

RAINFALL AT KendalHighgateObserver J. May Jr.

Rain By.....

Gauge Diameter 6 in. Height above Ground, 5 ft. in.Above Mean Sea Level 120 ft.

| YEAR..... | | 1869 | MEANS. |
|----------------|--|----------------|--------|
| January..... | | 5.94 | |
| February | | 8.62 | |
| March..... | | .89 | |
| April..... | | 3.85 | |
| May | | 2.83 | |
| June..... | | 1.68 | |
| July | | 1.60 | |
| August..... | | 1.93 | |
| September.... | | 11.44 | |
| October | | 3.36 | |
| November..... | | 6.99 | |
| December..... | | 6.95 | |
| TOTALS | | (52.75) \$6.08 | |

Marshall's mean

RAINFALL AT Kendal Highgate.

Lat..... Lon..... County of... Westmorland
..... Rain Gauge, by..... Observer E. Hayton Esq.

| Diameter | .8 | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 5 | | | | | | | | | | |
| Altitude | 180 m | | | | | | | | | | |
| YEAR | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. |
| January..... | 5.75 | 2.76 | 10.02 | 9.30 | 7.44 | 8.39 | 3.68 | 9.17 | 5.80 | 2.21 | 6.452 |
| February..... | 3.13 | 5.52 | 5.71 | 7.8 | 3.11 | 1.51 | 6.77 | 4.11 | 2.98 | 3.53 | 3.115 |
| March..... | 2.51 | 2.52 | 5.49 | 3.57 | 4.51 | 1.65 | 5.14 | 3.14 | 2.58 | 3.26 | 3.431 |
| April..... | 2.00 | 3.20 | 2.39 | .61 | 1.92 | 1.73 | 2.83 | 2.60 | 2.84 | 1.35 | 2.147 |
| May..... | 4.60 | 1.98 | 2.88 | 2.47 | 1.16 | 2.88 | 1.08 | 3.08 | 5.50 | 1.72 | 2.735 |
| June..... | 1.67 | 1.98 | 4.97 | 2.69 | 1.22 | 5.48 | 4.68 | 3.01 | 3.76 | 6.05 | 3.537 |
| July..... | 7.26 | 7.67 | 4.79 | 6.86 | 3.30 | 2.57 | 3.44 | 6.20 | .65 | 6.00 | 4.274 |
| August..... | 1.67 | 6.99 | 5.33 | 6.19 | 7.44 | 3.13 | 4.18 | 5.78 | 4.69 | 4.87 | 5.027 |
| September..... | 3.03 | 4.00 | 8.58 | 9.05 | 5.77 | 6.20 | 5.06 | 4.41 | 5.59 | 4.09 | 4.978 |
| October..... | 9.90 | 6.70 | 7.64 | 7.95 | 12.65 | 3.84 | 4.39 | 8.52 | 5.27 | 2.45 | 6.931 |
| November..... | 3.65 | 1.77 | 6.64 | 3.07 | 4.25 | 6.78 | 3.36 | 10.39 | 2.24 | 1.20 | 4.330 |
| December..... | 2.23 | 6.38 | 6.45 | 2.51 | 3.74 | 3.93 | 8.83 | 5.62 | 2.45 | 4.08 | 4.622 |
| TOTALS | 41.40 | 51.47 | 70.89 | 48.99 | 56.51 | 48.04 | 53.44 | 66.03 | 44.85 | 40.81 | 52.193 |
| | C | C | C | | | | | | | | |

1879 Show tree 20 ft high + 60 ft N.W.

Kendal church 300 yds S.E.

