

JAMAICA.

DECEMBER 10, 1886.

No. 72.

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1886.

QC
987
.J25
W34
1886
[Oct.-Dec.]

Published by Authority.

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

1886.

National Oceanic and Atmospheric Administration

Climate Database Modernization Program

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March 28, 2002

METEOROLOGICAL RESULTS FOR OCT., 1886.

KINGSTON :—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	in.	in.	in.	in.
Barometric pressure ...	29.947	29.882	29.952	29.927
Temperature of the air ...	76°.1	85°.3	75°.0	78°.8
Dew-point ...	71.8	73.0	71.2	72.0
Humidity ...	87	67	88	81
Maximum Temp. ...				92.4
Minimum Temp. ...				72.1
Range of Temp. ...				20.3
Direction of the Wind ...				S.E.
Velocity of the Wind in Miles per hour ...				1.8
Percentage of Cloud ...				56

Total Rainfall—3.90 inches.

Average Weather :—“ Seasons” first half of the month, fair afterwards.

The highest temperature was 96°.4 recorded on the 1st ; the lowest was 66°.0 recorded on the 17th : the extreme range was therefore 30°.4.

KING'S HOUSE :—

Temperature of the air 7 a.m. ...	74°.4
“ “ 3 p.m. ...	84.0
Dew-point 7 a.m. ...	69.7
“ “ 3 p.m. ...	73.2
Maximum Temperature ...	88.8
Minimum “ ...	70.4

The highest temperature was 91° recorded on the 6th and 8th ; the lowest was 66° recorded on the 17th ; the extreme range was therefore 25°.

CASTLETON GARDENS :—

Temperature of the air 7 a.m. ...	75°.2
“ “ 3 p.m. ...	82.4
Dew-point “ 7 a.m. ...	70.2
“ “ 3 p.m. ...	76.2
Maximum Temperature ...	84.9
Minimum “ ...	70.7

The highest temperature was 86° recorded on the 8th &c. ; the lowest was 69° recorded on the 10th ; the extreme range was therefore 17°.

CINCHONA PLANTATION :—

	In.
Barometric Pressure 7 a.m. ...	25.225
“ “ 3 p.m. ...	25.182
Temperature of the air 7 a.m. ...	62°.4
“ “ 3 p.m. ...	65.3
Dew-point ... 7 a.m. ...	57.6
“ “ 3 p.m. ...	63.4
Maximum Temperature ...	68.3
Minimum Temperature ...	57.4
Direction of the wind ...	E.
Velocity of Wind in Miles per hour ...	6.6
Temperature 6 feet below ground ...	63.5
Total Rainfall—14.48 inches.	

The highest temperature was 71°.6 recorded on the 30th ; the lowest was 54°.8 recorded on the 14th and 15th ; the extreme range was therefore 16°.8.

At New Haven Gap (elevation about 5,600 feet) the mean maximum and minimum temperatures were 74° and 53°7 respectively.

BLUE MOUNTAIN PEAK :—

The Maximum, Minimum, and Rainfall registered at any time refer to the interval since the preceding registration ; the Temperature of the air and the Weather were noted at the time of registration.

1886.	Hour.	Max.	Min.	Rain-fall.	Temp.	Min. on Erase.	Weather.	Observer.
Jan. 8	2 p.m.	74	48.5	0.15	60		Fine but cloudy.	FDM
“ 22	11.30 a.m.	73.5	39.5	15.83	54.5		Cold and cloudy.	“
“ 28	10 a.m.	73	38	6.64	56		Fine and warm.	“
Feb. 5	10.20 a.m.	74	49	1.42	51.5		Gusty and showery, wind N.N.E.	DM
“ 13	9.40 a.m.	68	37	7.32	58	80	A minimum Therm. was placed on the ground inside the inclosure and left.	“
“ 26	2 p.m.	63.5	48	6.10	56.5	39.5	Fine and clear on South—cloudy on Northside.	BSG
Mar. 14	9 a.m.	77	44	0.95	62	38	Cloudy and wet.	“
“ 28	9.30 a.m.	70	38	11.90	63		Clear.	WAO
April 9	9.30 a.m.	70	37	3.60	50		Cloudy.	“
“ 25	7.30 a.m.	68	50	7.30	55		Wet. N light.	“
May 15	8.30 a.m.	74	...	15.75	63		N light, clear.	“
June 5	11 a.m.	72	48	1.65	55		Bright and clear.	BSG
“ 28	4 p.m.	...	...	57.50	50		Wet. N light.	WAO
July 29	9 a.m.	75	...	8.72	60		Bright N fresh.	“
Aug. 12	9.30 a.m.	...	49	3.30	56		Cloudy N. light rain	“
“ 31	3.30 p.m.	...	47	44.50	55		Cloudy and wet	BSG
Oct. 9	3 p.m.	76.5	45	18.00	56.5		Cloudy and windy.	WAO
“ 17	9.30 a.m.	64	43.5	5.36	55.5		Cloudy, high	BSG
Nov. 3	2.0 p.m.	72	44	27.00	55		Cloudy and wet	BSG

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 all the above stations ; their readings have all been corrected. The following are the elevations of these stations above the sea-level :—

Kingston (Rae Town)	15 feet
King's House	400 “
Castleton Gardens	580 “
Cinchona Plantation	4,850 “
Blue Mountain Peak	7,335 “

THE HEALTH OF KINGSTON.

The following table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past :—

	OCTOBER.	
	1886.	Average.
Infantile diseases not otherwise specified	16	13
Lung diseases	17	12
Fever	13	5
Dysentery and Diarrhoea	3	3
Various	86	46
Total	135	79

Of the various, 25 were undescribed, and 45 were due to Small-pox.

RAINFALL FOR SEPTEMBER 1886.

