# *STYE-HEAD-TARN* [GitHub link]

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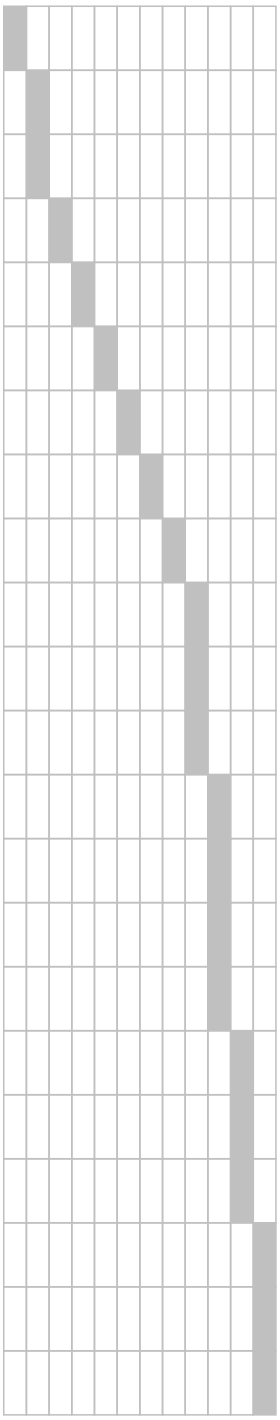


STYE-HEAD-TARN/TYRain_1840-1849_E_pt1-page-128.jpg



# RAINFALL AT Stye Head Tarn

On the shoulder of Great Gable at the eastern extremity of the Vale

Observer.....

Rain Gauge { By..... Diameter.....in. Height above Ground, .....ft.....in. Above Mean Sea Level 1290 1465 ft.

| YEAR..... | | | | | | | 1846 | 1847 | 1848 | 1849 | MEANS. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| January..... | | | | | | | | | | | |
| February ..... | | | | | | | | | 27·54 ? | 23·64 | |
| March ..... | | | | | | | | 18·07 | 9·17 | | |
| April..... | | | | | | | x 21·62 | | 3·22 | 3·40 | |
| May ..... | | | | | | | | 7·56 | 3·10 | 6·00 | |
| June..... | | | | | | | & 6·26 | 7·12 | 9·40 | 3·49 | |
| July ..... | | | | | | | 17·76 | 3·66 | 13·18 | 14·50 | |
| August..... | | | | | | | 11·03 | 10·22 | 12·31 | 10·20 | |
| September..... | | | | | | | 4·22 | 10·92 | 7·51 | 4·87 | |
| October..... | | | | | | | 15·35 | 17·50 | 14·85 | 15·23 | |
| November..... | | | | | | | 7·32 | 20·00 | 11·34 | 15·88 | |
| December..... | | | | | | | 7·13 | ? 13·77 | 13·33 | ? | |
| TOTALS ..... | | | | | | | | 108·82 | 124·95 | 97·21 | |

c c c c

x This Gauge was not put up till May but to avoid confusion it was estimated up to the time the others were put up.

STYE-HEAD-TARN/TYRain_1850-1859_F_pt1-page-259.jpg



Rainfall at Stye Head Tarn E-4-113

Miller's Map No XXIV

Observer

Gauge Above Sea Level 1448 ft.

| Year | 1850 | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | Means. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.94 | 14.40 | 17.18 | — | | | | | | | |
| February | 13.32 | — | 12.40 | — | | | | | | | |
| March | 17.05 | 16.26 | .45 | 23.41 | | | | | | | |
| April | | 4.36 | 1.19 | 6.32 | | | | | | | |
| May | 6.05 | 3.92 | 9.57 | .34 | | | | | | | |
| June | 6.15 | 7.80 | 12.00 | 4.59 | | | | | | | |
| July | 10.98 | 9.71 | 8.25 | 20.30 ff | | | | | | | |
| August | 13.59 | 12.60 | 12.55 | | | | | | | | |
| September | 5.76 | 5.56 | 4.60 | | | | | | | | |
| October | 17.10 | 16.11 | 8.00 | 37.69 * | | | | | | | |
| November | 25.53 | — | — | | | | | | | | |
| December | | 9.44 | 38.00 | | | | | | | | |
| Totals | 123.47 | 100.16 | 124.19 | 92.65 | | | | | | | |

c c c * Estimated

0 — 8-54
1-3 Miller 5-46

STYE-HEAD-TARN/TYRain_1850-1859_F_pt1-page-260.jpg



Rainfall at the Stye — E-G-112

On the shoulder of Sprinkling Fell (Miller's map xxxvii)

Observer — Mr Dixon

Gauge — Above Sea Level 948 ft

| Year | 1850 | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | Means. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | 38.86 | 27.60 | 24.20 | 17.37 | × 4.59 | 10.29 | 16.72 | 14.83 | | |
| February | 29.40 | 17.36 | 22.18 | — | 12.68 | 1.42 | 14.80 | 16.45 | 2.62 | | |
| March | 5.06 | 9.93 | .92 | 8.37 | 11.02 | 10.28 | 1.65 | 10.20 | 11.52 | | |
| April | 20.30 | 6.02 | .86 | 13.86 | 3.53 | 6.34 | 7.13 | 5.22 | 8.57 | | |
| May | 8.36 | 4.72 | 12.04 | 1.19 | 9.01 | 4.42 | 5.26 | 5.28 | 9.61 | | |
| June | 8.41 | 12.88 | 14.13 | 4.98 | 15.02 | 9.48 | 14.89 | 9.12 | 2.38 | | |
| July | 13.31 | 19.12 | 9.08 | 23.05 | 8.38 | 6.40 | 7.32 | 10.12 | 8.32 | | |
| August | 20.27 | 17.04 | 14.12 | 11.77 | 12.48 | 12.34 | 6.15 | 6.09 | 8.71 | | |
| September | 9.91 | 5.86 | 5.43 | 11.55 | 12.90 | 4.22 | 9.32 | 9.13 | | | |
| October | 17.11 | 23.45 | 9.07 | 14.60 | 15.52 | 23.05 | 10.00 | 8.05 | | | |
| November + | 28.06 | 4.89 | 17.70 | 10.05 | 10.93 | 9.14 | × 7.08 | 8.26 | | | |
| December | + 14.14 | 9.49 | 34.60 | 1.29 | 24.68 | 7.48 | 19.22 | 21.56 | | | |
| Totals | | 169.62 | 167.73 | 124.91 | 153.52 | 99.16 | 113.11 | 116.20 | | | |

+ running over
× frozen

STYE-HEAD-TARN/TYRain_1860-1869_06_pt1-page-010.jpg

592431



Rainfall at Stye Head Tarn

Ellcher

Diameter of Gauge, 4 in. Height above Ground, 6 ft. in. Above Mean Sea Level, 1472 ft.

| Year | 1864 | 1865 | 1866 | 1867 | 1868 | 1869 | Means. |
|---|---|---|---|---|---|---|---|
| January | 13·10 | frozen | 17·11 | 14.46 | 9.94 | 18·07 | |
| February | 5·52 | 15·25 | frozen | 12·79 | 14·31 | 13·30 | |
| March | 6·27 | 5·50 | 20·65 | 5.59 | 21·10 | 3.93 | |
| April | 2·85 | 2·79 | 4·12 | 15.31 | 9.86 | 10·26 | |
| May | 4·20 | 14·33 | 4·58 | 5.59 | 6·41 | 3.33 | |
| June | 10·23 | 1.08 | 7.15 | 4.80 | 3·65 | 5·60 | |
| July | 6·50 | 7.38 | 10·11 | 11.63 | 3·44 | 8.44 | |
| August | 10·32 | 12·63 | 12·50 | 15.35 | 14·28 | 5·42 | |
| September | 13·40 | 8.49 | 17.44 | 12.40 | 5·33 | 20·55 | |
| October | 6·40 | 11·14 | 7·25 | 15·02 | 14·62 | 11·94 | |
| November | 13·30 | 11.64 | 17·27 | frozen | 7·21 | 14·16 | |
| December | 16·64 | 9·62 | 16·88 | 15·41 | 20.56 | 18·70 | |
| Totals | 108·73 | 99·85 | 135·06 | 128·35 | 130·71 | 133·70 | |
| | c | c | c | c | c | c | |

