

RAINFALL AT *Langsett Moor Upper Midhope A*

Lat. _____

Lon. _____

County of *York N.R.*

Rain Gauge, by _____

Observer *J.H. Taylor Esq Ch*

Cuse. Dony

| | | | | | | | | | | | | |
|---------------|------|------|------|------|--------|-------|-------|-------|-------|-------|--------|--|
| Diameter | | | | | 5 | . | | | | | | |
| Height | | | | | 1. | - | | | | | | |
| Altitude | | | | | 912 | π | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. | |
| January | | | | | | 7.30 | 1.76 | 3.79 | 2.28 | 7.21 | | |
| February | | | | | | .89 | 1.81 | 4.71 | 4.77 | 2.51 | | |
| March | | | | | | 3.73 | 6.29 | 5.65 | 2.42 | 2.39 | | |
| April | | | | | | 2.57 | 2.27 | 3.85 | 3.22 | 3.22 | | |
| May | | | | | | .79 | .58 | 1.11 | 3.54 | 3.13 | | |
| June | | | | | | 3.48 | 2.96 | 5.10 | 2.52 | 2.04 | | |
| July | | | | | | 5.18 | 1.21 | 1.45 | .90 | 1.95 | | |
| August | | | | | | 3.35 | 2.04 | 3.68 | 4.79 | 1.43 | | |
| September.... | | | | | | .88 | 8.19 | 4.11 | .81 | 6.37 | | |
| October | | | | | | 5.58 | 4.91 | 1.63 | 5.56 | 4.08 | | |
| November.... | | | | | # 2.32 | 5.66 | 1.82 | 5.18 | 4.33 | 2.73 | | |
| December | | | | | 3.55 | 5.47 | 6.35 | 5.86 | 6.30 | 4.45 | | |
| TOTALS | | | | | | 44.88 | 40.19 | 46.12 | 41.44 | 41.51 | | |

RAINFALL AT

Deseronto
Midhope A (approx 1909)
Langsett Moor Upper Midhope A

Lat.....

Lon.....

County of

York W.R. Southern

Smarden Rain Gauge, by

Observer

J.H. Taylor Esq. C.E.

Disc. Don't

| | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter .. | 5 | | | | | | | | | | |
| Height | 1 0 | | | | | | | | | | |
| Altitude .. | 912 I | | | | | | | | 830 | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | 6.89 | 3.45 | 3.11 | 4.32 | 5.14 | 2.27 | 6.04 | 2.25 | 4.11 | 3.38 | 4.096 |
| February .. | 6.37 | 1.60 | 1.58 | 4.97 | 6.27 | 3.06 | 4.27 | 3.57 | 3.77 | 3.09 | 3.855 |
| March | 1.55 | 5.03 | 2.08 | 6.56 | 2.92 | 5.14 | 4.20 | 3.90 | 4.32 | 5.23 | 4.093 |
| April | 2.57 | 2.45 | 3.34 | 2.30 | 3.68 | 3.05 | 1.18 | 2.82 | 2.66 | 2.56 | 2.661 |
| May | 1.56 | 1.55 | 3.10 | 4.27 | 3.17 | .51 | 3.12 | 5.48 | 3.48 | 2.04 | 3.228 |
| June | 3.63 | 1.31 | 1.77 | 1.84 | .89 | 2.58 | 1.63 | 6.27 | 2.71 | 4.72 | 2.735 |
| July | 3.36 | 4.45 | 2.67 | 3.29 | 1.81 | 1.47 | 3.30 | 2.34 | 3.40 | 4.70 | 3.079 |
| August | 6.44 | 1.51 | 3.77 | 5.10 | 4.66 | 4.24 | 2.72 | 3.23 | 3.64 | 2.16 | 3.747 |
| September .. | 86 | .81 | 2.04 | 5.62 | 1.49 | 2.14 | 1.16 | .78 | 2.85 | 3.07 | 2.082 |
| October | 4.46 | 2.90 | 4.93 | 10.43 | 1.10 | 3.75 | 7.68 | 7.73 | 1.56 | 4.51 | 4.905 |
| November .. | 3.43 | 6.59 | 3.31 | 2.85 | 4.26 | 6.59 | 5.70 | 4.42 | 2.77 | 1.63 | 4.155 |
| December .. | 7.03 | 7.56 | 4.67 | 2.71 | 3.30 | 1.27 | 3.88 | 4.93 | 2.84 | 7.82 | 4.601 |
| TOTALS .. | 48.15 | 39.21 | 36.37 | 54.26 | 38.69 | 36.07 | 44.88 | 47.72 | 38.11 | 44.91 | 42.837 |

1906 Peniston Station

Midhope Ch

1909 gauge moved & fixed near Reservoir/Keeper's Hut
instead of the one used at Upper Midhope

H.W.