The first columns contain all the Rainfall returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1883, as Nos. 31 and 33 of the present series of reports; and to an unpublished supplementary Table of the average Rainfall at certain places where gauges have been registered for at least five years. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall returns:—

NORTH-EASTERN DIVISION.		OCTOBER.	
		1886. | Average.	
		In.	In.
Morant Point L. H.	St. Thomas	12.57	13.40
Hordley	...	21.33	14.55
Holland	...	...	...
Elmwood (Long Bay)	Portland	24.45	...
Boston	...	...	...
Port Antonio	...	24.25	...
Cinchona Plantation,	St. Andrew	14.48	20.58
New Haven Gap*	...	7.74	...
Newton	...	9.37	...
Stony Hill Reformatory	...	5.08	15.60
Castleton Gardens	St. Mary	11.29	12.49
Dover	...	9.90	...
Quebec	...	8.41	...
Port Maria	...	9.45	...
New Ramble	...	7.11	7.08
Gayle	...	8.20	13.98
Rio Hoe	St. Ann	5.86	13.07
Unity Valley	...	10.28	7.85
Albion	...	9.33	7.38
Averham Park	...	4.86	...
Bradfield	...	9.74	7.67
Drax Hall	...	5.95	7.30
Seville	...	4.55	6.86
Richmond Estate	...	8.47	9.28
Llandovery	...	8.30	8.17
Means		9.50	11.02

NORTHERN DIVISION.		OCTOBER.	
		1886. | Average.	
		In.	In.
Lillyfield	St. Ann	9.04	9.76
Home Castle	...	6.85	...
Richmond Pen	...	8.20	...
Colchia Pen	Trelawny	5.25	...
Mahogany Hall	...	7.85	5.02
Hopewell	...	6.88	6.98
Brampton Bryan	...	4.34	5.23
Bryan Castle	...	5.12	5.18
Braco	...	7.66	4.81
Arcadia	...	6.37	...
Harmony Hall	...	4.31	4.14
Lancaster	...	7.52	5.16
Duncans	...	5.30	...
Vale Royal	...	7.21	5.91
Hyde	...	8.58	7.59
Georgia	...	5.72	5.29
Steelfield	...	7.41	5.98
Oxford	...	7.38	...
Cambridge	...	8.40	4.86
Spring	...	7.41	5.21
Lottery	...	7.72	6.12
Holland Pen	...	5.62	...

*Up to the 15th only.

		OCTOBER.	
		1886. | Average.	
NORTHERN DIVISION, contd.			
Golden Grove	Trelawny	5.90	6.66
Fontabelle	...	8.18	...
Pembroke	...	7.72	5.17
Green Park	...	5.53	5.95
Phoenix	...	6.97	...
Tilston	...	6.04	6.69
Orange Valley	...	6.28	5.31
Kent	...	7.06	5.65
Dundee	...	6.20	5.70
Weston Faval	...	5.86	...
Gale's Valley	...	6.80	7.43
Greenwood	St. James	6.30	...
Guilbro'	...	4.90	...
Spring Vale	...	9.06	8.62
Latium	...	8.38	9.52
Cinnamon Hill	...	5.10	...
Rose Hall	...	5.05	...
Running Gut	...	5.09	5.63
Irwin	...	...	...
Leogan	...	4.83	...
Ironshore	...	4.02	5.25
Providence	...	4.89	...
Montego Bay (Market)	...	6.50	...
Catherine Hall	...	5.75	6.73
Catherine Mount	...	5.33	7.67
Fairfield	...	3.96	...
Means		6.72	6.16

		OCTOBER.	
		1886. | Average.	
		In.	In.
WEST CENTRAL DIVISION.			
Linstead	St. Catherine	7.94	9.16
Cave Valley	St. Ann	16.15	10.41
Barton Isles	St. Elizabeth	8.43	...
Appleton	...	7.37	12.10
Windsor Pen	Trelawny	5.41	...
Maroon Town	St. James	6.33	...
Holland	St. Elizabeth	...	...
Kepp	...	10.36	11.30
Mount Charles	...	...	...
Mount Edgewcombe	Westmoreland	8.40	8.93
Woodstock	...	7.00	...
Struie	...	6.18	...
Kew Park	...	8.68	...
Hermitage	...	...	...
Chester Castle	Hanover	5.57	...
Copae	...	6.30	10.94
Haughton Grove	...	6.08	...
Kempshat	St. James	4.13	...
Anchovy	...	5.59	7.13
Wiltshire	...	3.86	7.90
Eden	...	6.40	...
Round Hill	Hanover	2.85	5.45
Cacoon Castle	...	6.89	8.11
Golden Grove	...	6.88	9.74
Great Valley Pen	...	5.85	...
Tryall	...	5.95	6.85
Sweet River	Westmoreland	5.59	...
Mackfield	...	5.88	...
Windsor (Sav.-la-Mar)	...	6.06	8.42
Blackheath	...	4.62	...
Fontabelle	...	6.04	...
Belle Isle	...	3.90	...
King's Valley	...	8.86	...
Haughton Court	Hanover	...	...
Orange Cove	...	5.34	9.06
Abingdon	...	8.79	...
Means		7.17	8.97

SOUTHERN DIVISION.

OCTOBER.

		1886. | Average.	
		In.	In.
Albion Hospital	St. Thomas	6.87	...
The Abbey	...	11.75	...
Halberstadt	St. Andrew	9.39	...
Hope Plantation	...	6.08	...
Cherry Garden	...	6.11	...
King's House	...	3.98	12.19
Monaltrie	...	5.78	11.64
Public Works Office	Kingston	4.84	10.23
Franklyn Town	...	4.75	...
Rae Town	...	3.90	...
Palisadoes Plantation	...	3.54	12.56
Plumb Point L. H.	...	3.98	9.96
Spanish Town	St. Catherine	7.62	8.52
Windsor Park	...	7.00	...
Hog Hole Pen	...	8.35	8.09
Headworks, R. C. C.	...	8.86	10.24
Old Harbour	...	11.29	...
Springfield	Clarendon	15.14	...
Farm Plantation	Manchester	17.53	14.32
Stone's Hope	...	15.21	...
Pepper	St. Elizabeth	13.87	10.07
Long Hill	...	16.40	8.85
Potsdam	...	11.08	...
Gilbert Hall	...	12.11	...
Santa Cruz (Poor House)	...	6.55	...
Black River	...	12.08	9.32
Bloomsbury	...	9.08	...
Hodges	...	...	...
Means		8.90	10.50

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 2.99 and 3.98 inches respectively.

