

## RAINFALL AT Thelwall, Hightfield

Lat. .... Lon. .... County of Cheshire .....

..... Rain Gauge, by..... Observer T. G. Reynolds Esq. ....

Upper Merey - 1.

| Diameter ..... | 5"       |       |       |       |       |       |       |       |       |       |          |
|----------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| Height .....   | 1.       |       |       |       |       |       |       |       |       |       |          |
| Altitude ..... | 118 118" |       |       |       |       |       |       |       |       |       |          |
| YEAR .....     | 1870     | 1871  | 1872  | 1873  | 1874  | 1875  | 1876  | 1877  | 1878  | 1879  | MEANS.   |
| January.....   | 4.43     | 2.57  | 2.62  | 3.52  | 1.35  | 4.13  | 3.15  | 1.50  |       |       |          |
| February ..... | 2.71     | 44    | 1.07  | 76    | 3.23  | 3.14  | 1.44  | 2.74  |       |       |          |
| March .....    | 2.36     | 3.89  | 1.71  | 49    | 2.67  | 2.04  | 1.25  | 1.27  |       |       |          |
| April.....     | 2.56     | .64   | .95   | .49   | 2.59  | 2.32  | 1.66  | 3.03  |       |       |          |
| May .....      | 2.02     | 1.42  | 1.94  | 1.80  | 1.28  | 2.74  | 4.31  | 2.26  |       |       |          |
| June .....     | 5.94     | 1.81  | .85   | 2.91  | 3.59  | 1.08  | 2.62  | 4.25  |       |       |          |
| July .....     | 5.78     | 2.72  | 2.66  | 4.71  | 2.35  | 6.53  | .71   | 2.92  |       |       |          |
| August.....    | 3.25     | 3.04  | 3.80  | 2.23  | 3.08  | 4.77  | 4.76  | 4.35  |       |       |          |
| September....  | 5.35     | 2.42  | 2.86  | 4.34  | 3.69  | 3.03  | 3.57  | 3.49  |       |       |          |
| October.....   | 5.45     | 8.46  | 3.265 | 17    | 2.19  | 3.45  | 3.22  | 1.51  |       |       |          |
| November....   | 3.69     | 1.90  | 4.27  | 3.20  | 3.83  | 5.20  | 1.82  | .83   |       |       |          |
| December....   | 3.98     | .72   | 2.58  | 1.00  | 4.53  | 2.81  | 2.10  | 1.54  |       |       |          |
| TOTALS.....    | 22.50    | 1.850 | 47.52 | 24.53 | 28.57 | 30.62 | 34.38 | 41.24 | 30.61 | 29.69 | (31.81%) |

C

Lynn church 1 mile E.

Grappenhall ch. 1 mile W.

1870 + 1871 computed from Bowden The Beeches  
+ Altringham Barrington House

## RAINFALL AT Thelwall

(Highfields)

Lat.

Long.

County of Cheshire

70

20

Lunndown Rain Gauge, by

Observer T. G. Rylands Esq.

Upper Mersey - t.

Monthly

|               |      |      |      |      |      |      |      |       |       |       |        |
|---------------|------|------|------|------|------|------|------|-------|-------|-------|--------|
| Diameter .... |      |      |      |      |      |      |      |       |       | 5     | .      |
| Height ....   |      |      |      |      |      |      |      |       |       | 7     | -      |
| Altitude .... |      |      |      |      |      |      |      |       |       | 118   | .      |
| Year ....     | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877  | 1878  | 1879  | MEANS, |
| January ....  |      |      |      |      |      |      |      | 4.13  | 3.15  | 1.58  |        |
| February, ..  |      |      |      |      |      |      |      | 3.16  | 1.44  | 2.86  |        |
| March .....   |      |      |      |      |      |      |      | 2.08  | 1.24  | 1.28  |        |
| April .....   |      |      |      |      |      |      |      | 2.33  | 1.61  | 2.89  |        |
| May .....     |      |      |      |      |      |      |      | 2.74  | 4.29  | 2.24  |        |
| June .....    |      |      |      |      |      |      |      | 1.10  | 2.55  | 4.23  |        |
| July .....    |      |      |      |      |      |      |      | 6.49  | .71   | 2.92  |        |
| August .....  |      |      |      |      |      |      |      | 4.78  | 4.76  | 4.35  |        |
| September ..  |      |      |      |      |      |      |      | 2.99  | 3.57  | 3.51  |        |
| October ....  |      |      |      |      |      |      |      | 3.43  | 3.23  | 1.55  |        |
| November ..   |      |      |      |      |      |      |      | 5.19  | 1.84  | .86   |        |
| December ..   |      |      |      |      |      |      |      | 2.84  | 2.07  | 1.64  |        |
| TOTALS ..     |      |      |      |      |      |      |      | 41.26 | 30.46 | 29.91 |        |