RAINFALL at Langsett Moor Upper MidhopeCounty of W. R. YorkshireObserver L. L. M. Marsh Esq. C.E.River Basin Ouse - Don 7Swinden Rain Gauge, by Casella

| | | | | | | | | | | | | |
|--------------|------------|------------|------------|-------|------------|------------|------------|------------|------------|------------|-----------------------------|--|
| Diameter ... | 8 | | | | | | | | | | | |
| Height | 16 | | | | | | | | | | | |
| Altitude ... | 925 π | | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1916-19 -MEANS Totals | |
| January ... | 4.55 | 1.65 | 4.77 | 5.12 | 3.05 | 6.82 | 3.84 | 3.22 | 3.47 | 5.28 | 15.81 | |
| February ... | 5.62 | 4.17 | 2.31 | 1.70 | 3.78 | 6.22 | 7.22 | .52 | 5.59 | 2.14 | 15.47 | |
| March | .95 | 1.38 | 4.83 | 5.76 | 4.42 | 1.24 | 6.52 | 2.87 | 1.71 | 5.79 | 16.89 | |
| April | 3.45 | 1.36 | 1.04 | 4.31 | 1.71 | 1.82 | 2.51 | 2.71 | 1.51 | 1.77 | 8.50 | |
| May | 4.09 | .70 | 3.57 | 2.82 | 1.98 | 1.85 | 2.41 | 2.34 | 2.82 | 1.71 | 9.28 | |
| June | 3.82 | 3.32 | 3.78 | 1.43 | 3.68 | 1.43 | 2.78 | 2.02 | 1.59 | .76 | 7.15 | |
| July | 3.29 | .33 | 6.76 | 1.51 | 2.84 | 5.02 | 1.77 | 1.81 | 3.37 | 3.62 | 10.57 | |
| August | 4.76 | 3.55 | 7.44 | 1.31 | 2.05 | 4.04 | 1.69 | 7.32 | 1.60 | 3.69 | 14.30 | |
| September .. | .27 | 2.40 | 1.95 | 2.67 | 2.67 | .65 | 1.78 | 1.90 | 10.02 | 2.57 | 16.27 | |
| October ... | 3.13 | 3.86 | 4.09 | 4.76 | 3.09 | 2.26 | 7.19 | 6.33 | 2.84 | 3.83 | 20.19 | |
| November .. | 4.31 | 5.57 | 3.13 | 3.67 | 6.50 | 3.58 | 5.22 | 3.82 | 2.18 | 3.45 | 14.67 | |
| December... | 6.11 | 7.58 | 6.31 | 3.59 | 9.11 | 9.58 | 3.83 | 2.46 | 6.55 | 7.07 | 19.91 | |
| TOTALS ... | 44.35 D | 35.81 3 | 49.98 2 | 38.65 | 44.88 2 | 44.51 2 | 46.76 3 | 37.32 2 | 43.25 2 | 41.68 0 | 169.01 | |

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

RAINFALL at Langeott Moor Upper MidhopeCounty of W. R. YorkshireObserver L. S. M. Mansel Esq. C.E.River Basin Cuse-DonS. H. Stedley C.E. (1924)Snowdon Rain Gauge, by Basella MO.Steffels W.7.96194
8.06505

8152

unfenced open ploughed field.