Monthly

STYE-HEAD-TARN/TYRain_1870-1879_09_pt3-page-012.jpg

592431



# RAINFALL AT Stye Head Tarn

Lat..... Lon..... County of Cumberland

..... Rain Gauge, by..... Observer J. Fletcher Esq. M.P.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ..... | | | | | | | | | | ·4 | |
| Height ..... | | | | | | | | | | ·6 | |
| Altitude ..... | 1472. | | | | | | | | | 1472 | |
| YEAR ..... | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. |
| January..... | Frozen | | 31·52 | | 14·48 | 14·00 | | 20·05 | 25·85 | | |
| February ..... | do | | 16·15 | | | Frozen | | 22·36 | | | |
| March ..... | 31·74 | | 13·05 | | | | 10·73 | | | 14·40 | |
| April ..... | — | 7·62 | 8·76 | | | | | 6·16 | 10·40 | 3·75 | |
| May ..... | 14·41 | | 5·09 | | | 8·65 | 3·00 | 8·95 | 9·15 | 5·64 | |
| June..... | 4.90 | | 12·03 | | 1·98 | 11·88 | 7·28 | 10·70 | 6·50 | 11·10 | |
| July ..... | 3·14 | | 7·90 | | 8·08 | | 6·50 | 16·90 | 3·20 | 13·65 | |
| August ..... | 2·75 | | 12·19 | | | 14·22 | 6·90 | 14·30 | 9·13 | 13·43 | |
| September..... | 10.46 | | 26·34 | | 18·06 | 9·70 | 11·26 | 5·80 | 15·30 | 18·95 | |
| October..... | 24·88 | | 17·36 | 14·74 | | 11·30 | 6·32 | 22·80 | 16·00 | 10·71 | |
| November..... | 7·82 | | 13·05 | 9·18 | | 3·15+ | 8·64 | 18·90 | ·15 | | |
| December..... | 7.44 | | 13·60 | 10·51 | 13·07 | | 14·20 | 15·42 | 7·65 | 15·10 | |
| TOTALS ..... | | | 177·04 | | | | | 162·34 | 103·33 | 106·73 | |

1879 Jan.s Feb.s & Nov.r frozen

1875 Nov.r g. contained 3·15" and some ice"

STYE-HEAD-TARN/TYRain_1880-1889_12_pt1-page-041.jpg

592431



# RAINFALL AT Styehead Tarn

Lat. ..... Lon. ..... County of Cumberland

..... Rain Gauge, by ..... Observer J. Maitland, Esq.

Mr. E. Wilson

Derwent - 2.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .... | 4 | | | | | | | | | | |
| Height ..... | 6 | | | | | | | | | | |
| Altitude .... | 1472T | | | | | | | | | | |
| Year ..... | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
| January .... | frozen | 1.00 | 10.50 | frozen | 17.75 | 7.13 | frozen | 8.40 | | 9.50 | |
| February .... | 20.00 | frozen | 13.83 | 25.40 | 12.55 | 24.90 | " | 9.80 | | frozen | |
| March ..... | 10.90 | " | 9.50 | 4.25 | 13.30 | 9.00 | 20.60 | 4.60 | | 18.35 | |
| April ..... | 7.00 | 24.20 | 9.50 | 5.00 | 5.90 | 11.70 | 6.85 | 6.70 | 20.30 | 6.70 | |
| May ..... | 7.30 | 14.10 | 5.80 | 6.26 | 14.20 | 6.90 | 6.90 | 3.30 | 3.45 | 6.30 | |
| June ..... | 13.20 | 17.10 | 3.30 | 8.83 | 2.60 | 7.65 | 5.15 | 1.92 | 3.20 | 1.81 | |
| July ..... | 10.20 | 14.20 | 21.80 | 7.00 | 9.25 | 13.82 | 12.40 | 11.00 | 14.20 | 12.75 | |
| August ..... | 6.00 | 16.55 | 8.00 | 15.10 | 3.10 | 6.90 | 10.45 | 3.83 | 9.15 | 10.45 | |
| September .... | 11.90 | 6.60 | 7.7 | 13.75 | 13.30 | 13.40 | 15.70 | 13.30 | 7.15 | 11.00 | |
| October ..... | 2.40 | 3.70 | 8.00 | 12.80 | 10.50 | 12.00 | 14.00 | 12.00 | 13.00 | 15.80 | |
| November .... | 13.50 | 13.40 | 14.20 | 16.80 | 17.00 | 4.90 | 12.15 | 5.10 | 19.30 | 22.90 | |
| December .... | 16.00 | 8.10 | 11.35 | 13.74 | | 11.10 | 11.10 | 7.75 | 13.20 | | |
| TOTALS .... | 118.40 | 118.95 | 133.49 | 127.93 | 119.45 | 129.40 | 115.30 | 87.70 | 102.95 | 115.56 | 116.913 |

STYE-HEAD-TARN/TYRain_1890-1899_18_pt1-page-197.jpg

# RAINFALL AT Stye head Tarn

Lat. ..... Lon. ..... County of Cumberland

..... Rain Gauge, by ..... Observer G. J. Symons Esq FRS

Derwent - 2. Monthly

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .... | 4 | | | | | | | | | | |
| Height ..... | 0 6 | | | | | | | | | | |
| Altitude .... | 1472 T | | | | | | | | | | |
| Year ..... | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January .... | | 10.00 | 16.10 | 3.06 | | | 7.70 | | 20.15 | | |
| February .... | | .55 | 4.35 | | 38.10 | 15.00 | 9.60 | 14.50 | | 25.85 | |
| March ..... | 33.20 | 3.60 | 3.80 | 21.10 | 10.20 | | 15.65 | | 22.10 | 7.90 | 37.452 |
| April ..... | 5.90 | 8.10 | 3.61 | 1.45 | 6.00 | 7.70 | 5.50 | 22.30 | 15.15 | 16.30 | |
| May ..... | 7.65 | 5.35 | 12.09 | 7.60 | 7.20 | .65 | 1.20 | 6.05 | 7.90 | 8.60 | 6.429 |
| June ..... | 16.00 | 4.10 | 8.28 | 4.60 | 10.35 | 3.00 | 7.30 | 9.25 | 10.85 | 2.75 | 7.648 |
| July ..... | 13.80 | 6.15 | 8.38 | 12.00 | 8.00 | 9.00 | 10.50 | 7.50 | 5.15 | 9.60 | 9.008 |
| August ..... | 15.90 | 16.25 | 21.10 | 13.90 | 15.00 | 12.00 | 10.70 | 19.25 | 18.45 | 3.90 | 14.645 |
| September.... | 12.65 | 26.50 | 16.73 | 11.40 | .20 | 4.50 | 19.15 | 12.25 | 10.85 | 12.45 | 12.668 |
| October..... | 11.80 | 12.10 | 13.10 | 14.20 | 15.95 | 10.00 | 11.50 | 8.50 | 11.80 | 12.20 | 12.115 |
| November.... | | 11.95 | 10.15 | 9.25 | 13.75 | 8.80 | 5.10 | 21.65 | 16.40 | 16.50 | |
| December .... | 26.00 | 16.85 | 9.35 | 25.40 | 7.95 | 12.60 | 20.55 | 23.25 | 16.00 | 4.55 | 27.605 |
| TOTALS ... | 142.90 | 121.50 | 127.04 | 123.96 | 132.70 | 83.25 | 124.45 | 144.50 | 154.80 | 120.60 | 127.570 |

