



JAMAICA.

FEBRUARY 24, 1885.

No. 49.

WEATHER REPORT

FOR THE MONTH OF

JANUARY, 1885.

CC
987
.J25
W34
1885
[Jan-Sept]

Published by Authority.

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

1885.

National Oceanic and Atmospheric Administration
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METEOROLOGICAL RESULTS FOR JAN., 1885.

KINGSTON :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.097 | 30.022 | 30.103 | 30.074 |
| Temperature of the air ... | 70°·1 | 88°·0 | 72°·0 | 75°·0 |
| Dew-point ... | 65·3 | 70·6 | 66·4 | 67·4 |
| Humidity ... | 85 | 67 | 83 | 78 |
| Maximum Temp. ... | | | | 85°·4 |
| Minimum Temp. ... | | | | 67°·3 |
| Range of Temp. ... | | | | 18°·1 |
| Minimum Temp. on grass ... | | | | 59·1 |
| Direction of the Wind ... | | | | S.E. |
| Velocity of the Wind in Miles per hour ... | | | | 3·9 |
| Percentage of Cloud ... | | | | 29 |

Total Rainfall—0.11 inches.

Average Weather :—Fine and dry.—squally in middle of month.

The highest temperature was 89°·5 recorded on the 14th; the lowest was 61°·3 recorded on the 10th; the extreme range was therefore 28°·2; the lowest temperature on the grass was 54°·2 recorded on the 8th.

CINCHONA PLANTATION :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|------------------------------------|------------|--------|---------|--------|
| Barometric Pressure | 7 a.m. ... | ... | ... | 25·319 |
| " | 3 p.m. ... | ... | ... | 25·293 |
| Temperature of the air | 7 a.m. ... | ... | ... | 57°·5 |
| " | 3 p.m. ... | ... | ... | 62·7 |
| Dew-point | 7 a.m. ... | ... | ... | 53·0 |
| " | 3 p.m. ... | ... | ... | 58·4 |
| Maximum Temperature | ... | ... | ... | 66·8 |
| Minimum Temperature | ... | ... | ... | 52·6 |
| Minimum " on the grass | ... | ... | ... | 45·8 |
| Direction of the Wind | ... | ... | ... | E. |
| Velocity of Wind in Miles per hour | ... | ... | ... | 7·4 |
| Temperature 6 feet below ground | ... | ... | ... | 62°·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 | 4,850 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 64°·8. and 51°·3 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 86°·9 and 64°·6 respectively.

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 :—

| | 1885. | January. Average |
|--|-------|------------------|
| Infantile diseases not otherwise specified | 26 | 25 |
| Lung diseases | 18 | 19 |
| Fever | 21 | 5 |
| Dysentery and Diarrhoea | 12 | 7 |
| Various | 63 | 51 |
| Total | 140 | 107 |

The deaths from fever in November, were 8 above the average, in December 11, and in January 16; so that unless these cases of Fever have for the most part been imported from Colon, it would seem that Fever has taken a temporary hold of Kingston, in the same way that many diseases prevail for a time without any apparent reason or cause.

RAINFALL FOR JANUARY, 1885.

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. 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.

| | | JANUARY. | |
|------------------------|------------|----------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Morant Point L. H. | St. Thomas | 3·00 | 5·28 |
| Hordley | ... | 6·52 | ... |
| Holland | ... | 6·07 | ... |
| Elmwood (Long Bay) | Portland | 5·65 | ... |
| Boston | ... | 8·28 | ... |
| Port Antonio | ... | 5·19 | ... |
| Cinchona Plantation | St. Andrew | 2·17 | 10·60 |
| New Haven Gap | ... | 6·20 | ... |
| Newton | ... | 0·61 | ... |
| Tweedside | ... | ... | ... |
| Stony Hill Reformatory | ... | 0·73 | 4·82 |
| Castleton Gardens | St. Mary | 1·44 | 9·71 |
| Annotto Bay (Hospital) | ... | 5·05 | ... |
| Water Valley | ... | 3·87 | 10·72 |
| Quebec | ... | 3·88 | ... |
| Port Maria | ... | ... | ... |
| New Ramble | ... | 3·82 | 7·68 |
| Gospen | ... | 4·53 | ... |
| Rio Hoe | St. Ann | 1·51 | ... |
| Unity Valley | ... | 1·69 | 7·63 |
| Albion | ... | 1·79 | 6·15 |
| Bradfield | ... | 2·70 | 8·24 |
| Drax Hall | ... | 4·88 | 7·30 |
| Seville | ... | 3·70 | ... |
| Richmond Estate | ... | 4·32 | ... |
| Llandoverly | ... | 3·75 | ... |
| Means | | 2·60 | 7·81 |

NORTHERN DIVISION.

| | | JANUARY. | |
|--------------|---------|----------|----------|
| | | 1884. | Average. |
| | | In. | In. |
| Lillyfield | St. Ann | 3·95 | ... |
| Home Castle | ... | 0·90 | ... |
| Richmond Pen | ... | 0·60 | ... |

NORTHERN DIVISION, continued

| | | 1885 | |
|----------------------|-----------|------|------|
| | | In. | In. |
| Colchis Pen | Trelawny | 0.00 | ... |
| Mahogany Hall | ... | ... | ... |
| Hopewell | ... | 0.95 | 7.21 |
| Brampton Bryan | ... | 0.83 | 5.32 |
| Bryan Castle | ... | 1.16 | 5.31 |
| Nightingale Grove | ... | ... | ... |
| Braco | ... | 0.69 | 5.01 |
| Arcadia | ... | 0.30 | ... |
| Harmony Hall | ... | 1.15 | 4.32 |
| Lancaster | ... | 0.59 | 5.12 |
| Vale Royal | ... | 0.25 | 5.39 |
| Hyde | ... | 0.38 | 6.05 |
| Georgia | ... | 0.28 | 5.02 |
| Steelfield | ... | 0.52 | 5.03 |
| Oxford | ... | 0.20 | ... |
| Cambridge | ... | 0.37 | ... |
| Spring | ... | 0.70 | ... |
| Lottery | ... | 0.31 | 4.18 |
| Holland Pen | ... | 0.00 | ... |
| Golden Grove | ... | 0.00 | 4.43 |
| Fontabelle | ... | 0.65 | ... |
| Green Park | ... | 0.97 | 5.18 |
| Phoenix | ... | 0.74 | ... |
| Tilston | ... | 0.82 | 5.52 |
| Orange Valley | Trelawny | 1.54 | 4.79 |
| Kent | ... | 1.59 | ... |
| Dundee | ... | 2.12 | 5.81 |
| Gale's Valley | ... | 0.00 | 4.47 |
| Greenwood | St. James | 0.17 | ... |
| Guildbro' | ... | 1.10 | ... |
| Spring Vale | ... | 1.26 | 5.65 |
| Latium | ... | 2.37 | 5.10 |
| Cinnamon Hill | ... | 1.14 | ... |
| Rose Hall | ... | 1.35 | ... |
| Running Gut | ... | 1.51 | 3.78 |
| Tryall | ... | 0.98 | ... |
| Irwin | ... | ... | ... |
| Ironshore | ... | 4.55 | ... |
| Providence | ... | 4.83 | ... |
| Montego Bay (Market) | ... | 1.22 | ... |
| Catherine Hall | ... | 1.85 | ... |
| Catherine Mount | ... | 1.14 | 4.36 |
| Fairfield | ... | 0.67 | ... |
| Means | | 0.90 | 5.07 |

WEST CENTRAL DIVISION.

| | | JANUARY. | |
|---------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 0.00 | ... |
| Whitney | Clarendon | ... | ... |
| Cave Valley | St. Ann | 0.34 | 2.95 |
| Marshall's Pen | Manchester | 2.52 | 4.01 |
| Mandeville (Prison) | ... | 2.41 | 3.37 |
| Barton Isles | St. Elizabeth | 0.88 | ... |
| Appleton | ... | 0.96 | ... |
| Windsor Pen | Trelawny | 0.56 | ... |
| Maroon Town | St. James | 0.00 | ... |
| Holland | St. Elizabeth | 1.76 | ... |
| Kepp | ... | 2.16 | ... |
| Mount Charles | ... | 1.85 | ... |

WEST CENTRAL DIVISION, continued.

| | | JANUARY. | |
|-----------------------|--------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Mount Edgescombe | Westmoreland | 0.41 | ... |
| Woodstock | ... | 1.91 | ... |
| Kew Park | ... | 0.56 | ... |
| Hermitage | ... | 0.72 | ... |
| Chester Castle | Hanover | 0.56 | ... |
| Copae | ... | 0.90 | 3.99 |
| Laughton Grove | ... | 0.61 | ... |
| Kempshot | St. James | 2.58 | ... |
| Randon | ... | 0.50 | ... |
| Anchovy | ... | 0.10 | ... |
| Wiltshire | ... | 0.75 | ... |
| Eden | ... | 1.52 | ... |
| Round Hill | Hanover | 0.25 | ... |
| Cacoon Castle | ... | 0.38 | 4.87 |
| Golden Grove | ... | 0.45 | ... |
| Tryall | ... | 0.53 | 2.13 |
| Sweet River | Westmoreland | 1.76 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 1.70 | ... |
| Mackfield | ... | ... | ... |
| Windsor (Sav.-la-Mar) | ... | 2.59 | 1.89 |
| Fontabelle | ... | 1.02 | ... |
| Haughton Court | Hanover | 1.78 | ... |
| Orange Cove | ... | 1.32 | 3.96 |
| Abington | ... | 1.13 | ... |
| Retreat | ... | 0.51 | ... |
| Means | | 1.37 | 3.40 |

SOUTHERN DIVISION.

| | | JANUARY. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Allion Hospital | St. Thomas | 1.02 | ... |
| The Abbey | ... | 2.79 | ... |
| Halberstadt | St. Andrew | ... | ... |
| Hope Reservoirs | ... | ... | ... |
| Hope Plantation | ... | 0.18 | ... |
| Cherry Garden | ... | 0.26 | ... |
| King's House | ... | 0.14 | ... |
| Monaltrie | ... | 0.08 | 1.56 |
| Public Works Office, | Kingston | 0.09 | 1.78 |
| Franklyn Town | ... | 0.11 | ... |
| Rae Town | ... | 0.11 | ... |
| Palisadoes Plantation | ... | 0.27 | 1.70 |
| Plumb Point L. H. | ... | 0.00 | 1.16 |
| Spanish Town | St. Catherine | 0.28 | ... |
| Windsor Park | ... | ... | ... |
| Hog Hole Pen | ... | 0.29 | ... |
| Headworks, R. C. C. | ... | 0.65 | ... |
| Roden Pen | ... | ... | ... |
| Oid Harbour | ... | 1.07 | ... |
| Springfield | ... | ... | ... |
| Farm Plantation | Manchester | 2.69 | ... |
| Stone's Hope | ... | 1.53 | ... |
| Pepper | St. Elizabeth | 1.57 | ... |
| Long Hill | ... | 0.77 | ... |
| Gilnock Hall | ... | 0.49 | ... |
| Santa Cruz (Poor House) | ... | ... | ... |
| Bloomsbury | ... | 3.42 | ... |
| Black River | ... | 1.12 | 1.75 |
| Hodges | ... | 1.80 | ... |
| Means | | 0.31 | 1.59 |

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

| | JANUARY. | |
|------------------------|----------|---------|
| | 1885. | Average |
| North Eastern Division | 2.60 | 3.40 |
| Northern " | 0.90 | 2.07 |
| West Central " | 1.37 | 3.40 |
| Southern " | 0.31 | 1.59 |
| The Island | 1.30 | 4.47 |

The Rainfall for January was therefore only one-fourth the average ; and the continued drought is threatening the supply of water in Trelawny and other parts of the Island. It will be noticed that the heaviest rainfall (of seven or eight inches) occurred at the extreme N.E. end of the Island, as is usual with the winter rains.

The driest January since 1870 occurred in 1881

when only 1.22 was recorded, and the wettest occurred in 1873, when 8.15 inches fell.
The forecast for January was verified.

| ISLAND RAINFALL. | | Forecast. | Rainfall recorded. |
|------------------|-----------|-----------|--------------------|
| | | In. | In. |
| | June | 4.50 | 5.75 |
| | July | 4.00 | 6.96 |
| | August | 4.00 | 1.88 |
| | September | 6.00 | 4.69 |
| | October | 6.00 | 5.14 |
| | November | 6.00 | 8.91 |
| | December | 3.00 | 4.30 |
| | Sum | 38.50 | 2.06 |
| 1885 | January | 2.00 | 39.69 |
| | February | 0.75 | 1.30 |

Kempshot Observatory,
16th Jan. 1885.

MAXWELL HALL.



JAMAICA.

MARCH 31, 1885.

No. 50.

WEATHER REPORT

FOR THE MONTH OF

FEBRUARY, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON
1885.

METEOROLOGICAL RESULTS FOR FEB. 1885.
KINGSTON :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.039 | 29.973 | 30.052 | 30.021 |
| Temperature of the air ... | 71°·3 | 81°·6 | 73°·0 | 75°·3 |
| Dew-point ... | 67·4 | 72·6 | 69·3 | 69·8 |
| Humidity ... | 88 | 75 | 88 | 84 |
| Maximum Temp. ... | ... | ... | ... | 84°·0 |
| Minimum Temp. ... | ... | ... | ... | 68°·7 |
| Range of Temp. ... | ... | ... | ... | 15°·3 |
| Minimum Temp. on grass ... | ... | ... | ... | 60·4 |
| Direction of the Wind ... | ... | ... | ... | S.E |
| Velocity of the Wind in Miles per hour ... | ... | ... | ... | 3·5 |
| Percentage of Cloud ... | ... | ... | ... | 23 |

Total Rainfall—0.01 inches.

Average Weather :— Fine and dry.

The maximum temperature was 86°·9 recorded on the 21st; the minimum temperature was 65°·8 recorded on the 20th; the extreme range was therefore 21°·1; the minimum temperature on the grass was 59°·3 recorded on the 27th.

CINCHONA PLANTATION :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|------------------------------------|------------|------------|-------------|--------|
| Barometric Pressure | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | 25.326 |
| “ | 3 p.m. ... | 7 a.m. ... | 11 p.m. ... | 25.283 |
| Temperature of the air | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | 57°·7 |
| “ | 3 p.m. ... | 7 a.m. ... | 11 p.m. ... | 61·7 |
| Dew-point ... | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | 52·1 |
| “ | 3 p.m. ... | 7 a.m. ... | 11 p.m. ... | 58·4 |
| Maximum Temperature | ... | ... | ... | 65·3 |
| Minimum Temperature | ... | ... | ... | 52·4 |
| Direction of the Wind | ... | ... | ... | E. |
| Velocity of Wind in Miles per hour | ... | ... | ... | 2·9 |
| Temperature 6 feet below ground | ... | ... | ... | 62·3 |

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 | 4,850 “ |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 70°·0 and 49°·8 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 85°·5 and 65°·5 respectively.

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 :—

| | February. | |
|--|------------|------------|
| | 1885. | Average |
| Infantile diseases not otherwise specified | 28 | 27 |
| Lung diseases ... | 14 | 14 |
| Fever ... | 2 | 7 |
| Dysentery and Diarrhœa | 11 | 8 |
| Various ... | 58 | 52 |
| Total | 113 | 108 |

The small number of deaths from Fever this month forms a marked contrast to the unusually large number

afforded to in the last Report; in other respects the Public Health was about the average.

RAINFALL FOR FEBRUARY, 1885.