| Diameter ... | 8 | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------------------|---|
| Height | 1 | 6 | | | | | | | | | | | |
| Altitude ... | 925 | | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 <u>1929-30</u> | 1920-30 Total | 5 |
| January ... | 7.62 | 5.91 | 5.14 | 3.65 | 2.68 | 4.73 | 5.35 | 2.93 | 9.47 | 1.76 | 6.78 | 50.02 | |
| February ... | 5.00 | .38 | 4.14 | 7.57 | 1.02 | 5.63 | 2.91 | 1.59 | 4.70 | .48 | 1.12 | 34.54 | |
| March | 4.10 | 3.60 | 2.82 | 2.92 | 1.49 | 1.22 | 1.44 | 4.09 | 5.62 | .33 | 3.21 | 28.84 | |
| April | 6.82 | 1.32 | 4.11 | 3.02 | 2.29 | 3.73 | 2.14 | 4.27 | 1.69 | 1.56 | 3.48 | 34.43 | |
| May | 4.85 | 1.97 | 1.21 | 4.24 | 4.80 | 4.35 | 3.09 | 1.50 | 1.96 | 2.46 | 2.39 | 32.82 | |
| June | 3.31 | .38 | 1.65 | .81 | 1.69 | .14 | 3.14 | 4.45 | 5.94 | 1.03 | 3.15 | 23.69 | |
| July | 5.79 | 1.31 | 3.88 | 3.26 | 3.84 | 1.92 | 3.53 | 3.17 | 1.14 | 3.19 | 7.74 | 38.77 | |
| August | 1.79 | 5.39 | 6.35 | 3.66 | 3.58 | 3.62 | 3.81 | 5.29 | 5.23 | 2.69 | 3.65 | 43.06 | |
| September... | 1.80 | 1.00 | 3.42 | 3.54 | 3.66 | 3.28 | 2.18 | 5.52 | .53 | 1.25 | 5.43 | 31.61 | |
| October | 2.81 | 2.34 | 1.17 | 3.14 | 5.53 | 4.83 | 4.62 | 4.52 | 5.41 | 4.33 | 4.64 | 43.34 | |
| November... | 2.28 | 2.34 | 2.15 | 6.66 | 2.98 | 3.08 | 5.43 | 5.77 | 7.12 | 7.64 | 4.72 | 50.51 | |
| December... | 4.24 | 5.69 | 4.73 | 3.26 | 4.41 | 4.99 | 1.94 | 2.57 | 2.63 | 9.37 | 3.73 | 47.56 | |
| TOTALS... | 50.41 | 31.63 | 40.77 | 45.73 | 37.97 | 44.52 | 39.88 | 45.67 | 45.64 | 36.13 | 50.04 | 465.19 | |

Inspected C.S. 26.9.22. Land falls N.E. to reservoir 44 mi. away but well 4 ft. high 100 yds. W. Land rises slightly on E. of wall. Slightly higher land to S.W. A fair site.

11/30 Inspected very good site see green file

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

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

RAINFALL at Langsett Moor (Up Midhope)County of West Riding Observer Sheffield Corpn. W.W.River Basin Ouse Don-7

Type of Gauge

Annual Average 41.6 in. based on 35 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref S