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

		OCTOBER.	
		1886. | Average.	
		In.	In.
North Eastern Division		9.50	11.02
Northern	"	6.72	6.15
West Central	"	7.17	8.97
Southern	"	8.90	10.50
The Island		8.07	9.16

The largest fall, namely, 24 inches, was recorded at Elmwood and Port Antonio; and the smallest 2.85 was recorded at Round Hill, Hanover.

In the last Report for Sept. a few remarks were made respecting Depression No. 6 and the October "Seasons"; there was no further depression worth recording, and the weather becoming finer and drier gave every indication of abundant Sugar-crops, which the more recent weather in Nov. has fully confirmed.

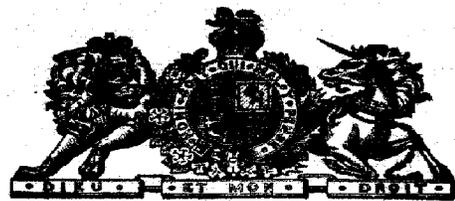
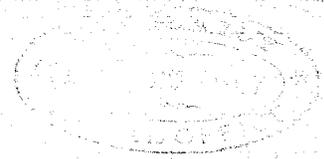
ISLAND RAINFALL.

	Forecast.	Rainfall recorded.	Average Rainfall.
	In.	In.	In.
1886—January	3.00	4.56	4.28
February	1.50	4.52	2.65
March	4.00	2.56	3.23
April	3.00	6.48	3.60
May	12.00	4.36	8.62
June	5.00	23.42	5.47
July	9.00	5.26	4.08
August	7.50	12.39	6.96
September	...	5.36	6.81
October	...	8.07	9.16
		77.00	54.84

Kempshot Observatory,
26th November, 1886.

MAXWELL HALL.

17R.



JAMAICA.

DECEMBER 31, 1886.

No. 73.

WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1886.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1886.

METEOROLOGICAL RESULTS FOR NOV., 1886.

KINGSTON :—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	in.	in.	in.	in.
Barometric pressure ...	30.015	29.936	30.013	29.988
Temperature of the air ...	74° 1	85° 4	73° 0	77° 5
Dew-point ...	69.3	70.9	68.2	69° 5
Humidity ...	85	62	85	77
Maximum Temp. ...				91.9
Minimum Temp. ...				69.5
Range of Temp. ...				22.4
Direction of the Wind ...				Var.
Velocity of the Wind in Miles per hour ...				1.7
Percentage of Cloud ...				30

Total Rainfall—0.05 inches.

Average Weather :—Fair.

The highest temperature was 95° 8 recorded on the 3rd and the lowest was 63° 8 recorded on the 29th; the extreme range was therefore 32° 0.

KING'S HOUSE :—

Temperature of the air 7 a.m. ...	71° 9
" " 3 p.m. ...	85.0
Dew-point 7 a.m. ...	66.6
" " 3 p.m. ...	72.3
Maximum Temperature ...	88.2
Minimum " ...	67.2

The highest temperature was 91° recorded on the 19th &c.; the lowest was 61° recorded on the 24th; the extreme range was therefore 30°.

CASTLETON GARDENS :—

Temperature of the air 7 a.m. ...	72° 4
" " 3 p.m. ...	78.6
Dew-point " 7 a.m. ...	66.5
" " 3 p.m. ...	69.0
Maximum Temperature ...	80.7
Minimum " ...	70.4

The highest temperature was 86° recorded on the 6th; the lowest was 62° recorded on the 30th; the extreme range was therefore 24°.

CINCHONA PLANTATION :—

	In.
Barometric Pressure 7 a.m. ...	25.265
" " 3 p.m. ...	25.234
Temperature of the air 7 a.m. ...	61.1
" " 3 p.m. ...	64.7
Dew point ... 7 a.m. ...	56.0
" " " 3 p.m. ...	59.7
Maximum Temperature ...	67.9
Minimum Temperature ...	55.7
Direction of the wind ...	E.
Velocity of Wind in Miles per hour ...	5.0
Temperature 6 feet below ground ...	62.7

The highest temperature was 70° 6 recorded on the 23rd; the lowest was 50° 8 recorded on the 29th; the extreme range was therefore 19° 8.

At New Haven Gap (elevation about 5,600 feet) the mean maximum and minimum temperatures were 73° 7 and 51° 5 respectively.

BLUE MOUNTAIN PEAK :—

The Maximum, Minimum, and Rainfall registered at any time refer to the interval since the preceding re-

gistration; the Temperature of the air and the Weather were noted at the time of registration.

1886.	Hour.	Max.	Min.	Rain-fall.	Temp.	Min. on grass.	Weather.	Observer.
Jan. 8	2 p.m.	74	48.5	in.	60	0	Fine but cloudy.	FDM
" 22	11.30 a.m.	73.5	39.5	18.88	54.5		Cold and cloudy.	"
" 28	10 a.m.	73	38	6.64	56		Fine and warm.	"
Feb. 5	10.20 a.m.	74	49	1.42	51.5		Gusty and showery, wind N.N.E.	DM
							A minimum Therm. was placed on the ground inside the inclosure and left.	
" 13	9.40 a.m.	68	37	7.32	58	30	Fine and clear on South—cloudy on Northside.	BSG
" 26	2 p.m.	63.5	43	6.10	56.5	39.6	Cloudy and wet.	"
Mar. 14	9 a.m.	77	44	0.95	62	38	Clear.	"
" 28	9.30 a.m.	70	38	11.90	68		Cloudy.	WAC
April 9	9.30 a.m.	70	37	3.60	60		Wet; N light.	"
" 25	7.30 a.m.	68	50	7.30	55		N light, clear.	"
May 15	8.30 a.m.	74		15.75	63		Bright and clear.	BSG
June 5	11 a.m.	72	48	1.65	55		Wet; N light.	WAC
" 28	4 p.m.			57.50	50		Bright N fresh.	"
July 29	9 a.m.	75		8.72	50		Cloudy N. light rain.	"
Aug. 12	9.30 a.m.		49	3.30	56		Cloudy and wet.	BSG
" 31	3.30 p.m.		47	44.50	53		Cloudy and windy.	WAC
Oct. 9	3 p.m.	76.5	45	18.00	56.5		Cloudy, high wind.	BSG
" 17	9.30 a.m.	64	43.5	5.36	55.5		Cloudy.	"
Nov. 3	2.0 p.m.	72	44	27.00	55		Wet and cloudy.	BSG

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 all the above stations; their readings have all been corrected. The following are the elevations of these stations above the sea-level :—

Kingston (Rae Town)	15 feet
King's House	400 "
Castleton Gardens	580 "
Cinchona Plantation	4,850 "
Blue Mountain Peak	7,335 "

THE HEALTH OF KINGSTON.