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. 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.

| | FEBRUARY. | |
|------------------------|-------------|-------------|
| | 1885. | Average. |
| | In. | In. |
| Morant Point L. H | ... | 2.98 |
| Hordley | 1.71 | ... |
| Holland | ... | ... |
| Elmwood (Long Bay) | 2.95 | ... |
| Boston | 4.11 | ... |
| Port Antonio | 2.19 | ... |
| Cinchona Plantation | 2.57 | 2.56 |
| New Haven Gap | 3.57 | ... |
| Newton | 1.98 | ... |
| Tweedside | ... | ... |
| Stony Hill Reformatory | 2.43 | 2.65 |
| Castleton Gardens | 1.43 | 2.09 |
| Dover | 2.42 | ... |
| Annotto Bay (Hospital) | 1.12 | ... |
| Water Valley | 1.55 | 3.68 |
| Quebec | 1.67 | ... |
| Port Maria | 2.88 | ... |
| New Ramble | 1.89 | 4.25 |
| Gayle | 1.36 | ... |
| Goshen | 0.87 | ... |
| Rio Hoe | 1.76 | ... |
| Unity Valley | 1.28 | 2.34 |
| Albion | 2.29 | 3.30 |
| Bradfield | ... | 4.57 |
| Drax Hall | 2.30 | 4.52 |
| Seville | 2.00 | ... |
| Richmond Estate | 1.47 | ... |
| Llandeverry | 1.37 | ... |
| Means | 1.97 | 3.17 |

NORTHERN DIVISION.

| | FEBRUARY. | |
|-------------------|-----------|----------|
| | 1885. | Average. |
| | In. | In. |
| Lillyfield | 2.17 | ... |
| Home Castle | 0.00 | ... |
| Richmond Pen | 0.50 | ... |
| Colehis Pen | 0.00 | ... |
| Mahogany Hall | 0.00 | 1.74 |
| Hopewell | 0.30 | 2.22 |
| Brampton Bryan | 0.70 | 1.64 |
| Bryan Castle | 0.08 | 1.94 |
| Nightingale Grove | ... | ... |
| Braco | 0.00 | 2.21 |
| Arcadia | 0.00 | ... |
| Harmony Hall | 0.39 | 2.44 |
| Lancaster | 0.10 | 2.32 |
| Duncans | 0.35 | ... |
| Vale Royal | 0.00 | 2.73 |
| Hyde | 0.00 | 2.28 |
| Georgia | 0.00 | 2.53 |
| Steelfield | 0.15 | 1.77 |
| Oxford | 0.80 | ... |
| Cambridge | 0.46 | ... |

NORTHERN DIVISION, continued

| | | FEBRUARY. | |
|----------------------|-----------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Spring | Trelawny | 1.19 | .. |
| Lottery | ... | 0.58 | 2.02 |
| Falmouth | ... | 0.22 | 1.59 |
| Holland Pen | ... | 0.15 | ... |
| Golden Grove | ... | 0.15 | 3.07 |
| Fontabelle | ... | 1.17 | ... |
| Pembroke | ... | 0.50 | ... |
| Green Park | ... | 0.80 | 1.58 |
| Phoenix | ... | 2.00 | ... |
| Tilston | ... | 1.60 | 1.40 |
| Orange Valley | ... | 1.17 | 2.57 |
| Kent | ... | 1.69 | ... |
| Dundee | ... | 0.88 | 2.57 |
| Gale's Valley | ... | 1.00 | 1.97 |
| Greenwood | St. James | 0.63 | ... |
| Guildsbro' | ... | 1.70 | ... |
| Spring Vale | .. | 1.66 | 2.04 |
| Latinm | ... | 2.38 | 1.53 |
| Cinnamon Hill | ... | 2.27 | ... |
| Rose Hall | ... | 1.25 | ... |
| Running Gut | ... | 1.18 | 1.43 |
| Tryall | ... | ... | ... |
| Irwin | ... | 4.40 | 1.45 |
| Ironshore | ... | 2.76 | ... |
| Providence | ... | 3.09 | ... |
| Montego Bay (Market) | ... | 1.74 | ... |
| Catherine Hall | ... | 2.05 | ... |
| Catherine Mount | ... | 1.83 | 1.63 |
| Fairfield | ... | 2.72 | ... |
| Means | | 0.82 | 2.03 |

WEST CENTRAL DIVISION.

| | | FEBRUARY. | |
|-----------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 2.60 | ... |
| Whitney | Clarendon | ... | 2.05 |
| Cave Valley | St. Ann | 3.74 | 2.66 |
| Marshall's Pen | Manchester | ... | 3.55 |
| Mandeville (Prison) | ... | 4.61 | 2.47 |
| Barton Isles | St. Elizabeth | 1.92 | ... |
| Appleton | ... | 2.20 | ... |
| Windsor Pen | Trelawny | 0.37 | ... |
| Maroon Town | St. James | 0.44 | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 4.46 | ... |
| Mount Charles | ... | 1.18 | ... |
| Mount Edgecombe | Westmoreland | 2.92 | ... |
| Woodstock | ... | 1.70 | ... |
| Kew Park | ... | 1.73 | ... |
| Hermitage | ... | 1.51 | ... |
| Chester Castle | Hanover | 1.19 | ... |
| Copae | ... | 2.23 | 1.88 |
| Haughton Grove | ... | 1.37 | ... |
| Kempshot | St. James | 1.94 | ... |
| Bandon | ... | 1.55 | ... |
| Anchovy | ... | 2.09 | ... |
| Wiltshire | ... | 1.58 | ... |
| Eden | ... | 1.12 | ... |
| Bound Hill | Hanover | 1.00 | ... |
| Cocoon Castle | ... | 1.71 | 1.64 |
| Golden Grove | ... | 2.74 | ... |
| Tryall | ... | 1.83 | 1.23 |
| Sweet River | Westmoreland | 1.26 | ... |
| Shrewsbury | ... | 1.34 | ... |
| Paradise Pen | ... | ... | ... |
| Mackfield | ... | 1.55 | ... |
| Windsor (Sav.-la-Mar) | ... | 0.84 | 2.59 |
| Fontabelle | ... | 1.89 | ... |

WEST CENTRAL DIVISION, continued.

| | | FEBRUARY. | |
|----------------|---------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Haughton Court | Hanover | 2.62 | ... |
| Orange Cove | ... | 3.02 | 2.49 |
| Haughton Hall | ... | ... | ... |
| Abingdon | ... | 2.41 | ... |
| Retreat | ... | ... | ... |
| Means | | 2.57 | 2.14 |

SOUTHERN DIVISION.

| | | FEBRUARY. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Albion Hospital | St. Thomas | 0.00 | ... |
| The Abbey | ... | 1.20 | ... |
| Halberstadt | St. Andrew | 0.47 | ... |
| Hops Reservoirs | ... | ... | ... |
| Hope Plantation | ... | 0.69 | ... |
| Cherry Garden | ... | ... | ... |
| King's House | ... | 1.30 | ... |
| Monatrie | ... | 1.24 | 1.21 |
| Public Works Office, | Kingston | 0.39 | 1.02 |
| Franklyn Town | ... | 0.48 | ... |
| Rae Town | ... | 0.61 | ... |
| Palisadoes Plantation | ... | 0.15 | 1.36 |
| Plumb Point L. H. | ... | 0.11 | 1.04 |
| Spanish Town | St. Catherine | 0.87 | ... |
| Windsor Park | ... | 0.19 | ... |
| Hog Hole Pen | ... | 0.20 | ... |
| Headworks, R. C. O. | ... | 0.31 | ... |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 1.16 | ... |
| Springfield | Clarendon | ... | ... |
| Denbeigh | ... | 0.46 | 1.64 |
| Farm Plantation | Manchester | 1.76 | ... |
| Stone's Hope | ... | ... | ... |
| Pepper | St. Elizabeth | 2.08 | ... |
| Long Hill | ... | 2.23 | ... |
| Potsdam | ... | 0.65 | ... |
| Gilnock Hall | ... | 2.07 | ... |
| Santa Cruz (Poor House) | ... | ... | ... |
| Bloomsbury | ... | 2.68 | ... |
| Black River | ... | 0.60 | 1.85 |
| Hodges | ... | 0.15 | ... |
| Means | | 0.49 | 1.19 |

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | FEBRUARY. | |
|------------------------|---|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 1.97 | 3.17 |
| Northern | " | 0.82 | 2.03 |
| West Central | " | 2.57 | 2.14 |
| Southern | " | 0.49 | 1.19 |
| The Island | | 1.46 | 2.13 |

The Rainfall for February was therefore only one-half the average ; and the drought was severely felt over the greater part of the Island.

The forecast for February was verified.

ISLAND RAINFALL.

| | | Forecast. | Rainfall recorded. |
|------|-----------|-----------|--------------------|
| | | In. | In. |
| 1884 | May | 4.50 | 5.75 |
| | June | 4.00 | 6.96 |
| | July | 5.00 | 1.88 |
| | August | 4.00 | 4.69 |
| | September | 6.00 | 5.14 |
| | October | 6.00 | 8.91 |
| | November | 6.00 | 4.50 |
| | December | 3.00 | 2.06 |
| | | 38.50 | 39.69 |
| 1885 | January | 2.00 | 1.27 |
| | February | 0.75 | 1.46 |
| | March | 1.50 | ... |

EARTHQUAKE, No. 18.—At about 1.35 a.m. on Saturday the 28th of February, a shock of Earthquake was felt throughout the whole Island; the shock was *double* both at Kingston and at the west end of the island—a few seconds intervening between the shocks; and the subterraneous rumbling was distinctly heard.

The last Earthquake felt in Kingston occurred on January 14th, 1884, or more than a year ago; this length of time between successive shocks is unusual, as far as I am aware.

The following particulars sent me by Mr. R. Johnstone, will be read with interest; it will be noticed that the Wind *decreased* as usual and that the amount of Cloud *increased* as usual; but that according to the fall in the Barometric pressure, the shock should have occurred eight hours earlier!

Bar. corr. and reduced.

| | | In. |
|------------------|-----|--------|
| 24 hours before | ... | 30.044 |
| 16 " " | ... | 30.051 |
| 8 " " | ... | 30.038 |
| At time of shock | ... | 30.063 |
| 8 hours after | ... | 30.062 |
| 16 " " | ... | 30.046 |
| 24 " " | ... | 30.068 |

Total miles of wind.

| | |
|---------------------------------|----|
| 27th Feby.—day before the shock | 70 |
| 28th " —day of shock | 20 |
| 1st March—day after, | 57 |

Temperature of the Air.

| | Min. | Mean. | Max. |
|------------|-------|-------|-------|
| 27th Feby. | 66°.5 | 75°.4 | 84°.1 |
| 28th " | 66.5 | 73.1 | 83.0 |
| 1st March | 64.3 | 73.4 | 84.1 |

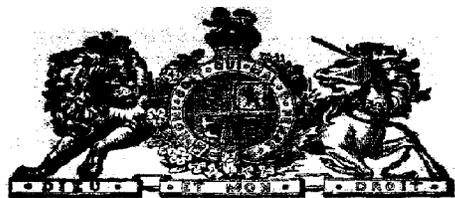
Clouds and Rain.

| | Clouds per cent. | Rain in. |
|------------|------------------|----------|
| 27th Feby. | 13 | 0.00 |
| 28th " | 27 | 0.00 |
| 1st March | 40 | 0.00 |

The weather for 27th was noted as "fine," for 28th as "cloudy during day—fine night" and for 1st March as "cloudy day—fine night."

Kempshot Observatory,
16th March, 1885.

MAXWELL HALL.



JAMAICA.

APRIL 23, 1885.

No. 51.

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON,
1885.

METEOROLOGICAL RESULTS FOR MARCH, 1885.
KINGSTON :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.074 | 30.002 | 30.086 | 30.054 |
| Temperature of the air ... | 72°·7 | 82°·7 | 74°·7 | 76°·7 |
| Dew-point ... | 67.5 | 73.5 | 69.3 | 69.9 |
| Humidity ... | 83 | 71 | 88 | 81 |
| Maximum Temp. ... | | | | 85°·6 |
| Minimum Temp. ... | | | | 68°·6 |
| Range of Temp.† ... | | | | 16°·9 |
| Direction of the Wind ... | | | | S.E. |
| Velocity of the Wind in Miles per hour ... | | | | 3.2 |
| Percentage of Cloud ... | | | | 24 |

Total Rainfall—0.29 inches.

Average Weather :—Dry and clear.

The highest temperature was 92°·2 recorded on the 24th ; the lowest was 64°·3 recorded on the 1st ; the extreme range was therefore 27°·9.

CINCHONA PLANTATION :—

| | | in. |
|------------------------------------|------------|--------|
| Barometric Pressure | 7 a.m. ... | 25.301 |
| " | 3 p.m. ... | 25.285 |
| Temperature of the air | 7 a.m. ... | 59°·2 |
| " | 3 p.m. ... | 63.8 |
| Dew-point | 7 a.m. ... | 52.8 |
| " | 3 p.m. ... | 61.4 |
| Maximum Temperature | | 65.0 |
| Minimum Temperature | | 54.2 |
| Direction of the Wind | | E. |
| Velocity of Wind in Miles per hour | | 4.6 |
| Temperature 6 feet below ground | | 61.5 |

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 | 4,850 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 68°·7 and 52°·4 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 87°·2 and 68°·5 respectively.

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 :—

| | March. | |
|--|------------|------------|
| | 1885. | Average |
| Infantile diseases not otherwise specified ... | 34 | 37 |
| Lung diseases ... | 20 | 15 |
| Fever ... | 2 | 5 |
| Dysentery and Diarrhoea ... | 10 | 12 |
| Various ... | 64 | 74 |
| Total | 130 | 143 |

RAINFALL FOR MARCH, 1885.

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.

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.

| | | MARCH. | |
|------------------------|------------|-------------|-------------|
| | | 1885. | Average |
| | | In. | In. |
| Morant Point L. H. | St. Thomas | ... | ... |
| Hordley | ... | 4.95 | ... |
| Holland | ... | 2.02 | ... |
| Elmwood (Long Bay) | Portland | 2.88 | ... |
| Boston | ... | 2.55 | ... |
| Port Antonio | ... | 1.41 | ... |
| Cinchona Plantation | St. Andrew | 1.82 | 8.83 |
| New Haven Gap | ... | 3.91 | ... |
| Newton | ... | 0.53 | ... |
| Tweedside | ... | ... | ... |
| Stony Hill Reformatory | ... | 0.82 | 4.14 |
| Castleton Gardens | St. Mary | 2.16 | 4.73 |
| Dover | ... | 1.10 | ... |
| Annotto Bay (Hospital) | ... | 1.10 | ... |
| Water Valley | ... | 0.82 | 4.80 |
| Quebec | ... | 0.07 | ... |
| Port Maria | ... | 0.35 | ... |
| New Ramble | ... | ... | ... |
| Gayle | ... | 2.00 | ... |
| Gosken | ... | 2.16 | ... |
| Rio Hoe | St. Ann | 0.30 | ... |
| Unity Valley | ... | 1.56 | 4.97 |
| Albion | ... | 1.35 | 4.18 |
| Bradfield | ... | 0.52 | 5.58 |
| Drax Hall | ... | 1.52 | 4.04 |
| Seville | ... | 0.84 | ... |
| Richmond Estate | ... | 1.57 | ... |
| Llandoverly | ... | 1.43 | ... |
| Means | | 1.26 | 5.16 |

NORTHERN DIVISION.

