

RAINFALL AT Buttermere Glassness

Lat. Len. County of Cumberland
 Rain Gauge, by Observer S. Stewart

Derwent - 2

| Diameter | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
|----------------|------|------|------|------|------|------|------|------|-------|-------|--------|
| Height | | | | | | | | | 1. 0 | | |
| Altitude | | | | | | | | | 355 | | |
| Year..... | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | |
| January | | | | | | | | | 9.02 | 5.30 | 7.92 |
| February | | | | | | | | | 7.87 | 2.00 | 5.30 |
| March | | | | | | | | | 2.78 | 7.45 | 6.29 |
| April | | | | | | | | | 7.58 | 5.69 | 5.45 |
| May | | | | | | | | | 3.91 | 6.54 | 6.22 |
| June | | | | | | | | | 1.21 | 2.28 | 1.04 |
| July | | | | | | | | | 10.02 | 9.16 | 4.37 |
| August | | | | | | | | | 5.27 | 8.62 | 10.97 |
| September.... | | | | | | | | | 16.65 | 11.13 | 3.68 |
| October | | | | | | | | | 6.44 | 13.85 | 5.93 |
| November.... | | | | | | | | | 11.84 | 6.81 | 14.98 |
| December | | | | | | | | | 9.18 | 16.49 | 5.55 |
| TOTALS | | | | | | | | | 15.03 | 9.18 | 12.95 |
| | | | | | | | | | 81.22 | 96.04 | 84.26 |

1888 Buttermere Church 1 mile NW
 wall 7 feet high 10 feet SW

RAINFALL AT Buttermere Hasness

Lat.

Long.

County of Cumberland

Darwen - 2
Rain Gauge, by

Observer Mr S. Stewart

| Diameter | 5 | | | | | | | | | | |
|----------------|--------|--------|--------|--------|--------|-------|-------|--------|----------|--------|-----------|
| Height | 10 | | | | | | | | | | |
| Altitude | 355 | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January | 19.07 | 9.55 | 9.52 | 5.91 | 17.09 | 4.00 | 7.35 | 2.05 | 9.90 | 18.29 | 10.2110 |
| February | 2.08 | .87 | 3.38 | 15.28 | 15.93 | 1.42 | 7.89 | 8.82 | 10.10 | 8.76 | 7.1153 |
| March | 7.95 | 4.21 | 3.94 | 4.26 | 7.80 | 9.24 | 13.88 | 15.73 | 3.67 | 8.69 | 7.937 |
| April | 3.45 | 4.69 | 3.01 | .97 | 3.04 | 7.00 | 4.52 | 6.53 | 9.09 | 9.52 | 5.1822 |
| May | 6.49 | 4.48 | 9.53 | 4.15 | 6.87 | 1.18 | .93 | 5.39 | 4.91 | 7.75 | 5.168 |
| June | 9.69 | 2.68 | 6.65 | 5.05 | 5.45 | 2.07 | 5.61 | 7.81 | 6.34 | 1.83 | 5.018 |
| July | 9.54 | 5.03 | 5.60 | 7.67 | 4.74 | 8.25 | 7.62 | 4.86 | 2.17 | 4.73 | 6.021 |
| August | 8.44 | 23.38 | 14.79 | 11.65 | 10.75 | 11.23 | 6.79 | 16.27 | 13.20 | 3.37 | 11.984 |
| September.... | 11.77 | 19.41 | 19.04 | 9.13 | .35 | 4.00 | 13.84 | 9.65 | 5.94 | 10.83 | 10.896 |
| October..... | 7.72 | 15.67 | 10.38 | 11.83 | 10.52 | 7.69 | 11.66 | 7.74 | 9.20 | 10.07 | 10.2148 |
| November.... | 19.55 | 12.45 | 9.85 | 7.62 | 18.75 | 9.94 | 3.66 | 13.86 | (12.73) | 16.40 | 12.481 |
| December.... | .99 | 22.51 | 5.40 | 19.03 | 11.82 | 7.89 | 13.96 | 20.07 | 17.70 | 6.37 | 12.5741 |
| TOTALS | 106.74 | 124.93 | 101.09 | 102.55 | 113.11 | 73.91 | 97.71 | 118.78 | (104.95) | 106.61 | (105.632) |

1891 Buttermere Church 1 mile N

Wall 6ft high 10ft NW & SE

1898 Nov 1st Gauge flooded

RAINFALL AT Buttermere, ~~Haweswater~~

Lat.

