	79.6	73.2	86.1	89.3	71.9	17.4	92.5	68.4	24.1	69	86	1.40	2.92	8	8	
December	29.927	29.879	78.7	72.2	85.4	88.1	71.0	17.1	93.5	67.4	26.1	78	86	4.01	1.41	12	5	
Means	29.930	29.884	79.6	74.8	85.6	88.1	72.5	15.6	91.9	68.9	23.0	69	81	..	..	..	..	
Totals	..	..	..	..	..	..	..	..	..	..	..	..	..	17.11	31.57	74	79	

NOTES.—(1) Since the year 1907, the observations have been made as follows:—  
 At 148½ East Street—(a) Pressure, Barometer 110 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, 1940—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	177	N. 6.0	SE. 12.6	N. 5.5	1.9	3.2	0.4	0.6	0.5	0.2	Overcast conditions prevailed in the forenoon on 8 occasions and in the afternoon on 10 occasions.
February	208	N. 6.7	SE. 12.8	NE. 7.2	3.0	2.4	1.1	2.5	0.1	0.4	ditto forenoon 11 occasions, afternoon 15
March	188	N. 4.9	SE. 13.3	NE. 4.6	0.5	1.5	1.1	3.6	1.3	0.1	ditto forenoon 8 occasions, afternoon 13
April	172	N. 4.2	SE. 12.9	NE. 4.0	0.3	3.6	0.6	2.6	1.7	0.4	ditto forenoon 6 occasions, afternoon 19
May	178	NE. 4.9	SE. 11.7	N. 5.2	0.3	4.6	7.2	0.8	2.5	3.0	ditto forenoon 11 occasions, afternoon 24
June	272	NE. 6.1	SE. 19.8	ESE. 6.6	0.3	1.5	0.1	1.9	1.7	1.9	ditto forenoon 5 occasions, afternoon 14
July	242	NNE. 4.2	SE. 20.5	NNE. 3.9	0.0	1.4	0.6	1.6	2.3	2.8	ditto forenoon 7 occasions, afternoon 14
August	200	N. 3.8	SE. 18.1	NE. 3.2	0.5	2.0	0.4	2.9	3.5	1.0	ditto forenoon 12 occasions, afternoon 14
September	170	NNE. 4.2	SE. 12.4	NE. 4.0	1.8	3.3	0.9	1.0	2.5	3.4	ditto forenoon 14 occasions, afternoon 23
October	129	N. 4.6	SE. 8.5	N. 4.1	4.0	5.0	0.0	1.5	1.6	1.6	ditto forenoon 17 occasions, afternoon 24
November	126	N. 5.4	SE. 7.5	N. 4.4	1.7	2.9	1.5	2.7	1.1	0.9	ditto forenoon 12 occasions, afternoon 19
December	154	NNE. 5.0	SE. 12.3	NNE. 4.7	2.1	3.2	0.7	2.6	1.4	1.1	ditto forenoon 11 occasions, afternoon 21
Means	185	NNE. 5.0	SE. 13.5	NE. 4.8	1.4	2.9	1.2	2.0	1.7	1.4	

TABLE (D). - Summary of Extremes of Instrumental Observations for each Month of the year, 1940.

Month.	Barometer.			Temperature (Fah.)		Surface Wind.			Greatest Velocity.		Relative Humidity, lowest.			Rainfall greatest in 24 hours.			
	Highest.	Date.	Lowest.	Date.	90° and above No. of days.	Below 70° No. of days.	Miles in 24 hours.			Miles per Hour.	Date.	7 a.m.		Date.			
							Greatest.	Least.	Date.			%	Date.		%	Date.	Amount (Ins.)
January	Ins. 30.047	28	Ins. 29.872	14	1	20	27	101	24	32	27	70	27	45	10	0.60	29
February	30.084	22	29.860	20	..	14	22	113	5	30	22	71	22	46	27	1.08	25
March	30.003	17	29.801	8	1	18	21	104	7	33	29	68	11	49	2	0.05	22
April	29.987	1	29.854	22	2	3	5	103	11	40	24	66	5	54	25	0.16	13*
May	30.014	5	29.797	20	1	2	31	88	7	24	31	69	28	59	23	0.27	5
June	29.992	30	29.863	20	15	..	1	127	8	30	1	57	12	46	12	0.09	21
July	30.042	10	29.908	7	23	..	3	120	11	36	29	63	9	46	14	0.97	24
August	29.995	7	29.852	28	24	..	8	110	23	30	20	70	19	50	6	0.22	20
September	29.927	24	29.806	27	14	..	8	98	1	33	25	75	24	58	14	1.14	28
October	29.928	29	29.781	9	11	..	1	76	23	24	1	76	17	54	16	0.96	8
November	29.968	29	29.779	6	10	4	27	87	10	24	24	78	27	45	12	0.61	18
December	30.005	19	29.762	25	11	6	27	70	23	36	2	79	19	43	3	1.84	22

The barometer readings are reduced to sea level, also corrected for diurnal variation.  
\* And on other days.

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