

JAMAICA.

DECEMBER 30, 1882.

No. 21.

WEATHER REPORT

FOR THE MONTH OF NOVEMBER,

1882.

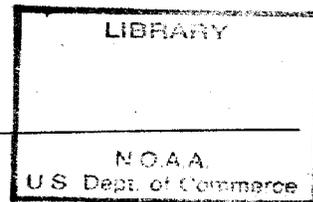
FROM THE JAMAICA GAZETTE.

December 28th, 1882.

WITH ADDITIONS AND CORRECTIONS.

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987
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W34
1882
[Nov.-Dec.]

Published by Authority.



JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1882.

National Oceanic and Atmospheric Administration
Climate Database Modernization Program

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March 28, 2002

METEOROLOGICAL RESULTS FOR NOVEMBER, 1882.

METEOROLOGICAL RESULTS FOR NOV., 1882.

NORTH EASTERN DIVISION.

KINGSTON:—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric pressure ...	29.983	29.914	29.994	29.964
Temperature of the air ...	73°.0	84°.7	73°.5	77°.1
Dew-point ...	67.6	70.3	67.5	68.5
Humidity ...	83	62	82	76
Maximum Temp. ...	...	...	...	86°.4
Minimum Temp. ...	...	...	...	69.9
Range of Temp. ...	...	...	...	16.5
Minimum Temp. on Grass ...	...	...	...	64.6
Direction of the Wind ...	...	...	...	S.S.E
Velocity of Wind in Miles per Hour ...	...	...	...	2.8
Percentage of Cloud ...	...	...	...	43

Total Rainfall -1.29 inches

Average Weather:—Fair; "norther" about middle of the month.

The highest temperature was 89°.3 recorded on the 2nd; the lowest was 65°.4 recorded on the 20th; the extreme range was therefore 23°.9. The lowest temperature on the grass was 58°.5 recorded on the 20th.

CINCHONA PLANTATION:—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric Pressure	7 a.m. ...	3 p.m. ...	11 p.m. ...	25.239
"	7 a.m. ...	3 p.m. ...	11 p.m. ...	25.211
Temperature of the air	7 a.m. ...	3 p.m. ...	11 p.m. ...	60°.0
"	7 a.m. ...	3 p.m. ...	11 p.m. ...	63.8
Dew-point	7 a.m. ...	3 p.m. ...	11 p.m. ...	55.9
"	7 a.m. ...	3 p.m. ...	11 p.m. ...	59.5
Maximum Temperature	...	...	...	67.0
Minimum Temperature	...	...	...	56.7
Range of Temperature	...	...	...	10.3
Direction of Wind	...	...	...	E.
Velocity of Wind in Miles per hour	...	...	...	3

NOTE—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32° that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two stations; their readings have all been corrected. The following are the elevations of these stations above the sea-level:—

Kingston (Rae Town)	5 feet
Cinchona Plantation	4850 "

At New Haven Gap (in the Blue Mountain Range, elevation about 5,600 feet) the mean maximum and minimum temperatures were 67°.3 and 51°.8 respectively.

At King's House (in the plains of Liguanea, elevated about 400 feet) the mean maximum and minimum temperatures were 87°.3 and 66°.4 respectively.

The under-ground Thermometer at the Cinchona Plantation, the bulb of which is 6 feet below the surface of the ground, indicated a temperature of 63°.5 from one reading taken in November.

THE RAINFALL FOR NOVEMBER, 1882.

The average November Rainfall, given in the second column for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica*; and, as there explained, it applies to the November Rainfall during the ten years from 1870 to 1879 inclusive.

NOVEMBER.

	1882.	Average.
	<i>In.</i>	<i>In.</i>
Morant Point L. H.	2.81	8.72
Hordley	4.60	...
Holland	4.40	...
Leith Hall	7.03	...
Potosi	...	...
Boston	6.58	...
Portland	12.24	...
Port Antonio	9.50	...
Spring Garden	8.29	...
Chepstow	11.39	...
Woodstock	8.77	13.66
Cinchona Plantation	14.93	...
St. Andrew	...	...
New Haven Gap	...	...
Belle Vue	15.18	...
Tweedside	2.28	...
Stony Hill	8.58	10.68
Castleton Gardens	8.70	...
St. Mary	...	...
Dover	3.57	9.82
Annotto Bay	7.50	...
Water Valley	9.93	...
Quebec	7.40	11.69
Port Maria	9.70	...
New Ramble	10.60	...
Gayle	...	...
Llanrumny	...	...
Goshen	...	...
Rio Hoe	4.34	...
St. Ann	5.40	7.59
Unity Valley	7.94	10.23
Albion	5.38	13.16
Bradfield	5.41	11.06
Drax Hall	11.17	...
Seville	15.90	...
Richmond Estate	10.43	...
Llandoverly	8.27	10.73
Mean	...	...

NORTHERN DIVISION.

NOVEMBER.