| | | MARCH. | |
|-------------------|----------|--------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Lillyfield | St. Ann | ... | ... |
| Home Castle | ... | 0.88 | ... |
| Richmond Pen | ... | 0.50 | ... |
| Colchis Pen | Trelawny | 0.00 | ... |
| Mahogany Hall | ... | 1.23 | 1.68 |
| Hopewell | ... | 1.20 | 3.06 |
| Brampton Bryan | ... | ... | ... |
| Bryan Castle | ... | ... | ... |
| Nightingale Grove | ... | ... | ... |
| Braco | ... | 0.36 | 2.10 |
| Arcadia | ... | 1.18 | ... |
| Harmony Hall | ... | ... | ... |
| Lancaster | ... | 1.08 | 2.56 |
| Duncans | ... | 0.80 | ... |
| Vale Royal | ... | 1.34 | 2.66 |
| Hyde | ... | 0.50 | 4.17 |
| Georgia | ... | 1.24 | 2.42 |
| Steelfield | ... | 1.05 | 2.52 |
| Oxford | ... | 0.93 | ... |
| Cambridge | ... | 0.76 | ... |
| Spring | ... | 1.06 | ... |
| Lottery | ... | 1.18 | 2.30 |
| Falmouth | ... | 0.60 | 2.03 |
| Holland Pen | ... | 0.93 | ... |
| Golden Grove | ... | 0.20 | 5.43 |
| Fontabelle | ... | ... | ... |

NORTHERN DIVISION, continued

| | | MARCH. | |
|----------------------|-----------|--------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Pembroke | Trelawny | 0.70 | ... |
| Green Park | ... | ... | ... |
| Phoenix | ... | 2.10 | ... |
| Tilston | ... | 0.53 | 4.59 |
| Orange Valley | ... | 0.30 | 2.28 |
| Kent | ... | 0.70 | ... |
| Dundee | ... | 0.65 | 3.22 |
| Gale's Valley | ... | 0.90 | 2.35 |
| Greenwood | St. James | 1.01 | ... |
| Guilbro' | ... | 1.85 | ... |
| Spring Vale | ... | ... | ... |
| Latium | ... | 1.24 | 2.44 |
| Cinnamon Hill | ... | ... | ... |
| Rose Hall | ... | ... | ... |
| Running Gut | ... | 1.18 | 1.60 |
| Tryall | ... | 0.10 | ... |
| Ironshore | ... | 0.55 | ... |
| Providence | ... | 0.72 | ... |
| Montego Bay (Market) | ... | 1.00 | ... |
| Catherine Hall | ... | 1.45 | ... |
| Catherine Mount | ... | 1.45 | 1.77 |
| Fairfield | ... | 2.00 | ... |
| Means | | 0.90 | 2.73 |

WEST CENTRAL DIVISION.

| | | MARCH. | |
|-----------------------|---------------|--------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Linstead | St. Catherine | 1.11 | ... |
| Whitney | Clarendon | ... | ... |
| Cave Valley | St. Ann | 0.78 | 4.51 |
| Marshall's Pen | Manchester | ... | ... |
| Mandeville (Prison) | ... | 1.31 | 4.76 |
| Barton Isles | St. Elizabeth | 4.07 | ... |
| Appleton | ... | 3.22 | ... |
| Windsor Pen | Trelawny | 1.14 | ... |
| Maroon Town | St. James | 1.44 | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 3.62 | ... |
| Mount Charles | ... | ... | ... |
| Mount Edgewcombe | Westmoreland | 4.42 | ... |
| Woodstock | ... | 3.84 | ... |
| Kew Park | ... | 2.40 | ... |
| Hermitage | ... | ... | ... |
| Chester Castle | Hanover | 1.43 | ... |
| Copas | ... | 1.89 | 2.74 |
| Haughton Grove | ... | 1.68 | ... |
| Kempshot | St. James | 2.38 | ... |
| Bandon | ... | ... | ... |
| Anohovy | ... | 0.96 | ... |
| Wiltshire | ... | 0.88 | ... |
| Eden | ... | 0.67 | ... |
| Round Hill | Hanover | 0.20 | ... |
| Cacoon Castle | ... | 1.41 | 2.76 |
| Golden Grove | ... | 1.16 | ... |
| Tryall | ... | 0.54 | 0.99 |
| Sweet River | Westmoreland | 1.11 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 0.90 | ... |
| Mackfield | ... | 2.35 | ... |
| Windsor (Sav.-la-Mar) | ... | 1.69 | 2.89 |
| Fontabelle | ... | 1.79 | ... |
| Retreat | ... | 3.40 | ... |

WEST CENTRAL DIVISION, continued.

| | | MARCH. | |
|----------------|---------|--------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Haughton Court | Hanover | 1.50 | ... |
| Orange Cove | ... | 0.71 | 2.64 |
| Haughton Hall | ... | ... | ... |
| Abingdon | ... | 2.53 | ... |
| Means | | 1.19 | 3.04 |

SOUTHERN DIVISION.

| | | MARCH. | |
|-------------------------|---------------|--------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Albion Hospital | St. Thomas | ... | ... |
| The Abbey | ... | 0.92 | ... |
| Halberstadt | St. Andrew | ... | ... |
| Hope Plantation | ... | 0.71 | ... |
| Cherry Garden | ... | 0.68 | ... |
| King's House | ... | 0.59 | ... |
| Monaltrie | ... | 0.29 | 1.60 |
| Public Works Office, | Kingston | 0.30 | 1.47 |
| Franklyn Town | ... | 0.51 | ... |
| Rae Town | ... | 0.29 | ... |
| Falisadoes Plantation | ... | 0.21 | 0.77 |
| Plumb Point L. H. | ... | 0.22 | 0.94 |
| Spanish Town | St. Catherine | 1.91 | ... |
| Windsor Park | ... | 2.00 | ... |
| Hog Hole Pen | ... | 1.07 | ... |
| Headworks, R. C. C. | ... | 1.14 | ... |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 1.07 | ... |
| Springfield | Clarendon | ... | ... |
| Denbigh | ... | 0.80 | 2.33 |
| Farm Plantation | Manchester | 1.55 | ... |
| Stone's Hope | ... | 1.19 | ... |
| Pepper | St. Elizabeth | 4.47 | ... |
| Long Hill | ... | ... | ... |
| Potsdam | ... | 4.71 | ... |
| Gilnock Hall | ... | 3.54 | ... |
| Santa Cruz (Poor House) | ... | ... | ... |
| Bloomsbury | ... | 3.72 | ... |
| Black River | ... | 0.68 | 2.44 |
| Hodges | ... | 0.35 | ... |
| Means | | 0.43 | 1.59 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 0.15 and 0.22 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | MARCH. | |
|------------------------|---|--------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| North Eastern Division | | 1.26 | 5.16 |
| Northern | " | 0.90 | 2.73 |
| West Central | " | 1.19 | 3.04 |
| Southern | " | 0.43 | 1.59 |
| The Island | | 0.94 | 3.13 |

The Rainfall for March was therefore only one-third the average; and the drought was severely felt over the greater part of the Island.

Mr. Joseph Shearer remarks:—"The severest drought on record; nearly all the ponds in Trelawny are dry, and many of the springs and wells have failed; several estates have not been able to commence sugar-making for want of water; and during the last two weeks in March I lost over 100 head of cattle."

The forecast for March was verified.

STATION ON THE BLUE MOUNTAIN PEAK.

It is to the energy and perseverance of Mr. D. Morris, the Director of Public Gardens and Plantations, that

we are indebted for the new station on the highest peak of the Blue Mountain Range. "A small enclosure protected by a strong fence of hardwood posts and six strands of barbed-wire, fitted with a gate, surrounds the stands which consist of a Stevenson's Screen, exactly similar to that at Cinchona*, and a Rain Gauge similar to the one at Newhaven Gap, capable of holding 60 inches. The screen is fitted with self-registering maximum and minimum Thermometers", similar to those in use in Jamaica, and tested for their index errors. On the 26th March, the maximum and minimum temperatures were 58° and 42° respectively.

In the *Geological Report* of Jamaica we find that Mr. James G. Sawkins, F.G.S., considered that the height of this the highest or western peak is 7,335 feet above the sea. If we turn to the *Transactions of the Royal Society of Arts of Jamaica*, Vol. IV. p. 12, we shall find his observations which led him to this determination; and a little further on we shall find that he made further and more trustworthy observations on July 11th 1861, which show that the height is between 7,300 and 7,320 feet.

Submitting the latter observations to a rigorous mathematical investigation, I find that the resulting height is apparently 7,318 feet.

In a letter to Hon. R. Hill, which is published in the same article, Mr. Sawkins refers to previous determinations:—

| | | |
|------------------------------------|-------|-------|
| Drs. McKensie and Gould (trig.) | 7,553 | Fect. |
| Mr. Dalpratt (bar.) | 7,255 | |
| Sir H. dela Beche (bar.) | 7,600 | |
| Mr. Robertson ? | 7,576 | |
| Dr. Grosbie and others (bar.) | 7,255 | |
| and we may add, Mr. Sawkins (bar.) | 7,318 | |
| <hr/> | | |
| Mean | 7,426 | |

* And at Kingiton, Kempshot and elsewhere.—M. H.

So that we may consider that the peak is between 7,300 and 7,500 feet above the sea, but that its exact height has not yet been ascertained.

The best way of ascertaining its height will be to compare barometric readings &c., on the peak, with similar and simultaneous readings at the Cinchona Plantation: for readings are made twice a day at the Plantation for comparison with Kingston, and when these have been properly reduced, the height of the Plantation will be known with accuracy.

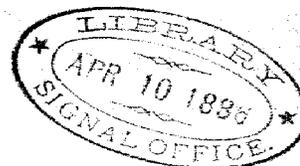
ISLAND RAINFALL.

| | | | Forecast. | Rainfall recorded. |
|------|-----------|-----|-----------|--------------------|
| | | | In. | In. |
| 1884 | May | ... | 4.50 | 5.75 |
| | June | ... | 4.00 | 6.96 |
| | July | ... | 5.00 | 1.88 |
| | August | ... | 4.00 | 4.69 |
| | September | ... | 6.00 | 5.14 |
| | October | ... | 6.00 | 8.91 |
| | November | ... | 6.00 | 4.30 |
| | December | ... | 3.00 | 2.06 |
| | | | <hr/> | <hr/> |
| | | | 38.50 | 39.69 |
| 1885 | January | ... | 2.00 | 1.27 |
| | February | ... | 0.75 | 1.46 |
| | March | ... | 1.50 | 0.94 |
| | April | ... | 4.50 | ... |

Kempshot Observatory,

MAXWELL HALL.

16th April, 1885.



JAMAICA.

MAY 23, 1885.

No. 52.

WEATHER REPORT

FOR THE MONTH OF

A P R I L , 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKES STREET, KINGSTON.
1885.

METEOROLOGICAL RESULTS FOR APRIL, 1885.
KINGSTON:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.023 | 29.945 | 30.028 | 29.999 |
| Temperature of the air ... | 76°.4 | 82°.9 | 74°.1 | 77°.7 |
| Dew-point ... | 69.0 | 73.0 | 69.4 | 70.4 |
| Humidity ... | 73 | 73 | 85 | 79 |
| Maximum Temp. ... | | | | 85°.0 |
| Minimum Temp. ... | | | | 69.5 |
| Range of Temp. ... | | | | 15.5 |
| Direction of the Wind ... | | | | S.E. |
| Velocity of the Wind in Miles per hour ... | | | | 1.2 |
| Percentage of Cloud ... | | | | 38 |

Total Rainfall—0.47 inches.

Average Weather:—Fine and dry.

The highest temperature was 88°.5 recorded on the 21st; the lowest was 64°.5 recorded on the 25th; the extreme range was therefore 24°.0.

CINCHONA PLANTATION:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|------------------------------------|------------|------------|-------------|------------|
| Barometric Pressure | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | in. 25.260 |
| Temperature of the air | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | 59°.6 |
| Dew-point | 7 a.m. ... | 3 p.m. ... | 11 p.m. ... | 53.7 |
| Maximum Temperature | | | | 66.3 |
| Minimum Temperature | | | | 55.5 |
| Direction of the Wind | | | | E. |
| Velocity of Wind in Miles per hour | | | | 4.6 |
| Temperature 6 feet below ground | | | | 61°.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 | 4,850 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 71°.5 and 43°.6 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 87°.1 and 67°.6 respectively.

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:—

| | April. | |
|--|------------|------------|
| | 1885. | Average |
| Infantile diseases not otherwise specified | 27 | 29 |
| Lung diseases | 19 | 15 |
| Fever | 13 | 3 |
| Dysentery and Diarrhoea | 8 | 9 |
| Various | 68 | 52 |
| Total | 135 | 108 |

RAINFALL FOR APRIL, 1885.

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.

| | | APRIL. | |
|------------------------|------------|-------------|-------------|
| | | 1885. | Average |
| | | In. | In. |
| Morant Point L. H. | St. Thomas | ... | ... |
| Hordley | ... | 1.63 | 3.38 |
| Holland | ... | 2.00 | ... |
| Elmwood (Long Bay) | Portland | 2.05 | ... |
| Boston | ... | ... | ... |
| Port Antonio | ... | 3.33 | ... |
| Cinchona Plantation | St. Andrew | 3.76 | 9.34 |
| New Haven Gap | ... | 11.17 | ... |
| Newton | ... | 2.66 | ... |
| Twecdside | ... | 5.57 | ... |
| Stony Hill Reformatory | ... | 5.96 | 5.76 |
| Castleton Gardens | St. Mary | 4.70 | 6.14 |
| Dover | ... | 1.70 | ... |
| Annotto Bay (Hospital) | ... | 0.90 | ... |
| Water Valley | ... | ... | ... |
| Quebec | ... | 0.88 | ... |
| Port Maria | ... | 1.33 | ... |
| New Ramble | ... | ... | ... |
| Gayle | ... | 0.30 | 2.87 |
| Gosten | ... | 1.45 | 2.68 |
| Rio Hoe | St. Ann | 3.31 | 3.82 |
| Unity Valley | ... | 2.51 | 5.22 |
| Albion | ... | 5.24 | 4.19 |
| Bradfield | ... | ... | ... |
| Drax Hall | ... | 5.33 | 2.43 |
| Seville | ... | 1.30 | 1.98 |
| Richmond Estate | ... | 1.91 | 1.45 |
| Llandoverly | ... | 0.33 | 2.12 |
| Means | | 2.91 | 3.95 |

NORTHERN DIVISION.

| | | APRIL. | |
|-------------------|----------|--------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Lillyfield | St. Ann | 2.93 | 4.35 |
| Home Castle | ... | 1.53 | ... |
| Richmond Pen | ... | 5.88 | ... |
| Colchis Pen | Trelawny | 2.43 | ... |
| Mahogany Hall | ... | 8.40 | 2.43 |
| Hopewell | ... | 4.26 | 3.37 |
| Brampton Bryan | ... | ... | ... |
| Bryan Castle | ... | ... | ... |
| Nightingale Grove | ... | ... | ... |
| Braco | ... | 4.15 | 2.38 |
| Arcadia | ... | 4.98 | ... |
| Harmony Hall | ... | 4.49 | 1.62 |
| Lancaster | ... | 4.71 | 2.14 |
| Duncans | ... | ... | ... |
| Vale Royal | ... | 6.90 | 2.80 |
| Hyde | ... | 6.08 | 2.73 |
| Georgia | ... | 7.46 | 2.19 |
| Steelfield | ... | 4.61 | 2.35 |
| Oxford | ... | 3.15 | ... |
| Cambridge | ... | 3.34 | 2.11 |
| Spring | ... | 4.09 | 1.49 |
| Lottery | ... | 3.30 | 2.06 |
| Falmouth | ... | 3.11 | 1.80 |
| Holland Pen | ... | 2.22 | ... |
| Golden Grove | ... | 5.75 | 2.13 |
| Fontabelle | ... | ... | ... |
| Pembroke | ... | ... | ... |
| Green Park | ... | ... | ... |
| Phoenix | ... | 7.00 | ... |
| Tilston | ... | 5.20 | 2.39 |
| Orange Valley | ... | 1.95 | 2.20 |
| Kent | ... | 1.85 | 2.05 |