The following table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past :—

	NOVEMBER.	
	1886.	Average.
Infantile diseases not otherwise specified	24	14
Lung diseases	17	14
Fever	19	8
Dysentery and Diarrhoea	5	3
Various	100	55
Total	165	94

Of the various, 20 were undescribed, and 51 were due to Small-pox.

RAINFALL FOR NOVEMBER 1886.

The first columns contain all the Rainfall returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1883, as Nos. 31 and 33 of the present series of reports; and to an unpublished supplementary Table of the aver-

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NORTH-EASTERN DIVISION.		NOVEMBER.	
		1886. Average.	
		In.	In.
Morant Point L. H.	St. Thomas	1.24	8.72
Hordley	...	6.02	10.19
Holland	...	...	...
Elmwood (Long Bay)	Portland	8.06	...
Boston	...	8.86	...
Port Antonio	...	12.73	...
Cinchona Plantation,	St. Andrew	11.07	13.66
New Haven Gap	...	11.53	...
Newton	...	5.55	...
Stony Hill Reformatory	...	7.68	8.65
Castleton Gardens	St. Mary	11.28	10.68
Dover	...	8.79	...
Quebec	...	7.44	...
Port Maria	...	6.87	...
New Ramble	...	7.32	11.69
Gayle	...	...	...
Rio Hoe	St. Ann	8.44	8.83
Unity Valley	...	8.94	7.59
Albion	...	7.80	10.23
Averham Park	...	6.37	...
Bradfield	...	...	...
Drax Hall	...	8.62	11.06
Seville	...	7.34	9.31
Richmond Estate	...	5.05	8.45
Llandoverly	...	5.09	7.51
Means		7.38	9.74

NORTHERN DIVISION.		NOVEMBER.	
		1886. | Average	
		In.	In.
Lillyfield*	St. Ann	12.64	10.23
Home Castle	...	3.07	...
Richmond Pen	...	2.60	...
Colchis Pen	Trelawny	1.87	...
Mahogany Hall	...	4.40	4.19
Hopewell	...	3.98	7.97
Brampton Bryan	...	2.13	6.43
Bryan Castle	...	3.58	6.61
Braco	...	3.13	6.13
Arcadia	...	4.39	...
Harmony Hall	...	...	...
Lancaster	...	3.73	6.76
Duncans	...	1.45	...
Vale Royal	...	3.98	7.05
Hyde	...	3.02	7.52
Georgia	...	2.77	6.10
Steelfield	...	3.00	5.74
Oxford	...	3.20	...
Cambridge	...	2.10	4.64
Spring	...	2.61	4.03
Lottery	...	2.03	4.93
Falmouth	...	...	...
Holland Pen	...	1.52	...
Golden Grove	...	1.60	3.71
Fontabelle	...	1.90	...
Pembroke	...	1.70	5.29
Green Park	...	1.85	6.15
Phoenix	...	2.70	...
Tilston	...	1.98	5.04

*Gauge overflowed on the 11th.

		NOVEMBER.	
		1886. | Average.	
NORTHERN DIVISION, contd.			
Orange Valley	...	1.85	5.24
Kent	...	1.75	4.00
Dundee	Trelawny	1.56	7.55
Weston Favel	...	2.60	...
Gale's Valley	...	2.60	4.73
Greenwood	St. James	1.56	...
Guilbro'	...	2.30	...
Spring Vale	...	2.94	5.03
Latium	...	3.42	5.41
Cinnamon Hill	...	1.99	...
Rose Hall	...	2.20	...
Running Gut	...	1.31	...
Irwin	...	3.77	5.95
Leogan	...	2.68	...
Ironshore	...	1.97	3.20
Providence	...	2.38	...
Montego Bay (Market)	...	1.19	...
Catherine Hall	...	1.98	3.40
Catherine Mount	...	2.71	4.16
Fairfield	...	2.14	...
Means		3.02	5.68
WEST CENTRAL DIVISION.			
		NOVEMBER.	
		1886. | Average.	
		In.	In.
Linstead	St. Catherine	3.15	4.89
Cave Valley	St. Ann	4.69	5.26
Barton Isles	St. Elizabeth	3.19	...
Appleton	...	1.38	6.02
Windsor Pen	Trelawny	3.40	...
Maroon Town	St. James	...	...
Holland	St. Elizabeth	...	...
Kepp	...	4.62	5.93
Mount Charles	...	2.13	...
Mount Edgcombe	Westmoreland	1.91	4.72
Windsor Forest	...	2.22	...
Woodatock	...	1.60	...
Struie	...	1.35	...
Kew Park	...	0.68	...
Hermitage	...	...	...
Chester Castle	Hanover	0.54	...
Copae	...	0.50	7.61
Haughton Grove	...	1.50	...
Kempshot	St. James	2.58	...
Anchovy	...	2.05	3.77
Wiltshire	...	1.23	5.58
Eden	...	0.75	...
Round Hill	Hanover	2.67	3.50
Cacoon Castle	...	2.23	5.89
Golden Grove	...	1.62	5.89
Great Valley Pen	...	3.58	...
Tryall	...	1.61	3.64
Sweet River	Westmoreland	1.74	...
Mackfield	...	1.17	...
Windsor (Sav.-la-Mar)	...	1.47	4.52
Blackheath	...	1.32	...
Fontabelle	...	0.80	...
Belle Isle	...	0.85	...
King's Valley	...	...	...
Haughton Court	Hanover	...	...
Orange Cove	...	2.76	...
Abingdon	...	2.10	...
Means		2.25	5.17
SOUTHERN DIVISION.			
		NOVEMBER.	
		1886. | Average.	
		In.	In.
Albion Hospital	St. Thomas	0.63	...
The Abbey	...	...	...