	1882.	Average.
	<i>In.</i>	<i>In.</i>
Lillyfield	13.57	...
Home Castle	6.50	...
Richmond Pen	4.58	...
Colohis Pen	6.35	...
Trelawny	9.13	...
Mahogany Hall	...	7.97
Hopewell	8.37	6.43
Brampton Bryan	6.14	6.61
Bryan Castle	10.17	...
Nightingale Grove	8.06	6.13
Braco	10.40	...
Arcadia	7.9	...
Harmony Hall	7.94	6.76
Lancaster	10.42	7.05
Vale Royal	...	...
Hyde Hall	...	...
Swanewick	14.94	...
Long Pond	9.87	...
Hyde	8.23	...
Georgia	6.66	6.10
Steelfield	5.70	...
Etingdon	...	...
Oxford	5.06	...
Cambridge	7.81	...
Spring	...	...
Lottery	6.67	4.93
Falmouth	4.52	4.93
Holland	3.67	...
Golden Grove	14.70	...
Fontabelle	5.10	...
Green Park	6.60	...

NORTHERN DIVISION, *continued.*

		NOVEMBER.	
		1882.	Average.
		In.	In.
Tilston	Trelawny	15.67	...
Orange Valley	...	5.55	5.24
Kent	...	5.42	...
Dundea	...	10.23	7.55
Gales Valley	...	13.10	4.73
Hampden	St. James	13.33	...
Greenwood	...	4.35	...
Lima	...	...	...
Content	...	...	4.54
Guilsbro'	...	6.90	...
Spring Vale	...	9.67	5.03
Latium	...	9.75	...
Salter's Hill	...	...	7.58
Success	...	2.80	4.96
Cinnamon Hill	...	1.94	...
Rose Hall	...	1.78	...
Running Gut	...	2.14	4.95
Tryall	...	1.80	...
Irwin	...	...	5.95
Ironshore	...	2.21	...
Providence	...	...	...
Catherine Hall	...	4.28	...
Catherine Mount	...	2.91	4.16
Fairfield	...	5.10	...
Mean		6.16	5.89

WEST CENTRAL DIVISION.

		NOVEMBER.	
		1882.	AVERAGE.
		In.	In.
Linstead	St. Catherine	2.40	...
Worthy Park	...	...	...
Lloyds	...	4.25	...
Chapelton	Clarendon	...	4.34
Pennants	...	...	...
Whitney	...	4.57	...
Cave Valley	St. Ann	7.15	5.26
Hanbury	Manchester	...	...
Mandeville	...	...	6.56
Marshall's Pen	...	5.10	...
Derry	...	...	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	2.66	...
Appleton	...	2.92	...
Maroon Town	St. James	7.13	...
Holland	St. Elizabeth	...	...
Y.S.	...	4.95	...
Ipswich	...	...	...
Kepp	...	3.50	...
Mount Charles	...	3.70	...
Mount Edgecombe	Westmoreland	0.87	...
Windsor Forest	...	...	...
Kew Park	...	2.00	...
Chester Castle	Hanover	1.95	...
Copae	...	6.88	...
Burnt Ground	...	...	...
Haughton Grove	...	3.02	...
Kempshot	St. James	6.23	...
Bandon	...	2.57	...
Anchovy	...	5.99	...
Wiltshire	...	6.58	...
Round Hill	Hanover	4.44	...
Cacoon Castle	...	6.48	...
Sod Hall Pen	...	...	...
Golden Grove	...	5.40	...
Tryall	...	3.30	...

WEST CENTRAL DIVISION, *continued.*

		NOVEMBER.	
		1882.	Average.
		In.	In.
Carawina	Westmoreland	1.47	...
Sweet River	...	1.07	...
Paradise Pen	...	1.00	...
Roaring River	...	...	...
Fort William	...	2.09	...
Mackfield	...	1.18	...
Mesopotamia	...	...	...
Gornwall	...	1.20	...
Windsor (Sav.-la-Mar)	...	1.16	...
Fontabelle	...	0.36	...
Frome	...	0.52	...
Belle Isle	...	0.76	...
Retreat	...	2.22	...
Point	Hanover	...	...
Kew Estate	...	1.99	...
Haughton Court	...	1.24	...
Esher	...	...	...
Orange Cove	...	0.48	4.84
Prospect	...	...	...
Haughton Hall	...	1.03	...
Abingdon	...	0.87	...
Phoenix	...	1.57	...
Mean		3.02	5.25

SOUTHERN DIVISION.

		NOVEMBER.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	0.80	...
The Abbey	...	1.99	...
Halberstadt	St. Andrew	5.95	...
Hope Plantation	...	2.46	5.04
Cherry Garden	...	2.54	...
King's House	...	1.62	...
Monaltrie	...	1.10	5.71
Director of Roads' Office, Kingston	...	1.13	3.90
Palisadoes Plantation	...	2.35	...
Plumb Point L. H.	...	1.87	3.50
Spanish Town	St. Catherine	4.23	...
Windsor Park	...	2.07	...
Hog Hole Pen	...	3.72	...
Headworks, R. C. C.	...	4.99	...
Cedars	...	...	...
Lodge Estate	...	...	...
Roden Pen	...	2.14	...
Old Harbour	...	2.62	...
Halse Hall	Clarendon	1.49	...
Experiment	...	...	...
The Bog	...	...	...
Greenwich	...	...	...
Yarmouth	...	...	...
Deubigh	...	2.75	5.31
Farm Plantation	Manchester	1.63	...
Great Valley	...	...	...
Stones Hope	...	3.69	...
Pepper	St. Elizabeth	...	...
Long Hill	...	5.74	...
Gilmock Hall	...	...	...
Santa Cruz	...	4.73	...
Bloomsbury	...	3.58	...
Fullerswood Park	...	...	5.94
Industry	...	...	...
Black River	...	1.91	5.43
Hodges	...	2.29	...
Font Hill	...	...	...
Mean		2.78	4.89