1891 July gauge read on 29th Sept. g. not read till Oct. 2.

STYE-HEAD-TARN/TYRain_1900-1909_23_pt1-page-178.jpg

# RAINFALL AT Styehead Tarn

Lat. ..... Lon. ..... County of Cumberland

Rain Gauge, by ..... Observer H. J. Wallis & D. Mill

Dement – 2. M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .. | 4 | | | | | | | | | | |
| Height .... | 0 6 | | | | | | | | | | |
| Altitude .. | 1472 T | | | | | | | | | | |
| Year .... | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | 15.90 | | | 21.55 | (19.25) | 8.65 | (21.65) | (8.15) | (20.00) | (10.00) | |
| February .. | 6.00 | 13.00 | 17.80 | 23.55 | 25.40 | 8.95 | 18.80 | (9.10) | (9.55) 20.55 | (10.00) | |
| March .... | .85 | | 8.40 | 27.05 | | 17.10 | | 12.25 | (11.00) | (4.20) | |
| April ..... | 8.15 | 15.30 | 5.43 | 4.60 | 14.95 | 16.00 | 3.50 | 8.70 | 4.30 | 5.00 | |
| May ..... | 8.90 | 3.80 | 6.35 | 9.50 | 9.30 | 10.50 | 20.65 | 10.65 | 9.60 | 5.10 | |
| June ..... | 10.75 | 9.20 | 2.35 | 3.85 | 4.40 | 7.35 | 4.50 | 24.85 | 9.75 | 2.40 | |
| July ..... | 5.90 | 3.00 | 9.70 | 14.90 | 7.85 | 8.70 | 10.50 | 5.90 | 10.85 | 16.30 | |
| August .... | 15.50 | 15.50 | 9.60 | 23.70 | 11.25 | 13.50 | 14.20 | 16.45 | 13.20 | 8.20 | |
| September .. | 13.60 | 12.90 | 6.20 | 13.00 | 10.15 | 11.50 | 4.20 | 2.25 | 17.30 | 3.60 | |
| October .... | 15.40 | 18.15 | 12.60 | 27.40 | 12.90 | 14.85 | 17.10 | 17.25 | 6.80 | (15.00) | |
| November .. | 10.70 | 20.00 | 11.00 | | 16.30 | 15.30 | 15.45 | 11.25 | 12.00 | 7.40 | |
| December .. | 26.15 | 13.20 | 16.05 | ~~26.25~~ .75 25.50 | 16.90 | (13.90) | (11.10) | (21.65) | (12.50) | 21.60 | |
| TOTALS .. | 137.80 | 124.05 | 105.48 | ~~195.35~~ 194.60 | 148.65 | 146.30 | 141.65 | 148.45 | (135.85) | (108.80) | 139.163 3.653 |

1903 Decr. .75in app portioned to 1904 on the thawing of the gauge on Jany 6th 1904 after 2 months frost

1904 Jan Gauge thawed on Jan 6th after 2 months frost

1908 Jan Estimated

1909 Oct " Gauge burst

STYE-HEAD-TARN/TYRain_1910-1919_22_pt1-page-117.jpg



# RAINFALL at Stye Head Tarn

County of Cumberland — Observer Dr H.R. Mill

River Basin Derwent 2 — S. Richardson (11)

Rain Gauge, by — W. Edmondson (16)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 4 | | | | | | | | | | |
| Height ..... | 0 6 | | | | | | | | | | |
| Altitude ... | 1472T | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | | | | 13.10 | (12.90) | 16.20 | 32.70 | | 11.60 | | |
| February ... | 36.20 | 27.40 | 18.00 | 9.30 | 21.80 | 20.70 | 14.80 | 7.80 | 13.00 | 9.40 | |
| March ..... | | 7.00 | 19.00 | 12.40 | 12.65 | 9.00 | | 3.20 | 8.60 | | |
| April ..... | 8.90 | 12.80 | 3.97 | 12.80 | 5.30 | 9.15 | 32.20 | 5.80 | 2.20 | 10.40 | |
| May ..... | 6.90 | 10.00 | 5.30 | 10.10 | 7.70 | 1.40 | 12.50 | 6.00 | 2.60 | 2.60 | |
| June ..... | 3.40 | 12.40 | 13.50 | 14.05 | 3.70 | 3.20 | 7.60 | 5.60 | 12.80 | 4.80 | |
| July ..... | 12.20 | 3.15 | 10.15 | 2.25 | 7.95 | 13.30 | 7.60 | 3.80 | | 4.20 | |
| August ..... | 18.00 | 10.20 | 17.80 | 8.80 | 13.45 | 4.50 | 6.85 | 16.00 | 11.55 | 7.00 | |
| September .. | 2.30 | 9.80 | 6.78 | 5.20 | 6.50 | 3.13 | 8.05 | 11.20 | 18.15 | 9.10 | |
| October ... | 6.60 | 13.70 | 18.65 | 9.35 | 4.10 | 4.05 | | 17.40 | 8.35 | 2.60 | |
| November .. | 9.50 | 18.00 | 18.45 | 13.80 | 26.50 | 6.70 | 31.10 | 9.00 | 6.60 | 7.90 | |
| December ... | 22.70 | 24.30 | 24.60 | (15.50) | 23.25 | 22.85 | 5.20 | 10.80 | 10.50 | 11.90 | |
| TOTALS ... | 126.70 | 148.75 | 156.20 | 126.65 | 145.80 | 114.18 | 158.60 | 96.60 | 105.95 | 69.90 | |

1916 June. g. repaired.

Inspected H.V.L. 25/8/20. G. diameters 398. 399. 398. Inner can quite sound but outer has hardly any bottom left to it. Good exposure, fixed in rocks 40 ft above the Tarn.

Notebk May 1919 (Edmondson)

G. lent by from Sept 1916.

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

STYE-HEAD-TARN/TYRain_1920-1930_25_pt1-page-034.jpg

**Form B.R. H. 20.** 3624

20

# RAINFALL at Stye Head Tarn

County of Cumberland — Observer British Rainfall Organization W. Edmondson

River Basin Derwent 2 — Air Ministry

† Galvanized Rain Gauge, by NGZ — J. Bainbridge for M.O.

In good condition except ® 640 for rust under base rim — Drains:- 4.97 5.08 5.02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 4 | | | | | 5 | | | | | |
| Height ..... | 0.6 | | | | | 1.6 | | | | | |
| Altitude ... | 1472 | | | | | | | | | | |
| Year ..... | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. MEANS. |
| January ... | (11.00) | 27.00 | 19.50 | 20.50 | 12.00 | (10.00) | 18.50 | | | | 24.46 |
| February ... | 9.00 | 1.55 | 11.70 | 16.00 | (2.90) | 14.00 | 22.00 | | | | (2.20) |
| March ..... | 13.25 | 20.70 | 11.00 | 5.40 | (3.10) | 4.50 | 8.89 | | | | 10.00 |
| April ..... | 12.05 | 3.20 | | 9.00 | 6.00 | 18.00 | 7.83 | | 8.71 | | 5.02 |
| May ..... | 6.25 | 6.70 | 11.20 | 8.80 | 13.50 | 16.30 | 8.30 | | 1.80 | 10.80 | 5.30 |
| June ..... | 5.00 | 1.50 | 10.00 | 8.00 | 10.70 | 1.50 | 10.77 | | 13.27 | 9.20 | 7.12 |
| July ..... | 7.70 | 5.20 | 14.60 | 13.40 | 13.60 | 5.40 | 8.06 | | | 15.13 | 7.24 |
| August ..... | 6.70 | 17.55 | 13.50 | 22.20 | 14.00 | 14.00 | 11.70 | | 17.94 | 22.84 | 20.25 |
| September... | 9.00 | 4.10 | 10.70 | 16.50 | 21.00 | 9.60 | 13.25 | | 11.25 | 4.60 | 10.50 |
| October..... | 2.00 | 6.00 | 7.00 | 26.00 | 11.40 | 17.00 | 31.28 | | 22.15 | 17.45 | 29.15 |
| November... | 6.00 | 6.45 | 6.65 | (19.80) | 14.40 | (4.50) | | | 32.20 | 32.80 | 16.40 |
| December... | 7.75 | 21.00 | 21.00 | (12.50) | (24.00) | (12.50) | (5.00) | | | 26.80 | (14.75) |
| TOTALS... | 95.70 | 120.95 | 136.55 | 178.10 | (146.60) | 122.30 | (145.58) | | imp. | imp. | (152.39) |

1920. Gauge inspected H.E.C. 25.VIII.20. See Cast sheet. new 3.XII.20.

1923. Nov. & Dec. corrected for date of reading.

1924. 8. frozen end of Feb. & Dec. apportioned.

1929. Tarn-apex gauge under repair having been burst by frost

1930 Feb & Dec estimated by adj. stns.

† Inspected R. Corless X.25. G. fixed in stone block on ground sloping to E (say 25°) to N.W. of Tarn about 70 yds from edge of water. Big boulders break force of wind & probably check overexposure.

Hill to W. 20/25°
" E. 16/17°
" S. 10°

1927. Record unreliable For reasons see Files 631803/25 & 820297/28.

1928. Gauge frozen 12/28. Not visited Feb 3rd. Burst Feb 25. Quite temporary with Dec frozen

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

METEOROLOGICAL OFFICE, AIR MINISTRY. BRITISH RAINFALL ORGANIZATION, 62, CAMDEN SQUARE, LONDON, N.W.1.