RAINFALL AT Kendal Holmcroft
 Lat. _____ Len. _____ County of Westmoreland
 Rain Gauge, by Observer R. Rhodes Esq
 Kent - 3

| Diameter | 5 | 5 | 5 | | | | | | | MEANS. |
|-----------------|-------|------|------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1.3 | 1.3 | 1.3 | | | | | | | |
| Altitude | 160 | 176 | 176 | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 |
| January | 1.76 | 4.24 | | 6.64 | 2.89 | 4.56 | 7.79 | 5.98 | 9.51 | |
| February | .57 | 1.80 | 7.75 | 8.96 | .45 | 2.78 | 4.94 | 5.89 | 4.18 | |
| March | 2.31 | | 2.35 | 4.65 | 5.08 | 8.03 | 8.77 | 1.85 | 3.01 | |
| April | 1.38 | | .82 | 1.68 | 2.02 | 1.63 | 2.20 | 4.89 | 5.49 | |
| May | 2.68 | 5.57 | 3.18 | 3.73 | 1.36 | .37 | 2.42 | 2.88 | 4.48 | |
| June | 1.18 | 4.50 | 1.07 | 3.42 | 2.89 | 3.32 | 3.22 | 3.31 | 1.56 | |
| July | 4.03 | 2.46 | 5.32 | 3.39 | 7.23 | 4.78 | 1.91 | .86 | 3.66 | |
| August | 8.68 | 9.98 | 5.24 | 4.99 | 7.10 | 2.21 | 5.10 | 9.30 | 2.10 | |
| September | 6.17 | 9.11 | 6.96 | .36 | 1.35 | 7.30 | 6.52 | 2.07 | 6.37 | |
| October | 6.34 | 6.92 | 6.12 | 3.41 | 6.08 | 4.43 | 3.10 | 5.85 | 4.29 | |
| November | 4.28 | 4.61 | 3.02 | 6.57 | 4.99 | 1.98 | 7.09 | 6.68 | 3.90 | |
| December | 2.23 | 3.89 | 5.94 | 5.88 | 5.27 | 9.05 | 9.04 | 7.47 | 3.53 | |
| TOTALS | 41.61 | | | 53.68 | 46.71 | 50.44 | 55.10 | 57.03 | 52.09 | |

1892 June 25th Gauge moved $\frac{1}{4}$ mile N to Holmcroft

1898 Kendal Church 300 yards S E

House 30 ft 5

Wall 8 ft high 16 to 30 ft N.E.W

MET.O.S. RAINMASTER
RETROSPECTIVE SITE REVIEW

RVD. STN. NUMBER 585691

NGR: SD(34) 520920

ALT: 176 -11 m 54 metres. Date of review: 12/10/78

RAINFALL AT Kendal Holmcroft

Lat.

Lon.

County of

Westmoreland

Rain Gauge, by N+3

Observer R. Rhodes Esq

Kent - 3.

| Diameter .. | 5 | | | | | | | | | | | . |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---|
| Height .. | 1.3 | | | | | | | | | | | |
| Altitude .. | 1761' | | | | | | | | | | | |
| Year .. | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | M.EANR. | |
| January .. | 7.48 | 4.83 | 3.92 | 8.03 | 6.20 | 3.40 | 7.61 | 2.46 | 7.61 | 4.79 | 5.633 | |
| February .. | 4.66 | 1.45 | 1.97 | 5.25 | 3.98 | 2.58 | 3.87 | 3.58 | 3.05 | 2.94 | 3.333 | |
| March .. | .20 | 4.49 | 3.22 | 6.31 | 4.36 | 3.96 | 4.24 | 5.41 | 4.20 | 4.17 | 4.056 | |
| April .. | 2.82 | 3.49 | 2.03 | 1.28 | 4.99 | 4.11 | 1.63 | 2.38 | 2.67 | 5.26 | 3.066 | |
| May .. | 2.43 | 1.99 | 2.59 | 3.92 | 2.49 | 1.52 | 8.31 | 5.00 | 4.76 | 2.35 | 3.536 | |
| June .. | 3.47 | 2.77 | 1.76 | 2.11 | 2.77 | 3.02 | 2.99 | 9.27 | 3.08 | 3.09 | 3.423 | |
| July .. | 3.16 | 1.37 | 4.59 | 4.72 | 3.63 | 2.35 | 3.07 | 4.47 | 5.29 | 6.74 | 3.939 | |
| August .. | 5.11 | 3.72 | 2.86 | 9.21 | 3.93 | 5.63 | 6.71 | 6.24 | 6.09 | 3.85 | 5.335 | |
| September .. | 2.94 | 3.32 | 2.14 | 7.56 | 2.30 | 3.45 | .45 | .89 | 7.10 | 3.70 | 3.385 | |
| October .. | 8.96 | 5.61 | 4.07 | 11.07 | 3.92 | 3.63 | 8.38 | 6.22 | 2.79 | 8.72 | 6.537 | |
| November .. | 6.08 | 5.75 | 3.67 | 3.97 | 4.32 | 5.94 | 5.36 | 4.65 | 4.43 | 3.14 | 4.731 | |
| December .. | 9.63 | 6.34 | 5.42 | 4.99 | 6.28 | 3.52 | 3.97 | 8.10 | 4.77 | 10.41 | 6.343 | |
| TOTALS .. | 56.94 | 45.13 | 38.24 | 68.42 | 49.17 | 43.11 | 56.59 | 58.67 | 55.84 | 59.16 | 53.127 | |