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

	NOVEMBER.	
	1882.	Average.
North Eastern Division	In. 6.14	In. 10.73
Northern "	7.01	5.89
West Central "	4.26	5.25
Southern "	1.87	4.89
The Island	4.82	6.69

In the Northern Division the Rainfall was above the average for November, but it was very irregularly dis-

tributed, 15 inches falling at some places and less than 2 inches at others. In the other Divisions the Rainfall was below the average.

At the Plumb Point Lighthouse the upper gauge is 68 feet above the lower, these gauges registered 1.66 and 1.87 inches respectively.

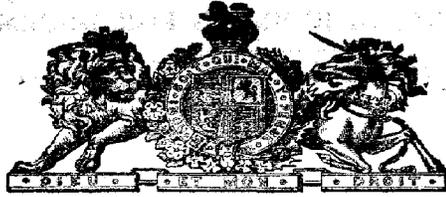
Kingston was healthy during the month of November, the death-rate being only 26.7 per thousand.

MAXWELL HALL.

Kempshot, Dec. 21st.

NOTE—It is requested that all Rainfall returns and other communication be addressed to me at Montego-Bay until further notice.

M. H.



JAMAICA.

FEBRUARY 6, 1883.

No. 22.

WEATHER REPORT

FOR THE MONTH OF DECEMBER,

1882.

FROM THE JAMAICA GAZETTE.

February 1st, 1883.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1883.

METEOROLOGICAL RESULTS FOR DECEMBER, 1882.

METEOROLOGICAL RESULTS FOR DEC. 1882.

KINGSTON :—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric pressure ...	30.021	29.947	30.025	29.998
Temperature of the air ...	72°.6	84°.1	73°.8	76°.8
Dew-point ...	67.1	71.6	68.5	69.1
Humidity ...	83	66	84	78
Maximum Temp. ...				86°.1
Minimum Temp. ...				70.9
Range of Temp. ...				15.2
Minimum Temp. on Grass ...				64.9
Direction of the Wind ...			S.E. by S.	
Velocity of Wind in Miles per Hour ...				3.5
Percentage of Cloud ...				49

Total Rainfall -0.35 inches.

Average Weather :—Fair and dry.

The highest temperature was 89°.6 recorded on the 10th ; the lowest was 67°.8 recorded on the 31st ; the extreme range was therefore 21°.8. The lowest temperature on the grass was 58°.0 recorded on the 31st.

CINCHONA PLANTATION :—

	7 a.m.	3 p.m.	Mean.
	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric Pressure ...	7 a.m. ...	3 p.m. ...	25.273
" " ...	3 p.m. ...	7 a.m. ...	25.289
Temperature of the air ...	7 a.m. ...	3 p.m. ...	60°.7
" " ...	3 p.m. ...	7 a.m. ...	63.9
Dew-point ...	7 a.m. ...	3 p.m. ...	...
" " ...	3 p.m. ...	7 a.m. ...	...
Maximum Temperature ...			67.4
Minimum Temperature ...			57.7
Range of Temperature ...			9.7
Temperature six feet under ground ...			63.5
Direction of Wind ...			E.
Velocity of Wind in Miles per hour ...			2.5

NOTE—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32° that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two stations ; their readings have all been corrected. The following are the elevations of these stations above the sea-level :—

Kingston (Rae Town) 5 feet

Cinchona Plantation 4850 "

At New Haven Gap (in the Blue Mountain Range, elevation about 5,600 feet) the mean maximum and minimum temperatures were 72°.2 and 53°.4 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 83°.6 and 68°.2 respectively.

THE RAINFALL FOR DECEMBER, 1882.

The average December Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the December Rainfall during the ten years from 1870 to 1879 inclusive

NORTH EASTERN DIVISION.