(°1383) Wt. 1671—6044. 10,000. 4/21. J. T. & S., Ltd. 160.

STYE-HEAD-TARN/TYRain_1920-1930_25_pt1-page-035.jpg

**Form B.R. H. 20.**

3625

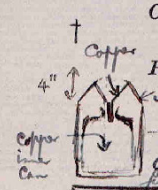
20

# RAINFALL at The Stye B. Cld

County of Cumberland

Observer British Rainfall Organisation
W. Edmondson
Air Ministry
J. Bambridge for M.O

River Basin Derwent 2.




Rain Gauge, by Dalmo: 3.92 3.88 3.90
funnel in good condition only

| Diameter ... | 4 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Height ..... | 0 6 | | | | | | | | | | |
| Altitude ... | 1077 | | | | | | | | | | |
| Year ..... | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. ~~MEANS.~~ |
| January ... | (26.00) | 41.00 | 17.00 | 25.20 | 15.40 | 15.00 | 29.20 | | (40.00) | 4.95 | 28.85 |
| February ... | 22.00 | 1.65 | 19.50 | 18.40 | (3.80) | 18.00 | 25.50 | | (19.85) | | 2.15 |
| March ..... | 26.00 | 33.00 | 12.55 | 6.90 | (4.20) | 6.10 | 9.41 | | 11.25 | 7.96 | 10.20 |
| April ..... | 18.00 | 3.70 | | 12.00 | 7.80 | 17.50 | 9.58 | | 7.51 | 6.22 | 4.40 |
| May ..... | 17.30 | 9.00 | 13.00 | 12.00 | 16.50 | 19.20 | 9.06 | | 1.33 | 10.88 | 4.75 |
| June ..... | 7.00 | 1.95 | 13.75 | 9.60 | 14.00 | 1.50 | 18.80 | | 16.32 | 9.40 | 6.10 |
| July ..... | 16.50 | 7.50 | 15.50 | 15.52 | 15.50 | 5.50 | 12.16 | | 20.15 | 16.80 | 7.90 |
| August ..... | 12.25 | 24.15 | 14.80 | 30.50 | 17.30 | 16.50 | 12.37 | | 18.53 | 23.72 | 22.05 |
| September... | 14.50 | 5.75 | 12.40 | 22.50 | 26.00 | 10.65 | 15.12 | | 13.15 | 5.75 | 9.20 |
| October..... | 2.16 | 8.30 | 8.30 | 33.00 | 15.00 | 22.50 | 31.28 | | 21.26 | 20.25 | 28.75 |
| November... | 12.00 | 8.30 | 7.70 | 28.50 | 21.00 | (5.00) | | | 29.55 | 35.86 | 16.50 |
| December... | 14.12 | 34.50 | 25.00 | 19.15 | 34.50 | (14.50) | (5.00) | | 14.50 | 28.60 | (15.00) |
| TOTALS... | 187.83 | 178.80 | 159.50 | 233.27 | 191.00 | 151.95 | (177.48) | | (214.00) imp. | 170.39 | (155.85) |

1920 Gauge Inspected H.B.G. 25. VIII. 20. See Cast sheet
1924. S. frozen in Feb.
† Inspected R. Corlen X. 25. G. set in stones 3 yds. to S.W. of B. new.
1925 Nov & Dec g frozen totals apportioned by pur. stns.
1927. Record unreliable. For reasons see Files 631803/25 & 820297/28.
1928 Gauge frozen 31/12/27 and overflowing Feb 3/28. Estimates probably reliable
1929 Printed.
1930. Dec estimated by surrounding stns. g frozen.

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

**METEOROLOGICAL OFFICE, AIR MINISTRY.** **BRITISH RAINFALL ORGANIZATION, 62, CAMDEN SQUARE, LONDON, N.W.1.**

(*1383) Wt. 1671—6044. 10,000. 4/21. J. T. & S., Ltd. 160.

STYE-HEAD-TARN/TYRain_1920-1930_25_pt1-page-036.jpg

592439 3626

**Form B.R. H. 20.**



# RAINFALL at The Stye B. New

County of Cumberland — Observer British Rainfall Organization W. Edmundson

River Basin Derwent 2 — Air Ministry

Seathwaite Rain Gauge, by N & Y — J. Bainbridge for M.O.

† Inverted rusty at bottom. Diams: 5·03 5·00 4·98

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 5 | | | | | | | | | | |
| Height ..... | 1 6 | | | | | | | | | | |
| Altitude ... | 1070 | | | | | | | | | | |
| Year ..... | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. ~~MEANS.~~ |
| January ... | (24·00) | 42·00 | 19·00 | 26·80 | 16·00 | 15·60 | 30·00 | | (50·00) | (5·25) | 30·67 |
| February ... | 23·85 | 1·70 | 19·00 | 20·60 | (4·50) | 23·00 | 29·20 | | (21·35) | (8·45) | 3·60 |
| March ..... | 29·00 | 36·00 | 11·30 | 7·25 | (4·90) | 7·00 | 11·95 | | 13·00 | | 11·50 |
| April ..... | 19·35 | 4·60 | 4·80 | 13·90 | 8·50 | 19·00 | 10·36 | | 8·65 | (6·60) | 4·15 |
| May ..... | 18·00 | 9·20 | 13·90 | 12·25 | 16·60 | 20·00 | 10·04 | | 1·65 | (11·55) | 5·20 |
| June ..... | 11·15 | 2·05 | 13·65 | 10·50 | 14·80 | 1·90 | 12·05 | | 18·00 | 9·82 | 6·80 |
| July ..... | 17·45 | 7·90 | 15·45 | 16·60 | 15·70 | 6·00 | 12·38 | | 25·30 | 17·84 | 8·12 |
| August ..... | 13·50 | 23·50 | 16·00 | 31·20 | 18·20 | 17·40 | 12·35 | | 20·30 | 24·76 | 23·10 |
| September... | 14·65 | 5·90 | 14·15 | 22·70 | 28·00 | 11·50 | 15·02 | | 14·25 | 6·16 | 10·90 |
| October..... | 2·15 | 8·35 | 8·15 | 34·00 | 15·30 | 23·20 | (9·56) | | 26·80 | (21·40) | 30·50 |
| November... | 14·00 | 8·45 | 7·90 | 30·00 | 23·00 | (6·00) | (21·00) | | 34·40 | 38·00 | 17·45 |
| December... | 16·10 | 35·00 | 29·50 | 21·50 | 36·00 | (16·40) | (5·00) | | 16·30 | 31·50 | (16·00) |
| TOTALS... | 203·20 | 184·65 | 172·80 | 247·30 | 201·50 | 167·00 | (178·91) | | (250·90) imp. | (181·33) | (167·89) |

1920 Gauge Inspected 25-VIII-20. H.B.C. See last sheet.
1924. Feb. & March corrected for 8 frozen in Feb.
† Inspected R. Corlen X.25. Gauge set in concrete block, on slope of Seathwaite Fell (marked on map) the ground sloping steeply to N. (very steeply at 15 yds)
" " is S.S.W. at 29°
Sheramara " E. " 15°
Pace Brownlee " W. 20°
1930. Dec. 9 frozen. Estimated by adj. stns.
1926. Oct. & Nov. apportioned. Water frozen at end of Oct.
1927. Record unreliable. For reasons see files 631803/25 + 820297/28.
1928 See Stye B Ocd. Water in outer can. Probably unreliable

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



(*1383) Wt. 1671—6044. 10,000. 4/21. J. T. & S., Ltd. 160.

STYE-HEAD-TARN/TYRain_1931-1940_20_pt1-page-272.jpg

A.M. Form 1356. **Air Ministry, Meteorological Office.** M 3624.

31

# RAINFALL at Styehead Tarn

County of Cumberland Observer F. Bainbridge, for M.O.