H.W.B.

1907 Kendal Church 150 yards S E
 Station 1 mile N

House 30 ft S
 Wall 4+5 ft. high N.W.E. N 54 E

1909 Rain gauge moved about 10 ft W

MET.O.B RAINMASTER
RETROSPECTIVE SITE REVIEW

I.D. STN. 585691

NGR: SD(24) 520920

ALT: 176 m + 54 metres. Date of review 12/10/78

585670

10

3717

RAINFALL at Kendal, Holmcroft (North) 1078

County of Westmorland

Observer

A. Rhodes Esq

River Basin Kent 3

Rain Gauge, by N. & T.

Av 1916-1950 51.33 in. Based on 18 yrs within 1916-34

PB 734

| Diameter ... | 585670 RETROSPECTIVE 1916-1950 | | | | | | | | | | 585670 |
|--------------|-----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | SD(34) 520935 | | | | | | | | | | |
| Altitude ... | 176 | 170 | 176 | 210 | 176 | 176 | 176 | 176 | 176 | 176 | 176 |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 3.95 | 4.57 | 5.43 | 5.87 | 6.74 | 2.48 | 7.00 | 5.84 | | | |
| February ... | 3.51 | 2.95 | 6.25 | 7.49 | 5.63 | 1.76 | 4.91 | 1.64 | | | |
| March | 7.49 | 5.67 | 5.66 | 2.23 | 2.30 | 2.27 | 2.10 | 4.57 | | | |
| April | 1.06 | 5.66 | 1.43 | 2.86 | 2.91 | 2.18 | 1.51 | 2.93 | | | |
| May | 2.07 | 2.33 | 2.58 | 1.12 | 4.43 | 2.98 | 2.15 | 1.65 | | | |
| June | 6.43 | 4.01 | 1.94 | 1.06 | 3.01 | 3.15 | 2.93 | 2.54 | | | |
| July | 5.27 | .79 | 4.01 | 6.94 | 4.09 | 2.50 | 6.50 | 1.90 | | | |
| August | 3.84 | 6.22 | 2.56 | 4.90 | 3.74 | 3.73 | 12.16 | 4.19 | 4.60 | | |
| September .. | 5.75 | 1.73 | 2.86 | 4.05 | 2.25 | 2.52 | 4.36 | 10.82 | 3.92 | | |
| October ... | 5.78 | 6.59 | 4.29 | 2.11 | 1.02 | 10.59 | 8.43 | 5.86 | 5.86 | | |
| November .. | 8.45 | 6.08 | 6.57 | 7.15 | 3.12 | 5.72 | 4.80 | 2.29 | 3.09 | | |
| December ... | 7.73 | 7.66 | 4.03 | 7.92 | 8.16 | 4.68 | 2.64 | 8.86 | 8.77 | | |
| TOTALS ... | | | 58.06 | 46.23 | 53.43 | 45.86 | 56.35 | 49.71 | 59.12 | 43.47 | |

1911 House Wall 1ft 6in. soft S 15ft N W/E

1911 Although called by the same name this house is $\frac{3}{4}$ mi NNE of the house from which the g. was moved 21.VII.11.1917 June 1st Found half S.W.

