

3043

Bowland Forest
RAINFALL at High Salter

10

The Lune Board of Conservators

County of N Lancashire

Observer G. T. Sanderson

River Basin Lune &

Upper Bradford Rain Gauge, by Hicks 3026.

Read on afternoon of last day of month

| Diameter ... | | | 5 | | | | | | | | |
|--------------|------|------|------|-------|-------|--------|--------|--------|-------|-------|--------|
| Height | | | 10 | | | | | | | | |
| Altitude ... | | | 1014 | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | | | | 4.94 | 3.85 | 6.20 | 3.62 | 2.18 | 3.40 | 4.50 | |
| February ... | | | | 1.94 | 3.90 | 6.62 | 3.75 | .88 | 4.31 | 2.10 | |
| March | | | | 5.25 | 5.98 | 1.82 | 1.90 | 3.24 | 2.25 | 6.35 | |
| April | | | | 5.12 | 1.50 | 2.80 | 3.51 | 1.36 | 1.23 | 3.27 | |
| May | | | | 2.92 | 2.94 | 1.75 | 2.87 | 2.02 | 1.81 | 2.45 | |
| June | | | | 2.80 | 2.17 | .61 | 2.78 | 2.66 | 2.31 | 1.70 | |
| July | | | | 1.29 | 3.55 | 4.43 | 3.12 | 1.76 | 5.19 | 1.78 | |
| August..... | | | | 2.48 | 2.60 | 4.76 | 4.30 | 8.58 | 3.45 | 5.10 | |
| September .. | | | | 3.36 | 3.34 | 1.36 | 2.88 | 4.31 | 10.12 | 2.48 | |
| October ... | | | | 2.45 | 1.96 | 1.22 | 9.52 | 6.21 | 4.66 | 1.98 | |
| November.. | | | | 4.33 | 5.61 | 4.66 | 1.82 | 3.66 | 3.88 | 1.45 | 2.20 |
| December... | | | | 4.23 | 3.40 | 6.22 | 6.77 | 3.31 | 1.91 | 7.43 | 6.60 |
| TOTALS ... | | | | 41.56 | 42.67 | 40.163 | 45.227 | 38.963 | 47.66 | 40.41 | |

No explanation can be found of the smallness of the records by this of (Bolton, 1910)

N.B. Rejected from Survey as 8° too low.

+ 23.VI.15 H.R.M. within iron fence 6 ft. sq. 3 ft. 6 in high with fine wire netting round it on wide flat expanse gently sloping down to W. Excellent foot? - glass round g. rather long. Receiver contained $\frac{1}{2}$ " water about $\frac{1}{2}$ " in outer can (condensation).

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|--------|------------------|-----------|------------|---------|-----------|------------|
| 54.3 | 2.35 | Hornby | | 4 m | | | | |

RAINFALL at Bowland Forest, High Salter

County of N. Lancashire
River Basin Lune 4.

Observer J. T. Sanderson
S. Taylor

Rain Gauge, by _____

| Diameter ... | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | MEANS. |
|--------------|------|------|------|------|------|------|------|------|------|------|--------|
| Height | | | | | | | | | | | |
| Altitude ... | | | | | | | | | | | |
| January ... | | | | | | | | | | | |
| February ... | | | | | | | | | | | |
| March | | | | | | | | | | | |
| April..... | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| July | | | 3.54 | | | | | | | | |
| August | | | 7.17 | | | | | | | | |
| September... | | | 5.24 | | | | | | | | |
| October..... | | | 1.31 | | | | | | | | |
| November... | | | 3.32 | | | | | | | | |
| December... | | | 6.25 | | | | | | | | |
| TOTALS... | | | | | | | | | | | |

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

RAINFALL at Bowland Forest - Higher Salter

County of N. Lancashire

Observer J. T. Sanderson Esq.