29.91

RAINFALL AT *Thelwall, Higherfields*

80

Lat.

Lon.

County of Cheshire

Rain Gauge, by

Observer T. G. Rylands, Esq

Upper Mersey - 1.

| Diameter ....  | 5     |       |       |       |       |       |       |       |       |       |        |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height ....    | 1.0   |       |       |       |       |       |       |       |       |       |        |
| Altitude ....  | 1187  |       |       |       |       |       |       |       |       |       |        |
| Year .....     | 1880  | 1881  | 1882  | 1883  | 1884  | 1885  | 1886  | 1887  | 1888  | 1889  | MEANS. |
| January .....  | .53   | .51   | 2.53  | 3.65  | 3.22  | 1.53  | 4.22  | 2.12  | 1.41  | 1.07  | 2.079  |
| February ..... | 1.74  | 4.04  | 2.09  | 1.72  | 2.22  | 2.44  | 90    | .49   | .70   | 1.77  | 1.811  |
| March .....    | 1.72  | 3.01  | 1.67  | 1.23  | 2.21  | 1.96  | 1.71  | 1.57  | 1.97  | 1.90  | 1.889  |
| April .....    | 1.10  | 1.17  | 3.33  | 1.62  | .96   | 1.30  | 1.48  | .85   | 1.03  | 2.40  | 1.524  |
| May .....      | 2.23  | 3.20  | 1.74  | .81   | 1.65  | 1.90  | 5.98  | 1.96  | .64   | 2.95  | 2.306  |
| June .....     | 2.89  | 2.14  | 5.06  | 4.05  | 1.02  | 2.63  | 1.66  | 1.18  | 2.51  | 1.09  | 2.411  |
| July .....     | 4.24  | 3.45  | 4.84  | 2.75  | 2.85  | 1.42  | 2.68  | .99   | 5.53  | 3.90  | 3.265  |
| August .....   | 2.28  | 3.83  | 2.89  | 1.93  | 1.63  | 1.87  | 1.72  | 1.76  | 2.79  | 5.06  | 2.576  |
| September....  | 3.34  | 2.00  | 1.85  | 4.83  | 2.77  | 3.91  | 4.37  | 4.32  | .99   | 2.67  | 3.105  |
| October.....   | 3.48  | 2.88  | 3.03  | 4.92  | 1.43  | 5.38  | 5.75  | 1.98  | 1.10  | 2.68  | 3.203  |
| November....   | 3.50  | 2.84  | 5.15  | 3.03  | 1.84  | 2.89  | 2.21  | 1.14  | 4.75  | 2.58  | 2.993  |
| December....   | 5.39  | 3.65  | 4.06  | 1.92  | 2.90  | 1.60  | 4.09  | 2.61  | 1.92  | 2.30  | 3.044  |
| TOTALS .....   | 32.44 | 32.72 | 38.24 | 32.44 | 24.70 | 28.73 | 36.17 | 20.91 | 25.34 | 30.37 | 30.206 |

## RAINFALL AT Thelwall, Highfield

80

Lat.

Lon.

County of Cheshire

Snowdon Rain Gauge, by

Observer T.G. Rylands, Esq.

Upper meany.-1.