N&E 1911-19 SD(34) 522930 } 1078 112

1918 Tree - 18 ft S.E.

SD(34) 520935 }

1919. G. moved 400 yards N. and 30 ft. lower.

+ Inspected

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|-------------|--------------------------|------------|
| 1911 | | | Kendal | 200yds | NNW | St. Georges | 400 Yds 150Yds 200 | W. |

RAINFALL at Kendal, Holmcroft No 2.

County of Westmorland

Observer R. Rhodes

River Basin Kent 3

Rain Gauge, by

glass by P.R.

| Diameter ... | | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|--------|
| Height | | | | | | | | | | | |
| Altitude ... | | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | | | | 4.54 | | | | | | | |
| February ... | | | | | | | | | | | |
| March | | | | | | | | | | | |
| April | | | | | Do | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September .. | | | | | | | | | | | |
| October ... | | | | | | | | | | | |
| November.. | | | | | | | | | | | |
| December... | | | | | | | | | | | |
| TOTALS ... | | | | | | | | | | | |

4.54
 Jan
 Feb
 Mar
 Apr
 May
 June
 July
 Aug
 Sept
 Oct
 Nov
 Dec

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

RAINFALL at Kendal Holmecroft

County of Westmorland

Observer R. Rhodesby

River Basin Kent 3

Rain Gauge, by N & 3

| Diameter ... | 5 | | | | MET. OBS. RAINMASTER RETROSPECTIVE SITE REVIEW | HYD. STN. 585691 | | | | | |
|--------------|-------|------|------|--------------------|---|------------------|------|------|------|------|--------|
| Height | 1.3 | | | NGR: SD(34) 520920 | NUMBER | | | | | | |
| Altitude ... | 176 T | | | ALT: 176 ft = 54 | metres. Date of review | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 7.19 | 2.70 | | | | | | | | | |
| February ... | 7.40 | 8.80 | | | | | | | | | |
| March | 2.69 | 2.19 | | | | | | | | | |
| April | 3.24 | 4.43 | | | | | | | | | |
| May | 3.15 | 2.46 | | | | | | | | | |
| June | 1.76 | 2.87 | | | | | | | | | |
| July | 5.30 | | | | | | | | | | |
| August | 8.51 | | | | | | | | | | |
| September .. | .56 | | | | | | | | | | |
| October ... | 2.38 | | | | | | | | | | |
| November .. | 5.95 | | | | | | | | | | |
| December ... | 5.25 | | | | | | | | | | |
| TOTALS ... | 53.38 | | | | | | | | | | |

g. moved 3/4 mi NNE 21.VII.11

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

RAINFALL at Kendal Holmcroft 1978 15c

County of Westmorland

Observer P. Rhodes Esq.