NORTHERN DIVISION, *continued*

| | | APRIL. | |
|----------------------|-----------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Dundee | Trelawny | 1.70 | 2.50 |
| Gale's Valley | ... | 6.30 | 2.06 |
| Greenwood | St. James | 1.65 | ... |
| Gullsbro' | ... | 7.60 | ... |
| Spring Vale | ... | ... | ... |
| Latiam | ... | 9.09 | 3.27 |
| Cinnamon Hill | ... | ... | ... |
| Rose Hall | ... | ... | ... |
| Running Gut | ... | 5.37 | 1.56 |
| Tryall | ... | 4.37 | ... |
| Ironshore | ... | 8.20 | 2.02 |
| Providence | ... | 9.68 | ... |
| Montego Bay (Market) | ... | 5.41 | ... |
| Catherine Hall | ... | 6.80 | 2.04 |
| Catherine Mount | ... | 6.07 | 2.99 |
| Fairfield | ... | 7.02 | ... |
| Means | | 5.04 | 2.36 |

WEST CENTRAL DIVISION.

| | | APRIL. | |
|-----------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 2.18 | 3.67 |
| Whitney | Clarendon | ... | ... |
| Cave Valley | St. Ann | 5.79 | 4.55 |
| Marshall's Pen | Manchester | ... | ... |
| Mandeville (Prison) | ... | 6.37 | 3.98 |
| Barton Isles | St. Elizabeth | 12.17 | ... |
| Appleton | ... | 12.73 | 9.93 |
| Windsor Pen | Trelawny | 11.66 | ... |
| Maroon Town | St. James | 14.85 | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 16.04 | 9.65 |
| Mount Charles | ... | ... | ... |
| Mount Edgecombe | Westmoreland | 8.81 | 5.08 |
| Windsor Forest | ... | 17.18 | ... |
| Woodstock | ... | 12.95 | ... |
| Kew Park | ... | ... | ... |
| Hermitage | ... | 5.45 | ... |
| Chester Castle | Hanover | 5.45 | ... |
| Copse | ... | 6.71 | 7.13 |
| Haughton Grove | ... | 7.07 | ... |
| Kempshot | St. James | 8.64 | ... |
| Bandon | ... | 13.24 | ... |
| Anchovy | ... | 6.63 | 3.03 |
| Wiltshire | ... | 7.69 | 3.66 |
| Eden | ... | 8.91 | ... |
| Round Hill | Hanover | 2.92 | 1.53 |
| Cacoon Castle | ... | 9.95 | 4.01 |
| Golden Grove | ... | 7.55 | 7.93 |
| Tryall | ... | 1.38 | 2.20 |
| Sweet River | Westmoreland | 8.50 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 11.25 | ... |
| Mackfield | ... | 8.13 | ... |
| Windsor (Sav.-la-Mar) | ... | 8.99 | 5.11 |
| Fontabelle | ... | 8.19 | ... |
| Retreat | ... | 6.10 | ... |
| Haughton Court | Hanover | 2.60 | ... |
| Orange Cove | ... | 1.81 | 3.31 |
| Haughton Hall | ... | ... | ... |
| Abingdon | ... | 5.70 | ... |
| Means | | 7.04 | 4.99 |

SOUTHERN DIVISION.

| | | APRIL. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Allion Hospital | St. Thomas | 0.00 | ... |
| The Abbey | ... | 0.95 | ... |
| Halberstadt | St. Andrew | 2.92 | ... |
| Hope Reservoirs | ... | 3.23 | 2.43 |
| Hope Plantation | ... | 3.03 | ... |
| Cherry Garden | ... | 4.11 | ... |
| King's House | ... | 1.14 | ... |
| Monaltrie | ... | 1.76 | 1.48 |
| Public Works Office, | Kingston | ... | ... |
| Franklyn Town | ... | 1.34 | ... |
| Rae Town | ... | 0.47 | ... |
| Palisadoes Plantation | ... | 0.42 | 1.96 |
| Plumb Point L. II. | ... | 0.43 | 1.13 |
| Spanish Town | St. Catherine | 1.97 | 1.90 |
| Windsor Park | ... | 0.62 | ... |
| Hog Hole Pen | ... | 0.70 | 2.14 |
| Headworks, R. C. C. | ... | 1.15 | 2.00 |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 0.59 | ... |
| Springfield | Clarendon | 1.71 | ... |
| Denbigh | ... | 4.12 | 2.23 |
| Farm Plantation | Manchester | 3.47 | 2.82 |
| Stone's Hope | ... | 2.51 | ... |
| Pepper | St. Elizabeth | 10.69 | 6.45 |
| Long Hill | ... | 10.44 | 8.93 |
| Potsdam | ... | 6.96 | ... |
| Gilcock Hall | ... | 9.65 | ... |
| Santa Cruz (Poor House) | ... | 8.00 | ... |
| Bloomsbury | ... | ... | ... |
| Black River | ... | ... | ... |
| Hodges | ... | ... | ... |
| Means | | 3.49 | 3.04 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 0.85 and 0.43 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Averages" Stations only.)

| | | APRIL. | |
|------------------------|---|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 2.91 | 3.95 |
| Northern | " | 5.04 | 2.36 |
| West Central | " | 7.04 | 4.99 |
| Southern | " | 3.49 | 3.04 |
| The Island | | 4.62 | 3.59 |

The Rainfall for April was therefore an inch above the average, and this was caused by heavy rains in the interior of the West Central Division—from Windsor in Trelawny and Pepper in Saint Elizabeth, through Maroon Town and Kepp, as far as Paradise in Westmoreland.

In other parts of the island but little rain fell and in consequence of the preceding drought there was still great scarcity of water.

The forecast for April was verified.

| | | ISLAND RAINFALL. | |
|------|----------|------------------|--------------------|
| | | Forecast. | Rainfall recorded. |
| 1885 | January | 2.00 | 1.27 |
| | February | 0.75 | 1.46 |
| | March | 1.50 | 0.94 |
| | April | 4.50 | 4.62 |
| | Sum | 8.75 | 8.29 |
| | May | 8.00 | ... |

MAXWELL HALL.

Kempshot Observatory,
16th May, 1885.



JAMAICA.

JUNE 23, 1885.

No. 53.

WEATHER REPORT

FOR THE MONTH OF

M A Y , 1885.

Published by Authority.

J A M A I C A :
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON,
1885.

METEOROLOGICAL RESULTS FOR MAY, 1885.
KINGSTON:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 29.992 | 29.930 | 29.904 | 29.976 |
| Temperature of the air ... | 82° 6 | 84° 3 | 77° 2 | 80° 6 |
| Dew-point ... | 71.8 | 73.5 | 71.7 | 72.3 |
| Humidity ... | 76.4 | 70.8 | 80.1 | 75.8 |
| Maximum Temp. ... | | | | 86° 2 |
| Minimum Temp. ... | | | | 72.7 |
| Range of Temp. ... | | | | 13.5 |
| Direction of the Wind ... | | | | S.E. |
| Velocity of the Wind in Miles per hour ... | | | | 2.1 |
| Percentage of Cloud ... | | | | 48 |

Total Rainfall—2.72 inches.

Average Weather:—Fair.

The highest temperature was 91° 5 recorded on the 20th; the lowest was 69° 1 recorded on the 6th; the extreme range was therefore 22° 4.

CINCHONA PLANTATION:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric Pressure ... | 25.256 | 25.240 | 25.240 | 25.245 |
| Temperature of the air ... | 82° 5 | 85° 1 | 85.1 | 84.2 |
| Dew-point ... | 54.8 | 60.6 | 60.6 | 58.5 |
| Maximum Temperature ... | | | | 69.1 |
| Minimum Temperature ... | | | | 57.5 |
| Direction of the Wind ... | | | | E.S.E. |
| Velocity of Wind in Miles per hour ... | | | | 4.1 |
| Temperature 6 feet below ground ... | | | | 63° |

BLUE MOUNTAIN PEAK:—

| Fortnight ending. | Extreme Max. | Extreme Min. | Total Rainfall. | Recorder's Remarks. |
|-------------------|--------------|--------------|-----------------|---------------------|
| 1885 April 4th | 53° | 48° | 0.79 | N. light; foggy. |
| " 18th | 63.5 | 42 | 1.72 | W. light " |
| May 2nd | 74 | 49 | 3.52 | E. strong " |
| " 16th | 76 | 46 | 0.00 | S. light " |

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 three 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 | 4,850 " |
| Blue Mountain Peak | 7,335 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 74° 8 and 54° 1 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 89° 4 and 69° 3 respectively.

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:—

| | May. | |
|--|------------|------------|
| | 1885. | Average. |
| Infantile diseases not otherwise specified ... | 33 | 24 |
| Lung diseases ... | 18 | 14 |
| Fever ... | 10 | 4 |
| Dysentery and Diarrhoea ... | 10 | 5 |
| Various ... | 62 | 58 |
| Total | 133 | 105 |

RAINFALL FOR MAY, 1885.

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:—MAY.

| | 1885. | Average. |
|--------------------------------|-------------|-------------|
| | In. | In. |
| Morant Point L. H. St. Thomas | 7.32 | 9.26 |
| Hordley | 8.28 | 11.85 |
| Holland | ... | ... |
| Elmwood (Long Bay) Portland | 9.30 | ... |
| Boston | 8.57 | ... |
| Port Antonio | 16.15 | ... |
| Cinchona Plantation St. Andrew | 3.29 | 9.72 |
| New Haven Gap | 0.16 | ... |
| Newton | 2.10 | ... |
| Tweedside | ... | ... |
| Stony Hill Reformatory | 3.47 | 9.89 |
| Castleton Gardens St. Mary | 4.44 | 12.28 |
| Dover | 3.40 | ... |
| Annotto Bay (Hospital) | 2.10 | ... |
| Water Valley | 2.41 | 9.12 |
| Quebec | 2.11 | ... |
| Port Maria | 2.09 | ... |
| New Rambles | 3.90 | 8.81 |
| Gayle | 6.00 | 8.78 |
| Gosken | ... | ... |
| Rio Hoe St. Ann | 5.85 | 11.56 |
| Unity Valley | 8.84 | 11.15 |
| Albion | 6.73 | 8.62 |
| Bradfield | 5.63 | 9.50 |
| Drax Hall | 5.00 | 7.74 |
| Seville | 5.09 | 6.80 |
| Richmond Estate | 4.38 | 6.61 |
| Llandovery | 4.05 | 6.17 |
| Means | 5.29 | 9.21 |

NORTHERN DIVISION.

| | MAY. | |
|----------------------|-------|----------|
| | 1885. | Average. |
| | In. | In. |
| Lillyfield St. Ann | 6.71 | 7.91 |
| Home Castle | 5.27 | ... |
| Richmond Pen | 4.75 | ... |
| Colchis Pen Trelawny | 6.23 | ... |
| Mahogany Hall | 7.43 | 8.50 |
| Hopewell | 5.12 | 7.39 |
| Brampton Bryan | 3.19 | 11.26 |
| Bryan Castle | 2.80 | 6.08 |
| Nightingale Grove | ... | ... |
| Braco | 2.83 | 6.74 |
| Arcadia | 3.00 | ... |
| Harmony Hall | 3.23 | 5.79 |
| Lancaster | 3.67 | 6.86 |
| Duncans | 1.50 | ... |
| Vale Royal | 2.92 | 8.09 |
| Hyde | 4.29 | 10.88 |
| Georgia | 2.03 | 7.99 |
| Steelfield | 2.69 | 7.55 |
| Oxford | 2.06 | ... |
| Cambridge | 2.27 | 7.66 |
| Spring | 2.42 | 5.50 |
| Lottery | 2.35 | 8.15 |
| Falmouth | 2.54 | 6.51 |
| Holland Pen | 1.94 | ... |
| Golden Grove | 6.60 | 8.37 |

NORTHERN DIVISION, continued

| | | MAY. | |
|----------------------|-----------|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| Fontabelle | ... | 4.35 | ... |
| Pembroke | ... | ... | ... |
| Green Park | ... | ... | ... |
| Phoenix | ... | 7.93 | ... |
| Tilston | ... | 7.35 | 8.94 |
| Orange Valley | ... | 3.66 | 6.70 |
| Kent | ... | 4.14 | 6.21 |
| Dundee | Trelawny | 4.85 | 6.05 |
| Gale's Valley | ... | 3.90 | 8.16 |
| Greenwood | St. James | 4.64 | ... |
| Guilsbro' | ... | 3.00 | ... |
| Spring Vale | ... | ... | ... |
| Latium | ... | 4.38 | 10.34 |
| Cinnamon Hill | ... | ... | ... |
| Rose Hall | ... | ... | ... |
| Running Gut | ... | ... | ... |
| Tryall | ... | 1.40 | ... |
| Irwin | ... | 4.39 | 8.93 |
| Ironshore | ... | 2.85 | 4.94 |
| Providence | ... | 4.17 | ... |
| Montego Bay (Market) | ... | 4.05 | ... |
| Catherine Hall | ... | 5.10 | 7.53 |
| Catherine Mount | ... | 4.96 | ... |
| Fairfield | ... | 5.06 | ... |
| Means | | 4.22 | 7.65 |

WEST CENTRAL DIVISION.

| | | MAY. | |
|-----------------------|---------------|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 9.48 | 7.29 |
| Whitney | Clarendon | ... | ... |
| Cave Valley | St. Ann | 5.91 | 11.93 |
| Marshall's Pen | Manchester | ... | ... |
| Mandeville (Prison) | ... | 6.24 | 12.76 |
| Barton Isles | St. Elizabeth | 2.36 | ... |
| Appleton | ... | 3.25 | 13.84 |
| Windsor Pen | Trelawny | 5.50 | ... |
| Maroon Town | St. James | ... | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 5.64 | 14.89 |
| Mount Charles | ... | ... | ... |
| Mount Edgecombe | Westmoreland | 5.27 | 7.48 |
| Windsor Forest | ... | ... | ... |
| Woodstock | ... | ... | ... |
| Kew Park | ... | 12.61 | ... |
| Hermitage | ... | ... | ... |
| Chester Castle | Hanover | 11.35 | ... |
| Copse | ... | 9.34 | 11.91 |
| Haughton Grove | ... | 11.14 | ... |
| Kempshot | St. James | 3.18 | ... |
| Bandon | ... | ... | ... |
| Anchovy | ... | 7.86 | 10.84 |
| Wiltshire | ... | 6.54 | 10.15 |
| Eden | ... | 5.11 | ... |
| Hound Hill | Hanover | 5.40 | 6.87 |
| Cacoon Castle | ... | ... | ... |
| Golden Grove | ... | 2.44 | 15.98 |
| Tryall | ... | 6.48 | 5.46 |
| Sweet River | Westmoreland | 4.83 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 6.00 | ... |
| Mackfield | ... | 7.83 | ... |
| Windsor (Sav.-la-Mar) | ... | 3.08 | 11.06 |
| Fontabelle | ... | 5.49 | ... |
| Retreat | ... | 5.70 | ... |
| Haughton Court | Hanover | 6.32 | ... |
| Orange Cove | ... | 4.48 | 8.49 |
| Haughton Hall | ... | ... | ... |
| Abingdon | ... | 4.69 | ... |
| Means | | 6.81 | 10.64 |

SOUTHERN DIVISION.

| | | MAY. | |
|-------------------------|---------------|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| Albion Hospital | St. Thomas | 3.00 | ... |
| The Abbey | ... | 5.23 | ... |
| Halberstadt | St. Andrew | 4.10 | ... |
| Hope Reservoirs | ... | ... | ... |
| Hope Plantation | ... | 2.53 | ... |
| Cherry Garden | ... | ... | ... |
| King's House | ... | 3.16 | 6.13 |
| Monaltrie | ... | 2.62 | 4.92 |
| Public Works Office, | Kingston | ... | ... |
| Franklyn Town | ... | 2.82 | ... |
| Rae Town | ... | 2.72 | ... |
| Palisadoes Plantation | ... | 2.61 | 6.60 |
| Plumb Point L. H. | ... | 2.78 | 4.64 |
| Spanish Town | St. Catherine | 4.05 | 5.73 |
| Windsor Park | ... | 2.96 | ... |
| Hog Hole Pen | ... | 4.69 | 6.89 |
| Headworks, R. C. C. | ... | 2.92 | 8.81 |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 3.89 | ... |
| Springfield | Clarendon | 4.30 | ... |
| Denbigh | ... | 3.30 | 8.90 |
| Farm Plantation | Manchester | 4.69 | 10.02 |
| Stone's Hope | ... | 5.73 | ... |
| Pepper | St. Elizabeth | 4.95 | 11.27 |
| Long Hill | ... | 1.13 | 9.46 |
| Potsdam | ... | 2.96 | ... |
| Gibraltar Hall | ... | 2.31 | ... |
| Santa Cruz (Poor House) | ... | 2.25 | ... |
| Bloomsbury | ... | ... | ... |
| Black River | ... | 1.40 | 6.95 |
| Hodges | ... | ... | ... |
| Means | | 3.19 | 7.53 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 2.28 and 2.78 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | MAY. | |
|------------------------|---|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 5.29 | 9.21 |
| Northern | " | 4.22 | 7.65 |
| West Central | " | 5.81 | 10.64 |
| Southern | " | 3.19 | 7.53 |
| The Island | | 4.63 | 8.76 |

The Rainfall for May was therefore only one half the average, and speaking generally, there were no May "seasons." A fall of 16 inches was recorded at Port Antonio, and of 13 inches at Kew Park, but the average for the Island was only 4 inches and 63 hundredths. The forecast for May was therefore not verified.