SOUTHERN DIVISION, *contd.*

NOVEMBER.

		1886. | Average.	
		In.	In.
Halberstadt	St. Andrew	0.95	...
Hope Plantation	...	1.05	...
Cherry Garden	...	2.37	...
King's House	...	1.78	2.44
Monaltrie	...	0.96	5.71
Public Works Office	Kingston	0.27	3.90
Franklyn Town	...	0.12	...
Rae Town	...	0.05	...
Palisadoes Plantation	...	0.16	3.23
Plumb Point L. H.	...	0.06	3.50
Spanish Town	St. Catherine	2.65	2.56
Windsor Park	...	2.50	...
Hog Hole Pen	...	1.21	3.52
Headworks, R. C. C.	...	2.81	5.00
Old Harbour	...	2.38	...
Springfield	Clarendon	3.51	...
Farm Plantation	Manchester	3.44	5.40
Stone's Hope	...	5.11	...
Pepper	St. Elizabeth	4.64	5.09
Long Hill	...	4.93	3.83
Potsdam	...	2.86	...
Gilcock Hall	...	3.45	...
Santa Cruz (Poor House)	...	1.52	...
Black River	...	1.25	5.43
Bloomsbury	...	6.66	...
Hodges	...	...	...
Means		2.01	4.12

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 0.04 and 0.06 inches respectively.

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

		NOVEMBER.	
		1886. |	Average.
		In.	In.
North Eastern Division		7.38	9.74
Northern "		3.02	5.68
West Central "		2.25	5.17
Southern "		2.01	4.13
The Island		3.66	6.18

The largest fall, namely, 12.73 inches, was recorded at Port Antonio; and the smallest 0.05 was recorded at Rae Town, Kingston.

A slight shock of Earthquake was felt at Cinchona Plantation about 8.10 p.m. on the 3rd.

Another slight double shock was felt at Potsdam, Santa Cruz, Long Hill, and Windsor Pen (Trelawny) at 5.15 p.m. on the 10th.

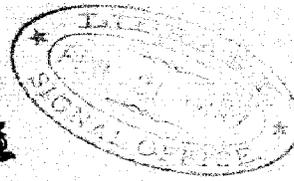
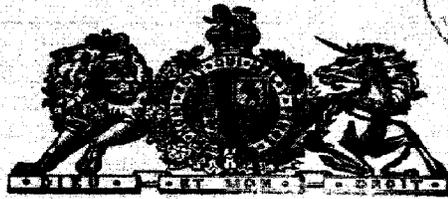
And at Potsdam two slight shocks were felt at 1.20 and 3.20 a.m. on the 15th.

ISLAND RAINFALL.

	Forecast.	Rainfall recorded.	Average Rainfall.
	In.	In.	In.
1886—January	3.00	4.56	4.28
February	1.50	4.52	2.65
March	4.00	2.56	3.23
April	3.00	6.48	3.60
May	12.00	4.38	8.62
June	5.00	23.42	5.47
July	9.00	5.26	4.06
August	7.50	12.39	6.96
September	...	5.36	6.81
October	...	3.07	9.16
November	...	3.66	6.18
		80.66	60.02

Kempshot Observatory,
22nd December, 1886.

MAXWELL HALL.



JAMAICA.

FEBRUARY 4, 1887.

No. 74.

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1886.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1887.

METEOROLOGICAL RESULTS FOR DEC., 1886.

KINGSTON:—

	7 a.m.	3 p.m.	11 p.m.	Mean.
	in.	in.	in.	in.
Barometric pressure ...	30.041	29.974	30.038	30.018
Temperature of the air ...	70° 7	82° 2	71° 5	74° 8
Dew-point ...	67.1	71.9	67.7	68.9
Humidity ...	89	71	88	83
Maximum Temp. ...				87.9
Minimum Temp. ...				67.9
Range of Temp. ...				20.0
Direction of the Wind ...				S.E.
Velocity of the Wind in Miles per hour ...				1.8
Percentage of Cloud ...				83

Total Rainfall—0.70 inches.

Average Weather:—Fair.

The highest temperature was 95° 8 recorded on the 3rd the lowest was 65° 0 recorded on the 23rd; the extreme range was therefore 30° 8.

KING'S HOUSE:—

Temperature of the air 7 a.m. ...	71° 9
" " 3 p.m. ...	85.0
Dew-point 7 a.m. ...	66.5
" " 3 p.m. ...	82.8
Maximum Temperature ...	87.9
Minimum " ...	66.5

The highest temperature was 90° recorded on the 3rd and 10th; the lowest was 63° recorded on the 23rd; the extreme range was therefore 27°.

CASTLETON GARDENS:—

Temperature of the air 7 a.m. ...	70° 9
" " 3 p.m. ...	74.8
Dew-point 7 a.m. ...	62.6
" " 3 p.m. ...	67.1
Maximum Temperature ...	78.5
Minimum " ...	70.0

The highest temperature was 85° recorded on the 24th; the lowest was 63° recorded on the 1st; the extreme range was therefore 22°.

CINCHONA PLANTATION:—

	In.
Barometric Pressure 7 a.m. ...	25.278
" " 3 p.m. ...	25.241
Temperature of the air 7 a.m. ...	59° 2
" " 3 p.m. ...	62.2
Dew-point 7 a.m. ...	54.7
" " 3 p.m. ...	59.3
Maximum Temperature ...	66.2
Minimum Temperature ...	54.8
Direction of the wind ...	E.
Velocity of the Wind in Miles per hour ...	4.6
Temperature 6 feet below ground ...	62.5
Total Rainfall—8.40 inches.	

The highest temperature was 69° 1 recorded on the 14th; the lowest was 52° 3 recorded on the 29th; the extreme range was therefore 16° 8.

BLUE MOUNTAIN PEAK:—

The Maximum, Minimum, and Rainfall registered at any time refer to the interval since the preceding registration; the Temperature of the air and the Weather were noted at the time of registration.