Monthly

| Diameter ....  | 5     |       |       |       |       |       |       |       |       |       |        |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height ....    | 1.0   |       |       |       |       |       |       |       |       |       |        |
| Altitude ....  | 118   |       |       |       |       |       |       |       |       |       |        |
| Year .....     | 1880  | 1881  | 1882  | 1883  | 1884  | 1885  | 1886  | 1887  | 1888  | 1889  | MEANS. |
| January .....  | .55   | .36   | 2.54  | 3.67  | 3.22  | 1.53  | 4.22  | 2.08  | 1.24  | 1.07  | 2.048  |
| February ..... | 1.74  | 4.09  | 2.12  | 1.74  | 2.25  | 2.43  | 90    | .49   | .68   | 1.77  | 1.821  |
| March .....    | 1.75  | 3.07  | 1.72  | 1.22  | 2.21  | 1.96  | 1.72  | 1.57  | 1.97  | 1.90  | 1.903  |
| April .....    | 1.09  | 1.17  | 5.33  | 1.61  | .97   | 1.32  | 1.48  | .84   | 1.01  | 2.40  | 1.522  |
| May .....      | 2.22  | 3.25  | 1.73  | .81   | 1.66  | 1.90  | 6.00  | 1.95  | .64   | 2.93  | 2.309  |
| June .....     | 2.88  | 2.15  | 5.14  | 4.02  | 1.02  | 2.34  | 1.68  | 1.18  | 2.50  | 1.08  | 2.419  |
| July .....     | 4.24  | 3.52  | 4.84  | 2.75  | 2.85  | 1.40  | 2.67  | 1.00  | 5.50  | 3.88  | 3.265  |
| August .....   | 2.29  | 3.82  | 2.95  | 1.93  | 1.62  | 1.91  | 1.70  | 1.74  | 2.78  | 5.03  | 2.577  |
| September....  | 3.37  | 2.02  | 1.90  | 4.84  | 2.71  | 3.87  | 4.38  | 4.30  | .99   | 2.73  | 3.116  |
| October.....   | 3.47  | 2.87  | 3.07  | 4.97  | 1.46  | 5.38  | 5.18  | 1.92  | 1.11  | 2.65  | 3.206  |
| November....   | 3.56  | 2.90  | 5.15  | 3.06  | 1.90  | 2.89  | 2.22  | 1.12  | 4.67  | 2.57  | 3.004  |
| December....   | 5.41  | 3.62  | 4.06  | 1.94  | 2.90  | 1.66  | 4.07  | 2.60  | 1.94  | 2.31  | 3.051  |
| TOTALS .....   | 32.57 | 32.84 | 38.55 | 32.56 | 24.82 | 28.79 | 36.19 | 20.73 | 25.03 | 30.33 | 30.241 |

Grappenhall Church 1 mile W.S.W.

## RAINFALL AT Thelwall Highfields

Lat.  $53^{\circ} 22' 26''$  N Lon.  $2^{\circ} 31' 10''$  W County of Cheshire

Upper Mersey - 1.

Rain Gauge, by

Observer J.G. Rylands Esq

| Diameter .....  | 5     |       |       |       |       |       |       |       |       |       |        |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height .....    | 10    |       |       |       |       |       |       |       |       |       |        |
| Altitude .....  | 1187  |       |       |       |       |       |       |       |       |       |        |
| Year .....      | 1890  | 1891  | 1892  | 1893  | 1894  | 1895  | 1896  | 1897  | 1898  | 1899  | MEANS. |
| January .....   | 2.81  | 1.78  | 3.08  | 1.03  | 1.75  | 2.55  | 1.15  | 1.29  | 1.59  | 2.91  | 1.994  |
| February .....  | .66   | .18   | 1.91  | 2.87  | 3.53  | .29   | 1.45  | 2.64  | 1.71  | .99   | 1.623  |
| March .....     | 2.30  | 1.35  | .81   | .51   | 2.12  | 2.94  | 3.45  | 2.42  | .68   | 1.45  | 1.802  |
| April .....     | 1.43  | 1.85  | 1.16  | .50   | 1.55  | 1.86  | 1.41  | 2.19  | 1.50  | 2.57  | 1.602  |
| May .....       | 2.13  | 2.53  | 2.84  | 2.04  | 2.09  | .41   | .36   | 1.82  | 3.71  | 2.13  | 2.006  |
| June .....      | 3.01  | 2.78  | 3.37  | 1.42  | 2.27  | 2.81  | 2.03  | 2.86  | 2.61  | 2.04  | 2.520  |
| July .....      | 1.97  | 2.67  | 2.61  | 3.48  | 2.71  | 4.58  | 2.03  | 1.57  | .47   | 1.68  | 2.877  |
| August .....    | 3.64  | 5.21  | 3.62  | 2.28  | 3.64  | 3.10  | 2.44  | 2.93  | 4.32  | 1.13  | 3.231  |
| September ..... | 1.07  | 3.23  | 3.48  | 3.63  | 1.14  | 1.72  | 5.00  | 4.24  | .68   | 3.77  | 2.796  |
| October .....   | 1.81  | 3.71  | 4.53  | 3.03  | 2.92  | 3.55  | 4.23  | 1.95  | 3.58  | 3.31  | 3.262  |
| November .....  | 5.12  | 2.66  | 2.10  | 1.40  | 1.76  | 2.87  | 1.19  | 4.10  | 1.68  | 1.01  | 2.389  |
| December .....  | .45   | 4.88  | 1.96  | 3.16  | 2.42  | 2.40  | 3.94  | 3.45  | 2.43  | 2.53  | 2.762  |
| TOTALS .....    | 26.40 | 32.83 | 31.47 | 25.35 | 27.90 | 29.08 | 28.68 | 31.46 | 24.96 | 26.52 | 28.365 |

