

RAINFALL AT Preston NWJ. AmyteyAlston

Rain { By.....

Gauge Diameter, 8 in. Height above Ground, 1 ft. 2 in. Above Mean Sea Level, 320 ft.

| YEAR..... | 1866 | 1867 | 1868 | 1869 | MEANS |
|-----------------|-------|-------|-------|-------|-------|
| January | 5.02 | 4.97 | 3.78 | 4.26 | |
| February | 4.23 | 3.20 | 2.98 | 5.97 | |
| March | 2.10 | 1.14 | 5.15 | 1.36 | |
| April | .89 | 4.80 | 2.03 | 2.28 | |
| May | 1.70 | 2.10 | 1.76 | 3.96 | |
| June | 4.35 | .93 | 1.11 | 2.46 | |
| July | 5.25 | 4.24 | .62 | 2.26 | |
| August | 5.20 | 2.10 | 5.50 | 5.71 | |
| September | 8.98 | 3.40 | 2.25 | 8.36 | |
| October | 2.73 | 5.85 | 6.05 | 3.75 | |
| November | 7.60 | 2.39 | 3.80 | 5.10 | |
| December | 5.60 | 4.10 | 7.84 | 4.56 | |
| TOTALS | 53.65 | 39.30 | 42.87 | 50.03 | |

C C C C

RAINFALL AT *Allton*

80

Lat.

Lat.

County of

Lancashire

Rain Gauge, by

Observer H. Peal, Esq.

Ribble & Co.

| Diameter | 8 | | | | | | | | | | |
|-----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1.2 | | | | | | | | | | |
| Altitude | 320 ft | | | | | | | | | | |
| Year | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
| January | 6.3 | 6.7 | 3.78 | 5.10 | 6.16 | 2.96 | 6.40 | 2.80 | 1.80 | 2.20 | 3.270 |
| February | 2.66 | 6.26 | 3.20 | 3.60 | 3.10 | 4.20 | 1.15 | 2.30 | 1.13 | 2.50 | 3.010 |
| March | 2.40 | 4.69 | 4.65 | 2.40 | 6.16 | 3.92 | 3.05 | 2.70 | 3.30 | 2.25 | 3.552 |
| April | 1.16 | 2.10 | 5.04 | 1.93 | 1.94 | 1.60 | 2.75 | 1.70 | 2.00 | 2.60 | 2.182 |
| May | 2.12 | 4.65 | 2.80 | 1.93 | 1.90 | 1.65 | 4.96 | 2.05 | .88 | 2.90 | 2.584 |
| June | 5.34 | 2.70 | 5.40 | 3.87 | 1.94 | 3.49 | 1.70 | 1.40 | 2.50 | .00 | 2.634 |
| July | 5.94 | 7.29 | 8.18 | 2.70 | 6.10 | 2.25 | 3.93 | 1.75 | 6.45 | 2.25 | 4.684 |
| August | 1.95 | 6.54 | 5.50 | 3.05 | 2.75 | 1.86 | 1.35 | 1.86 | 4.90 | 4.20 | 3.396 |
| September | 2.40 | 2.64 | 3.04 | 5.66 | 3.30 | 4.52 | 4.96 | 4.15 | 1.80 | 4.30 | 3.667 |
| October | 3.10 | 2.92 | 3.79 | 6.20 | 3.49 | 4.85 | 4.66 | 2.10 | 1.35 | 3.50 | 3.586 |
| November | 6.27 | 5.74 | 6.73 | 4.80 | 1.32 | 3.26 | 3.55 | 2.20 | 4.15 | 1.85 | 3.987 |
| December | 7.27 | 4.72 | 3.64 | 3.64 | 5.84 | 2.40 | 4.65 | 3.36 | 2.45 | 3.90 | 4.157 |
| TOTALS | 44.16 | 51.12 | 55.75 | 44.78 | 41.80 | 36.96 | 43.01 | 27.37 | 32.71 | 32.45 | 40.709 |

RAINFALL AT Alston

Lat.