G Taylor

River Basin June 4

June Board of Conservators

Copper Bradford Rain Gauge, by Hockles 3026

| Diameter ... | 57 | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----------------|
| Height | 10 | | | | | | | | | | |
| Altitude ... | 1014 | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 |
| January ... | 3.41 | 3.25 | 3.80 | 6.30 | 3.24 | 3.24 | 6.83 | 4.46 | 10.70 | 2.14 | 9.18 |
| February ... | 2.73 | 5.6 | 6.24 | 6.53 | 1.40 | 6.90 | 6.30 | 3.19 | 6.93 | 6.4 | 4.49 |
| March | 4.10 | 5.26 | 2.86 | 1.64 | 1.23 | 1.69 | 2.30 | 4.54 | 4.20 | (1.23) | 3.51 |
| April | 5.26 | 1.99 | 2.52 | 4.10 | 2.28 | 2.87 | 2.85 | 4.18 | 1.69 | 1.70 | 2.07 |
| May | 6.15 | 3.30 | 1.68 | 5.35 | 6.12 | 4.89 | 3.97 | 1.71 | .70 | 3.25 | 1.92 |
| June | 2.60 | 5.0 | 3.76 | 1.90 | 3.15 | 3.4 | 3.93 | 4.69 | 11.10 | 1.98 | 2.46 |
| July | 6.25 | 2.75 | 3.52 | 5.90 | 4.69 | 3.49 | 5.29 | 4.21 | 6.77 | (4.13) | 5.30 |
| August | 2.78 | 5.62 | 7.28 | 5.68 | 6.16 | 5.52 | 4.26 | 8.49 | 8.60 | 8.40 | 8.10 |
| September... | 2.44 | 3.15 | 5.15 | 5.22 | 3.58 | 3.86 | 4.58 | 7.32 | 2.25 | 3.49 | 3.11 |
| October..... | 1.56 | 3.29 | 1.90 | 8.23 | 5.24 | 6.12 | 9.26 | 5.18 | 7.08 | 9.72 | 8.71 |
| November... | 2.30 | 2.54 | 3.26 | 7.11 | 3.64 | 2.43 | 9.62 | 6.23 | 9.93 | 10.44 | 6.75 |
| December... | 3.86 | 8.96 | 6.90 | 4.13 | 10.26 | 3.92 | 1.46 | 1.71 | 3.74 | 12.03 | 6.25 |
| TOTALS... | 43.44 | 46.17 | 46.93 | 62.09 | 50.99 | 45.27 | 60.65 | 55.91 | 73.69 | (39.51) | 57.85 |

1924 N.P. short throughout. - gauge overexposed

1925. not printed, low.

1927 10 ms. low. (missed?)

1928. Snapshot by Mr. Corlett see green file

N.B. Rejected from Survey as 8° too Low.

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

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction from gauge | Parish Church. | Distance Direction from gauge |
|-------|---------|--------|------------------|-------------------------------|----------------|-------------------------------|
| 1920 | 54° 3' | 2° 36' | | | | |

RAINFALL at Bowland Forest (High Salter).

County of North Lancashire.

Observer J. T. Sanderson, Esq.

River Basin Lune - 4.

Vernon P. Royle, Esq. (1939)

Type of Gauge.

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

664608/26.