		DECEMBER.	
		1882.	Average.
		<i>In.</i>	<i>In.</i>
Morant Point L. H.	St. Thomas	4.29	6.78
Hordley	...	9.80	...
Holland	...	5.17	...
Leith Hall	...	...	...
Potosi	...	...	...
Boston	Portland	...	...
Port Antonio	...	8.67	...
Spring Garden	...	11.78	...
Chepstow	...	6.71	...
Woodstock	...	...	...
Cinchona Plantation	St. Andrew	9.61	13.83
New Haven Gap	...	26.36	...
Belle Vue	...	...	...
Tweedside	...	16.04	...
Stony Hill	...	4.32	...
Castleton Gardens	St. Mary	10.94	13.17
Dover	...	...	...
Annotto Bay	...	...	...
Water Valley	...	14.99	10.25
Quebec	...	...	...
Port Maria	...	10.45	...
New Ramble	...	9.02	10.58
Gayle	...	...	...
Llanrumny	...	...	...
Goshen	...	10.69	...
Rio Hoe	St. Ann	5.30	...
Unity Valley	...	4.53	10.74
Albion	...	8.20	8.07
Bradfield	...	9.43	10.91
Drax Hall	...	7.05	8.57
Seville	...	6.05	...
Richmond Estate	...	6.02	...
Llandoverly	...	5.52	...
	Mean	9.15	10.32

NORTHERN DIVISION.

		DECEMBER.	
		1882.	Average.
		<i>In.</i>	<i>In.</i>
Lillyfield	St. Ann	11.00	...
Home Castle	...	2.00	...
Richmond Pen	...	3.15	...
Colchis Pen	Trelawny	2.05	...
Mahogany Hall	...	...	...
Hopewell	...	3.39	9.75
Brampton Bryan	...	1.29	7.24
Bryan Castle	...	2.00	7.61
Nightingale Grove	...	1.34	...
Braco	...	1.97	7.20
Arcadia	...	1.52	...
Harmony Hall	...	1.87	...
Lancaster	...	2.07	7.57
Vale Royal	...	2.47	9.29
Hyde Hall	...	2.38	...
Swanswick	...	2.61	...
Long Pond	...	3.10	...
Hyde	...	4.11	...
Georgia	...	2.12	8.41
Steelfield	...	2.21	...
Etingdon	...	1.88	...
Oxford	...	1.97	...
Cambridge	...	2.40	...
Spring	...	2.09	...
Lottery	...	1.97	5.83
Falmouth	...	2.50	5.05
Holland	...	2.13	...
Golden Grove	...	2.00	...
Fontabelle	...	1.15	...
Green Park	...	1.46	...

NORTHERN DIVISION, continued.

		DECEMBER.	
		1882.	Average.
		In.	In.
Tilston	Trelawny	1.63	...
Orange Valley	...	1.67	6.99
Kent	...	1.91	...
Dundee	...	1.74	6.46
Gales Valley	...	2.50	5.60
Hampden	St. James	2.72	...
Greenwood	...	3.80	...
Lima	...	1.71	...
Content	...	1.51	6.95
Guildsbro'	...	2.50	...
Spring Vale	...	3.39	6.67
Latium	...	...	...
Salter's Hill	...	...	6.77
Success	...	1.67	3.86
Cinnamon Hill	...	...	...
Rose Hall	...	...	...
Running Gut	...	1.10	5.71
Tryall	...	1.15	...
Irwin	...	...	4.86
Ironshore	...	1.04	...
Providence	...	...	...
Catherine Hall	...	1.69	...
Catherine Mount	...	2.77	...
Fairfield	...	1.49	6.74
Mean		2.30	6.77

WEST CENTRAL DIVISION.

		DECEMBER.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	...	...
Worthy Park	...	...	...
Lloyds	...	3.41	...
Chapelton	Clarendon	...	3.09
Pennants	...	...	...
Whitney	...	...	...
Cave Valley	St. Ann	0.81	2.75
Hanbury	Manchester	...	...
Mandeville	...	...	3.84
Marshall's Pen	...	2.02	...
Derry	...	...	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	2.70	...
Appleton	...	5.01	...
Maroon Town	St. James	4.23	...
Holland	St. Elizabeth	2.02	...
Y.S.	...	...	...
Ipswich	...	...	...
Kepp	...	4.09	...
Mount Charles	...	2.45	...
Mount Edgecombe	Westmoreland	4.51	...
Windsor Forest	...	...	...
Kew Park	...	4.26	...
Chester Castle	Hanover	1.83	...
Copae	...	1.60	...
Burnt Ground	...	2.60	...
Haughton Grove	...	2.80	...
Kempshot	St. James	3.45	...
Bandon	...	2.63	...
Anchovy	...	2.62	...
Wiltshire	...	1.69	...
Round Hill	Hanover	1.90	...
Cocoon Castle	...	5.13	...
Sod Hall Pen	...	2.85	...
Golden Grove	...	4.33	...
Tryall	...	4.11	...

WEST CENTRAL DIVISION, continued.

		DECEMBER.	
		1882.	Average.
		In.	In.
Carawina	Westmoreland	2.41	...
Sweet River	...	2.07	...
Paradise Pen	...	1.05	...
Roaring River	...	...	...
Fort William	...	5.80	...
Mackfield	...	5.02	...
Cornwall	...	2.51	...
Windsor (Sav.-la-Mar)	...	1.01	...
Fontabelle	...	0.54	...
Frome	...	2.23	...
Belle Isle	...	2.16	...
Retreat	...	1.17	...
Point	Hanover	...	...
Kew Estate	...	2.54	...
Haughton Court	...	3.00	...
Esher	...	...	...
Orange Cove	...	3.01	4.06
Prospect	...	...	...
Haughton Hall	...	...	...
Abingdon	...	5.30	...
Phoenix	...	...	...
Mean		2.89	3.44

SOUTHERN DIVISION.