ISLAND RAINFALL.

| | | MAY. | |
|------|----------|------------------|--------------------|
| | | 1885. Average. | |
| | | Forecast. | Rainfall recorded. |
| 1885 | January | 2.00 | 1.27 |
| | February | 0.75 | 1.46 |
| | March | 1.50 | 0.94 |
| | April | 4.50 | 4.62 |
| | May | 8.00 | 4.63 |
| | Sum | 16.75 | 12.92 |
| | June | 1.50 | ... |

MAXWELL HALL.

Kempshot Observatory,
June 13th, 1885.



JAMAICA.

JULY 25, 1885.

No. 54.

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1885.

METEOROLOGICAL RESULTS FOR JUNE, 1885.
Kingston:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.056 | 29.992 | 30.076 | 30.041 |
| Temperature of the air ... | 80°.8 | 85°.1 | 77°.3 | 81°.1 |
| Dew-point ... | 72°.1 | 74°.4 | 72°.6 | 73°.0 |
| Humidity ... | 73 | 75 | 85 | 77 |
| Maximum Temp. ... | ... | ... | ... | 87°.0 |
| Minimum Temp. ... | ... | ... | ... | 74°.0 |
| Range of Temp. ... | ... | ... | ... | 13°.0 |
| Direction of the Wind ... | ... | ... | ... | S.E. |
| Velocity of the Wind in Miles per hour ... | ... | ... | ... | 5.7 |
| Percentage of Cloud ... | ... | ... | ... | 53 |

Total Rainfall—0.46 inches.
Average Weather:—Dry; Strong winds.
 The highest temperature was 92°.0 recorded on the 27th; the lowest was 70°.6 recorded on the 13th; the extreme range was therefore 21°.4.

CINCHONA PLANTATION:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|-----------|
| | in. | in. | in. | in. |
| Barometric Pressure ... | 25.313 | 25.305 | 25.314 | 25.311 |
| Temperature of the air ... | 62°.4 | 66°.8 | 66°.8 | 66°.7 |
| Dew-point ... | 57.2 | 61.9 | 61.9 | 60.0 |
| Maximum Temperature ... | ... | ... | ... | 70.7 |
| Minimum Temperature ... | ... | ... | ... | 59.1 |
| Direction of the Wind ... | ... | ... | ... | Easterly. |
| Velocity of Wind in Miles per hour ... | ... | ... | ... | 7.2 |
| Temperature 6 feet below ground ... | ... | ... | ... | 63°.7 |

BLUE MOUNTAIN PEAK:—
 Maximum Temperature ... 66°.5
 Minimum Temperature ... 48°.5
 Rainfall ... 5.90 inches.
NOTE:—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 92°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the three 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 | 4,850 " |
| Blue Mountain Peak | 7,335 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 72°.0 and 54°.7 respectively.
 At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 90°.7 and 91°.1 respectively.

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:—

| | June. | |
|--|-----------|------------|
| | 1885. | Average. |
| Infantile diseases not otherwise specified ... | 19 | 19 |
| Lung diseases ... | 14 | 14 |
| Fever ... | 7 | 7 |
| Dysentery and Diarrhoea ... | 8 | 7 |
| Various ... | 49 | 53 |
| Total | 97 | 160 |

RAINFALL FOR JUNE, 1885.
 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, 1885, as Nos. 21 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. JUNE.

| | 1885. Average. | |
|--------------------------------|------------------|-------------|
| | In. | In. |
| Morant Point L. H. St. Thomas | 2.11 | 6.24 |
| Hordley | 4.48 | 7.80 |
| Holland | 3.64 | ... |
| Elmwood (Long Bay) Portland | 4.82 | ... |
| Boston | 3.21 | ... |
| Port Antonio | 5.35 | ... |
| Cinchona Plantation St. Andrew | 0.76 | 6.33 |
| New Haven Gap | 4.82 | ... |
| Newton | 0.31 | ... |
| Tweedside | ... | ... |
| Stony Hill Reformatory | 4.49 | 6.01 |
| Castleton Gardens St. Mary | 4.10 | 8.24 |
| Dover | 3.35 | ... |
| Annotto Bay (Hospital) | 3.75 | ... |
| Water Valley | 3.08 | 4.88 |
| Quebec | 1.81 | ... |
| Port Maria | 2.90 | ... |
| New Ramble | ... | ... |
| Gayle | 3.90 | 5.85 |
| Goshen | 2.75 | 6.06 |
| Rio Hoe St. Ann | 1.49 | 9.97 |
| Unity Valley | 1.93 | 8.70 |
| Albion | 2.41 | 5.58 |
| Bradfield | 3.01 | 4.86 |
| Drax Hall | 1.60 | 3.26 |
| Seville | 1.68 | 3.78 |
| Richmond Estate | 1.21 | 3.25 |
| Islandoverly | 0.85 | 3.24 |
| Means | 2.48 | 5.87 |

NORTHERN DIVISION. JUNE.

| | 1885. Average. | |
|----------------------|------------------|------|
| | In. | In. |
| Lillyfield St. Ann | 2.44 | 5.38 |
| Home Castle | 0.99 | ... |
| Richmond Pen | 1.45 | ... |
| Colchis Pen Trelawny | 3.50 | ... |
| Mahogany Hall | 2.28 | 2.77 |
| Hopewell | 2.50 | 3.62 |
| Brampton Bryan | 1.88 | 2.65 |
| Bryan Castle | 1.71 | 2.48 |
| Nightingale Grove | ... | ... |
| Braco | 2.47 | 2.37 |
| Arcadia | 2.50 | ... |
| Harmony Hall | 2.63 | 1.68 |
| Lancaster | 2.36 | 2.30 |
| Duncans | 1.40 | ... |
| Vale Royal | 1.79 | 3.39 |
| Hyde | 2.92 | 4.81 |
| Georgia | 0.98 | 2.94 |
| Steelfield | 2.28 | 3.87 |
| Oxford | 1.45 | ... |
| Cambridge | 2.08 | 4.20 |
| Spring | 2.43 | 2.49 |
| Dottery | 1.94 | 3.59 |
| Falmouth | 2.12 | 2.01 |
| Holland Pen | 2.21 | ... |
| Golden Grove | 1.55 | 6.79 |

NORTHERN DIVISION, continued.

| | | JUNE. | |
|----------------------|-----------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Fontabelle | Trelawny | 1.09 | ... |
| Pembroke | ... | 0.80 | 3.87 |
| Green Park | ... | 1.36 | 2.68 |
| Phoenix | ... | 4.36 | ... |
| Tilston | ... | 2.75 | 4.34 |
| Orange Valley | ... | 0.81 | 2.80 |
| Kent | ... | 1.39 | 2.89 |
| Dundee | ... | 1.80 | 3.26 |
| Gale's Valley | ... | 2.90 | 5.66 |
| Greenwood | St. James | 1.67 | ... |
| Guilbro' | ... | 1.35 | ... |
| Spring Vale | ... | 4.98 | 9.21 |
| Latium | ... | 3.64 | 7.71 |
| Cinnamon Hill | ... | 0.72 | ... |
| Rose Hall | ... | 0.47 | ... |
| Running Gut | ... | 0.34 | 2.32 |
| Tryall | ... | 0.65 | ... |
| Irwin | ... | ... | ... |
| Ironshore | ... | 0.96 | 4.16 |
| Providence | ... | 2.37 | ... |
| Montego Bay (Market) | ... | 1.96 | ... |
| Catherine Hall | ... | 0.95 | 6.05 |
| Catherine Mount | ... | 2.36 | 6.55 |
| Fairfield | ... | 2.83 | ... |
| Means | | 2.04 | 3.90 |

WEST CENTRAL DIVISION.

| | | JUNE. | |
|-----------------------|---------------|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 5.28 | 6.80 |
| Whitney | Clarendon | ... | ... |
| Cave Valley | St. Ann | 5.33 | 5.76 |
| Marshall's Pen | Manchester | 2.70 | 8.89 |
| Mandeville (Prison) | ... | 6.03 | 6.46 |
| Barton Isles | St. Elizabeth | 4.06 | ... |
| Appleton | ... | 4.86 | 7.20 |
| Windsor Pen | Trelawny | 3.85 | ... |
| Maroon Town | St. James | 12.09 | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 6.59 | 7.25 |
| Mount Charles | ... | 5.01 | ... |
| Mount Edgcombe | Westmoreland | 5.05 | 5.61 |
| Windsor Forest | ... | ... | ... |
| Woodstock | ... | 10.16 | ... |
| Kew Park | ... | 9.89 | ... |
| Hermitage | ... | ... | ... |
| Chester Castle | Hanover | 8.42 | ... |
| Oopse | ... | 8.85 | 8.85 |
| Haughton Grove | ... | 5.64 | ... |
| Kempshot | St. James | 6.33 | ... |
| Bandon | ... | 9.07 | ... |
| Anchovy | ... | 5.41 | 7.12 |
| Wiltshire | ... | 2.79 | 8.21 |
| Eden | ... | 4.73 | ... |
| Round Hill | Hanover | 3.20 | 6.20 |
| Cacoon Castle | ... | 6.04 | 10.51 |
| Golden Grove | ... | 6.70 | 10.92 |
| Tryall | ... | 4.73 | 7.98 |
| Sweet River | Westmoreland | 8.09 | ... |
| Shrewsbury | ... | 6.19 | ... |
| Paradise Pen | ... | 7.15 | ... |
| Mackfield | ... | 7.45 | ... |
| Windsor (Sav.-la-Mar) | ... | 7.00 | 6.68 |
| Fontabelle | ... | 8.13 | ... |
| King's Valley | ... | 8.46 | ... |
| Retreat | ... | 6.20 | ... |
| Haughton Court | Hanover | 8.61 | ... |
| Orange Cove | ... | 5.80 | 7.72 |
| Abingdon | ... | 13.34 | ... |
| Means | | 6.40 | 7.64 |

SOUTHERN DIVISION.

| | | JUNE. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Albion Hospital | St. Thomas | 0.00 | ... |
| The Abbey | ... | 1.12 | ... |
| Halberstadt | St. Andrew | ... | ... |
| Hope Plantation | ... | 0.39 | ... |
| Cherry Garden | ... | 2.47 | ... |
| King's House | ... | 0.55 | 3.12 |
| Monaltrie | ... | 1.06 | 3.53 |
| Public Works Office, | Kingston | 0.69 | 3.32 |
| Franklyn Town | ... | 0.85 | ... |
| Rae Town | ... | 0.46 | ... |
| Palisades Plantation | ... | 0.46 | 6.55 |
| Plumb Point L. H. | ... | 0.37 | 3.79 |
| Spanish Town | St. Catherine | 0.32 | 3.74 |
| Windsor Park | ... | 0.21 | ... |
| Hog Hole Pen | ... | 0.44 | 3.90 |
| Headworks, R. C. C. | ... | 1.27 | 5.50 |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 0.24 | ... |
| Springfield | Clarendon | ... | ... |
| Denbigh | ... | 3.95 | 5.67 |
| Farm Plantation | Manchester | 3.39 | 6.70 |
| Stone's Hope | ... | 2.24 | ... |
| Pepper | St. Elizabeth | 1.98 | 2.63 |
| Long Hill | ... | 2.55 | 2.92 |
| Potsdam | ... | 1.41 | ... |
| Gi. lock Hall | ... | 5.77 | ... |
| Santa Cruz (Poor House) | ... | 5.27 | ... |
| Black River | ... | 2.06 | 2.68 |
| Means | | 1.47 | 4.16 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 0.28 and 0.37 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | JUNE. | |
|------------------------|---|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 2.48 | 5.87 |
| Northern | " | 2.04 | 3.90 |
| West Central | " | 5.40 | 7.64 |
| Southern | " | 1.47 | 4.16 |
| The Island | | 2.85 | 5.39 |

The Rainfall for June was therefore only one half the average, and the continued drought was severely felt over the greater part of the Island.

A slight shock of Earthquake was felt in St. David's between 7 and 8 a.m. June 16th.

The forecast for June was verified, the difference being within one-fourth of the average.

ISLAND RAINFALL.

| | | Forecast. | Rainfall recorded. |
|------|----------|-----------|--------------------|
| 1885 | January | 2.00 | 1.27 |
| | February | 0.75 | 1.46 |
| | March | 1.50 | 0.94 |
| | April | 4.50 | 4.62 |
| | May | 8.00 | 4.63 |
| | June | 1.50 | 2.85 |
| | Sum | 18.25 | 15.77 |
| | July | 3.50 | ... |

STORM WARNINGS.

During the coming Hurricane season (August, September, October, and the first part of November), it is proposed to warn Kingston and the Island generally of all Storms and Barometric depressions which may pass within range of Jamaica, according to the system adopted in 1882, 1883, and 1884.

A daily telegram will be passed round the Island, stating the weather in Kingston at 7 a.m., and giving further information when necessary; this telegram enables the Out-ports to compare their readings with Kingston; and it prevents the general circulation of false alarms.

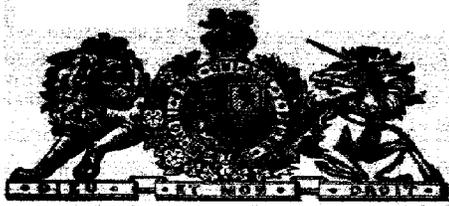
In case of approaching danger, special notices will be posted in Kingston at the Commercial Ex-

change, at Mr. John MacDonald's Store in Harbour Street, and at the Colonial Secretary's Office; all these notices will be signed by Mr. Robert Johnstone who has charge of the instruments in Kingston; and the notice will also be telegraphed round the Island. The danger flags of the U. S. Signal Service will be hoisted at the Commercial Exchange and the Colonial Secretary's Office; these flags are red with black squares in their centres.

Santiago de Cuba will exchange telegrams with Jamaica whenever the weather may be disturbed.

Kempshot Observatory,
July 16th, 1885.

MAXWELL HALL.



JAMAICA.

AUGUST 25, 1885.

No. 55.

WEATHER REPORT

FOR THE MONTH OF

JULY, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON
1885.