| Diameter | 5. | | | | | | | | | | | |
|-----------|--------|--------------|-------|-------|-------|-------|-------|-------|---------|---------|-------|--|
| Height | 1.0. | | | | | | | | | | | |
| Altitude | 1014 | after July 3 | 974 | | | | | | 1014 | | 1014 | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | |
| January | 6.51 | 6.34 | 4.98 | 7.81 | 11.98 | 7.24 | 5.72 | 9.48 | 6.05 | (3.50) | | |
| February | 4.43 | 1.14 | 4.97 | 3.4 | 8.92 | 3.26 | 10.50 | 2.51 | 5.12 | (3.10) | | |
| March | .81 | 3.41 | 4.80 | 3.48 | 1.82 | 3.11 | 2.67 | 2.00 | 3.22 | 7.61 | | |
| April | 3.47 | 3.69 | 2.81 | 3.52 | 4.50 | 1.18 | 4.31 | .85 | 2.63 | 4.35 | | |
| May | 2.69 | 5.15 | 2.44 | 6.02 | 1.01 | 1.84 | 2.76 | 5.08 | 1.22 | 1.60 | | |
| June | 6.17 | 1.59 | 2.32 | 3.74 | 6.66 | 3.56 | 3.82 | 6.21 | (3.98) | 4.43 | | |
| July | 6.89 | 6.22 | 5.83 | 3.50 | 2.94 | 5.59 | 2.68 | 5.05 | (6.67) | 3.10 | | |
| August | (2.86) | 6.12 | 2.93 | 6.89 | 3.01 | 3.55 | 2.91 | 5.57 | (2.64) | 3.60 | | |
| September | (2.85) | 7.26 | 1.99 | 5.70 | 10.68 | 4.37 | 3.62 | 2.86 | 2.37 | 6.83 | | |
| October | 3.28 | 8.40 | 5.71 | 8.81 | 9.58 | 6.37 | 2.51 | 12.41 | (3.67) | 8.53 | | |
| November | (7.14) | 4.60 | 2.82 | 1.93 | 6.70 | 8.11 | 1.96 | 6.99 | (4.82) | 8.75 | | |
| December | (2.80) | 4.36 | .76 | 9.09 | 4.05 | 8.50 | 3.21 | 6.62 | 5.82 | 7.43 | | |
| TOTALS | 49.40 | 57.28 | 42.36 | 60.83 | 64.80 | 56.68 | 42.68 | 65.63 | (52.28) | (58.89) | | |

1931. Low N.P. Bracketed months allocated. *Effect from January as 5" too low.*

1932. Low N.P. gauge moved July 30, 1932, S.E. afterwards

1933. Record OK.

1940. Jan. & Feb. wtd.

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

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

Station No. 3043

RAINFALL at Bowland Forest (High Salter)

41

County of North Lancashire Observer Jameson P. Royle Esq.
 River Basin Lune - The Lune Board of Conservators (n.s.)
 Type of Gauge.....

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

File No. 664608/26

| Diameter | 5' | | 583 | 230 | | | | | | | |
|-----------|---------|--------|-------|-------|-------|-------|---------|---------|---------|--------|-------|
| Height | 1' 0" | | | | 1 | | | | | | |
| Altitude | 1014' | | | | 41 | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | 2.48 | (5.76) | 9.76 | 10.60 | 6.29 | 8.25 | 4.80 | (10.90) | 5.50 | 4.50 | |
| February | (6.22) | (2.00) | 5.30 | 3.25 | 6.74 | 6.25 | (1.20) | 3.50 | (4.50) | (5.00) | |
| March | 4.29 | (3.00) | 2.62 | 1.80 | 4.78 | 2.85 | (8.00) | (4.80) | (2.80) | (3.00) | |
| April | 1.46 | 3.23 | 4.43 | 3.34 | 1.50? | 2.95 | (5.30) | 3.25 | 6.45 | 4.25 | |
| May | 4.48 | 6.41 | 5.74 | 3.94 | 6.32? | | (4.30) | 2.80 | 2.95 | 1.50 | |
| June | .71 | 1.43 | 3.83 | 6.59 | 5.25 | | 3.40 | 6.25 | (1.60) | 4.75 | |
| July | 2.92 | 8.11 | 7.15 | 3.20 | 3.95 | | (5.25) | 4.60 | 4.50 | 5.20 | |
| August | 8.52 | 8.27 | 9.50 | 7.36 | 2.92 | | .00 | 6.80 | 4.00 | 9.10 | |
| September | 1.62 | 8.50 | 7.16 | 7.30 | 6.90? | 10.00 | 6.30 | 7.60 | 3.03 | 9.50 | |
| October | (6.26) | 8.10 | 6.40 | 9.74 | 9.00? | .80 | 1.00 | 4.75 | 8.02 | 5.50 | |
| November | 4.78 | 2.11 | 5.73 | 12.44 | 2.92? | 9.80 | (1.00) | 5.40 | 8.50 | 5.15 | |
| December | 5.35 | 6.26 | 4.10 | 6.42 | 6.12? | 6.20 | (3.50) | (6.25) | 9.15 | 1.90 | |
| TOTALS | (50.89) | 63.24 | 71.72 | 75.98 | 62.69 | nic | (50.05) | (66.90) | (60.50) | 59.45 | |

1941, Feb. cont'd. for snow. April, Sept 90 ft adjusted from maps.