		DECEMBER.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	4.50	...
The Abbey	...	3.15	...
Halberstadt	St. Andrew	4.68	...
Hope Plantation	...	0.84	3.04
Cherry Gardens	...	1.30	...
King's House	...	0.24	...
Monaltrie	...	1.27	2.37
Director of Roads' Office, Kingston	...	0.38	2.33
Palisades Plantation	...	0.25	...
Plumb Point L. H.	...	0.47	1.57
Spanish Town	St. Catherine	...	...
Windsor Park	...	1.30	...
Hog Hole Pen	...	...	...
Headworks, R. C. C.	...	...	...
Cedars	...	0.65	...
Lodge Estate	...	...	...
Roden Pen	...	1.33	...
Old Harbour	...	...	...
Halse Hall	Clarendon	0.87	...
Experiment	...	...	...
The Bog	...	0.15	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	...	2.00
Farm Plantation	Manchester	1.30	...
Great Valley	...	...	...
Stones Hope	...	1.33	...
Pepper	St. Elizabeth	...	...
Long Hill	...	1.85	...
Gilnock Hall	...	2.31	...
Santa Cruz	...	3.19	...
Bloomsbury	...	3.13	...
Fullerswood Park	...	...	2.41
Industry	...	...	...
Black River	...	3.13	2.29
Hodges	...	2.12	...
Font Hill	...	...	...
Mean		1.73	2.29

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

	DECEMBER.	
	1882. | Average.	
	In.	In.
North Eastern Division	8.67	10.32
Northern "	2.04	6.77
West Central "	2.50?	3.44
Southern "	1.22	2.29
The Island	3.61	5.70

In the Weather Report for last month it was noticed that the Rainfall in the Northern Division was above the average; this month the Rainfall in that division was decidedly below the average; and generally the Rainfall over the island was but small, excepting a few places in the North Eastern Division. A most remarkable fall occurred at Newhaven Gap in the Blue Mountain Range, where more than 26 inches were registered. With reference to this fall Mr. Morris writes me:—

"At Newhaven Gap the Rainfall for December was 26.36 inches, being an excess of 16.75 inches over the Rainfall at the Cinchona Plantation station. As these stations are only distant about two miles in a direct line, the difference in the Rainfall is very remarkable."

At the Plumb Point Lighthouse the upper gauge is 68 feet above the lower; these gauges registered 0.26 in. and 0.47 in. respectively.

Kingston was healthy during the month of December, and, excepting eight deaths from Diarrhoea, the Registrar's returns do not show that the people suffered from exposure after the great fire in Kingston.

The weather in Kingston had been exceedingly dry before the great fire, as the following rainfall notes will show:—

Kingston.	Rainfall.
	Inches.
1882 Nov. 5th	0.26
" " 6th	0.90
" " 26th	0.08
" " 30th	0.05
" Dec. 2nd	0.04
" " 9th	0.03

so that it may be said that no rain had fallen in Kingston for more than a month before the great fire on the 11th, and the shingle roofs were consequently only too ready to take fire from the showers of sparks and burning fragments of wood which were blown by the wind in the first instance from Feurtado's timber wharf, the place where the fire commenced.

The following record of the direction and strength of the wind during the conflagration may be interesting, if not useful; it is taken from the self-registering wind instrument (Osler's Anemometer) placed on the roof of the Colonial Secretary's Office; but I have been informed that the gusts of wind nearer the scene of conflagration were still greater than this record shows:—

GREAT FIRE IN KINGSTON.
Direction and Velocity of the Wind.

1882.		Miles per hour.
December 11th	10 a.m. S.W. gentle	4
	11 a.m. E.S.E. gusts	10
	12 noon E. fresh	9
	1 p.m. E.S.E. do.	9 to 10
(Fire commenced)	2 p.m. E.S.E. do.	9 to 15
	3 p.m. E.S.E. do.	do.
(Strong gusts)	3.15 p.m. E.S.E. strong gusts	20 to 25
	4 p.m. E. fresh	10 to 12
	4:20 p.m. E,N.E. decreasing.	
(Change in direction)	5 p.m. N.E. do.	
	5.15 p.m. N. to N.N.W. light	2 to 3.

It continued to blow from this direction until 1.30 a.m. on the morning of the 12th and at an average rate of 5 miles an hour; and then it was calm. At 10 a.m. the sea-breeze set in again as usual from the E.S.E. at the rate of about 6 miles per hour.

A sharp shock of Earthquake was felt on the 25th at about 9 p.m. at The Abbey and at Halberstadt; another shock on the 27th was felt at The Abbey between 1 and 2 a.m.; and a third shock was felt in Kingston at 1.20 p.m., on the 27th.

The following are the Meteorological notes for the shock felt in Kingston; there is the usual drop in the Barometer at the time, and there is the usual falling-off in the wind, and again the usual clouding-over of the sky.