METEOROLOGICAL RESULTS FOR JULY, 1885.
KINGSTON:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.051 | 29.989 | 30.062 | 30.033 |
| Temperature of the air ... | 80° 7 | 85° 5 | 78° 0 | 81° 4 |
| Dew-point ... | 70° 1 | 74.0 | 72.2 | 72.1 |
| Humidity ... | 72 | 67 | 81 | 73 |
| Maximum Temp. ... | ... | ... | ... | 88° 9 |
| Minimum Temp. ... | ... | ... | ... | 73.8 |
| Range of Temp. ... | ... | ... | ... | 15.6 |
| Direction of the Wind ... | ... | ... | ... | S.E |
| Velocity of the Wind in Miles per hour ... | ... | ... | ... | 4.1 |
| Percentage of Cloud ... | ... | ... | ... | 43 |

Total Rainfall—1.03 inches.

Average Weather:—Dry and clear.

The highest temperature was 93° 2 recorded on the 23rd; the lowest was 70° 8 recorded on the 3rd; the extreme range was therefore 22° 4.

CINCHONA PLANTATION:—

| | | inches. |
|------------------------------------|------------|-----------|
| Barometric Pressure | 7 a.m. ... | 25.314 |
| " | 3 p.m. ... | 25.316 |
| Temperature of the air | 7 a.m. ... | 63° 7 |
| " | 3 p.m. ... | 69.8 |
| Dew-point | 7 a.m. ... | 57.6 |
| " | 3 p.m. ... | 60.5 |
| Maximum Temperature | ... | 73.5 |
| Minimum Temperature | ... | 60.2 |
| Direction of the Wind | ... | Easterly. |
| Velocity of Wind in Miles per hour | ... | 9.2 |
| Temperature 6 feet below ground | ... | 65° 1 |

BLUE MOUNTAIN PEAK:—

| | | |
|---------------------|-----|-------|
| Maximum Temperature | ... | 67° 5 |
| Minimum Temperature | ... | 48 |
| Rainfall in inches. | ... | 4.74 |

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 three 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 | 4,850 " |
| Blue Mountain Peak | 7,385 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 72° 1 and 55° 3 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 93° 3 and 72° 0 respectively.

NOTE—In the Weather Report for June, 1885, the mean minimum temperature at King's House was wrongly stated to be 91° 1: it should have been 71° 1.

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:—

| | July. | |
|--|------------|-----------|
| | 1885. | Average. |
| Infantile diseases not otherwise specified | 30 | 16 |
| Lung diseases ... | 22 | 18 |
| Fever ... | 7 | 6 |
| Dysentery and Diarrhoea | 9 | 3 |
| Various ... | 49 | 54 |
| Total | 117 | 97 |

There are no meteorological reasons for the large increase in the number of deaths from infantile diseases not otherwise specified.

RAINFALL FOR JULY, 1885.

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. 81 and 83 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. JULY.

| | | 1885. Average. | |
|------------------------|------------|------------------|-------------|
| | | In. | In. |
| Morant Point L. H. | St. Thomas | 1.40 | 3.48 |
| Hordley | ... | 3.48 | 6.29 |
| Holland | ... | ... | ... |
| Elmwood (Long Bay) | Portland | 2.84 | ... |
| Boston | ... | ... | ... |
| Port Antonio | ... | 4.06 | ... |
| Cinchona Plantation | St. Andrew | 2.90 | 4.78 |
| New Haven Gap | ... | 4.86 | ... |
| Newton | ... | 2.79 | ... |
| Tweedside | ... | 4.03 | ... |
| Stony Hill Reformatory | ... | 6.50 | 4.80 |
| Castleton Gardens | St. Mary | 4.78 | 7.32 |
| Dover | ... | ... | ... |
| Annotto Bay (Hospital) | ... | ... | ... |
| Water Valley | ... | 3.02 | 4.43 |
| Quebec | ... | 0.85 | ... |
| Port Maria | ... | 1.07 | ... |
| New Ramble | ... | ... | ... |
| Gayle | ... | ... | ... |
| Gosken | ... | 1.84 | 2.97 |
| Rio Hoe | St. Ann | 0.92 | 5.05 |
| Unity Valley | ... | 3.30 | 6.91 |
| Albion | ... | 2.55 | 4.13 |
| Bradfield | ... | 1.04 | 4.28 |
| Drax Hall | ... | 0.78 | 2.91 |
| Seville | ... | 0.05 | 2.02 |
| Richmond Estate | ... | 0.00 | 1.26 |
| Llandoverly | ... | 0.00 | 1.00 |
| Means | | 2.17 | 4.11 |

NORTHERN DIVISION.

JULY.

| | | 1885. Average. | |
|----------------|----------|------------------|------|
| | | In. | In. |
| Lillyfield | St. Ann | 0.08 | 2.58 |
| Home Castle | ... | 0.00 | ... |
| Richmond Pen | ... | 1.57 | ... |
| Colchis Pen | Trelawny | 0.78 | ... |
| Mahogany Hall | ... | 1.73 | 5.04 |
| Hopewell | ... | 1.44 | 4.16 |
| Brampton Bryan | ... | 0.05 | 3.37 |
| Bryan Castle | ... | 0.20 | 2.46 |
| Braco | ... | 0.05 | 2.41 |
| Arcadia | ... | 0.55 | ... |
| Harmony Hall | ... | 0.16 | 1.85 |

* Pastures damaged by a plague of Caterpillars.

NORTHERN DIVISION, continued.

| | | JULY. | |
|----------------------|-----------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Lancaster | Trelawny | 0.53 | 2.66 |
| Duncans | ... | 0.10 | ... |
| Vale Royal | ... | 0.70 | 3.48 |
| Hyde | ... | 2.57 | 6.22 |
| Georgia | ... | 0.57 | 2.92 |
| Steelfield | ... | 0.87 | 3.07 |
| Oxford | ... | 0.60 | ... |
| Cambridge | ... | 0.94 | 3.75 |
| Spring | ... | 0.54 | 1.44 |
| Lottery | ... | 0.61 | 2.40 |
| Falmouth | ... | 1.59 | 1.49 |
| Holland Pen | ... | 1.67 | ... |
| Golden Grove | ... | 1.10 | 5.70 |
| Fontabelle | ... | 1.80 | ... |
| Pembroke | ... | 0.00 | 3.06 |
| Green Park | ... | 1.35 | 2.40 |
| Phoenix | ... | 1.84 | ... |
| Tilston | ... | 1.28 | 4.44 |
| Orange Valley | ... | 1.31 | 2.84 |
| Kent | ... | 1.17 | 1.87 |
| Dundee | ... | 1.13 | 3.91 |
| Gale's Valley | ... | 1.03 | 5.30 |
| Greenwood | St. James | 0.62 | ... |
| Guildbro' | ... | 2.50 | ... |
| Spring Vale | ... | 2.85 | 8.29 |
| Latium | ... | 2.11 | 5.70 |
| Cinnamon Hill | ... | 0.42 | ... |
| Rose Hall | ... | 0.22 | ... |
| Running Gut | ... | ... | ... |
| Tryall | ... | 0.55 | ... |
| Irwin | ... | ... | ... |
| Ironshore | ... | 1.13 | 2.06 |
| Providence | ... | 0.49 | ... |
| Montago Bay (Market) | ... | 2.09 | ... |
| Catherine Hall | ... | 2.75 | 3.33 |
| Catherine Mount | ... | 1.33 | 4.89 |
| Fairfield | ... | 2.08 | ... |
| Means | | 1.07 | 3.47 |

WEST CENTRAL DIVISION.

| | | JULY. | |
|-----------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 4.41 | 5.05 |
| Whitney | Clarendon | 2.35 | 3.65 |
| Cave Valley | St. Ann | 3.19 | 5.15 |
| Marshall's Pen | Manchester | ... | ... |
| Barton Isles | St. Elizabeth | ... | ... |
| Appleton | ... | 4.22 | 7.54 |
| Windsor Pen | Trelawny | 3.78 | ... |
| Maroon Town | St. James | 4.66 | ... |
| Holland | St. Elizabeth | ... | ... |
| Kepp | ... | 10.93 | 8.31 |
| Mount Charles | ... | ... | ... |
| Mount Edgecombe | Westmoreland | 3.80 | 7.11 |
| Windsor Forest | ... | ... | ... |
| Woodstock | ... | 12.87 | ... |
| Kew Park | ... | 11.12 | ... |
| Hermitage | ... | 7.87 | ... |
| Chester Castle | Hanover | 9.64 | ... |
| Copse | ... | 4.50 | 8.66 |
| Haughton Grove | ... | 8.74 | ... |
| Kempshot | St. James | 2.98 | ... |
| Bandon | ... | 4.17 | ... |
| Anahovy | ... | 3.47 | 5.25 |
| Wiltshire | ... | 4.43 | 6.27 |
| Rden | ... | 3.53 | ... |

WEST CENTRAL DIVISION, continued.

| | | JULY. | |
|-----------------------|--------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Bound Hill | Hanover | 0.86 | 4.70 |
| Cacon Castle | ... | 4.83 | 7.75 |
| Golden Grove* | ... | 7.52 | 7.92 |
| Tryall | ... | 1.18 | 5.56 |
| Sweet River | Westmoreland | 7.34 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 7.65 | ... |
| Mackfield | ... | 9.64 | ... |
| Windsor (Sav.-la-Mar) | ... | 6.07 | 7.59 |
| Fontabelle | ... | 5.96 | ... |
| King's Valley | ... | 12.17 | ... |
| Retreat | ... | 9.05 | ... |
| Haughton Court | Hanover | 3.14 | ... |
| Orange Cove | ... | 1.42 | 6.62 |
| Abingdon | ... | 9.70 | ... |
| Means | | 4.21 | 6.81 |

SOUTHERN DIVISION

| | | JULY. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Albion Hospital | St. Thomas | 0.00 | ... |
| The Abbey | ... | 2.23 | ... |
| Halberstadt | St. Andrew | 0.80 | ... |
| Hope Plantation | ... | 1.86 | ... |
| Cherry Garden | ... | 4.03 | ... |
| King's House | ... | 1.92 | 2.17 |
| Monaltrie | ... | 1.81 | 2.73 |
| Public Works Office, | Kingston | 1.07 | 2.03 |
| Franklyn Town | ... | 1.60 | ... |
| Rae Town | ... | 1.03 | ... |
| Palisadoes Plantation. | ... | ... | ... |
| Plumb Point L. H. | ... | 0.14 | 2.17 |
| Spanish Town | St. Catherine | 1.51 | 1.84 |
| Windsor Park | ... | 0.43 | ... |
| Hog Hole Pen | ... | 0.58 | 2.41 |
| Headworks, R. C. C. | ... | 3.82 | 3.94 |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 1.38 | ... |
| Springfield | Clarendon | 0.00 | ... |
| Denbigh | ... | ... | ... |
| Farm Plantation | Manchester | 4.79 | 3.67 |
| Stone's Hope | ... | 4.04 | ... |
| Pepper | St. Elizabeth | 4.13 | 2.71 |
| Long Hill | ... | 3.09 | 4.34 |
| Potsdam | ... | 1.07 | ... |
| Gladock Hall | ... | 0.40 | ... |
| Santa Cruz (Poor House) | ... | 3.33 | ... |
| Black River | ... | 4.48 | 5.16 |
| Means | | 2.49 | 5.02 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 0.09 and 0.14 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | JULY. | |
|------------------------|---|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 2.17 | 4.11 |
| Northern | " | 1.07 | 3.47 |
| West Central | " | 4.21 | 6.81 |
| Southern | " | 2.49 | 5.02 |
| The Island | | 2.48 | 4.35 |

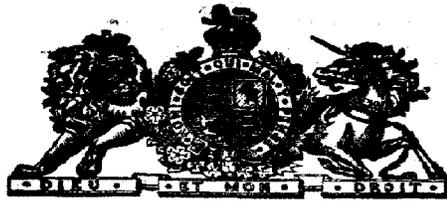
*Heavy showers of hail on the 11th.

The Rainfall for July was therefore only one half the average, and the continued drought was severely felt over the greater part of the Island. In the Northern Division springs have dried, which are known to have flowed continuously for forty years; cattle have died in large numbers for want of grass and water; and cane-fields have been damaged and in some instances destroyed by the drought. Along the sea-shore from St. Ann's Bay to Falmouth little or no rain fell; but in the West Central Division, 9 to 12 inches fell on a line from Kepp westwards to Green Island.

The forecast for July was verified, the difference being within one-fourth of the average.

| ISLAND RAINFALL. | | | |
|------------------|------------------|---------------------------|-------------------------|
| | <i>Forecast.</i> | <i>Rainfall recorded.</i> | <i>Rainfall Average</i> |
| 1885 | January | 2.00 | 4.47 |
| | February | 0.75 | 2.13 |
| | March | 1.50 | 3.13 |
| | April | 4.50 | 3.59 |
| | May | 8.00 | 8.76 |
| | June | 1.50 | 5.39 |
| | July | 3.50 | 4.35 |
| | | 21.75 | 18.28 |
| | August | 5.00 | 31.82 |
| | | ... | ... |
| | | | MAXWELL HALL. |

Kempshot Observatory,
Aug. 15th, 1885.



JAMAICA.

SEPTEMBER 30, 1885.

No. 56.

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1885.

METEOROLOGICAL RESULTS FOR AUG., 1885.
KINGSTON:—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 30.004 | 29.936 | 30.015 | 29.985 |
| Temperature of the air ... | 80°·3 | 86°·0 | 78°·2 | 81°·5 |
| Dew-point ... | 71°·4 | 73.1 | 74.6 | 73.0 |
| Humidity ... | 75 | 66 | 83 | 75 |
| Maximum Temp. ... | ... | ... | ... | 89°·3 |
| Minimum Temp. ... | ... | ... | ... | 73.8 |
| Range of Temp. ... | ... | ... | ... | 15.5 |
| Direction of the Wind ... | ... | ... | ... | S.E. |
| Velocity of the Wind in Miles per hour ... | ... | ... | ... | 3.4 |
| Percentage of Cloud ... | ... | ... | ... | 50 |

Total Rainfall—0.84 inches.

Average Weather:—Fair and dry.

The highest temperature was 92°·5 recorded on the 13th; the lowest was 71°·4 recorded on the 7th; the extreme range was therefore 21°·1.

CINCHONA PLANTATION:—

| | | in. |
|------------------------------------|------------|--------|
| Barometric Pressure | 7 a.m. ... | 25.279 |
| " | 3 p.m. ... | 25.268 |
| Temperature of the air | 7 a.m. ... | 64° |
| " | 3 p.m. ... | 67°·7 |
| Dew-point | 7 a.m. ... | 56.7 |
| " | 3 p.m. ... | 63° |
| Maximum Temperature | ... | 71°·5 |
| Minimum Temperature | ... | 60.6 |
| Direction of the Wind | ... | E |
| Velocity of Wind in Miles per hour | ... | 7.3 |
| Temperature 6 feet below ground | ... | 65°·5 |

BLUE MOUNTAIN PEAK:—

| | | |
|---------------------|-----|--------------|
| Maximum Temperature | ... | 70° |
| Minimum Temperature | ... | 47° |
| Rainfall | ... | 4.22 inches. |

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 three 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 | 4,850 " |
| Blue Mountain Peak | 7,335 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 73° and 56°·5 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 91°·8 and 72°·2 respectively.

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:—

| | AUGUST. | |
|--|-----------|-----------|
| | 1885. | Average. |
| Infantile diseases not otherwise specified | 16 | 12 |
| Lung diseases | 8 | 26 |
| Fever | 13 | 4 |
| Dysentery and Diarrhoea | 6 | 3 |
| Various | 56 | 43 |
| Total | 99 | 78 |

The large number of deaths from Fever may be attributed to the drying up of the ground after the rains during the preceding month.

RAINFALL FOR AUGUST, 1885.