River Basin Derwent - 2

Type of Gauge * Octopent 50 in. (1932) 500b

Annual Average ~~129~~ 145·8 in. based on ~~25~~ years obs. un-weighted. Period of average ~~1884-1915~~ Ref ~~S~~ 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 5. | | | | | | | | | 5 | |
| Height | 1.6. | | | | | | | | | 1 0 | |
| Altitude | 1472 | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | (15·00) | (36.00) | 18·00 | 27·00 | 15·00 | 15·50 | 20·00 | 23·25 | 17·50 | 2·90 | 17515 |
| February | (15·50) | ·00 | (15·25) | 3·50 | 31·25 | 8·50 | (19·00) | 6·75 | 21·50 | (9·50) | 11525 |
| March | 2·50 | 10·10 | (11·75) | 8·75 | 4·25 | 9·75 | (5·00) | 13·25 | 11·00 | 16·75 | |
| April | 7·50 | 12·50 | 6·50 | 7·25 | 9·85 | 3·00 | 10·25 | 2·25 | (6·75) | (5·00) | |
| May | 8·10 | 10·65 | 5·00 | 13·00 | 1·50 | 2·00 | 3·00 | 12·75 | (2·00) | (2·50) | |
| June | 13·75 | 6·50 | 5·00 | 8·00 | 10·00 | 8·00 | 12·00 | 15·50 | 13·25 | (1·80) | 8005 |
| July | 22·50 | 15·75 | 13·50 | 6·00 | 8·75 | 18·50 | 11·25 | 25·25 | 19·25 | (13·50) | 13175 |
| August | 8·65 | (7·50) | 8·00 | 21·50 | 11·25 | 5·00 | 6·75 | 9·50 | 4·75 | (10·00) 10·50 | 8525 |
| September | 9·85 | (20·50) | 2·50 | 19·25 | 18·50 | 17·00 | 13·50 | 11·00 | 6·00 | 16·00 | |
| October | 11·10 | 23·00 | 9·25 | (25·25) | 26·25 | 17·50 | 6·75 | 34·50 | 5·75 | (16·75) 17·00 | |
| November | 28·26 | 12·50 | 3·75 | (6·00) | 14·50 | 18·50 | 4·75 | 21·50 | 30·00 | (16·25) 15·00 | |
| December | (20·00) | 30·00 | 4·75 | 23·25 | 8·00 | 21·50 | 8·50 | 12·00 | (6·00) | (19·00) 19·75 | 13300 |
| TOTALS | (162·71) | (185·00) | (103·25) | 168·75 | 159·10 | 145·75 | 120·75 | 187·50 | 143·75 | (129·95) np. imp. | |

1932. January estimated & Aug. & Sept adjusted, by surrounding stations
1933 Feb & March allocated total
1939 Dec. gauge frozen, estimated April & May adjusted from date of reading
* 1940 gauge damaged - new 50" Octopent supplied as replacement

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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

STYE-HEAD-TARN/TYRain_1931-1940_20_pt1-page-273.jpg

A.M. Form 1356. **Air Ministry, Meteorological Office.**

31

RAINFALL at Stye Head B old g.

County of Cumberland Observer F. Bainbridge - for M.O.

River Basin Derwent - 2.

Type of Gauge

Annual Average 70.7 in. based on 42 years obs. un-weighted. Period of average 1881 - 1915 Ref. S.

820297/27

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 4. | | | | | | | | | | |
| Height | 0.6. | | | | | | | | | | |
| Altitude | 1077. | | | | | | | | | 1070 | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | (15.20) | | | | | | | | | (2.90) | |
| February | (15.80) | | | | | | | | | 6.50 | |
| March | 2.10 | | | | | | | | | 17.00 | |
| April | 7.25 | | | | | | | | | 5.25 | |
| May | 7.50 | | | | | | | | | 2.50 | |
| June | 12.50 | | | | | | | | | 2.00 | |
| July | 21.75 | | | | | | | | | 13.50 | |
| August | 9.80 | | | | | | | | | 13.50 | |
| September | 8.75 | | | | | | | | | 20.00 | |
| October | 10.20 | | | | | | | | | 20.25 | |
| November | 26.35 | | | | | | | | | 18.50 | |
| December | 19.50 | | | | | | | | | 23.50 | |
| Totals | (156.70) # | | | | | | | | | 145.40 n.p. high | |

1931. N.P. gauge leaking.

Terminated 1931.

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, EXHIBITION ROAD, LONDON, S.W.7.

(*2505†—1386) Wt. 27165—1817 10,000 4/31 T.S 118

STYE-HEAD-TARN/TYRain_1931-1940_20_pt1-page-274.jpg

A.M. Form 1356. **Air Ministry, Meteorological Office.**

M 3626.

31

RAINFALL at Stye Head B. ~~new g.~~ 1136

County of Cumberland. Observer F. Bainbridge, for M.O.

River Basin Derwent - 2.

Type of Gauge

Annual Average ~~181.0~~ 145.7 in. based on ~~15~~ 9 years obs. ~~un~~-weighted. Period of average 1881–1915 Ref. Bnds. 212A+B ~~—~~ on file

820297/28.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .... .... | 5. | | | | | | | | | | |
| Height .... .... | 1. 6. | | | | | | | | | | |
| Altitude .... .... | 1070. | | | | | | | | | | |
| Year .... .... | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January .... .... | (16·00) | 34·70 | 17·50 | 24·00 | 14·25 | 16·00 | 25·00 | 22·50 | 17·75 | (2·90) | 19060 17460 |
| February .... .... | (16·50) | ·00 | (14·50) | 3·25 | 28·00 | 6·50 | 22·00 | 9·00 | 24·75 | 6·50 | 13100 11450 |
| March .... .... | 2·15 | 11·00 | (11·75) ~~26·25~~ | 8·25 | 11·70 | 9·75 | 4·00 | 15·50 | 13·00 | 17·00 | 9710 ~~9495~~ |
| April .... .... .... | 7·75 | 12·25 | 5·50 | 7·00 | 9·00 | 2·75 | 9·00 | 2·00 | (8·00) | 5·25 | 6850 |
| May .... .... .... | 7·75 | 8·75 | 4·75 | 12·50 | 1·25 | 2·50 | 3·00 | 12·75 | (2·00) | 2·50 | 5775 |
| June .... .... .... | 13·65 | 6·00 | 4·75 | 7·75 | 10·25 | 9·00 | 11·25 | 14·75 | 13·75 | 2·00 | 9315 7950 |
| July .... .... .... | 22·15 | 14·25 | 13·00 | 4·50 | 10·50 | 18·25 | 10·25 | 26·50 | 18·50 | 13·50 | 15140 12925 |
| August .... .... | 10·50 | (7·65) | 7·75 | 19·00 | 9·75 | 6·25 | 7·25 | 10·50 | 4·75 | 13·50 | 9690 |
| September .... .... | 9·25 | (20·75) | 2·50 | 18·25 | 18·00 | 16·25 | 13·00 | 9·25 | 6·50 | 20·00 | 13375 |
| October .... .... | 10·90 | 22·50 | 9·50 | 26·00 | 27·00 | 17·50 | 7·00 | (34·50) | 5·25 | 20·25 | 18040 |
| November .... .... | 27·25 | 13·75 | 3·50 | 6·75 | 15·50 | 18·50 | 4·75 | 23·75 | 28·00 | 18·50 | 16025 |
| December .... .... | 20·15 | 28·00 | 4·50 | 22·00 | 8·75 | 23·00 | 8·25 | 12·00 | 5·75 | 23·50 | 15590 13575 |
| TOTALS .... .... | (164·00) | 179·60 | 99·50 np. | 159·25 np | 156·95 | 146·25 | 124·75 | 193·00 | 148·00 | 145·40 n.p. high | 151670 |

1932. Aug & Sept adjusted by surrounding stns.
1933 Feb and March adjusted by near stations. Values with exception of April identical with those from the Octapent gauge. This record was therefore not printed.
1938 Monthly total for Oct. estd.
1939 April & May. adjusted from date of sending.

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, EXHIBITION ROAD, LONDON, S.W.7.

(*2305†—1386) Wt. 27165—1817 10,000 4/31 T.S 118

STYE-HEAD-TARN/TYRain_1931-1940_20_pt1-page-275.jpg

A.M. Form 1356. **Air Ministry, Meteorological Office.** 592428 M 3626/1

31

# RAINFALL at Stye Head "A"

County of Cumberland  Observer F. Bainbridge Esq. for MO

River Basin 2 - Derwent.