1886.	Hour.	Max.	Min.	Rain-fall.	Temp.	Min. on ground.	Weather.	Observer.
Jan. 8	2 p.m.	74	48.5	in. 0.15	60		Fine but cloudy.	FDM
" 22	11.30 a.m.	73.5	39.5	15.38	54.5		Cold and cloudy.	"
" 28	10 a.m.	73	38	6.64	56		Fine and warm.	"
Feb. 5	10.20 a.m.	74	49	1.42	51.5		Gusty and showery, wind N.N.E.	DM
" 13	9.40 a.m.	68	57	7.32	58	30	A minimum Therm. was placed on the ground inside the inclosure and left.	BSG
" 26	2 p.m.	63.5	43	6.10	56.5	39.5	Fine and clear on South—cloudy on Northside.	"
Mar. 14	9 a.m.	77	44	0.95	62	38	Cloudy and wet.	"
" 28	9.30 a.m.	70	38	11.90	63		Clear.	WAG
April 9	9.30 a.m.	70	37	3.60	50		Wet. N light.	"
" 26	7.30 a.m.	68	50	7.80	55		N light, clear.	"
May 15	8.30 a.m.	74		15.76	63		Bright and clear.	BSG
June 5	11 a.m.	72	48	1.65	55		Wet: N light.	WAG
" 28	4 p.m.			67.50	50		Bright N fresh.	"
July 29	9 a.m.	75		8.72	50		Cloudy N. light rain.	"
Aug. 12	9.30 a.m.		49	3.30	56		Cloudy and wet.	BSG
" 31	3.30 p.m.		47	44.50	55		Wet windy.	WAG
Oct. 9	3 p.m.	76.5	45	18.00	56.5		Cloudy, high wind.	BSG
" 17	9.30 a.m.	64	43.5	5.86	55.5		Cloudy.	"
Nov. 3	2.0 p.m.	72	44	27.00	55		Wet and Cloudy.	BSG
" 16	10.30 a.m.	72.5	43.3	11.64	55.5		Damp and Cloudy.	BSG
Dec. 18	2 p.m.	75.0	40.0	24.50	55		Heavy Fog.	BSG
" 30	7 a.m.	63	43.5	2.10	50		Misty: light wind.	*
Sum ...				281.28				
Mean ...		71.3	43.6					
Cor. add ...		0.9	1.5					
		72.2	44.8					

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 all the above stations; their readings have all been corrected. The following are the elevations of these stations above the sea-level:—

Kingston (Rae Town)	15 feet
King's House	400 "
Castleton Gardens	580 "
Cinchona Plantation	4,850 "
Blue Mountain Peak	7,335 "

THE HEALTH OF KINGSTON.

The following table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past:—

	1886.	Average.
Infantile diseases not otherwise specified	19	17
Lung diseases	4	14
Fever	20	10
Dysentery and Diarrhoea	11	5
Various	112	55
Total	166	101

Of the various, 26 were undescribed, and 53 were due to Small pox.

* These readings were taken by His Excellency Sir H. W. Norman.

RAINFALL FOR DECEMBER, 1886.

The first columns contain all the Rainfall returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1883, as Nos. 31 and 33 of the present series of reports; and to an unpublished supplementary Table of the average Rainfall at certain places where gauges have been registered for at least five years. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall returns:—

NORTH-EASTERN DIVISION.		DECEMBER.	
		1886. | Average.	
		In.	In.
Morant Point I. H.	St. Thomas	9.14	6.78
Hordley	...	14.50	8.57
Elmwood (Long Bay)	Portland	10.58	...
Boston	...	13.54	...
Port Antonio	...	13.52	...
Cinchona Plantation,	St. Andrew	8.40	13.83
New Haven Gap	...	...	...
Newton	...	6.35	...
Stony Hill Reformatory	...	6.80	3.71
Castleton Gardens	St. Mary	15.22	13.17
Dover	...	...	...
Quebec	...	4.62	...
Port Maria	...	4.12	...
New Ramble*	...	8.07	10.58
Gayle	...	...	...
Rio Hoe	St. Ann	3.09	11.49
Unity Valley	...	5.40	10.74
Albion	...	8.60	8.07
Averham Park	...	6.49	...
Bradfield	...	3.50	10.91
Drax Hall	...	8.84	8.57
Seville	...	6.17	8.10
Richmond Estate	...	6.43	7.14
Llandoverly	...	4.25	8.47
Means		7.67	9.30

NORTHERN DIVISION.		DECEMBER.	
		1886. | Average.	
		In.	In.
Lillyfield	St. Ann	10.25	13.61
Home Castle	...	6.49	...
Richmond Pen.	...	5.14	...
Colchis Pen.	Trelawny	3.42	...
Mahogany Hall	...	4.76	3.76
Hopewell	...	6.42	9.75
Brampton Bryan	...	...	...
Bryan Castle	...	...	...
Braco	...	5.44	7.20
Arcadia	...	7.42	...
Harmony Hall	...	5.93	7.24
Lancaster	...	6.41	7.57
Duncans	...	5.50	...
Vale Royal	...	3.09	9.29
Hyde	...	6.83	8.08
Georgia	...	8.11	8.41
Steelfield	...	7.27	7.99
Oxford	...	7.25	...
Cambridge	...	6.41	6.01
Spring	...	6.10	5.51
Lottery	...	6.42	5.83
Falmouth	...	...	...
Holland Pen	...	1.52	...

* Suffering greatly from ARHIS and CAPNODIUM.