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. AUGUST.

| | | 1885. Average. | |
|------------------------|------------|------------------|-------------|
| | | In. | In. |
| Morant Point L. H. | St. Thomas | 1.99 | 5.46 |
| Hordley | ... | 3.35 | 10.78 |
| Holland | ... | ... | ... |
| Elmwood (Long Bay) | Portland | 6.31 | ... |
| Boston | ... | 11.94 | ... |
| Port Antonio | ... | 9.91 | ... |
| Cinchona Plantation | St. Andrew | 7.25 | 8.18 |
| New Haven Gap | ... | 5.91 | ... |
| Newton | ... | 4.00 | ... |
| Tweedside | ... | ... | ... |
| Stony Hill Reformatory | ... | 7.66 | 12.66 |
| Castleton Gardens | St. Mary | 13.22 | 10.43 |
| Dover | ... | 1.55 | ... |
| Annotto Bay (Hospital) | ... | ... | ... |
| Water Valley | ... | ... | ... |
| Quebec | ... | 4.03 | ... |
| Port Maria | ... | 4.35 | ... |
| New Ramble | ... | 4.40 | 5.69 |
| Gayle | ... | 5.27 | 6.26 |
| Gosken | ... | 5.54 | 6.29 |
| Rio Hoe | St. Ann | 5.72 | 8.56 |
| Unity Valley | ... | 8.49 | 5.33 |
| Albion | ... | 5.19 | 5.85 |
| Bradfield | ... | 4.22 | 5.05 |
| Drax Hall | ... | 3.45 | 3.81 |
| Seville | ... | 4.52 | 3.63 |
| Richmond Estate | ... | 4.76 | 3.67 |
| Llandoverly | ... | 2.61 | 2.29 |
| Means | | 5.48 | 6.50 |

NORTHERN DIVISION.

| | | AUGUST. | |
|-------------------|----------|-----------------|------|
| | | 1885. Average | In. |
| Lillyfield | St. Ann | 5.51 | 5.50 |
| Home Castle | ... | 2.78 | ... |
| Richmond Pen | ... | 6.23 | ... |
| Colechis Pen | Trelawny | 4.75 | ... |
| Mahogany Hall | ... | 5.24 | 6.34 |
| Hopewell | ... | 3.84 | 5.50 |
| Brampton Bryan | ... | 1.85 | 4.64 |
| Bryan Castle | ... | 1.31 | 3.54 |
| Nightingale Grove | ... | ... | ... |
| Braco | ... | 3.14 | 3.88 |
| Arcadia | ... | 4.15 | ... |
| Harmony Hall | ... | 3.19 | 2.82 |
| Lancaster | ... | 3.88 | 3.87 |
| Duncans | ... | 2.00 | ... |
| Vale Royal | ... | 5.53 | 5.44 |

NORTHERN DIVISION, *continued.*

| | | AUGUST. | |
|----------------------|-----------|---------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Hyde | Trelawny | 9.81 | 7.12 |
| Georgia | ... | 2.86 | ... |
| Steelfield | ... | 2.71 | 4.66 |
| Oxford | ... | 1.87 | ... |
| Cambridge | ... | 3.70 | 4.17 |
| Spring | ... | 2.84 | 3.67 |
| Lottery | ... | 2.78 | 3.96 |
| Falmouth | ... | 3.84 | 3.00 |
| Holland Pen | ... | 2.95 | ... |
| Golden Grove | ... | 6.85 | 5.50 |
| Fontabelle | ... | 10.12 | ... |
| Pembroke | ... | 4.83 | 5.25 |
| Green Park | ... | 3.77 | 3.79 |
| Phoenix | ... | 8.41 | ... |
| Tilston | ... | 5.78 | 5.94 |
| Orange Valley | ... | 3.59 | 3.57 |
| Kent | ... | 4.52 | 2.90 |
| Dundee | ... | 5.73 | 5.36 |
| Gale's Valley | ... | 5.80 | 6.88 |
| Greenwood | St. James | 3.23 | ... |
| Guildbro' | ... | 6.35 | ... |
| Spring Vale | ... | 14.04 | 12.84 |
| Latium | ... | 7.36 | 8.67 |
| Cinnamon Hill | ... | 4.52 | ... |
| Rose Hall | ... | 3.10 | ... |
| Running Gut | ... | ... | ... |
| Tryall | ... | 3.40 | ... |
| Irwin | ... | 5.29 | 6.40 |
| Ironshore | ... | 4.86 | 4.41 |
| Providence | ... | 3.76 | ... |
| Montego Bay (Market) | ... | 6.25 | ... |
| Catherine Hall | ... | 6.75 | 6.40 |
| Catherine Mount | ... | 7.07 | 8.31 |
| Fairfield | ... | 8.36 | ... |
| Means | | 4.80 | 5.22 |

WEST CENTRAL DIVISION, AUGUST.

| | | AUGUST. | |
|---------------------|---------------|---------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Linstead | St. Catherine | 11.95 | 7.41 |
| Whitney | Clarendon | 12.70 | 11.85 |
| Cave Valley | St. Ann | 8.74 | 8.68 |
| Marshall's Pen | Manchester | ... | ... |
| Mandeville (Prison) | ... | ... | ... |
| Barton Isles | St. Elizabeth | 14.12 | ... |
| Appleton | ... | 13.02 | 12.48 |
| Windsor Pen | Trelawny | 11.77 | ... |
| Maroon Town | St. James | 11.20 | ... |
| Holland | St. Elizabeth | 11.05 | ... |
| Kepp | ... | 11.15 | 11.32 |
| Mount Charles | ... | ... | ... |
| Mount Edgewcombe | Westmoreland | 4.18 | 5.96 |
| Windsor Forest | ... | 12.31 | ... |
| Woodstock | ... | 16.70 | ... |
| Kew Park | ... | 12.12 | ... |
| Hermitage | ... | 12.00 | ... |
| Chester Castle | Hanover | 10.62 | ... |
| Copse | ... | 12.00 | 12.70 |
| Houghton Grove | ... | 15.44 | ... |
| Kempshot | St. James | 8.02 | ... |
| Bandon | ... | 13.32 | ... |
| Anchovy | ... | 7.02 | 8.83 |
| Wiltshire | ... | 6.85 | 8.57 |
| Eden | ... | 6.97 | ... |
| Round Hill | Hanover | 5.85 | 5.46 |
| Cacon Castle | ... | 10.24 | 10.86 |
| Golden Grove | ... | 15.05 | 11.04 |
| Tryall | ... | 7.60 | 6.06 |

* Shower of hail on 3rd.

WEST CENTRAL DIVISION, *continued.*

| | | AUGUST. | |
|----------------------|--------------|---------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Sweet River | Westmoreland | 8.59 | ... |
| Shrewsbury | ... | 12.68 | ... |
| Paradise Pen | ... | 7.80 | ... |
| Mackfield | ... | 11.05 | ... |
| Windsor (Sav-la-Mar) | ... | 4.77 | 7.17 |
| Fontabelle | ... | 11.15 | ... |
| King's Valley | ... | 12.59 | ... |
| Retreat | ... | ... | ... |
| Houghton Court | Hanover | 9.23 | ... |
| Orange Cove | ... | 8.72 | 7.45 |
| Abingdon | ... | 12.18 | ... |
| Means | | 9.38 | 9.05 |

SOUTHERN DIVISION.

| | | AUGUST. | |
|-------------------------|---------------|---------|---------|
| | | 1885. | Average |
| | | In. | In. |
| Albion Hospital | St. Thomas | 1.00 | ... |
| The Abbey | ... | 6.25 | ... |
| Halberstadt | St. Andrew | 3.93 | ... |
| Hope Plantation | ... | 1.65 | ... |
| Cherry Garden | ... | 5.62 | ... |
| King's House | ... | 2.43 | 7.75 |
| Monaltrie | ... | 1.44 | 6.36 |
| Public Works Office | Kingston | 1.04 | 6.01 |
| Franklyn Town | ... | 1.11 | ... |
| Rae Town | ... | 0.84 | ... |
| Palisadoes Plantation | ... | 1.17 | 8.29 |
| Plumb Point L. H. | ... | 1.14 | 5.32 |
| Spanish Town | St. Catherine | 2.99 | 7.28 |
| Windsor Park | ... | 1.23 | ... |
| Hog Hole Pen | ... | 2.34 | 7.24 |
| Headworks, R. C. C. | ... | 1.17 | 8.14 |
| Roden Pen | ... | ... | ... |
| Old Harbour | ... | 1.99 | ... |
| Springfield | Clarendon | 2.51 | ... |
| Denbigh | ... | ... | ... |
| Farm Plantation | Manchester | 5.25 | 10.15 |
| Stone's Hope | ... | 7.37 | ... |
| Pepper | St. Elizabeth | 5.57 | 7.61 |
| Long Hill | ... | 4.66 | 5.69 |
| Potsdam | ... | 6.82 | ... |
| Gibson Hall | ... | 7.91 | ... |
| Santa Cruz (Poor House) | ... | 12.63 | ... |
| Black River | ... | 5.19 | 7.21 |
| Means | | 2.79 | 7.25 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 0.91 and 1.14 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | AUGUST. | |
|------------------------|---|---------|---------|
| | | 1885. | Average |
| | | In. | In. |
| North Eastern Division | | 5.48 | 6.50 |
| Northern | " | 4.80 | 5.22 |
| West Central | " | 9.38 | 9.05 |
| Southern | " | 2.79 | 7.25 |
| The Island | | 5.61 | 7.00 |

The Rainfall for August was therefore nearly the average, excepting indeed the Southern Division where the Rainfall was small. The largest fall, namely 16.70 inches was recorded at Woodstock in Westmoreland; the smallest, 0.84, was recorded at Rae Town near Kingston. Regarding the Island generally it may be said that the long continued drought gave place to average rains in August.

ISLAND RAINFALL.

| | Forecast. | Rainfall recorded. | Average Rainfall |
|--------------|-----------|--------------------|------------------|
| | In. | In. | In. |
| 1885—January | 2.00 | 1.30 | 4.47 |
| February | 0.75 | 1.46 | 2.13 |
| March | 1.50 | 0.94 | 3.13 |
| April | 4.50 | 4.62 | 3.59 |
| May | 8.00 | 4.63 | 8.76 |
| June | 1.50 | 2.85 | 5.39 |
| July | 3.50 | 2.48 | 4.35 |
| August | 5.00 | 5.61 | 7.00 |
| Sum | 26.75 | 23.89 | 38.82 |
| September | 7.00 | ... | ... |

EARTHQUAKE No. 19.—At about 7.15 p.m. on Sunday, the 30th of August, strong shocks of Earthquake were felt throughout the Island; the shocks generally occurred in two series, indicating that the centre of disturbance was far below the surface.

The following Meteorological particulars have been taken from the Kingston Register:—

Barometer corrected and reduced.

| | in |
|------------------|--------|
| 24 hours before | 29.954 |
| 16 " " | 29.960 |
| 8 " " | 29.994 |
| At time of shock | 30.013 |
| 8 hours after | 30.015 |
| 16 " " | 30.014 |
| 24 " " | 30.000 |

Total miles of Wind.

| | |
|---------------------------------|----|
| Aug. 29th:—day before the shock | 75 |
| Aug. 30th:—day of shock | 65 |
| Aug. 31st:—day after shock | 64 |

Temperature of the Air.

| | Min. | Mean. | Max. |
|-----------|-------|-------|-------|
| Aug. 29th | 72° 5 | 81° 6 | 88° 1 |
| Aug. 30th | 74.0 | 78.2 | 90.1 |
| Aug. 31st | 71.6 | 81.1 | 91.2 |

Clouds and Rain.

| | Cloud. per. cent. | Rain. in. |
|-----------|-------------------|-----------|
| Aug. 29th | 20 | 0.00 |
| Aug. 30th | 70 | 0.35 |
| Aug. 31st | 0 | 0.00 |

The Barometer did not therefore fall as it generally does at the time of a shock; but if we compare these readings with those referring to No. 4, Dec. 30th, 1880, we see that the Barometer behaved in exactly the same manner on both occasions. It may therefore be necessary to discriminate between light and strong shocks,—a matter for discussion in a Second Report on Earthquakes as soon as No. 20 shall have occurred.

Kingston.—A sharp double shock of earthquake was felt at 7 hr., 15 min., 23 sec.*; the first shock lasted about 5 sec.; there was an interval of about 5 sec.; and the second shock lasted about 23 sec. The weather was fair in the morning, cloudy in the afternoon, with rain squalls from the East between 2 and 4 p.m.

Kempshot.—A very slight shock was felt at 7 hr., 19 min., 56 sec. p.m. Kingston mean time. From 6 to 7 p.m., the wind blew strongly from the East; then there was a lull, the shock occurred, and the wind rose again in half an hour or so.

A remarkable squall with rain accompanied by

* No authority is given for this time.

† Time taken from a watch subsequently compared with the Chronometer.

thunder and lightning passed over the western half of the island that afternoon; there were light rains about sunset.

Now as the distance between the Observatory and Lord Rodney's Statue in Kingston is 136,300 British standard yards, we find that the shock travelled with a velocity of 1,497 feet per second*, assuming that the time of occurrence at Kingston is correctly given above; and this velocity indicates great solidity and compactness in our Limestone formation, from the most general point of view possible; for Mallet found that the velocity of sound through contorted rocks is only 1088 feet per second, but through solid granite 1,664 feet per second.—Ganot's (*Physics*.)

Cinchona Plantation.—“A shock of Earthquake, not severe, but prolonged for about 30 seconds, was felt at 7.19 p.m. on Sunday evening the 30th August. The direction as far as could be gathered was from S to N. The readings of the Barometer that day were as follows:—

| | In. |
|-----------|--------|
| 3 p.m. | 25.360 |
| 7.15 p.m. | 25.368 |
| 8.43 p.m. | 25.386 |

The weather was showery with light gusty winds up to about 4 p.m., when it became warm and close. At the time of the shock the air was calm and quiet.”—(*Mr. D. Morris*.)

Rose Hall, Linstead.—“Two shocks of earthquake were felt here at 25 minutes past 7 yesterday evening. The first shock was a double one; and the second, which was more severe, followed 20 seconds afterwards. The waves appeared to move from SE to NW and were accompanied by a loud rumbling noise. The loud noise preceded and followed the shocks. ——— we had a very strong squall of wind about 1 p.m. which was felt all over the district. Rain fell at some places.”—(*Mr. D. Campbell*.)

Glasgow, St. James.—“Two distinct smart shocks of earthquake following each other very quickly were felt here last evening (30th), at 7.20 p.m. The weather here at the time was very calm, with sky overcast with rain clouds and showery. Throughout the day it had been wild and unsettled with occasional showers, but in the afternoon between 3 and 5 p.m. there was experienced a heavy storm of wind, rain, thunder and lightning. No rumbling sound was heard.—(*Rev. J. A. Garcia del Rio*.)

Montego Bay, St. James.—“The day had been hot with gusts of wind at intervals. In the afternoon a few showers had fallen, and then occurred a stillness and calm. About 6.30 p.m. it rained heavily for some time, and then there came a great closeness and oppression in the atmosphere, followed at 7.15 p.m. by a sudden upheaval, a short stillness of a few seconds, and then a violent shaking for some seconds longer. The oscillations appeared to be from NE to SW. After the convulsion which as usual was accompanied by a rumbling noise and a gust of wind, the air became cooler.”—(*Nineteenth Century*.)

Boston, Portland—7.25 p.m. Two severe shocks.

Elmwood “ 7.20 p.m. Sharp earthquake.

Hordley, St. Thomas—7.7 p.m. Earthquake lasting about 10 sec. and apparently from SE to NW.

The Abbey, St. Thomas—7.15 p.m. Smart double shock.

Halberstadt, St. Andrew—7.28 p.m. Earthquake lasting several seconds—the longest and severest felt during the past 42 years—apparently continuous, and without any break or interruption.

* For reasons afterwards stated we have assumed that the shock came first to the surface among the Port Royal Mountains, so that the difference of the distances of the two places from the superficial centre is nearly equal to the distance of the two places from one another.