1890

# RAINFALL AT Thelwall Highfields

Lat.

Long.

County of

Cheshire

U. Mersey - 1. Monthly

Rain Gauge, by

Observer

T. G. Rylands Esq

| Diameter .....  | 5     |       |       |       |       |       |       |       |       |       |        |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height .....    | 10    |       |       |       |       |       |       |       |       |       |        |
| Altitude .....  | 1185  |       |       |       |       |       |       |       |       |       |        |
| Year .....      | 1890  | 1891  | 1892  | 1893  | 1894  | 1895  | 1896  | 1897  | 1898  | 1899  | MEANS. |
| January .....   | 2.80  | 1.77  | 3.07  | 1.05  | 1.76  | 2.53  | 1.15  | 1.30  | 1.60  | 2.98  | 2.001  |
| February .....  | .66   | .18   | 1.89  | 2.88  | 3.58  | .29   | 1.45  | 2.64  | 1.70  | 1.00  | 1.627  |
| March .....     | 2.27  | 1.35  | .83   | .51   | 2.12  | 2.94  | 3.45  | 2.53  | .68   | 1.46  | 1.814  |
| April .....     | 1.41  | 1.84  | 1.17  | .50   | 1.55  | 1.86  | 1.43  | 2.19  | 1.52  | 2.57  | 1.604  |
| May .....       | 2.11  | 2.51  | 2.83  | 2.04  | 2.10  | .41   | .36   | 1.90  | 3.73  | 2.13  | 2.012  |
| June .....      | 2.97  | 2.77  | 3.30  | 1.43  | 2.26  | 2.81  | 2.03  | 2.89  | 2.62  | 2.04  | 2.572  |
| July .....      | 1.96  | 2.63  | 2.61  | 3.47  | 2.72  | 4.58  | 2.03  | 1.57  | .47   | 1.68  | 2.272  |
| August .....    | 3.64  | 5.20  | 3.61  | 2.28  | 3.64  | 3.11  | 2.43  | 2.90  | 4.35  | 1.14  | 3.230  |
| September ..... | 1.08  | 3.25  | 3.47  | 3.62  | 1.14  | 1.72  | 5.04  | 4.24  | .67   | 3.77  | 2.800  |
| October .....   | 1.81  | 3.71  | 4.51  | 3.03  | 2.92  | 3.55  | 4.23  | 1.95  | 3.57  | 3.34  | 3.262  |
| November .....  | 5.10  | 2.67  | 2.10  | 1.41  | 1.76  | 2.87  | 1.19  | 4.12  | 1.68  | 1.04  | 2.394  |
| December .....  | .45   | 4.84  | 1.95  | 3.16  | 2.42  | 2.39  | 3.97  | 3.45  | 2.45  | 2.57  | 2.765  |
| TOTALS .....    | 26.26 | 32.72 | 31.34 | 25.38 | 27.97 | 29.06 | 28.76 | 31.68 | 25.04 | 25.72 | 28.393 |

1891 Grappenhall Church 1 mile W 1890