

RAINFALL AT *Lune Head 5 mls N.E. of [Brough]*

Lat.

Lon.

County of *Yorkshire* NR.

Rain Gauge, by

Observer *M^r G. Wade*

| | | | | | | | | | | | |
|--------------|------|------|------|------|------|-----------|-------|-------|-------|-------|--------|
| Diameter... | | | | | | 8 | | | | | |
| Height ... | | | | | | 1. - | | | | | |
| Altitude ... | | | | | | 1779 | | | | | |
| Year ... | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. |
| January ... | | | | | | | 1.70 | 6.10 | 5.70 | 1.50 | |
| February... | | | | | | | 6.60 | 5.10 | 1.90 | 4.10 | |
| March..... | | | | | | | 6.50 | 5.60 | 3.20 | 3.10 | |
| April | | | | | | | 3.60 | 3.70 | 4.50 | 2.40 | |
| May | | | | | | | 1.10 | 3.50 | 5.10 | 1.80 | |
| June | | | | | | | 2.60 | 4.70 | 4.60 | 4.20 | |
| July..... | | | | | | | 4.10 | 6.40 | 3.70 | 6.90 | |
| August ... | | | | | | | 3.70 | 10.90 | 5.80 | 6.10 | |
| September .. | | | | | | | 6.90 | 4.20 | 6.10 | 4.40 | |
| October | | | | | | # 4.80 | 4.20 | 6.80 | 3.80 | 2.50 | |
| November .. | | | | | | 5.90 | 2.90 | 6.70 | 4.60 | 3.10 | |
| December .. | | | | | | 3.50 | 9.10 | 5.10 | 4.10 | 4.80 | |
| TOTALS .. | | | | | | | 53.00 | 68.80 | 53.10 | 44.90 | |

RAINFALL AT *Lune Head [Brough]*

80

Lat. _____

Lon. _____ County of *York, N. R.*

Rain Gauge, by _____

Observer *G. J. Symonds, Esq., F.R.S.*

Dec . 6

| | | | | | | | | | | | |
|----------------|-------|-------|---------|------|------|------|------|------|------|------|--------|
| Diameter | 8 | | | | | | | | | | |
| Height | 1. 0 | | | | | | | | | | |
| Altitude | 1779T | | | | | | | | | | |
| Year | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
| January | 1.90 | | 1.90 | 4.20 | | | | | | | |
| February | 5.10 | 8.70 | 1.50 | .50 | | | | | | | |
| March | 1.30 | | 1.20 | .00 | | | | | | | |
| April | 4.00 | 1.30 | 4.20 | .20 | | | | | | | |
| May | 1.90 | .20 | .50 | .40 | | | | | | | |
| June | 3.80 | 4.20 | 8.00 | 4.70 | | | | | | | |
| July | 6.90 | 5.60 | 5.10 | 2.40 | | | | | | | |
| August | 2.10 | 5.90 | 3.80 | 3.40 | | | | | | | |
| September | 5.50 | 4.20 | (2.50) | 5.70 | | | | | | | |
| October | 7.40 | 3.40 | 4.70 | 5.40 | | | | | | | |
| November | 5.70 | 5.80 | 7.80 | 3.20 | | | | | | | |
| December | 3.20 | 4.10 | | 1.10 | | | | | | | |
| TOTALS | 48.80 | 43.40 | (41.20) | | | | | | | | |

1882 Sept^r ^{low} Gauge tampered with amount computed
 Gauge moved during the year
 Laithkeirk Church 6 miles E
 1883 Feb to May incorrect partly owing to snow.

RAINFALL AT

Lunedale Limestone

Lat. _____

Lon. _____

County of *N R York*

Symonds Copperhills

Rain Gauge, by _____

Observer _____

D. D. Wilson Esq

Feet - 6.