Cherry Garden, St. Andrew.—7 to 7.30 p.m. Slight shock.

Kings' House (Gardens), St. Andrew.—7.21 p.m. Two sharp shocks.

Cottage Grove, Kingston.—7.20 p.m. Double shock: the two shocks were within 15 secs. of each other. Believed to be from SE to NW.

New Ramble, St. Mary.—7.20 p.m. Two shocks.

St. Ann's Bay.—7.25 p.m. Severe shock.

Mahogany Hall, Trelawny.—7.0 p.m. Two sharp shocks: rumbling sound: undulations from NE.

Spring, Trelawny.—7.30 p.m. Earthquake.

Pembroke " 7.15 p.m. Two sharp shocks

Kent " 7.30 p.m. Severe shock.

Ironshore, St. James.—This shock was felt; also another at about 9.30 p.m.

Kepp, St. Elizabeth.—7.15 p.m. Two shocks, each lasting 5 secs. with an interval of 20 secs. The second more severe than the first. They seemed to come from SSE.

Potsdam, St. Elizabeth.—7.45 p.m. Two slight shocks.

Siloah " " 6.45 p.m. Sharp shock lasting some secs.

Haughton Grove, Hanover.—7.15 p.m. Two slight shocks.

Windsor Forest, Westmoreland.—7.10 p.m. Severe shock.

Fontabelle, Westmoreland.—7.20 p.m. Sharp shock.

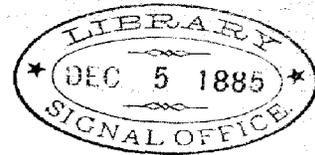
From these notes it may be gathered that no reliance should be placed upon the apparent direction of the shocks; and that excepting Potsdam and Siloah, the time was very fairly kept and given throughout the whole island.

Moreover, if we compare the accounts given by Mr. D. Morris at the Cinchona Plantation and Mr. S. Mais at Halberstadt with the rest, we are led to infer that the commotion came first to the surface somewhere about the middle of our eastern Earthquake district (St. David, Port Royal Mountains and St. George), for at this point there would be only one long continued series of shocks transmitted to the surface from the centre of commotion far below, and of course other places would receive two series of shocks,—the first directly from the centre below the surface, and the second from the Port Royal Mountains themselves as from a second centre. And this is confirmed by comparing the shocks at Kingston with those at Linstead, Kepp and elsewhere; at Kingston, the second shock closely followed the first, but at Linstead and Kepp there was a much longer interval.

At Kempshot and Potsdam, which are both upon abrupt hills, the shocks were hardly felt; and generally, configuration of mountains, and distribution of mountains and plains are well-known to modify the transmission of earthquake shocks.

MAXWELL HALL.

Kempshot Observatory,
Sept. 19th 1885.



JAMAICA.

OCTOBER 24, 1885.

No. 57.

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1885.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1885.

METEOROLOGICAL RESULTS FOR SEPT., 1885.
KINGSTON :—

| | 7 a.m. | 3 p.m. | 11 p.m. | Mean. |
|--|--------|--------|---------|--------|
| | in. | in. | in. | in. |
| Barometric pressure ... | 29.977 | 29.903 | 29.990 | 29.956 |
| Temperature of the air ... | 77.1 | 85.8 | 78.5 | 81° 0 |
| Dew-point ... | 73.4 | 73.1 | 73.5 | 73.3 |
| Humidity ... | 83 | 66 | 87 | 78 |
| Maximum Temp. ... | ... | ... | ... | 88° 7 |
| Minimum Temp. ... | ... | ... | ... | 74° 2 |
| Range of Temp. ... | ... | ... | ... | 14.5 |
| Direction of the Wind ... | ... | ... | ... | S.E |
| Velocity of the Wind in Miles per hour ... | ... | ... | ... | 2.2 |
| Percentage of Cloud ... | ... | ... | ... | 61 |

Total Rainfall—5.11 inches.

Average Weather :—Close and cloudy.

The highest temperature was 91° 6 recorded on the 9th ; the lowest was 71° 6 recorded on the 28th ; the extreme range was therefore 20° 0.

CINCHONA PLANTATION :—

| | | in. |
|------------------------------------|------------|----------|
| Barometric Pressure | 7 a.m. ... | 25.261 |
| " | 3 p.m. ... | 25.237 |
| Temperature of the air | 7 a.m. ... | 63° 8 |
| " | 3 p.m. ... | 65° 9 |
| Dew-point | 7 a.m. ... | 58.1 |
| " | 3 p.m. ... | 64.5 |
| Maximum Temperature | ... | 70° 9 |
| Minimum Temperature | ... | 60° 7 |
| Direction of the Wind | ... | Easterly |
| Velocity of Wind in Miles per hour | ... | 3.8 |
| Temperature 6 feet below ground | ... | 65.5 |

BLUE MOUNTAIN PEAK :—

| | | |
|---------------------|-----|--------------|
| Maximum Temperature | ... | 78° |
| Minimum Temperature | ... | 49° |
| Rainfall | ... | 1.76 inches. |

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 three 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 | 4,850 " |
| Blue Mountain Peak | 7,335 " |

At New Haven Gap (in the Blue Mountain Range elevation about 5,600 feet) the mean maximum and minimum temperatures were 74° 3 and 56° 9 respectively.

At King's House (in the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 90° 5 and 72° 5 respectively.

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 :—

| | SEPTEMBER. | |
|--|------------|----------|
| | 1885. | Average. |
| Infantile diseases not otherwise specified | 12 | 11 |
| Lung diseases | 11 | 13 |
| Fever | 10 | 5 |
| Dysentery and Diarrhœa | 4 | 2 |
| Various | 33 | 39 |
| Total | 70 | 70 |

RAINFALL FOR SEPTEMBER 1885.

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. | | SEPTEMBER. | |
|-------------------------|------------|------------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Morant Point L. H. | St. Thomas | 2.20 | 7.64 |
| Hordley | ... | 4.28 | 12.98 |
| Holland | ... | 2.10 | ... |
| Elmwood (Long Bay) | Portland | 5.18 | ... |
| Boston | ... | 11.51 | ... |
| Port Antonio | ... | 10.57 | ... |
| Cinchona Plantation | St. Andrew | 3.19 | 13.21 |
| New Haven Gap | ... | 2.66 | ... |
| Newton | ... | 4.21 | ... |
| Stony Hill Reformatory | ... | 7.77 | 10.26 |
| Castleton Gardens | St. Mary | 4.37 | 11.22 |
| Dover | ... | 0.09 | ... |
| Water Valley | ... | 1.64 | 7.28 |
| Quebec | ... | 1.75 | ... |
| Port Maria | ... | 1.08 | ... |
| New Ramble | ... | 2.50 | 5.88 |
| Gayle | ... | 5.45 | 6.21 |
| Gosten | ... | 4.43 | 5.77 |
| Rio Hoe | St. Ann | 3.39 | 6.51 |
| Unity Valley | ... | 7.30 | 7.62 |
| Albion | ... | 7.99 | 6.36 |
| Bradfield | ... | 4.54 | 6.19 |
| Drax Hall | ... | 2.12 | 4.21 |
| Seville | ... | 1.58 | 4.22 |
| Richmond Estate | ... | 1.99 | 5.69 |
| Llandoverly | ... | 1.83 | 4.70 |
| Means | | 4.09 | 7.41 |

| NORTHERN DIVISION. | | SEPTEMBER. | |
|--------------------|----------|------------|----------|
| | | 1885. | Average. |
| | | In. | In. |
| Lillyfield | St. Ann | 4.84 | 6.13 |
| Home Castle | ... | 3.15 | ... |
| Richmond Pen | ... | 7.50 | ... |
| Colchis Pen | Trelawny | 6.57 | ... |
| Mahogany Hall | ... | 12.84 | 4.14 |
| Hopewell | ... | 6.00 | 5.11 |
| Brampton Bryan | ... | 2.55 | 4.34 |
| Bryan Castle | ... | 2.10 | 4.04 |
| Braco | ... | 2.55 | 4.55 |
| Areadia | ... | 5.00 | ... |
| Harmony Hall | ... | 4.75 | 4.61 |
| Lancaster | ... | 4.21 | 4.80 |
| Duncans | ... | 2.30 | ... |
| Vale Royal | ... | 5.63 | 4.98 |
| Hyde | ... | 10.52 | 7.03 |
| Georgia | ... | 4.21 | 4.08 |
| Steelfield | ... | 5.45 | 4.51 |
| Oxford | ... | 6.34 | ... |
| Cambridge | ... | 7.19 | 4.56 |
| Spring | ... | 5.50 | 3.70 |
| Lottery | ... | 7.51 | 4.77 |
| Falmouth | ... | 3.33 | 3.29 |
| Holland Pen | ... | 2.95 | ... |
| Golden Grove | ... | 3.40 | 6.90 |
| Hampstead | ... | 5.21 | ... |
| Fontabelle | ... | 6.70 | ... |

NORTHERN DIVISION, *continued.*

| | | SEPTEMBER. | |
|----------------------|-----------|-----------------|------|
| | | 1885. Average | |
| | | In. | In. |
| Pembroke | ... | 2.70 | 5.72 |
| Green Park | ... | ... | ... |
| Phoenix | ... | 7.23 | ... |
| Tilston | ... | 3.45 | 4.26 |
| Orange Valley | ... | 2.62 | 2.73 |
| Kent | ... | 2.69 | 4.49 |
| Dundee | ... | 1.50 | 3.98 |
| Gale's Valley | ... | 6.40 | 5.73 |
| Greenwood | St. James | 0.97 | ... |
| Gullsbro' | ... | 5.80 | ... |
| Spring Vale | ... | ... | ... |
| Latium | ... | 11.24 | 5.67 |
| Cinnamon Hill | ... | ... | ... |
| Rose Hall | ... | ... | ... |
| Running Gut | ... | 3.87 | 3.66 |
| Tryall | ... | ... | ... |
| Irwin | ... | 9.09 | 6.75 |
| Ironshore | ... | 5.84 | 4.75 |
| Providence | ... | 5.18 | ... |
| Montego Bay (Market) | ... | 5.45 | ... |
| Catherine Hall | ... | 7.40 | 7.77 |
| Catherine Mount | ... | 6.84 | 6.10 |
| Fairfield | ... | 7.54 | ... |
| Means | | 5.38 | 4.93 |

WEST CENTRAL DIVISION.

| | | SEPTEMBER. | |
|----------------------|---------------|------------------|-------|
| | | 1885. Average. | |
| | | In. | In. |
| Linstead | St. Catherine | 6.79 | 9.16 |
| Whitney | Clarendon | 5.00 | 9.51 |
| Cave Valley | St. Ann | 9.23 | 7.36 |
| Marshall's Pen | Manchester | ... | ... |
| Barton Isles | St. Elizabeth | 12.56 | ... |
| Appleton | ... | 10.94 | 11.55 |
| Windsor Pen | Trelawny | 10.69 | ... |
| Maroon Town | St. James | 17.33 | ... |
| Holland | St. Elizabeth | 9.53 | ... |
| Kepp | ... | 11.07 | 11.91 |
| Mount Edgecombe | Westmoreland | 6.42 | 9.43 |
| Windsor Forest | ... | ... | ... |
| Woodstock | ... | 7.02 | ... |
| Kew Park | ... | 9.20 | ... |
| Hermitage | ... | 12.17 | ... |
| Chester Castle | Hanover | 12.15 | ... |
| Copse | ... | 13.50 | 10.79 |
| Haughton Grove | ... | 8.18 | ... |
| Kempshot | St. James | 10.38 | ... |
| Bandon | ... | 19.02 | ... |
| Anchovy | ... | 12.48 | 7.79 |
| Wiltshire | ... | 8.55 | 8.65 |
| Eden | ... | 7.82 | ... |
| Round Hill | Hanover | 7.87 | 5.37 |
| Cacoon Castle | ... | ... | ... |
| Golden Grove | ... | 11.41 | 15.29 |
| Tryall | ... | 12.90 | 4.67 |
| Sweet River | Westmoreland | 5.59 | ... |
| Shrewsbury | ... | ... | ... |
| Paradise Pen | ... | 7.30 | ... |
| Mackfield | ... | 12.27 | ... |
| Windsor (Sav-la-Mar) | ... | 4.42 | 6.93 |
| Fontabelle | ... | 7.79 | ... |
| King's Valley | ... | 12.07 | ... |
| Retreat | ... | ... | ... |
| Haughton Court | Hanover | 6.86 | ... |
| Orange Cove | ... | 6.76 | 8.19 |
| Abingdon | ... | 8.91 | ... |
| Means | | 9.09 | 9.04 |

SOUTHERN DIVISION.

| | | SEPTEMBER. | |
|-------------------------|---------------|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| Albion Hospital | St. Thomas | 2.00 | ... |
| The Abbey | ... | 9.60 | ... |
| Halberstadt | St. Andrew | 7.85 | ... |
| Hope Plantation | ... | 3.69 | ... |
| Cherry Garden | ... | ... | ... |
| King's House | ... | 5.80 | 3.79 |
| Monaltrie | ... | 6.28 | 7.20 |
| Public Works Office | Kingston | 5.15 | 5.03 |
| Franklyn Town | ... | 5.44 | ... |
| Rae Town | ... | 5.11 | ... |
| Palisadoes Plantation | ... | 7.83 | 3.21 |
| Plumb Point L. H. | ... | 7.22 | 4.30 |
| Spanish Town | St. Catherine | 4.69 | 4.69 |
| Windsor Park | ... | 2.13 | ... |
| Hog Hole Pen | ... | 5.83 | 6.55 |
| Headworks, R. C. C. | ... | 6.02 | 6.56 |
| Old Harbour | ... | 2.55 | ... |
| Springfield | Clarendon | 5.75 | ... |
| Denbigh | ... | ... | ... |
| Farm Plantation | Manchester | 5.79 | 7.65 |
| Stone's Hope | ... | 4.25 | ... |
| Pepper | St. Elizabeth | 7.31 | 7.72 |
| Long Hill | ... | 5.08 | 9.20 |
| Potsdam | ... | 4.83 | ... |
| Green St. Hall | ... | 7.69 | ... |
| Santa Cruz (Poor House) | ... | ... | ... |
| Black River | ... | 4.80 | 5.07 |
| Means | | 6.02 | 5.91 |

At the Plumb Point Light House, the upper gauge is 68 feet above the lower; these gauges registered 6.30 and 7.22 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

| | | SEPTEMBER. | |
|------------------------|--|------------------|------|
| | | 1885. Average. | |
| | | In. | In. |
| North Eastern Division | | 4.09 | 7.41 |
| Northern | | 5.35 | 4.93 |
| West Central | | 9.09 | 9.04 |
| Southern | | 6.02 | 5.91 |
| The Island | | 6.14 | 6.82 |

The Rainfall for September was therefore nearly the average, excepting indeed the North Eastern Division where the Rainfall was small. The largest fall, namely 19.02 inches was recorded at Bandon in St. James; the smallest, 0.00, occurred at Dover in St. Mary.

The forecast for September was verified.

ISLAND RAINFALL.

| | Forecast. | Rainfall recorded. | Average Rainfall |
|--------------|-----------|--------------------|------------------|
| | In. | In. | In. |
| 1885—January | 2.00 | 1.30 | 4.47 |
| February | 0.75 | 1.46 | 2.13 |
| March | 1.50 | 0.94 | 3.13 |
| April | 4.50 | 4.62 | 3.59 |
| May | 8.00 | 4.63 | 8.76 |
| June | 1.50 | 2.85 | 5.39 |
| July | 3.50 | 2.48 | 4.85 |
| August | 5.00 | 5.61 | 7.00 |
| September | 7.00 | 6.14 | 6.82 |
| | 33.75 | 30.03 | 45.64 |
| October | 8.00 | ... | ... |

MAXWELL HALL.

Kempshot Observatory,
October 17th, 1885.