Long.

County of

Lancashire

Rain Gauge, by

Observer

H. Read EsqRibble & Co.J. Cookson Esq

| | | | | | | | | | | | |
|-----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter | 8 | | | | | | | | | | |
| Height | 1 2 | | | | | | | | | | |
| Altitude | 320 ft | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January | 4.33 | 2.40 | 3.90 | 1.60 | 3.80 | 2.45 | 2.65 | 1.21 | 4.53 | 5.25 | 3.212 |
| February | 1.20 | .90 | 3.45 | 3.40 | 5.60 | .55 | 2.70 | 4.28 | 3.30 | 2.15 | 2.453 |
| March | 3.55 | 1.45 | .95 | 3.90 | 3.80 | 1.40 | 6.00 | 4.94 | 1.82 | 3.25 | 3.056 |
| April | 1.50 | 1.85 | 2.10 | .47 | 3.00 | 2.40 | 2.73 | 2.75 | 2.27 | 4.12 | 2.519 |
| May | .77 | 1.65 | 3.40 | 1.85 | 2.10 | .70 | 2.3 | 3.30 | 2.90 | 2.82 | 1.972 |
| June | 3.30 | 1.85 | 3.50 | 1.80 | 3.70 | 2.95 | 2.40 | 3.60 | 2.21 | 2.48 | 2.779 |
| July | 3.40 | 3.30 | 1.10 | 4.45 | 3.50 | 3.05 | 2.59 | 1.77 | 1.20 | 1.97 | 2.683 |
| August | 6.40 | 8.30 | 4.55 | 5.70 | 8.20 | 4.85 | 3.90 | 5.50 | 6.93 | 2.18 | 5.651 |
| September | 5.15 | 3.75 | 4.50 | 6.45 | .75 | 3.45 | 6.30 | 4.40 | 1.27 | 7.28 | 4.330 |
| October | 3.55 | 3.10 | 5.10 | 6.50 | 3.40 | 5.13 | 4.17 | 2.90 | 3.80 | 2.86 | 4.051 |
| November | 5.70 | 4.70 | 5.20 | 3.15 | 3.55 | 4.10 | 1.66 | 4.93 | 4.59 | 2.95 | 4.053 |
| December | .95 | 6.10 | .95 | 4.60 | 4.25 | 4.30 | 5.26 | 4.32 | 5.95 | 3.61 | 4.019 |
| TOTALS | 39.80 | 39.35 | 38.70 | 43.77 | 45.15 | 35.33 | 40.59 | 43.90 | 40.77 | 40.92 | 40.828 |

1870

RAINFALL AT Alston
 Lat. Lon. County of Lancashire South
 Rain Gauge, by Observer T. G. Johnson Esq.

Ribble 1.