BAR. COR. AND REDUCED.		
		In.
24 hours before	...	30.056
16 "	...	30.041
8 "	...	30.019
At time of shock	...	29.995
8 hours after	...	30.018
16 "	...	29.994
24 "	...	29.973
Total miles of Wind.		
26th December	...	40
27th "	...	82
28th "	...	82
Temperature of Air:—		
26th Dec.	...	76.5
27th "	...	74.5
28th "	...	76.1

CLOUDS AND RAIN.		
	Cloud.	Rain.
	Per cent.	In.
26th Dec.	...	0.00
27th "	...	0.00
28th "	...	0.00

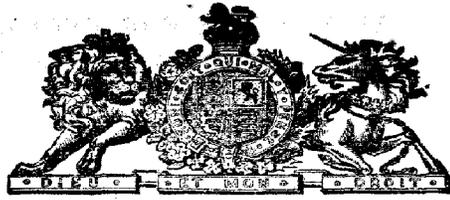
The wind was very light on the 27th until about an hour after the shock when the sea breeze commenced to blow about 12 or 13 miles per hour; after lasting about an hour and a half it lulled again.

MAXWELL HALL.

Kempshot, January 20th, 1883.

Note—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

FEBRUARY 6, 1883.

No. 22.

WEATHER REPORT

FOR THE MONTH OF DECEMBER,

1882.

FROM THE JAMAICA GAZETTE.

February 1st, 1883.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1883.

METEOROLOGICAL RESULTS FOR DECEMBER, 1882.

METEOROLOGICAL RESULTS FOR DEC., 1882.

KINGSTON :—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric pressure ...	30.021	29.947	30.025	29.998
Temperature of the air ...	72°.6	84°.1	73°.8	76°.8
Dew-point ...	67.1	71.6	68.5	69.1
Humidity ...	83	66	84	78
Maximum Temp. ...				86°.1
Minimum Temp. ...				70.9
Range of Temp. ...				15.2
Minimum Temp. on Grass ...				64.9
Direction of the Wind ...			S.E. by S.	
Velocity of Wind in Miles per Hour ...				3.5
Percentage of Cloud ...				40

Total Rainfall -0.35 inches.

Average Weather :—Fair and dry.

The highest temperature was 89°.6 recorded on the 10th ; the lowest was 67°.8 recorded on the 31st ; the extreme range was therefore 21°.8. The lowest temperature on the grass was 58°.0 recorded on the 31st.

CINCHONA PLANTATION :—

			<i>in.</i>
Barometric Pressure	7 a.m.	...	25.273
"	3 p.m.	...	25.289
Temperature of the air	7 a.m.	...	60°.7
"	3 p.m.	...	63.9
Dew-point	7 a.m.	...	...
"	3 p.m.	...	...
Maximum Temperature	...	...	67.4
Minimum Temperature	...	...	57.7
Range of Temperature	...	...	9.7
Temperature six feet under ground	...	...	63.5
Direction of Wind	...	...	E.
Velocity of Wind in Miles per hour	...	...	2.5

NOTE—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32° that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two stations ; their readings have all been corrected. The following are the elevations of these stations above the sea-level :—

Kingston (Rae Town)	5 feet
Cinchona Plantation	4850 "

At New Haven Gap (in the Blue Mountain Range, elevation about 5,600 feet) the mean maximum and minimum temperatures were 72°.2 and 53°.4 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 88°.6 and 68°.2 respectively.

THE RAINFALL FOR DECEMBER, 1882.

The average December Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the December Rainfall during the ten years from 1870 to 1879 inclusive

NORTH EASTERN DIVISION.

		DECEMBER.	
		1882.	Average.
		<i>in.</i>	<i>in.</i>
Morant Point L. H.	St. Thomas	4.29	6.78
Hordley	...	9.30	...
Holland	...	5.17	...
Leith Hall	...	...	...
Potosi	...	...	...
Boston	Portland	...	...
Port Antonio	...	8.67	...
Spring Garden	...	11.78	...
Chepstow	...	6.71	...
Woodstock	...	...	...
Cinchona Plantation	St. Andrew	9.61	13.83
New Haven Gap	...	26.36	...
Belle Vue	...	...	...
Twedside	...	16.04	...
Stony Hill	...	4.32	...
Castleton Gardens	St. Mary	10.94	13.17
Dover	...	...	...
Annotto Bay	...	...	...
Water Valley	...	14.99	10.25
Quebec	...	...	...
Port Maria	...	10.45	...
New Ramble	...	9.02	10.58
Gayle	...	...	...
Llanrumny	...	...	...
Goshen	...	10.69	...
Rio Hoe	St. Ann	5.30	...
Unity Valley	...	4.53	10.74
Albion	...	8.20	8.07
Bradfield	...	9.43	10.91
Drax Hall	...	7.05	8.57
Seville	...	6.05	...
Richmond Estate	...	6.02	...
Llandovery	...	5.52	...
	Mean	9.15	10.32

NORTHERN DIVISION.