Lon.

County of Cumberland

Rain Gauge, by

Observer Mr. J. Stewart

Denver - 2.

Dr J.W.A. Cooper (per J.R. Gordon) M.R. Johnston M.R. Carroll

| Diameter .. | 5 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
|--------------|--------|-------|-------|--------|--------|-------|--------|--------|--------|-------|------|--------|
| Height .. | 10 | | | | | | | | | | | |
| Altitude .. | 355 | | | | | | | | | | | |
| Year .. | | | | | | | | | | | | |
| January .. | 14.24 | 7.43 | 10.75 | 17.35 | 15.41 | 6.60 | 16.04 | 3.44 | 12.02 | 10.66 | | |
| February .. | 9.34 | 3.42 | 2.73 | 16.84 | 8.33 | 6.70 | 8.06 | 4.60 | 6.40 | 10.87 | | |
| March .. | 1.32 | 8.44 | 6.92 | 24.12 | 11.13 | 10.83 | 6.75 | 10.38 | 9.57 | 6.91 | | |
| April .. | 6.26 | 7.39 | 5.31 | 3.19 | 9.85 | 8.49 | 2.24 | 5.07 | 2.99 | 6.39 | | |
| May .. | 8.14 | 2.90 | 4.27 | 5.30 | 6.91 | 6.86 | 12.91 | 9.36 | 6.05 | | | |
| June .. | 8.15 | 5.03 | 1.88 | 3.11 | 5.28 | 5.82 | 3.63 | 14.99 | 6.86 | | | |
| July .. | 3.87 | 1.84 | 5.33 | 8.74 | 7.37 | 3.82 | 6.23 | 3.55 | 7.87 | | | |
| August .. | 10.31 | 9.76 | 5.41 | 14.44 | 10.21 | 8.00 | 11.54 | 8.97 | 13.81 | 5.36 | | |
| September .. | 10.08 | 8.52 | 5.20 | 11.29 | 6.72 | 7.11 | 3.15 | 1.92 | 12.30 | | | |
| October .. | 10.64 | 11.92 | 8.80 | 20.82 | 5.77 | 8.23 | 15.97 | 15.29 | 3.81 | | | |
| November .. | 10.34 | 11.77 | 7.15 | 7.27 | 7.20 | 13.43 | 9.59 | 9.24 | 8.64 | | | |
| December .. | 22.61 | 11.63 | 12.91 | 11.50 | 13.76 | 8.38 | 7.20 | 16.20 | 10.67 | | | |
| TOTALS .. | 115.30 | 90.05 | 76.66 | 143.97 | 107.94 | 94.27 | 103.31 | 103.01 | 100.99 | | | |

mm mm mm mm mm mm

1902 Buttermere Church 1 Mile N

Wall 6 ft high 10 ft S

Cockermouth Station 10 miles

Keswick Station

This is a private asylum, & the obs. are taken by patients (Mr. Marshall '99)