High Water only

| | | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|-------|-------|--------|
| Diameter ... | | | | | | | | | 5 | | |
| Height | | | | | | | | | 1.0 | | |
| Altitude ... | | | | | | | | | 1450 | | |
| Year ... | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January ... | | | | | | | | | | 4.20 | |
| February ... | | | | | | | | | 13.14 | 5.70 | |
| March | | | | | | | | | | 4.80 | |
| April | | | | | | | | | 3.50 | 4.80 | |
| May | | | | | | | | | 6.00 | 1.60 | |
| June | | | | | | | | | 3.20 | 4.40 | |
| July | | | | | | | | | 4.60 | 6.50 | |
| August | | | | | | | | | 4.30 | 4.10 | |
| September .. | | | | | | | | | 8.70 | 4.20 | |
| October ... | | | | | | | | | 3.80 | 6.40 | |
| November .. | | | | | | | | | 4.80 | 1.20 | |
| December ... | | | | | | | | | 3.50 | 8.60 | |
| TOTALS ... | | | | | | | | | 55.54 | 56.50 | |

1908 Liskirk Church

7 miles

N.E.

Middleton Station

6 1/2 -

N.E.

large on "Moorland"

RAINFALL at Lunedale LuncheadCounty of N. R. YorkshireObserver Hugh Wilson EsqRiver Basin Tees 6Snodden Rain Gauge, by

M.

| Diameter ... | 5 | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|---------|
| Height | 1.0 | | | | | | | | | | | |
| Altitude ... | 1450 | | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. Totals | 1916-19 |
| January ... | | 2.70 | 3.50 | 4.30 | 5.00 | 6.90 | 9.20 | 5.48 | 6.00 | 6.00 | 26.68 | |
| February ... | 13.70 | 5.90 | 3.90 | 3.90 | 7.80 | 4.90 | 6.10 | 9.82 | 5.90 | 1.40 | 14.92 | |
| March | 2.50 | 4.50 | 6.20 | 7.30 | 5.80 | 4.00 | 8.00 | 2.30 | 2.70 | 4.20 | 12.20 | |
| April | 3.50 | 4.30 | 1.30 | 6.30 | 2.70 | 8.20 | 5.20 | 3.10 | 1.50 | 3.20 | 13.00 | |
| May | 2.70 | 2.20 | 3.20 | 3.20 | 3.90 | 1.80 | 4.80 | 2.70 | 2.50 | 2.00 | 12.00 | |
| June | 3.00 | 4.00 | 7.00 | 2.50 | 3.70 | .90 | 4.20 | 2.30 | 2.70 | 2.20 | 11.40 | |
| July | 5.30 | 2.20 | 5.70 | 1.20 | 2.70 | 5.20 | 6.20 | 2.50 | 6.20 | 2.30 | 17.20 | |
| August | 9.40 | 3.80 | 6.10 | 2.40 | 4.10 | 3.60 | 4.20 | 10.60 | 5.90 | 6.20 | 26.90 | |
| September .. | 1.00 | 3.90 | 4.20 | 4.10 | 4.80 | .90 | 3.80 | 4.20 | 12.80 | 3.80 | 24.60 | |
| October ... | 2.60 | 5.10 | 5.70 | 3.20 | 2.10 | 1.10 | 11.90 | 8.20 | 7.10 | 4.50 | 31.70 | |
| November .. | 5.30 | 7.20 | 5.50 | 5.90 | 8.90 | 2.20 | 6.30 | 6.00 | 2.90 | 5.60 | 20.80 | |
| December ... | 4.70 | 8.10 | 9.10 | 5.70 | 8.90 | 8.20 | 4.60 | 4.10 | 9.20 | 7.20 | 25.10 | |
| TOTALS ... | 52.70 | 53.90 | 61.40 | 50.00 | 60.40 | 42.90 | 69.50 | 53.00 | 68.40 | 48.60 | 236.50 | |

1912 for an open river

1917 Jan - this apportioned using 3498.
11.5.53.

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|---------------------|-----------|------------|-----------|-----------|------------|
| 1911 | | | Middleton - Farnley | 6 1/2 mi | N.E | Laithkirk | 7 mi | N.E |

RAINFALL at Lunedale LuncheadCounty of N. YorksObserver Hugh Wilson Esq.River Basin Tees 6J.S. CalvertSymons ^{Can} Snowdon Rain Gauge, by MS. R. Collinson (1924)
Tees Valley Water Bd.

| | | | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|--------------|-------------------|--|--|
| Diameter ... | 5" | | | | | | | | | | | | | |
| Height | 1 0 | | | | | | | | | | | | | |
| Altitude ... | 1450 | | | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 MEAN | 1920-30 Totals | | |
| January ... | 8.50 | 12.50 | 5.20 | 6.10 | 4.50 | 5.50 13.3 | 7.40 | 6.20 | 11.80 | 2.80 | 8.30 | 78.80 | | |
| February ... | 6.60 | 2.10 | 5.70 | 6.70 | 2.10 | 7.20 | 5.00 | 2.60 | 7.30 | 1.30 | 1.70 | 43.30 | | |
| March | 4.50 | 5.90 | 3.70 | 3.30 | 2.20 | 3.30 | 4.30 | 5.50 | 4.20 | .60 | 2.50 | 40.00 | | |
| April | 8.10 | 1.80 | 4.20 | 4.50 | 2.50 | 5.60 | 2.80 | 5.00 | 1.50 | 3.20 | 3.40 | 42.60 | | |
| May | 6.90 | 3.50 | 1.90 | 4.40 | 5.70 | 5.30 | 4.10 | 3.30 | 2.30 | 2.60 | 2.60 | 42.60 | | |
| June | 3.50 | 1.50 | 3.20 | 2.00 | 5.40 | .20 | 3.40 | 5.30 | 8.00 | 3.60 | 5.30 | 41.40 | | |
| July | 8.10 | 2.10 | 6.40 | 4.50 | 6.50 | 1.90 | 6.20 | 6.00 | 5.20 | 5.50 | 6.30 | 59.70 | | |
| August | 5.30 | 9.10 | 4.70 | 9.60 | 4.90 | 5.00 | 4.80 | 10.10 | 9.70 | 6.00 | 7.80 | 77.00 | | |
| September... | 2.90 | 2.50 | 6.00 | 4.50 | 6.60 | 5.20 | 7.00 | 8.00 | 2.90 | 4.00 | 6.10 | 55.70 | | |
| October | 2.90 | 3.50 | 2.20 | 10.00 | 6.60 | 5.10 | 5.20 | 5.70 | 6.50 | 7.00 | 7.10 | 61.80 | | |
| November... | 3.80 | 2.50 | 2.30 | 6.00 | 3.80 | 2.70 | 7.30 | 7.00 | 9.20 | 7.60 | 6.50 | 59.00 | | |
| December... | 5.80 | 9.40 | 9.20 | 5.20 | 7.50 | 7.00 | 3.00 | 1.90 | 3.50 | 9.00 | 3.90 | 65.40 | | |
| TOTALS... | 66.90 | 57.70 | 54.70 | 66.80 | 58.30 | 54.00 | 60.50 | 66.60 | 72.10 | 53.20 | 61.50 | 672.30 | | |

*J. on the moor
Inferred from
data of 9.10.23. Site on Long Grain Moss - a wide expanse of flat bog.
A good deal of shells for digestion.*

Position of Station on reduced Ordnance Survey }
Map, 2 miles to 1 inch Series } No. of Map

Reference No.

| Date. | Lat. N. | Long. W. | Railway Station. | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|-------------|------------|-----------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1926. | 54° 35' 49" | 2° 11' 10" | Middleton in Teesdale | 6 1/2 mi | NE | Laithe Kirk | 7 mi | NE |

RAINFALL at Lunedale (Lunehead)County of North RidingObserver G. R. Collinson, Esq. C.E.River Basin Tees - 6.T.S.R. Winkley & Co. (Lund)

Type of Gauge.....

Annual Average 55.6 in. based on 20 years obs. un-weighted. Period of average 1891-1915 Ref. S