		DECEMBER.	
		1882.	Average.
		<i>in.</i>	<i>in.</i>
Lillyfield	St. Ann	11.00	...
Home Castle	...	2.00	...
Richmond Pen	...	3.15	...
Colchis Pen	Trelawny	2.05	...
Mahogany Hall	...	...	...
Hopewell	...	3.39	9.75
Brampton Bryan	...	1.29	7.24
Bryan Castle	...	2.00	7.61
Nightingale Grove	...	1.34	...
Braco	...	1.97	7.20
Arcadia	...	1.52	...
Harmony Hall	...	1.87	...
Lancaster	...	2.07	7.57
Vale Royal	...	2.47	9.29
Hyde Hall	...	2.38	...
Swanswick	...	2.61	...
Long Pond	...	3.10	...
Hyde	...	4.11	...
Georgia	...	2.12	8.41
Steelfield	...	2.21	...
Etingdon	...	1.88	...
Oxford	...	1.97	...
Cambridge	...	2.40	...
Spring	...	2.09	...
Lottery	...	1.97	5.83
Falmouth	...	2.50	5.05
Holland	...	2.13	...
Golden Grove	...	2.00	...
Fontabelle	...	1.15	...
Green Park	...	1.46	...

NORTHERN DIVISION, *continued.*

		DECEMBER.	
		1882.	Average.
		In.	In.
Tilston	Trelawny	1.63	...
Orange Valley	...	1.57	6.99
Kent	...	1.91	...
Dundee	...	1.74	6.46
Gales Valley	...	2.50	5.60
Hampden	St. James	2.72	...
Greenwood	...	3.80	...
Lima	...	1.71	...
Content	...	1.51	6.95
Guilsbro'	...	2.50	...
Spring Vale	...	3.39	6.67
Latium	...	...	...
Salter's Hill	...	...	6.77
Success	...	1.67	3.86
Cinnamon Hill	...	...	...
Rose Hall	...	...	...
Running Gut	...	1.10	5.71
Tryall	...	1.15	...
Irwin	...	...	4.86
Ironshore	...	1.04	...
Providence	...	...	...
Catherine Hall	...	1.69	...
Catherine Mount	...	2.77	...
Fairfield	...	1.49	6.74
Mean		2.30	6.77

WEST CENTRAL DIVISION.

		DECEMBER.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	...	...
Worthy Park	...	...	...
Lloyds	...	3.41	...
Chapelton	Clarendon	...	3.09
Pennants	...	...	...
Whitney	...	...	...
Cave Valley	St. Ann	0.81	2.75
Hanbury	Manchester	...	...
Mandeville	...	...	3.84
Marshall's Pen	...	2.02	...
Derry	...	...	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	2.70	...
Appleton	...	5.01	...
Maroon Town	St. James	4.23	...
Holland	St. Elizabeth	2.02	...
Y.S.	...	...	...
Ipswich	...	...	...
Kepp	...	4.09	...
Mount Charles	...	2.45	...
Mount Edgecombe	Westmoreland	4.51	...
Windsor Forest	...	...	...
Kew Park	...	4.26	...
Chester Castle	Hanover	1.83	...
Copse	...	1.60	...
Burnt Ground	...	2.60	...
Haughton Grove	...	2.80	...
Kempshot	St. James	3.45	...
Bandon	...	2.63	...
Anchovy	...	2.62	...
Wiltshire	...	1.69	...
Round Hill	Hanover	1.90	...
Cocoon Castle	...	5.13	...
Sod Hall Pen	...	2.85	...
Golden Grove	...	4.33	...
Tryall	...	4.11	...

WEST CENTRAL DIVISION, *continued.*

		DECEMBER.	
		1882.	Average.
		In.	In.
Carawina	Westmoreland	2.41	...
Sweet River	...	2.07	...
Paradise Pen	...	1.05	...
Roaring River	...	...	...
Fort William	...	5.80	...
Mackfield	...	5.02	...
Cornwall	...	2.51	...
Windsor (Sav.-la-Mar)	...	1.01	...
Fontabelle	...	0.54	...
Frome	...	2.23	...
Belle Isle	...	2.16	...
Retreat	...	1.17	...
Point	Hanover	...	...
Kew Estate	...	2.54	...
Haughton Court	...	3.00	...
Esher	...	...	...
Orange Cove	...	3.01	4.06
Prospect	...	...	...
Haughton Hall	...	...	...
Abingdon	...	5.30	...
Phoenix	...	...	...
Mean		2.89	3.44

SOUTHERN DIVISION.