660609/26

| | | | | | | | | | | | |
|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| Diameter | 8. | | | | | | | | | | |
| Height | 1.8 ⁰ | | | | 1 | 6 | | | | | |
| Altitude | 925. | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1931-40 Means Totals |
| January | 4.31 | 5.11 | 3.47 | 3.98 | 2.71 | 4.73 | 6.53 | 6.14 | 6.00 | 3.83 | 46.81 |
| February | 4.41 | 4.3 | 6.76 | 1.15 | 6.25 | 4.24 | 6.38 | 1.65 | 3.49 | 2.95 | 36.71 |
| March | 1.12 | 2.81 | 2.75 | 4.25 | 1.63 | 3.53 | 3.78 | 6.7 | 3.40 | 3.08 | 26.02 |
| April | 5.03 | 4.60 | 1.41 | 3.06 | 3.19 | 1.89 | 2.59 | 1.25 | 2.35 | 3.78 | 28.15 |
| May | 3.14 | 6.38 | 2.10 | 2.09 | 5.1 | 1.63 | 3.21 | 3.27 | 2.28 | 1.90 | 25.51 |
| June | 4.63 | 1.79 | 2.26 | 1.34 | 3.16 | 4.30 | 1.28 | 3.05 | 2.73 | 1.78 | 24.37 |
| July | 3.88 | 4.06 | 2.46 | 1.90 | 1.31 | 3.91 | 2.51 | 4.50 | 6.00 | 3.64 | 34.17 |
| August | 6.76 | 2.23 | 0.74 | 2.04 | 2.09 | 1.34 | 1.75 | 2.43 | 2.80 | 1.08 | 22.26 |
| September | 5.04 | 2.34 | 2.02 | 2.79 | 6.16 | 4.90 | 1.73 | 2.67 | 2.18 | 2.84 | 32.67 |
| October | 1.56 | 6.40 | 6.32 | 3.79 | 8.93 | 4.20 | 3.87 | 8.31 | 3.46 | 5.52 | 51.86 |
| November | 5.72 | 3.74 | 2.52 | 2.70 | 8.11 | 6.80 | 2.55 | 5.46 | 6.87 | 9.28 | 53.75 |
| December | 1.62 | 1.65 | 0.52 | 5.75 | 3.71 | 4.00 | 3.46 | 4.62 | 3.83 | 4.18 | 33.34 |
| TOTALS | 46.27 | 40.54 | 32.33 | 33.84 | 47.76 | 45.47 | 38.64 | 43.02 | 45.89 | 41.86 | 415.62 |
| | D | D | D | D | D | D | D | D | D | D | |

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| | | | | | | | | |

RAINFALL at Langsett Moor (Up. Midhope)

41

County of West Riding YorkshireObserver Sheffield Corp. W. W.River Basin Cause - Don -Type of Gauge SnowdonAnnual Average 41.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. 5File No. bbobog/ab

| Diameter | 8" | | | 081 | 845 | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|---------|
| Height | 1' 6" | | | | 1 | | | | | | | |
| Altitude | 925' | | | | 41 | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means | 1941-50 |
| January | (4.19) | 3.30 | 6.00 | 6.74 | 4.06 | 5.41 | (4.57) | 10.79 | 1.70 | 2.51 | 49.47 | |
| February | 4.75 | 1.22 | 3.25 | 2.01 | 5.09 | 5.76 | (3.37) | 3.54 | 2.34 | 7.49 | 38.82 | |
| March | 5.81 | 2.41 | 1.40 | .58 | 1.31 | 1.78 | (7.34) | 1.90 | 1.13 | 2.09 | 25.81 | |
| April | 2.84 | 2.49 | 2.91 | 2.31 | 2.79 | 2.14 | 4.56 | 2.67 | 3.98 | 4.82 | 31.81 | |
| May | 2.91 | 4.34 | 3.55 | 3.30 | 4.19 | 2.84 | 3.25 | 2.01 | 2.68 | 2.60 | 31.67 | |
| June | .96 | 1.19 | 2.25 | 2.04 | 3.28 | 4.42 | 3.06 | 5.14 | .58 | 1.13 | 24.05 | |
| July | 2.44 | 3.98 | 1.81 | 2.81 | 1.76 | 3.38 | 2.06 | 1.24 | 4.19 | 2.12 | 25.79 | |
| August | 4.14 | 5.13 | 4.03 | 3.65 | 3.45 | 4.17 | .45 | 5.72 | 2.44 | 3.48 | 36.69 | |
| September | .34 | 2.45 | 4.61 | 4.71 | 2.07 | 6.53 | 1.87 | 1.70 | 1.66 | 5.35 | 31.29 | |
| October | 4.35 | 4.25 | 2.37 | 4.67 | 6.83 | 1.73 | 1.11 | 2.18 | 4.59 | 1.99 | 34.07 | |
| November | 4.29 | 1.63 | 3.49 | 7.79 | .56 | 9.36 | 5.16 | 1.70 | 4.66 | 6.44 | 48.08 | |
| December | 2.10 | 3.42 | 2.64 | 4.31 | 3.55 | 4.87 | 4.87 | 4.86 | 8.31 | 2.80 | 41.23 | |
| TOTALS | 39.21 D | 35.81 D | 38.31 D | 45.52 D | 38.94 D | 52.59 D | 41.67 D | 43.45 D | 41.26 D | 42.62 D | 418.78 | |

1941 Jan. est'd. by observer.

1947 Jan. Feb. Mar. est'd. for snow by observer

1.6.48. Gauge tested - found damaged, new gauge to be fixed.

7.5.50 suspected S.W. gauge refuse sound.