		DECEMBER.	
		1886. | Average.	
NORTHERN DIVISION, contd.			
Golden Grove	Trelawny	10.60	5.33
Fontabelle	...	...	...
Pembroke	...	9.88	5.26
Green Park	...	7.87	5.87
Phoenix	...	8.14	...
Tilston	...	9.36	5.67
Orange Valley	...	7.38	6.99
Kent	...	5.15	4.67
Dundee	...	7.79	6.46
Weston Favel	...	6.40	...
Gale's Valley	...	11.03	5.60
Greenwood	St. James	4.60	...
Guildsbro'	...	6.80	...
Spring Vale	...	6.96	6.67
Latium	...	7.95	5.98
Cinnamon Hill	...	6.70	...
Rose Hall	...	6.50	...
Running Gut	...	6.00	5.71
Irwin	...	12.63	4.86
Leogan	...	7.05	...
Ironshore	...	11.00	3.18
Providence	...	8.66	...
Montego Bay (Market)	...	9.72	...
Catherine Hall	...	10.43	3.32
Catherine Mount	...	11.12	6.74
Fairfield	...	14.54	...
Means		7.98	6.52
WEST CENTRAL DIVISION.			
		DECEMBER.	
		1886. | Average.	
		In.	In.
Linstead	St. Catherine	4.75	2.44
Cave Valley	St. Ann	1.71	2.75
Barton Isles	St. Elizabeth	4.15	...
Appleton	...	4.76	3.34
Windsor Pen	Trelawny	8.70	...
Maroon Town	St. James	11.36	...
Holland	St. Elizabeth	...	...
Kepp	...	3.54	2.98
Mount Charles	...	2.84	...
Mount Edgecombe	Westmoreland	1.53	3.23
Windsor Forest	...	...	...
Woodstock	...	4.21	...
Struie	...	2.85	...
Kew Park	...	3.26	...
Hermitage	...	...	...
Chester Castle	Hanover	4.37	...
Copae	...	4.40	4.67
Haughton Grove	...	6.98	...
Kempshot	St. James	9.93	...
Anchovy	...	5.44	2.45
Wiltshire	...	9.15	2.81
Eden	...	4.70	...
Round Hill	Hanover	7.10	1.96
Caccoon Castle	...	5.33	6.76
Golden Grove	...	5.66	2.93
Great Valley Pen	...	6.50	...
Tryall	...	5.20	2.08
Sweet River	Westmoreland	2.01	...
Mackfield	...	3.69	...
Windsor (Sav.-la-Mar)	...	3.69	2.27
Blackheath	...	6.69	...
Fontabelle	...	5.11	...
Belle Isle	...	5.65	...
King's Valley	...	...	...
Kew Estate	Hanover	9.76	...
Haughton Court	...	8.90	...
Orange Cove	...	9.08	4.06
Abingdon	...	6.19	...
Means		5.10	3.20

SOUTHERN DIVISION. DECEMBER.

		1886. | Average.	
		In.	In.
Albion Hospital	St. Thomas	1.65	...
The Abbey	...	2.30	...
Halberstadt	St. Andrew	2.29	...
Hope Plantation	...	1.07	...
Cherry Garden	...	2.73	...
King's House	...	0.73	0.37
Monaltrie	...	0.98	2.37
Public Works Office	Kingston	0.48	2.33
Franklyn Town	...	1.11	...
Rae Town	...	0.70	...
Palisades Plantation	...	0.76	1.79
Plumb Point L. H.	...	0.80	1.57
Spanish Town	St. Catherine	1.20	1.66
Windsor Park	...	1.44	...
Hog Hole Pen	...	2.59	2.00
Headworks, R. C. C.	...	2.11	1.76
Old Harbour	...	1.99	...
Springfield	Clarendon	1.91	...
Farm Plantation	Manchester	3.45	2.46
Stone's Hope	...	1.43	...
Pepper	St. Elizabeth	3.33	1.90
Long Hill	...	2.16	3.40
Potsdam	...	1.12	...
Giln'ok Hall	...	3.06	...
Santa Cruz (Poor House)	...	4.30	...
Black River	...	1.97	2.29
Bloomsbury	...	3.44	...
Means		1.71	1.99

The largest fall, namely, 15.22 inches, was recorded at the Castleton Gardens; and the smallest, 0.48, was recorded at the Public Works Office, Kingston.

The 1886 Annual Rainfall Report is now on hand, at the N.E. end of the Island 212 inches fell but at the S.W. end (Windsor, Sweet River, &c.) only 59 or 60 inches were recorded.

ISLAND RAINFALL.

	Forecast.	Rainfall recorded.	Average Rainfall.
	In.	In.	In.
1886—January	3.00	4.56	4.23
February	1.50	4.52	2.65
March	4.00	2.56	3.23
April	3.00	6.48	3.60
May	12.00	4.38	8.62
June	5.00	23.42	5.47
July	9.00	5.26	4.06
August	7.50	12.39	6.96
September	...	5.36	6.81
October	...	8.07	9.16
November	...	3.66	6.18
December	...	5.62	5.25
Year	...	86.28	63.27

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 0.62 and 0.80 inches respectively.

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

		DECEMBER.	
		1886.	Average.
		In.	In.
North Eastern Division		7.67	9.30
Northern	"	7.98	6.52
West Central	"	5.10	3.20
Southern	"	1.71	1.99
The Island		5.62	5.25

From this Table it will be seen that the Rainfall in 1886 was above the average solely in consequence of the enormous Rainfall during June, the largest Monthly Rainfall on record.

The following Table will be of interest in connection with the present subject; it was formed by taking the mean of the results for each Division of the Island as published in Weather Reports Nos. 31, 20, 17, 58, and 71; the figures for 1886 are of course only approximate.

ISLAND RAINFALL FROM 1870 TO 1886.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
1870	3.99	4.34	3.10	2.79	17.38	3.58	4.32	5.72	8.05	16.74	12.50	6.90	80.41
1871	2.40	1.60	2.29	3.46	6.43	1.98	3.79	3.46	5.70	8.88	5.88	4.22	50.69
1872	3.00	2.84	3.06	2.06	5.18	2.42	2.89	5.24	4.55	8.09	3.13	4.73	45.19
1873	3.15	1.94	5.47	1.15	5.06	2.58	2.56	7.51	10.73	8.57	3.53	5.81	63.06
1874	3.44	2.20	0.61	4.40	10.64	3.96	2.51	9.65	6.82	11.69	10.52	2.49	68.93
1875	2.57	0.66	2.59	3.05	8.54	3.74	3.87	5.13	7.80	5.58	2.34	6.74	52.41
1876	6.00	0.96	1.63	4.68	8.24	5.40	8.15	5.06	5.19	11.36	8.96	5.72	71.35
1877	5.94	1.18	5.33	2.91	16.03	6.50	4.68	1.76	5.01	4.50	7.63	7.88	68.40
1878	6.35	2.80	2.78	0.70	4.86	6.63	5.85	10.80	7.43	11.29	7.32	9.61	76.42
1879	2.81	5.30	6.49	7.28	9.14	10.64	4.47	12.32	7.38	15.96	5.29	1.76	88.84
Means.	4.46	2.38	3.34	3.25	9.05	4.74	4.31	6.66	6.85	10.07	6.71	5.59	67.41
1880	4.36	0.96	1.10	2.77	11.00	3.09	3.86	9.58	3.97	4.00	2.21	7.94	55.44
1881	1.22	4.01	1.30	4.63	10.28	5.56	4.77	6.21	7.68	12.08	7.52	3.34	63.60
1882	2.92	1.93	3.54	3.32	8.22	2.33	3.76	4.80	8.78	8.96	5.36	3.96	57.87
1883	5.49	3.50	4.08	3.34	5.29	4.98	3.15	5.42	7.82	8.15	5.12	2.92	59.26
1884	4.72	3.44	2.51	1.85	6.72	6.89	2.52	5.06	6.23	9.52	5.00	2.44	56.90
1885	1.73	1.49	1.47	4.73	4.90	3.32	3.01	6.19	6.22	6.37	4.74	15.59	50.36
1886	4.56	4.52	2.56	6.48	4.38	23.42	5.26	12.39	5.36	8.07	3.66	5.62	86.28