		DECEMBER.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	4.50	...
The Abbey	...	3.15	...
Halberstadt	St. Andrew	4.68	...
Hope Plantation	...	0.84	3.04
Cherry Gardens	...	1.30	...
King's House	...	0.24	...
Monaltrie	...	1.27	2.37
Director of Roads' Office, Kingston	...	0.38	2.33
Palisadoes Plantation	...	0.25	...
Plumb Point L. H.	...	0.47	1.57
Spanish Town	St. Catherine	...	...
Windsor Park	...	1.30	...
Hog Hole Pen	...	...	...
Headworks, R. C. C.	...	...	...
Cedars	...	0.65	...
Lodge Estate	...	...	...
Roden Pen	...	1.33	...
Old Harbour	...	...	...
Halse Hall	Clarendon	0.87	...
Experiment	...	...	...
The Bog	...	0.15	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	...	2.00
Farm Plantation	Manchester	1.30	...
Great Valley	...	...	...
Stones Hope	...	1.33	...
Pepper	St. Elizabeth	...	...
Long Hill	...	1.35	...
Gilnock Hall	...	2.31	...
Santa Cruz	...	3.19	...
Bloomsbury	...	3.13	...
Fullerswood Park	...	...	2.41
Industry	...	...	...
Black River	...	3.13	2.29
Hodges	...	2.12	...
Font Hill	...	...	...
Mean		1.73	2.29

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

	DECEMBER.	
	1882.	Average.
	In.	In.
North Eastern Division	8.67	10.22
Northern "	2.04	6.77
West Central "	2.50?	3.44
Southern "	1.22	2.29
The Island	3.61	5.70

In the Weather Report for last month it was noticed that the Rainfall in the Northern Division was above the average; this month the Rainfall in that division was decidedly below the average; and generally the Rainfall over the island was but small, excepting a few places in the North Eastern Division. A most remarkable fall occurred at Newhaven Gap in the Blue Mountain Range, where more than 26 inches were registered. With reference to this fall Mr. Morris writes me:—

"At Newhaven Gap the Rainfall for December was 26.36 inches, being an excess of 16.75 inches over the Rainfall at the Cinchona Plantation station. As these stations are only distant about two miles in a direct line, the difference in the Rainfall is very remarkable."

At the Plumb Point Lighthouse the upper gauge is 68 feet above the lower; these gauges registered 0.26 in. and 0.47 in. respectively.

Kingston was healthy during the month of December, and, excepting eight deaths from Diarrhoea, the Registrar's returns do not show that the people suffered from exposure after the great fire in Kingston.

The weather in Kingston had been exceedingly dry before the great fire, as the following rainfall notes will show:—

Kingston.	Rainfall.
	Inches.
1882 Nov. 5th	0.26
" " 6th	0.90
" " 26th	0.08
" " 30th	0.05
" Dec. 2nd	0.04
" " 9th	0.03

so that it may be said that no rain had fallen in Kingston for more than a month before the great fire on the 11th, and the shingle roofs were consequently only too ready to take fire from the showers of sparks and burning fragments of wood which were blown by the wind in the first instance from Feurtado's timber wharf, the place where the fire commenced.

The following record of the direction and strength of the wind during the conflagration may be interesting, if not useful; it is taken from the self-registering wind instrument (Osler's Anemometer) placed on the roof of the Colonial Secretary's Office; but I have been informed that the gusts of wind nearer the scene of conflagration were still greater than this record shows:—

GREAT FIRE IN KINGSTON.
Direction and Velocity of the Wind.

1882.		Miles per hour.
December 11th 10 a.m.	S.W. gentle	4
11 a.m.	E.S.E. gusts	10
12 noon	E. fresh	9
1 p.m.	E.S.E. do.	9 to 10
(Fire commenced) 2 p.m.	E.S.E. do.	9 to 15
3 p.m.	E.S.E. do.	do.
(Strong gusts) 3.15 p.m.	E.S.E. strong gusts	20 to 25
4 p.m.	E. fresh	10 to 12
4:20 p.m.	E,N,E. decreasing.	
(Change in direction) 5 p.m.	N.E. do.	
5.15 p.m.	N. to N.N.W. light	2 to 3.

It continued to blow from this direction until 1.30 a.m. on the morning of the 12th and at an average rate of 5 miles an hour; and then it was calm. At 10 a.m. the sea-breeze set in again as usual from the E.S.E. at the rate of about 6 miles per hour.

A sharp shock of Earthquake was felt on the 25th at about 9 p.m. at The Abbey and at Halberstadt; another shock on the 27th was felt at The Abbey between 1 and 2 a.m.; and a third shock was felt in Kingston at 1.20 p.m., on the 27th.

The following are the Meteorological notes for the shock felt in Kingston; there is the usual drop in the Barometer at the time, and there is the usual falling-off in the wind, and again the usual clouding-over of the sky.

BAR. COR. AND REDUCED.		
		In.
24 hours before	...	30.056
16 "	...	30.041
8 "	...	30.019
At time of shock	...	29.995
8 hours after	...	30.013
16 "	...	29.994
24 "	...	29.973

Total miles of Wind.		
26th December	...	40
27th "	...	82
28th "	...	82
Temperature of Air:—		
26th Dec.	...	76.5
27th "	...	74.5
28th "	...	76.1

CLOUDS AND RAIN.		
	Cloud.	Rain.
	Per cent.	In.
26th Dec.	60	0.00
27th "	17	0.00
28th "	100	0.00

The wind was very light on the 27th until about an hour after the shock when the sea breeze commenced to blow about 12 or 13 miles per hour; after lasting about an hour and a half it lulled again.

MAXWELL HALL.

Kempshot, January 20th, 1883.

NOTE—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.