60004

70004

These readings are consistently low 3150/1

Position of Station on reduced Ordnance Survey Map, }
1 mile to 1 inch Series

No. of Map.....

Reference No.....

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

BRITISH RAINFALL ORGANIZATION

Station No. 3151 ⁸⁵ 71RAINFALL at Langsett Moor (Upper Middlesex)

51

County of West Riding-Yorks.Observer Sheffield Corp. W.W.River Basin Ouse - Don - 7Type of Gauge SnowdonAnnual Average 41.6 in. based on 35 years obs. un-weighted.Period of average 1881-1915Ref. S41.96 " " " " " " 1916-1950File No. 1916-19501916-1950 10609/26 P

| Diameter ... | 8" | 8" | | 081 | 895 | | | | | | | |
|---------------|--------|--------|-------|-------|--------|-------|-------|--------|--------|--------|--------|--------|
| Height ... | 1'6" | 1'6" | | | 1 | | | | 1'0" | | | |
| Altitude ... | 925' | | | | 51 | | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means | Totals |
| January ... | (4.19) | (5.50) | 1.23 | 3.69 | (3.00) | 6.23 | 3.16 | 4.82 | (4.20) | 6.67 | 42.69 | |
| February ... | 4.83 | 1.43 | 2.62 | 3.67 | (3.00) | 1.38 | 3.47 | (5.82) | .19 | (3.06) | 29.47 | |
| March ... | (5.46) | 2.24 | 2.69 | 2.84 | 3.36 | 2.17 | 2.76 | 2.90 | 2.03 | 2.78 | 29.23 | |
| April ... | 2.04 | 2.55 | 3.60 | .64 | 1.44 | 3.03 | .30 | 1.00 | 6.02 | 2.50 | 23.12 | |
| May ... | 4.02 | 2.59 | 2.19 | 4.48 | 4.50 | .99 | 1.46 | 3.97 | 1.02 | 1.98 | 27.50 | |
| June ... | .98 | 1.94 | 3.52 | 2.13 | 3.24 | 3.61 | .97 | 5.10 | 2.15 | 1.41 | 25.05 | |
| July ... | 3.01 | 2.33 | 3.52 | 2.74 | .91 | 7.56 | 3.26 | 5.05 | 2.66 | 4.49 | 35.53 | |
| August ... | 5.05 | 2.62 | 3.69 | 5.89 | .98 | 7.57 | 5.46 | 3.40 | 1.06 | 4.19 | 39.91 | |
| September ... | 2.87 | 4.01 | 2.37 | 4.06 | 1.48 | 3.83 | 5.13 | 4.86 | .10 | 4.01 | 32.72 | |
| October ... | .86 | 6.75 | 2.29 | 5.61 | 3.27 | 2.50 | 3.58 | 3.27 | 3.33 | 7.86 | 39.32 | |
| November ... | 10.26 | 2.28 | 3.15 | 8.20 | 2.79 | 1.67 | 3.08 | 1.19 | 6.12 | 6.01 | 44.75 | |
| December ... | 7.30 | 3.40 | 1.78 | 6.15 | 5.17 | 4.99 | 5.13 | 5.34 | 8.55 | 5.55 | 53.36 | |
| TOTALS ... | 50.87 | 37.64 | 32.95 | 50.14 | 33.14 | 45.53 | 37.76 | 46.72 | 37.43 | 50.51 | 422.65 | |
| | D | D | D | D | D | D | D | D | D | D | | |

Inst. No. 1111 by Sheffield Corp. 1950; 1952 Jan sat.

1953 Jan: Feb: est. Eng'r.

Inst II 1957 J. Tube loose. Spout on frame.

50004 40004

20004 40004 20004

Position of Station on Ordnance One-Inch map :

No. of Map 102National Grid Reference 8K 43215999

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|------------|---------|------------|------------|---------|
| | ✓ | ✓ | ✓ | ✓ | |
| | ✓ but - 13 | ✓ | ✓ but - 22 | ✓ but - 47 | |