Type of Gauge Octapent

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref. 820297/28

| Diameter | | 5" | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Height | | 1' 0" | | | | | | | | | |
| Altitude | | 1100' | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | | (34.70) | 17.50 | 25.50 | 14.50 | 16.00 | 23.00 | 22.50 | 17.00 | (2.90) | |
| February | | .00 | (14.75) (11.75) | 3.25 | 28.25 | 6.00 | 21.25 | 8.50 | 22.00 | 9.50 | |
| March | | 10.25 | ~~26.50~~ | 8.25 | 4.75 | 9.50 | 4.75 | 12.75 | 12.25 | 16.75 | |
| April | | (12.25) | 6.00 | 7.00 | 9.25 | 2.75 | 9.50 | 2.00 | (7.75) | 5.00 | |
| May | | 8.75 | 4.75 | 12.50 | 1.50 | 2.25 | 3.50 | 12.50 | (1.75) | 2.50 | |
| June | | 6.00 | 4.75 | 7.75 | 10.25 | 9.60 | 11.50 | 14.75 | 12.50 | 1.80 | |
| July | | 14.25 | 13.00 | 5.00 | 10.00 | 19.00 | 10.25 | 25.25 | 17.75 | 13.50 | |
| August | | (7.50) | 7.75 | 19.75 | 9.75 | 6.25 | 7.15 | 9.25 | 4.50 | 16.00 | |
| September | | (20.75) | 2.50 | 18.75 | 19.00 | 17.50 | 12.75 | 10.00 | 6.25 | 16.00 | |
| October | | 22.50 | 9.50 | 27.00 | 26.25 | 18.25 | (6.80) | (34.00) | 5.50 | 16.75 | |
| November | | 13.75 | 3.50 | 6.80 | 15.25 | 19.25 | 4.50 | 22.50 | 28.50 | 16.25 | |
| December | | 28.00 | 4.50 | 22.50 | 8.60 | 22.00 | 8.00 | 12.50 | 5.50 | 19.00 | |
| TOTALS | | (178.70) M | 100.25 M | 164.05 M | 157.35 | 148.25 | 122.95 | 186.50 | 141.25 | 129.95 M | |

17360
11350
7880
12800
8190
13060

N.Rsg. set up on new site 23.1.32.
1932 Jan estimated, Aug. Sept. adjusted by surrounding stns
1933 Feb & Mar. allocated by near stations.
1938 Monthly value for Oct. estd.
1939 April & May adjusted date of reading.

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, EXHIBITION ROAD, LONDON, S.W.7.

(*2505†—1386) Wt. 27165—1817 10,000 4/31 T.S 118

STYE-HEAD-TARN/TYRain_1941-1950_23_pt1-page-189.jpg

592431

**A.M. Form 1603.** **Air Ministry, Meteorological Office.**

Station No. 3624

41

**RAINFALL at** Styehead Tarn

County of Cumberland  Observer F. Bainbridge for MO

River Basin Derwent - 2

Type of Gauge × Ockofent 50 in (1940) no 5119

Annual Average ....in. based on ....years obs. un-weighted. Period of average ....Ref. ....

145·8 in. computed by Mr Cornish (1943) f A 20048/40.

File No. 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .... | 5" | | | 592 | 431 | | | | | | |
| Height .... | 1' 6" | | | | 1 | | 18/10 1' 0" | | | | |
| Altitude .... | 1472' | | | | 41 | | | | | | |
| Year .... | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January .... | (4·50) | (8·50) | 23·50 | 31·25 | (13·00) | 25·25 | (17·00) | 28·50 | 22·75 | (17·00) | |
| February .... | 18·25 | (3·95) | 15·25 | (7·50) | (17·75) | (13·00) | (2·70) | 12·50 | 17·75 | (20·00) | |
| March .... | 5·50 | (9·00) | 6·75 | 3·25 | 14·00 | (13·50) | (12·00) | 17·50 | 8·25 | (15·50) | |
| April .... | 7·50 | 8·25 | 10·25 | 7·50 | 4·25 | 5·50 | 16·50 | 6·50 | 24·75 | 15·25 | |
| May .... | 9·00 | 10·75 | 11·25 | 9·75 | 14·75 | 3·25 | 5·00 | 7·25 | 7·75 | 4·50 | |
| June .... | 1·25 | 3·25 | 9·25 | 17·25 | 13·50 | 18·75 | 8·00 | 18·75 | 3·75 | 15·25 | |
| July .... | 5·00 | 14·75 | 9·50 | 6·75 | 9·50 | 14·50 | 10·00 | 14·25 | 10·25 | 12·50 | |
| August .... | 18·25 | 16·70 | 26·75 | 15·25 | 3·75 | 16·50 | ·00 | 16·75 | 10·50 | 25·25 | |
| September .... | 4·25 | 22·25 | 18·50 | 16·50 | 15·75 | 29·00 | 14·50 | 24·50 | 7·25 | 40·50 | |
| October .... | 18·25 | 27·50 | 18·75 | 14·75 | 17·70 | 1·25 | 2·75 | 19·25 | 15·50 | 16·50 | |
| November .... | 11·25 | 4·50 | 12·25 | 26·75 | 1·75 | 24·75 | (31·00) | 20·25 | 25·75 | 15·75 | |
| December .... | 13·50 | 25·25 | 7·75 | 15·25 | 11·75 | 17·50 | (13·00) | 14·75 | 32·25 | (9·00) | |
| Totals .... | 116·50 M | (154·65) M | 169·75 M | 171·75 M | 137·45 M | 182·75 M | 132·45 M | 194·25 M | 186·50 M | (207·00) M np | |

10

× 1940 gauge damaged - new 50" ockofent gauge supplied as replacement.

40014

1940. Jan estd. for snow
1942 Jan. Feb. & March est'd. from map.
1944 Feb. estimated
1945 Jan & Feb. est'd  1946 Feb. and March apportioned
1947 Sept. Pr. lowered to 1' but leak slightly into outer can. Enc 26318 fl 820297/28
1947 Jan Feb March Nov. Gt. gauge frozen. Dec. values est. gauge overflowing.
1950 np too much est. for Jan Feb Mar & Dec estimated.

| | | | | | |
|---|---|---|---|---|---|
| 40004 | 70004 | 20004 | 60004 | 30004 | 10034 |

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

(4486-90) Wt. 47525-4471 12,000 2/40 T.S. 700

10

STYE-HEAD-TARN/TYRain_1941-1950_23_pt1-page-190.jpg

A.M. Form 1603. **Air Ministry, Meteorological Office.** 592439

Station No. M 3626

41

**RAINFALL at** Stye Head B.

County of Cumberland  Observer F. Bainbridge for M.O.

River Basin Derwent - 2

Type of Gauge Scathwaite gauge

Annual Average 145.7 in. based on 9 years obs. un-weighted. Period of average 1881 - 1915 Ref. Encs 212 A & B on file

File No. 820297/28

| Diameter | 5" | | | 592 | 439 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Height | 1' 6" | | | | 1 | | 1' 0" 18/27 | | | | |
| Altitude | 1070' | | | | 41 | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | (4.50) | 9.25 | 27.00 | 35.50 | (13.00) | 24.00 | (16.00) | 26.00 | 23.50 | 17.25 | |
| February | (17.00) | (4.50) | 18.25 | 7.75 | (18.50) | (12.50) | (2.60) | 13.50 | 18.50 | 20.00 | |
| March | 5.50 | (10.50) | 7.25 | 3.50 | 17.00 | (11.00) | (11.00) | 19.00 | 9.50 | 15.50 | |
| April | 7.25 | 8.00 | 10.50 | 7.50 | 4.25 | 6.25 | (21.00) | 7.75 | 26.25 | 16.00 | |
| May | 10.50 | 10.25 | 11.25 | 9.75 | 17.00 | 3.00 | 3.50 | 7.50 | 7.75 | 4.00 | |
| June | 1.25 | 3.25 | 9.50 | 17.25 | 13.50 | 19.00 | 9.00 | 19.25 | 3.75 | 15.00 | |
| July | 4.75 | 17.00 | 9.75 | 7.25 | 9.75 | 17.00 | 10.00 | 13.75 | 9.25 | 12.75 | |
| August | 21.00 | 18.25 | 29.00 | 17.00 | 3.75 | 17.25 | .00 | 17.75 | 10.25 | 23.50 | |
| September | 4.50 | 25.50 | 20.50 | 16.00 | 15.25 | 31.50 | 17.50 | 26.25 | 7.25 | 39.25 | |
| October | 19.50 | 29.50 | 21.50 | 15.50 | 16.75 | 1.50 | 3.25 | 20.00 | 15.75 | 16.50 | |
| November | 12.50 | 5.25 | 13.50 | 27.75 | 1.75 | 31.00 | (30.00) | 20.00 | 25.25 | 15.50 | |
| December | 14.25 | 29.50 | 8.25 | 15.00 | 11.75 | 21.75 | (12.00) | 16.50 | 22.00 | 8.50 | |
| TOTALS | (122.50) np | (170.75) n.p. | 186.25 n.p. | 179.75 n.p. | 142.25 n.p. | 195.75 n.p. | (135.85) M. n.p. | 206.25 M | 189.00 n.p. M | 203.75 M | |