RAINFALL at Buttermore, Hassness

County of Cumberland

Observer R. G. W. Conquest & Sons

Mrs. C. Marshall

River Basin Derwent - 2

Rain Gauge, by

| | | | | | | | | | | | |
|--------------|-------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
| Diameter ... | | 5 | | | | | | | | | |
| Height | | 10 | | | | | | | | | |
| Altitude ... | | 355 | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 7.51 | 9.27 | 12.82 | 9.28 | 10.62 | 17.37 | 4.61 | 13.86 | 11.89 | | |
| February ... | 13.25 | 8.01 | 8.57 | 19.82 | 19.93 | 12.66 | 1.59 | 14.16 | 10.05 | | |
| March | 3.81 | 16.78 | 14.57 | 11.67 | 3.28 | 2.84 | 4.96 | 5.21 | 8.22 | | |
| April | 11.08 | 2.09 | 12.94 | 4.82 | 6.23 | 9.38 | 3.72 | 1.91 | 5.97 | | |
| May | 8.70 | 3.55 | 6.39 | 6.39 | 1.40 | 6.97 | 6.71 | 3.87 | 2.77 | 2.14 | |
| June | 10.37 | 10.52 | 9.12 | 2.29 | 1.43 | 6.50 | 5.08 | 4.81 | 6.15 | | |
| July | 2.74 | 9.77 | 1.64 | 7.16 | 9.21 | 5.96 | 2.97 | 7.25 | 3.15 | | |
| August | 9.78 | 12.14 | 5.33 | 9.82 | 4.51 | 6.61 | 16.56 | 9.13 | 7.46 | | |
| September .. | 6.80 | (4.85) | 3.69 | 4.16 | 1.95 | 5.27 | 10.88 | 17.95 | 6.66 | | |
| October ... | 9.90 | 12.49 | 9.65 | 2.95 | 2.27 | 20.87 | 17.55 | 21.50 | 5.73 | | |
| November .. | 16.95 | 11.26 | 11.61 | 17.68 | 5.20 | 17.62 | 11.25 | 8.21 | 4.90 | | |
| December ... | 24.02 | 20.97 | 9.48 | 19.42 | 17.57 | 9.39 | 5.65 | 15.77 | 14.90 | | |
| TOTALS ... | N.R. | 124.91 | 121.70 | 105.61 | 115.46 | 83.60 | 121.44 | 91.53 | 123.33 | 70.02 | |
| | | | | | | | | | 122.63 | d | |

1919 daily values recd 20.1.20 + correction made in May '28
by daily values 17.51.22.

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | | | | | | | | |

RAINFALL at Butternsea, ~~Wassens~~.County of Cumberland Observer S. Hartley May

River Basin Derwent 2 E. Dixon

Glashees Rain Gauge, by
(126)

| Diameter ... | 5 | | | | | | | 6 | | | | | | | |
|--------------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--|--|--|
| Height | 1 | 0 | | | | | | | | | | | | | |
| Altitude ... | 350 | | | | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. | M.M.S. | | | |
| January ... | 12.60 | 20.88 | 8.24 | 10.49 | 12.29 | 10.76 | 16.19 | 13.13 | 25.09 | 8.00 | 19.06 | | | | |
| February ... | 9.60 | 6.69 | 13.12 | 2.01 | 11.44 | 12.22 | 5.83 | 9.71 | 2.07 | 1.07 | | | | | |
| March | 20.71 | 7.58 | 5.08 | 2.19 | 4.31 | 4.47 | 9.95 | 11.31 | 2.00 | 5.04 | | | | | |
| April..... | 2.41 | 3.88 | 7.80 | 7.07 | 10.83 | 7.80 | 5.94 | 4.26 | 2.76 | 4.09 | | | | | |
| May | 6.33 | 6.89 | 8.41 | 14.79 | 13.82 | 6.38 | 4.90 | 1.30 | 7.71 | 4.14 | | | | | |
| June | 8.1 | 5.69 | 4.66 | 8.09 | 6.61 | 7.63 | 8.07 | 11.30 | 4.03 | 6.35 | | | | | |
| July | 6.13 | 11.49 | 8.79 | 13.20 | 2.49 | 6.61 | 9.11 | 10.85 | 10.86 | 5.92 | | | | | |
| August | 13.38 | 8.26 | 18.67 | 11.19 | 10.03 | 7.68 | 8.24 | 13.88 | 12.98 | 14.54 | | | | | |
| September... | 4.82 | 5.92 | 16.86 | 26.70 | 7.90 | 8.81 | 15.65 | 8.16 | 3.13 | 6.07 | | | | | |
| October..... | 5.89 | 5.96 | 25.96 | 13.37 | 12.87 | 7.69 | 11.30 | 17.05 | 13.89 | 21.14 | | | | | |
| November... | 4.73 | 6.09 | 1.831 | 10.09 | 4.05 | 14.42 | 12.96 | 20.59 | 24.61 | 11.18 | | | | | |
| December... | 15.12 | 17.30 | 10.86 | 24.64 | 8.98 | 1.85 | 2.21 | 10.80 | 18.88 | 9.84 | | | | | |
| TOTALS... | 101.27 | 97.79 | 148.51 | 146.23 | 98.09 | 101.75 | 107.28 | 144.30 | 105.42 | 108.44 | | | | | |