670379/26

| Diameter | 5. | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|---------|----------------|---------|
| Height | 1.0. | | | | | | | | | | | |
| Altitude | 1450. | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means Total | 1931-40 |
| January | 5.50 | 7.10 | 3.10 | 7.50 | 3.00 | 6.60 | 6.20 | 7.80 | 8.90 | (3.10) | 58.80 | |
| February | 7.90 | .90 | 7.30 | .30 | 10.20 | 4.00 | (8.10) | 3.40 | 5.90 | (2.50) | 50.50 | |
| March | 1.30 | 5.60 | 3.50 | 5.70 | 2.80 | 3.25 | (4.40) | 4.20 | 6.10 | 7.20 | 44.05 | |
| April | 5.20 | 5.40 | 3.80 | 4.80 | 4.90 | 1.60 | 5.00 | 1.70 | 3.40 | 3.10 | 38.90 | |
| May | 4.90 | 3.90 | 3.00 | 4.00 | .60 | 2.50 | 3.40 | 3.90 | 1.20 | 2.90 | 30.30 | |
| June | 7.90 | 1.70 | 3.50 | 2.80 | 4.80 | 4.30 | 3.10 | 5.20 | 4.50 | 1.60 | 39.40 | |
| July | 7.10 | 6.10 | 5.10 | 4.00 | 2.00 | 5.20 | 3.40 | 6.00 | 8.10 | 6.20 | 53.20 | |
| August | 4.20 | 1.90 | 2.70 | 5.50 | 1.80 | 3.10 | 1.90 | 4.30 | 3.90 | 4.30 | 33.60 | |
| September | 2.70 | 8.60 | 3.40 | 4.00 | 8.40 | 8.90 | 4.60 | 3.10 | 1.80 | 5.90 | 51.30 | |
| October | 4.50 | 8.60 | 7.80 | 10.40 | 11.20 | 5.40 | 2.40 | 10.90 | 5.50 | 5.40 | 72.10 | |
| November | 7.00 | 5.20 | 3.90 | 3.50 | 6.50 | 7.00 | 1.70 | 6.50 | 7.50 | 6.30 | 55.10 | |
| December | 3.70 | 5.50 | 1.10 | 7.10 | 3.80 | 7.10 | 3.30 | 6.50 | 2.80 | 6.70 | 47.60 | |
| TOTALS | 61.90 | 60.20 | 48.20 | 59.60 | 60.00 | 58.95 | 47.50 | 63.50 | 59.60 | (55.20) | 574.85 | |

1937 Feb & Mar estimated.

1940 Jan Feb totals adjusted by 7% to nearby stns.

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

Station No. T.F. 3496

RAINFALL at Limehead (Limehead)

41

County of North Riding Observer T.S.R. Winder Esq. C.E.River Basin Jes - 6

Type of Gauge

Annual Average 55.6 in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. 8 PG 447 (1947)
55.0 33 E10079/49File No. 226592/350.70.2.74.1.5

| Diameter | 5" | | | | | | | | | | | |
|-----------|---------|---------|-------|-------|-------|-------|--------|-------|-------|--------|--------|---------|
| Height | 1' 0" | | | | | | | 1' 2" | | | | |
| Altitude | 1450' | | | 41 | | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means | 1941-50 |
| January | (4.00) | (4.70) | 6.10 | 8.70 | 7.30 | 5.10 | (5.50) | 13.40 | 4.10 | (4.30) | 63.20 | |
| February | (5.80) | (2.70) | 4.80 | 3.30 | 6.00 | 4.30 | (4.00) | 4.10 | 4.50 | 8.10 | 51.20 | |
| March | (5.50) | (3.70) | 3.40 | 1.30 | 3.10 | 2.50 | (7.70) | 4.30 | 3.20 | 4.70 | 39.40 | |
| April | 2.90 | 2.90 | 3.90 | 2.80 | 5.70 | 2.50 | 6.80 | 3.40 | 6.60 | 5.70 | 43.20 | |
| May | 3.60 | 3.50 | 5.90 | 3.30 | 4.90 | 3.00 | 1.80 | 2.50 | 3.30 | 4.40 | 35.20 | |
| June | 1.70 | 1.50 | 6.30 | 4.50 | 5.10 | 4.00 | 5.90 | 8.20 | 1.30 | 3.80 | 42.30 | |
| July | 1.30 | 6.10 | 4.00 | 4.30 | 3.70 | 6.30 | 6.20 | 2.50 | 3.50 | 5.10 | 43.60 | |
| August | 7.50 | 4.30 | 9.20 | 3.00 | 4.60 | 8.10 | .50 | 9.20 | 3.50 | 7.80 | 58.30 | |
| September | 1.60 | 5.80 | 5.20 | 9.30 | 4.80 | 9.10 | 6.60 | 7.20 | 3.30 | 8.60 | 62.10 | |
| October | 7.10 | 5.50 | 5.30 | 5.70 | 7.60 | 1.00 | 1.70 | 5.20 | 6.10 | 6.80 | 52.00 | |
| November | 4.80 | 1.60 | 4.30 | 9.80 | 2.20 | 9.60 | 9.00 | 4.80 | 10.80 | 7.60 | 64.50 | |
| December | 3.90 | 5.10 | 3.60 | 6.30 | 3.30 | 5.40 | 4.50 | 4.20 | 11.40 | 5.00 | 52.70 | |
| TOTALS | (49.79) | (48.00) | 62.00 | 63.50 | 58.30 | 60.50 | 60.20 | 69.00 | 64.60 | 71.90 | 607.70 | |
| | M | M | M | M | M | M | M | M | M | M | | |

1941 Jan.-March est'd.

1942 Jan.-March est'd.

1947 Jan.-Feb. & Mar. and Jan. snow

1950 Jan. part est.

70004 70004

70004

70004

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

1 mile to 1 inch Series

Reference No.