10

1941. Jan. estd. for snow. Feb coord. np high.
1942. n.p. high. Feb. & Mar. est'd. fr. map.
1943. n.p. high.
1944 n.p. high.
1945 n.p. high Jan & Feb. est'd 1946 n.p. high. Feb. & March approximate
1947 G. in good condition, set at 1' by Tom Wilson in Sept (see enc. 263B/file 820297/28)
1947. Jan. Feb, March, Nov. est. gauge frozen. Dec. est gauge overflowing.

| | | | | | |
|---|---|---|---|---|---|
| 60004 | 30004 | | 60004 | 30004 | 74034 |

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

(4486-90) Wt. 47525-4471 12,000 2/40 T.S. 700

10

STYE-HEAD-TARN/TYRain_1941-1950_23_pt1-page-191.jpg

529428

**A.M. Form 1603.** **Air Ministry, Meteorological Office.**

Station No. 3626/1

41

RAINFALL at Stye Head "A"

County of Cumberland  Observer F. Bainbridge Esq for M.O.

River Basin 2 – Derwent

Type of Gauge Octapent 30in (1932) Nov. 1945

Annual Average ....in. based on ....years obs. un-weighted. Period of average .... Ref ....

139.8 in. computed by Mr Cornish (1943) f A20048/40.

File No. 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter .... | 5" | | | 592 | 428 | | | | | | |
| Height .... | 1' 0" | | | | 1 | | 1' | | | | |
| Altitude .... | 1100' | | | | 41 | | | | | | |
| Year .... | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January .... | (4.50) | 9.00 | 19.50 | 28.00 | (12.50) 100 | 23.75 | (16.00) | 22.25 | 19.75 | (16.00) | |
| February .... | 16.50 | (4.50) | 14.50 | 6.75 | (18.00) 100 | (12.50) | (2.60) | 11.75 | 16.00 | (19.00) | |
| March .... | 5.25 | (10.50) | 6.50 | 3.00 | 13.50 | (10.50) | (11.00) | 16.50 | 7.75 | 14.50 | |
| April .... | 7.25 | 7.75 | 9.50 | 7.00 | 4.00 | (5.00) | 14.00 | 6.00 | 23.00 | 13.75 | |
| May .... | 9.75 | 9.75 | 11.00 | 9.00 | 14.25 | 3.00 | (3.50) | 6.75 | 7.50 | 4.00 | |
| June .... | 1.25 | 2.75 | 8.75 | 15.50 | 11.75 | 13.00 | 8.00 | 18.00 | 3.00 | 14.00 | |
| July .... | 4.50 | 15.00 | 8.75 | 6.50 | 9.00 | 13.00 | 9.50 | 12.00 | 9.00 | 11.75 | |
| August .... | 17.75 | 16.30 | 24.75 | 13.50 | 100 | 16.50 | .00 | 16.50 | 10.00 | (22.50) | |
| September .... | 4.00 | 20.50 | 17.00 | 15.25 | | 26.50 | 14.75 | 23.75 | 6.75 | (38.00) | |
| October .... | 17.00 | 25.00 | 17.50 | 13.50 | | 1.25 | 2.75 | 17.75 | 15.25 | 14.25 | |
| November .... | 11.00 | 4.25 | 11.50 | 23.50 | 100 | 25.75 | (30.00) | 18.75 | 23.50 | 14.25 | |
| December .... | 11.50 | 23.00 | 7.25 | 13.00 | 11.50 | 15.00 | (12.00) | 14.75 | 30.00 | 7.75 | |
| Totals .... | 110.25 M | (148.30) M | 156.50 M | 154.50 M | 100 inc | 165.75 M | (124.10) M | 182.75 M | 171.50 M | (189.75) M np | |

10

1941. Jan. estd for snow.
1942. Feb. & Mar. est'd. from map.
1945 Sep. 3rd Gauge badly battered. Built to 100 for overhaul.
1947 Sept. Gauge moved 20x nearer stream by Tom Wilson & set at 1' above ground. Cnc. 263B fl 820297/28

34004 | 72034 | 60304

1946 Feb & March approximated April est'd.

1947 Jan Values est. gauge frozen. Dec. values est. gauge overflowing.
Feb "
March "
Apr "

1950 np too much est. Jan Feb Aug Sept estimated.

40004 | 30004

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

(4486-90) Wt. 47525-4471 12,000 2/40 T.S. 700

10

STYE-HEAD-TARN/TYRain_1951-1960_21_pt1-page-031.jpg

**A.M. Form 1903.** **Air Ministry, Meteorological Office.**

Station No. 3624

51

RAINFALL at Styehead Tarn

County of Cumberland  Observer F. Barnbridge for M.O.

River Basin Derwent - 2  J. Edmondson Esq. w.e.f. 1957

Type of Gauge Octapent 50 in (on lowe)

Annual Average ..... in. based on ..... years obs. un-weighted. Period of average ..... Ref. .....

" " 143.8 in. computed by Mr. Conway 1945 (1946-57) " " " 1916-50 " " 5

File No. 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 5" | | | | 592 | 431 | | | | | |
| Height ... | 1' 0" | | | | | 1 | | | | | |
| Altitude ... | 1472' | | | | | 51 | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | (21.00) | (15.50) | 17.25 | (15.00) | 16.00 | 10.25 | X (26.00) | (20.50) | 12.50 | 22.50 | |
| February ... | (20.00) | (6.00) | 11.75 | (7.50) | (~~4.00~~ 100) | 4.50 | 10.25 | 20.00 | 10.00 | 18.00 | |
| March ... | (17.00) | (11.25) | 3.75 | 25.65 | 12.00 | 6.50 | 11.50 | 5.00 | 10.25 | 7.00 | |
| April ... | 10.75 | (10.50) | 11.00 | 5.65 | 9.50 | 3.75 | 6.00 | 8.00 | 11.00 | 15.00 | |
| May ... | 3.50 | (10.00) | (6.00) | 7.00 | (6.50 100) | 13.75 | 8.25 | 12.00 | 3.00 | 7.00 | |
| June ... | 5.50 | (11.75) | 7.25 | 18.75 | 100 | 5.95 | 6.25 | 9.00 | 10.50 | 8.00 | |
| July ... | 19.50 | (12.25) | 27.50 | 20.50 | 100 | 18.25 | 15.25 | 12.50 | 16.00 | 14.00 | |
| August ... | 17.50 | (23.00) | 13.25 | 18.00 | 6.50 | 22.50 | 14.25 | 12.25 | 2.50 | 9.00 | |
| September ... | 25.00 | (13.25) | 34.00 | 28.75 | 100 | 9.75 | 16.00 | 13.00 | 3.00 | 10.25 | |
| October ... | 2.75 | (15.00) | 11.75 | 40.50 | 100 | 16.25 | 20.75 | 21.00 | 16.00 | 7.50 | |
| November ... | 33.50 | (6.20) | 31.75 | 31.50 | 6.75 | 8.25 | 7.25 | 4.00 | 17.00 | 27.00 | |
| December ... | 29.00 | (13.30) | 12.75 | 22.25 | 22.50 | 26.50 | 22.00 | 12.50 | 28.00 | 16.00 | |
| TOTALS ... | (205.00) M | (148.00) incomp. | 188.00 M | (241.05) M | 100 inc | 146.20 | 163.75 M | 149.75 | 139.75 M | 161.25 M | |

10

1952 Ext by Dr Gearsdale (-46 in) [illegible]. The total given was 168.50 in. which seems too by even taking 177 in. as the average based on 1948-51 against 5 well units.

1954 Jan. Feb. Oct, Nov. Dec. approx. mean

1955 Gauge repaired October. March big. Feb frozen

1956 Jan.-Feb. app'd. 1103.

Repaired during Sept 56.