(1922) Red like ^{fur}
Nig. Drag ²⁴⁴³ half cut
Nig. Style ²⁴⁴³ a S.
Robinson ²⁴¹⁷ NE

| Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series | | | No. of Map | Reference No. | | |
|--|-----------|---------|------------------|---------------------|----------------|---------------------|
| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge |
| 1921 | 54° 36' N | 2° 8' E | Kelwick | 2 mi N.E. | Butternsea | 3/4 mi N |

RAINFALL at Buttermere (Hassness)

County of Cumberland, Observer E. Dixon, Esq.

River Basin Derwent - 2

Type of Gauge Glass bell jar

Annual Average 195.2 in. based on 39 years obs. un-weighted. Period of average 1881-1915 Ref. 5
741370/27.

| Diameter | 6. | | | | | | | | | | |
|-----------|--------|--------|-------|--------|-------|--------|-------|--------|------|------|-------|
| Height | 1.0. | | | | | | | | | | |
| Altitude | 350. | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | 11.28 | 19.29 | 14.06 | 19.47 | 5.37 | 13.84 | 15.88 | 15.19 | | | |
| February | 8.73 | 10 | 7.81 | 5.7 | 15.95 | 5.62 | 13.15 | 5.96 | | | |
| March | 1.91 | 7.07 | 8.45 | 5.74 | 2.10 | 6.59 | 5.08 | 9.26 | | | |
| April | 5.15 | 8.72 | 3.82 | 6.40 | 6.87 | 1.85 | 5.89 | 1.41 | | | |
| May | 6.40 | 6.47 | 3.42 | 9.06 | 1.20 | 1.80 | 3.07 | 9.68 | | | |
| June | 11.87 | 3.36 | 4.52 | 4.44 | 8.70 | 7.66 | 5.81 | 13.94 | | | |
| July | 12.25 | 10.53 | 9.67 | 2.64 | 4.36 | 10.64 | 5.95 | 18.21 | | | |
| August | 6.59 | 3.66 | 6.81 | 11.52 | 6.13 | 4.92 | 5.14 | 6.45 | | | |
| September | 4.48 | 10.27 | 1.71 | 16.26 | 16.42 | 10.05 | 9.30 | 7.05 | | | |
| October | 8.98 | 17.58 | 7.19 | 17.54 | 15.04 | 8.85 | 5.64 | 25.28 | | | |
| November | 18.01 | 8.10 | 3.28 | 2.45 | 10.27 | 11.21 | 2.41 | 16.78 | | | |
| December | 8.99 | 22.87 | 1.13 | 17.61 | 5.73 | 14.51 | 6.67 | 8.47 | * | | |
| TOTALS | 101.45 | 118.01 | 71.87 | 113.70 | 98.14 | 100.54 | 83.99 | 127.68 | | | |
| | D | D | D | D | D | D | D | D | D | | |

1934. Box-edging 9" high 1' S.W. Greenhouse 5' 9" high 20' N.W.
1939. House sold, observer moved from the districtPosition of Station on reduced Ordnance Survey Map, } No. of Map..... Reference No.....
1 mile to 1 inch Series

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| | | | Braithwaite | 1m. | S. | Buttermere | 1m | N. W. |

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.