1942 Jan & Feb. affected, March adjusted

1943 n.p. about 15 ins. high.

1944 n.p. high

1945 n.p. unreliable

1947 n.p. 100 mm estimation

1948. Jan March Dec. part at. more. n.p. erratic. Monthly
Data erratic May - Aug.

1949. Overhaul & repairs to gauge carried out. see enc. 95A in file.

2004470004

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 | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1950 | | | Narley | 3m. | w | Wray | 200 yds | s.e. |

Station No. 3043

TF78

RAINFALL at Bowland Forest (High Salter)County of N. Lancashire

Observer

The Lancashire County Board of ConservatioRiver Basin. LaneLANCASHIRE RIVER BOARD (1952)

Type of Gauge.

Annual Average..... in. based on..... years obs. un-weighted. Period of average.....
 " " 61.75 " " 5 " 1953-57. 1916-50.5 E 10300 Ref. 114.5
 File No. 664608/26

| Diameter | 583 | 230 | 5" | | | | | | | | |
|-----------|------|------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | | 1 | 1' 0" | | | | | | | | |
| Altitude | | 51 | to 114' | | | | | | | | |
| Year | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January | | | | 3.25 | 6.50 | 4.50 | 4.55 | 7.90 | 6.15 | 3.75 | 6.62 |
| February | | | | 2.75 | 6.10 | 3.00 | 1.05 | 5.65 | 8.65 | 1.55 | 4.45 |
| March | | 4.70 | 1.70 | 4.50 | 2.45 | 1.45 | 5.35 | 1.75 | 2.30 | 1.55 | |
| April | | 4.50 | 3.90 | 2.50 | 1.90 | 2.40 | 1.00 | 2.15 | 4.40 | 4.55 | |
| May | | 4.00 | 2.25 | 3.50 | 5.65 | 3.35 | 3.65 | 8.05 | 1.90 | 2.45 | |
| June | | 5.80 | 2.25 | 5.50 | 4.25 | 3.35 | 2.05 | 5.05 | 3.30 | 2.50 | |
| July | | 3.10 | 7.25 | 9.00 | 2.50 | 5.05 | 7.10 | 5.05 | 4.65 | 10.20 | |
| August | | 8.70 | 6.55 | 7.25 | .75 | 11.05 | 6.40 | 6.80 | .77 | 5.65 | |
| September | | 6.20 | 9.25 | 9.00 | 4.65 | 4.25 | 7.65 | 6.80 | .50 | 4.20 | |
| October | | 6.50 | 2.70 | 14.25 | 3.95 | 4.25 | 8.70 | 6.00 | 5.30 | 5.45 | |
| November | | 2.50 | 6.70 | 10.25 | 3.75 | 1.95 | 2.10 | 2.15 | 6.65 | 9.85 | |
| December | | 6.10 | 3.30 | 10.75 | 7.95 | 7.30 | 6.75 | 5.55 | 11.40 | 6.78 | |
| TOTALS | NR. | inc | 51.85 | 89.10 | 45.20 | 53.00 | 64.30 | 64.15 | 46.47 | 64.25 | |
| | np | M | M | | | | | | | | |

Take TPS 4152
1953 Point.

See below

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference SD(34) 617622

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge. |
|-------|---------|----------|------------------|----------------------------|----------------|----------------------|
| 1926 | 54° 3' | 2° 35' W | Gives | 1.9 R of file E 10300, 653 | SD 617617 | |

Letter from Lancashire R.C. dated 21.10.53 which fits Ad of 1014. 100W

encl. 9A. gives

Summary of Earlier Records from 10-year Sheets : 6/72.

| | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|-------------|-----------------|----------------|---------------------------------|---------|
| Record D, or d | Cimp 1912 - | ✓ n.p. 24.25 27 | ✓ n.p. 31.32 - | 41-43 47-50 n.p. 43-45 47-49 | |