Inspected 1.8.56. 1114. Beck. Gauge sound, frost protector broken. Measurement by dipped. Site satisfactory.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 70004 | 77774 | 02004 | 60004 | | | 40004 | 40004 | | |

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 35/221/097

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

Summary of Earlier Records from 10-year Sheets :

| | | 1910–19 | 1920–30 | 1931–40 | 1941–50 | 1951–60 |
|---|---|---|---|---|---|---|
| Record D, or d | | ✓ – | 1920-26, 28-30, np28-29 – | ✓ np40 – | ✓ np50 ✓ | |



10

STYE-HEAD-TARN/TYRain_1951-1960_21_pt1-page-032.jpg

**A.M. Form 1903.** **Air Ministry, Meteorological Office.**

Station No. 3626 m

51

RAINFALL at Styehead (B)

County of Cumberland  Observer H. Bainbridge for: P.O.
J. Edmondson, Esq. (w.e.f. 1957)

River Basin Derwent - 2

Type of Gauge Leathwaite gauge: (on Loan)

Annual Average 145.7 in. based on 9 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. 2128 on file

File No. 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 5" | | | 592 | 439 | | | | | | |
| Height ... | 1' 0" | | | | 1 | | 6" | | | | |
| Altitude ... | 1070' | | | | 51 | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | 19.75 | (15.00) | 16.50 | (14.00) | (16.75) | 10.00 | (25.00) | 21.00 | 14.00 | 24.00 | |
| February ... | 18.00 | 6.50 | 13.25 | (8.25) | (3.90) | (4.40) | 11.75 | 21.00 | 10.00 | 21.00 | |
| March ... ... | (17.00) | (10.00) | 4.00 | 16.50 | (6.25) | 6.50 | 15.00 | 5.25 | 11.50 | 6.50 | |
| April ... ... | 11.75 | (10.00) | 10.50 | 5.50 | 10.50 | 3.50 | 5.75 | 8.00 | 13.75 | 10.00 | |
| May ... ... | 3.50 | (9.00) | 5.00 | 6.45 | 12.25 | 13.50 | 7.50 | 12.50 | 3.25 | 8.50 | |
| June ... ... | 5.50 | (10.00) | 6.50 | 18.50 | 14.00 | 5.75 | 6.50 | 8.00 | 9.00 | 9.00 | |
| July ... ... | 19.25 | (10.00) | 27.00 | 20.25 | 7.50 | 17.00 | 17.50 | 11.50 | 17.00 | 18.50 | |
| August ... | 17.25 | (22.00) | 14.25 | 17.25 | 6.50 | 22.50 | 15.25 | 12.50 | 2.75 | 7.50 | |
| September ... | 24.75 | (13.00) | 38.00 | 27.25 | 13.25 | 10.25 | 17.50 | 12.00 | 4.00 | 11.00 | |
| October ... | 2.75 | (12.00) | 11.75 | 39.50 | 13.25 | 17.25 | 26.50 | 22.00 | 23.00 | 7.00 | |
| November ... | 31.00 | (6.00) | 32.25 | 42.00 | 6.75 | 8.75 | 6.25 | 4.50 | 20.00 | 33.00 | |
| December ... | 28.75 | (13.25) | 12.75 | 22.00 | 22.75 | 26.75 | 27.00 | 14.00 | 37.00 | 20.50 | |
| TOTALS ... | 199.25 | (136.75) | 191.75 | 237.45 | (133.65) | 146.15 | 181.50 | 152.25 | 165.25 | 176.50 | |
| | M | np/ra with rain | M np big | np big | M | | np | np | np | np | |

10

1952 Rg 8" gauge pole (-32 in) provisionally. Rainfall given was 159.0 in. which seems too big even taking an av. 178.2 in. based on 1948-51 against Leathwaite.
1954. Jan-Feb av. np big. frozen  1955 - Jan - Year amended. 1103. Feb. frozen - est'd.  1960 np big

Inspected Mr. Decks 1.8.56. Gauge sound, dip rod used. Site o/e SW. No recommendations
1956. Feb. est. 1103.  1958 np big  1959 np big.
1957 np big
Av. 176.07 in. based on 35 yrs. obs. within 1920-57. 18 in. big. Period of av. 1916-50 S
- Rejected.

Position of Station on Ordnance One-Inch map :  No. of Map .....  National Grid Reference 35/229.102

| Date. | Lat. N. | Long. | Railway Station. | | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge | Direction from gauge. |
|---|---|---|---|---|---|---|---|---|---|
| | 10004 | 77774 | 60004 | 70004 | 20004 | 40004 | | | |

Summary of Earlier Records from 10-year Sheets :

| | | 1910–19 | 1920–30 | 1931–40 | 1941–50 | 1951–60 |
|---|---|---|---|---|---|---|
| Record D, or d | | ✓ imp 1912 | 1920-26, 28-30 np 28 | ✓ np 33, 34, 40 | ✓ np 41-47, 49 | |



10

A.M. Form 1903. **Air Ministry, Meteorological Office.**

Station No. 3626/1

51

RAINFALL at Styehead (A)

County of Cumberland  Observer H. Bainbridge Esq. for Mo. J. Edmondson, Esq. (w.e.f 1957)

River Basin Derwent – 2

Type of Gauge Detapent 30" (Con Cone)

Annual Average ... in. based on ... years obs. un-weighted. Period of average ... Ref. ...
" " 138.06 in. compiled by Mr. Pounds 1948 from 1932-51 " " 1916-50 "

File No. 820297/28

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter ... | 5" | | | | 592 | 428 | | | | | |
| Height ... | 1' 0" | | | | | 1 | | | | | |
| Altitude ... | 1166 | | | | | 51 | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | 15.50 | (15.00) | 16.25 | (14.00) | 15.50 | 9.50 | 22.00 | (18.60) | 11.00 | 21.25 | |
| February ... | 16.25 | 6.50 | 10.00 | (8.00) | (3.00) | 4.25 | 9.50 | 17.00 | 8.50 | 16.00 | |
| March ... ... | 14.50 | (10.00) | 3.50 | 16.50 | (6.50) | 6.25 | 13.50 | 4.00 | 10.50 | 6.00 | |
| April ... ... | 10.50 | (10.00) | 9.50 | 5.15 | 9.50 | 3.75 | 6.00 | 6.00 | 13.00 | 13.50 | |
| May ... ... | 3.25 | (9.00) | 5.50 | 7.00 | 10.75 | 12.25 | 7.50 | 11.00 | 2.50 | 6.00 | |
| June ... ... | 5.25 | (10.00) | 6.25 | 17.75 | 13.50 | 5.50 | 6.50 | 7.50 | 7.50 | 8.00 | |
| July ... ... | 18.50 | (10.00) | 26.00 | 18.75 | 6.75 | 16.50 | 16.50 | 10.00 | 16.00 | 17.00 | |
| August ... | 16.00 | (22.00) | 13.00 | 16.00 | 5.75 | 21.00 | 14.50 | 11.75 | 3.50 | 6.50 | |
| September ... | 22.25 | (13.00) | 33.00 | 25.00 | 12.50 | 9.50 | 16.00 | 12.50 | 4.00 | 10.00 | |
| October ... | 2.50 | (12.00) | 10.50 | (36.75) | 12.50 | 16.00 | 23.50 | 20.50 | 21.20 | 8.50 | |
| November ... | 28.50 | (6.00) | 30.00 | (30.00) | 6.00 | 7.75 | 7.00 | 4.00 | 24.50 | 24.00 | |
| December ... | 27.25 | (12.75) | 11.50 | (21.00) | 19.00 | 24.25 | 22.50 | 11.00 | 28.00 | 17.00 | |
| TOTALS ... | 180.25 M | (136.25) P M | 175.00 M | (215.90) M | 121.25 M | 136.50 | 165.00 M | 133.85 M | 150.20 M | 153.75 M | |

10

1952 Est. of Dugearmouth (–22in) tentatively. The total given was 158.75 in. which seems too low even taking av. 162.1 based on 1948-51 against South Wales.

1954 Gauge est. on overflow, frozen. 1955 Feb. frozen est'd. Mar. amended M.O.3.

Inspected Mr. Deeks 1.8.56. Gauge sound, measured by lip rod. Site satisfactory.

77774  60074  30004  40004

Position of Station on Ordnance One-Inch map : No. of Map ... National Grid Reference 35/231106

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

Summary of Earlier Records from 10-year Sheets :

| | | 1910–19 | 1920–30 | 1931–40 | 1941–50 | 1951–60 |
|---|---|---|---|---|---|---|
| Record D, or d | | | | C 1933 | 1941-44, 46-50 | |

(62) Wt. 13072—389 10M 6/50 T.S. 841

10