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

Station No. 3496 T.F. 62RAINFALL at Lunedale (Lunehead)

51

County of North Riding - Yorks.Observer T. G. R. Winter By C.F.River Basin Lees - 6Lees Valley & Cleveland Water Bd.

Type of Gauge.....

Annual Average 52.0 in. based on 33 years obs. in weighted. Period of average 1881-1915 Ref. P.B.447
" " 60.15 " " 21 " " Within 1932-56. " " 1916-1950 File No. E.10079/49 S

| | | | | | | | | | | | | |
|-----------|-----|--------|--------|---------|-------|-------|-------|-------|--------|-------|-------|-----------------|
| Diameter | ... | 6" | | 027 521 | | | | | | | | |
| Height | ... | 1'0" | | 1 | | | | | | | | |
| Altitude | ... | 1450' | | 51 | | | | | | | | |
| Year | ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means Totals |
| January | ... | 6.50 | (5.50) | 2.30 | 5.10 | 3.10 | 5.30 | 7.30 | 4.00 | 5.00 | 7.00 | 51.10 |
| February | ... | 5.40 | (2.50) | 2.90 | 3.00 | 2.70 | 2.20 | 4.10 | (8.50) | 1.60 | 5.30 | 38.20 |
| March | ... | 6.00 | 3.30 | .70 | 4.00 | 2.30 | 3.00 | 4.40 | (3.40) | 3.10 | 3.40 | 33.60 |
| April | ... | 5.20 | 3.40 | 4.70 | .90 | 3.00 | 1.20 | 1.10 | 2.00 | 4.50 | 3.00 | 29.00 |
| May | ... | 3.90 | 2.40 | 2.60 | 5.40 | 5.00 | 2.40 | 3.10 | 6.90 | 1.00 | 2.50 | 35.20 |
| June | ... | 2.20 | 4.40 | 2.90 | 5.00 | 4.10 | 2.10 | 2.40 | 3.20 | 2.50 | 2.50 | 31.30 |
| July | ... | 2.60 | 3.70 | 7.30 | 5.00 | 2.70 | 6.70 | 7.50 | 5.10 | 4.30 | 5.50 | 50.40 |
| August | ... | 4.90 | 8.00 | 7.40 | 8.30 | 1.40 | 10.50 | 7.40 | 5.70 | 1.40 | 5.00 | 60.00 |
| September | ... | 4.30 | 5.30 | 3.60 | 9.00 | 3.10 | 4.00 | 6.40 | 4.50 | 1.40 | 3.70 | 45.30 |
| October | ... | 1.80 | 5.80 | 2.20 | 10.50 | 3.40 | 4.00 | 6.10 | 4.40 | 3.70 | 6.80 | 48.70 |
| November | ... | (9.30) | 4.00 | 7.00 | 7.50 | 2.30 | 2.00 | 2.40 | 1.40 | 6.00 | 7.00 | 48.90 |
| December | ... | 10.30 | 4.50 | 3.00 | 7.50 | 9.50 | 6.20 | 5.20 | 4.10 | 8.10 | 5.50 | 63.90 |
| TOTALS | ... | 62.40 | 52.80 | 46.60 | 71.20 | 42.60 | 49.60 | 57.40 | 53.20 | 42.60 | 57.20 | 535.60 |
| | | M | M | M | | | | | M | M | np | |

1955 Feb. Mar. app. M.O. 3b.

1956 Apr. Oct. app. M.O. 3

1958 Feb-Mar app. M.O. 3b.

1960

ap. 1955

0002460004

30004

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NY(35)850215

| 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 - Rejected

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|-------------------|---------|------------|---------|---------|---------|
| C 1908 | ✓ | ✓ | ✓ | ✓ | |
| | - | ✓ 12-20-22 | | | |