Special

From the maximum of 1870 to the maximum of 1879 we have a period of 9 years; from the minimum of 1872 to the minimum of 1885 we have a period of 13 years; so that we may say that the Jamaica Rainfall is apparently affected by a period of about 11 years, as has been surmised for other parts of the Earth's surface. (See Jamaica Handbook 1881, p. 76.)

KINGSTON, JAMAICA—MEAN RESULTS FOR THE YEAR 1886.

Month.	Barometer : corrected and reduced to 32° and sea level.				Thermometers. (F.)						
	7 a.m.	3 p.m.	11 p.m.	Mean.	7 a.m.	3 p.m.	11 p.m.	Mean.	Max.	Min.	Diff.
	In.	In.	In.	In.	°	°	°	°	°	°	°
January	30.021	29.953	30.028	30.001	69.8	82.4	71.3	74.5	84.3	67.0	17.3
February	30.033	29.959	30.038	30.010	71.9	82.6	72.3	75.6	85.1	68.8	16.3
March	30.039	29.966	30.046	30.017	74.6	84.4	74.4	77.8	86.2	70.3	15.9
April	29.975	29.906	29.969	29.950	76.5	83.4	74.0	78.0	87.5	70.3	17.2
May	30.013	29.943	30.015	29.990	78.7	84.9	76.3	80.0	88.5	72.5	16.0
June	29.971	29.929	29.935	29.962	79.6	83.8	77.9	80.4	88.6	73.9	14.7
July	30.006	29.957	30.029	29.997	79.0	87.7	77.0	81.2	91.1	73.1	18.0
August	29.956	29.917	29.978	29.950	79.2	85.8	77.0	80.7	91.8	73.4	18.4
September	29.963	29.903	29.979	29.948	77.3	85.6	76.0	79.6	93.3	72.6	20.7
October	29.947	29.882	29.952	29.927	75.1	85.3	75.0	78.8	92.4	72.1	20.3
November	30.015	29.930	30.013	29.938	74.1	85.4	78.0	77.5	91.9	69.5	22.4
December	30.041	29.974	30.038	30.018	70.7	82.2	71.5	74.8	87.9	67.9	20.0
Means.	29.998	29.935	30.006	29.980	75.6	84.5	74.6	78.2	89.0	70.9	18.1

KINGSTON, JAMAICA—MEAN RESULTS FOR THE YEAR 1886, continued.

Month.	Wind		Dewpoint and Humidity.		Cloud per cent.	Rainfall.	Absolute Temperature.			Remarks.
	Direction (from)	Miles per hour.	°	%			Max.	Min.	Diff.	
January	S.E. by S.	2.0	66.7	78	39	Inches. 3.48	67.6	62.2	25.4	Fair.
February	S.E. by S.	2.4	67.8	78	39	1.03	60.5	65.0	25.5	Fair.
March	S.E. by S.	3.3	68.9	75	21	0.31	88.9	66.6	22.3	Fine.
April	Var.	2.4	68.7	76	44	4.14	92.1	65.7	26.4	Fair.
May	S.E.	2.9	71.5	76	71	5.23	93.1	67.6	25.5	"Seasons" first week—afterwards fair.
June	S.E. by E	5.3	73.5	82	64	32.07	93.8	70.0	23.8	Flood rains in early part of month—rotatory gale with heavy rains on 27th.
July	S.E. by E	3.7	72.5	76	68	2.10	94.7	69.5	25.2	Cloudy and unsettled with rain squalls from E.
August	S.E.	3.2	74.1	81	63	12.24	96.2	70.5	26.7	Disturbed. Cyclone on 19th and 20th.
September	S.E.	2.0	72.6	79	67	2.55	95.8	68.5	27.3	Fair—but calm and close.
October	S.E.	1.8	72.0	81	56	3.90	96.4	66.0	30.4	Seasons first half of month—fair afterwards.
November	Var.	1.7	69.5	77	30	0.05	95.8	63.8	32.0	Fair.
December	S.E.	1.8	68.9	83	48	0.70	95.8	65.0	30.8	Fair.
Total.						67.80				
Means.	S.E.	2.7	70.6	78	50		93.4	66.7	26.7	

ASTRONOMICAL NOTES.

Eclipses in the year 1887.

I.—A partial Eclipse of the Moon, Feb. 8th, visible in Jamaica.

Kingston Mean Time.

H. M.

First contact with Shadow 4 7.0 a.m.
Middle of Eclipse ... 5 14.9 "
Last contact with Shadow 6 22.8 "

The last contact occurs a few minutes before the Moon sets. At the middle of the Eclipse a little

less than one half of the Moon's disc will be obscured. The penumbral shadow will be seen about 18 minutes before the first contact.

II.—An annular Eclipse of the Sun, Feb. 22nd, invisible in Jamaica.

III.—A partial Eclipse of the Moon, Aug. 3rd, invisible in Jamaica.

IV.—A total Eclipse of the Sun, Aug. 19th, invisible in Jamaica.

Kempshot Observatory,
22nd January, 1887.

MAXWELL HALL.