River Basin Kent 3

Snowdon Rain Gauge, by 92.8

930 M.O.

Av 1881-1915 50.6

Av 1916-1950 51.33 in. based on 88 yrs within
1916-34 P.B. 734

| Diameter ... | 5" | | MET.O.B. RAINMASTER RETROSPECTIVE SITE REVIEW | | | | | | | | | |
|----------------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1.3 | | MEAN: SD(38) 524928 | | | | | | | | | |
| Altitude ... | 176 | 150 | MEAN: 176 ft = 54 | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. | MEANS. |
| January | 7.39 | 10.32 | 6.46 | 4.51 | 4.93 | 5.11 | 6.99 | 6.21 | 14.68 | 2.02 | 8.42 | |
| February | 6.04 | 1.6 | 5.55 | 6.24 | 8.2 | 5.52 | 7.60 | 14.19 | 7.14 | 1.60 | .44 | |
| March | 6.24 | 6.98 | 3.41 | 1.91 | 2.47 | 1.69 | 2.93 | 5.10 | 5.59 | 1.28 | 3.81 | |
| April | 5.98 | 1.40 | 2.48 | 4.19 | 2.32 | 8.01 | 1.91 | 2.76 | 2.14 | 2.29 | 2.44 | |
| May | 6.69 | 3.72 | 3.44 | 3.65 | 7.37 | 5.44 | 2.02 | 2.52 | .78 | 2.50 | 1.67 | |
| June | 2.25 | .15 | 2.78 | .99 | 4.02 | .17 | 3.91 | 3.97 | 7.46 | 2.79 | 2.49 | |
| July | 6.13 | 2.35 | 5.74 | 4.87 | 5.08 | 2.18 | 4.22 | 5.36 | 8.35 | 5.83 | 4.04 | |
| August | 3.37 | 7.89 | 5.13 | 8.61 | 14.01 | 5.27 | 4.52 | 7.39 | 8.57 | 8.00 | 5.72 | |
| September... | 3.70 | 2.30 | 4.14 | 6.71 | 7.06 | 4.47 | 3.73 | 7.95 | 4.27 | 2.69 | 3.13 | |
| October..... | 1.45 | 2.87 | 19.7 | 8.80 | 5.13 | 6.03 | 3.06 | 5.41 | 8.43 | 6.90 | 9.18 | |
| November... | 3.56 | 2.62 | 3.25 | 8.56 | 4.24 | 2.12 | 7.53 | 7.53 | 10.38 | 9.62 | 6.84 | |
| December ... | 5.24 | 7.83 | 7.00 | 8.76 | 10.05 | 5.12 | 1.41 | 1.27 | 5.81 | 7.65 | 6.31 | |
| TOTALS... | 58.24 | 48.50 | 57.35 | 64.80 | 57.50 | 48.13 | 49.83 | 59.96 | 82.54 | 52.67 | 51.49 | |
| | D | D | D | D | D | D | D | D | D | D | D | |

1920. House 20ft N
Lawn Wall 20" S.* Observer note on monthly rainfall for April 1927 "9 left Holmcroft Kendal
8 years ago. Address should be 19 Highgate Kendal"1929. March 16. 0.2 miles ESE
"in SW side, house half away, open for some distance all other sides"

| 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 | Direction |
| 1920 | | | Kendal | 1/4 mi S | St. George's | 600yds | SSW |
| March 16. 1929 | | | Kendal | 3 miles NW. | - do - | 3 miles | NW. |

RAINFALL at Kendal & Highgate

County of Westmorland.

Observer R. Rhodes, Esq.,

River Basin Kent - 3.

Type of Gauge Smowdon

Annual Average 50.6 in. based on 35 years obs., un-weighted. Period of average 1881-1915
 51.33 1916-34 1916-30 Ref. S
 81.63 1934-28. 81.63 1934-28. PIB 734

| Diameter | 5. | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|------|------|------|------|------|------|-------|--|--|
| Height | 1.3. | | | | | | | | | | | | |
| Altitude | 150. | | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | | |
| January | 4.76 | 6.26 | 3.63 | 5.96 | | | | | | | | | |
| February | 4.38 | 1.10 | 3.99 | 2.6 | | | | | | | | | |
| March | 1.77 | 3.81 | 3.84 | 2.72 | | | | | | | | | |
| April | 2.61 | 3.67 | 2.32 | 2.76 | | | | | | | | | |
| May | 2.57 | 4.36 | 1.82 | 3.80 | | | | | | | | | |
| June | 7.32 | 2.17 | 2.01 | 3.68 | | | | | | | | | |
| July | 6.05 | 6.08 | 2.80 | 3.19 | | | | | | | | | |
| August | 3.83 | 2.05 | 2.95 | 4.29 | | | | | | | | | |
| September | 2.24 | 5.61 | 1.01 | 6.58 | | | | | | | | | |
| October | 4.52 | 7.26 | 4.39 | 7.20 | | | | | | | | | |
| November | 9.17 | 3.39 | 1.81 | 1.05 | | | | | | | | | |
| December | 4.67 | 4.93 | 0.96 | 9.19 | | | | | | | | | |
| TOTALS | 52.89 | 49.19 | 31.03 | 50.68 | # | | | | | | | | |
| | D. | D. | D. | D. | | | | | | | | | |

1934 Gauge moved December 31st 7/4 mile N.W. Elevation now 289 ft.

Station regarded as terminated 1934. Records from new site to be treated as new station.

Position 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 | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| 1931. | | | Kendal | 1/4 m | N.N.W. | St. George's. | 1/4 m |

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