| Diameter .. | 8 | | | | | | | | | |
|---------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 0.4 | | 1.2 | | | | | | | |
| Altitude .. | 320 ft | | | | | | | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | MEANS. |
| January .. | 4.45 | 2.46 | 3.55 | 4.09 | 2.63 | 2.72 | 5.35 | 2.10 | 4.36 | 2.43 |
| February .. | 3.10 | 1.97 | 1.63 | 4.00 | 4.15 | 2.15 | 3.76 | 2.95 | 3.52 | 2.27 |
| March | .77 | 3.35 | 2.74 | 3.89 | 2.27 | 3.40 | 4.06 | 4.52 | 3.20 | 3.13 |
| April | 2.63 | 2.00 | 1.79 | 2.57 | 2.60 | 2.60 | 1.97 | 1.62 | 2.50 | 2.80 |
| May | 1.65 | .77 | 3.28 | 3.17 | 2.90 | .80 | 4.72 | 3.73 | 2.54 | 2.32 |
| June | 2.70 | 1.96 | 1.30 | 2.40 | 1.70 | 2.65 | 1.70 | 2.50 | 2.80 | 2.60 |
| July | 2.29 | 1.31 | 3.10 | 3.83 | 1.32 | 2.94 | 2.36 | 2.95 | 5.20 | 6.40 |
| August | 5.38 | 2.50 | 3.26 | 5.30 | 3.80 | 4.48 | 5.15 | 6.10 | 4.15 | 3.76 |
| September .. | 2.89 | 1.40 | 1.35 | 5.21 | 1.52 | 4.11 | 1.37 | 1.30 | 4.56 | 3.55 |
| October | 6.75 | 3.98 | 4.08 | 6.90 | 3.33 | 4.30 | 6.57 | 3.30 | 2.58 | 5.57 |
| November .. | 3.75 | 6.38 | 1.70 | 3.00 | 4.40 | 4.10 | 4.45 | 4.00 | 4.20 | 2.35 |
| December .. | 4.55 | 4.70 | 3.55 | 2.64 | 2.75 | .99 | 4.47 | 5.60 | 3.20 | 6.50 |
| TOTALS .. | 40.91 | 32.78 | 31.33 | 47.00 | 33.37 | 35.27 | 45.93 | 45.67 | 42.81 | 46.68 |
| | | | | | | | | | | 40.175 |

1909 Longridge church 1/4 mile N

Station 3/4 N

House 25 ft high 20 yards N

Husk

RAINFALL at Alton Reservoir

County of Central Lancashire
River Basin Ribble + C

Observer J. Cookson Esq. M.R.A.S.

Rain Gauge, by

| Diameter ... | 8 | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|------|--|
| Height | 1.2 | | | | | | | | | | | | |
| Altitude ... | 320 | | | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | M.EANS. | | |
| January ... | 5.40 | 1.35 | 3.27 | 5.90 | 3.90 | 5.10 | 2.90 | 2.30 | 2.75 | 4.80 | | 1275 | |
| February ... | 5.40 | 5.00 | 1.79 | 1.73 | 3.30 | 4.05 | 3.82 | 1.35 | 4.73 | 1.28 | | 1118 | |
| March | 1.11 | 1.93 | 6.77 | 5.50 | 4.20 | 2.20 | 2.08 | 1.87 | 1.65 | 5.10 | | 1060 | |
| April | 3.20 | 2.87 | 74 | 4.60 | 1.14 | 3.30 | 3.65 | 1.80 | 1.15 | 2.05 | | 865 | |
| May | 2.40 | 1.45 | 2.28 | 3.10 | 2.15 | 1.92 | 2.28 | 1.80 | 1.80 | 1.78 | | 763 | |
| June | 2.20 | 2.76 | 6.15 | 3.81 | 1.64 | 1.90 | 2.00 | 1.85 | 1.40 | 1.30 | | 655 | |
| July | 5.60 | 1.00 | 6.20 | 1.76 | 4.00 | 2.85 | 2.75 | 1.85 | 4.30 | 1.35 | | 1025 | |
| August | 5.90 | 3.58 | 7.65 | 2.30 | 3.54 | 5.80 | 5.10 | 5.20 | 6.05 | 4.45 | | 2080 | |
| September .. | 4.80 | 4.04 | 2.12 | 1.90 | 4.50 | .72 | 3.40 | 4.10 | 10.15 | 2.25 | | 1990 | |
| October ... | 4.28 | 3.80 | 4.42 | 2.50 | 2.23 | 1.25 | 8.65 | 8.30 | 4.00 | 2.85 | | 2380 | |
| November ... | 5.58 | 4.00 | 4.80 | 5.03 | 5.20 | 2.05 | 2.50 | 4.65 | 2.95 | 2.50 | | 1260 | |
| December ... | 3.55 | 6.20 | 4.18 | 3.25 | 5.90 | 7.35 | 3.40 | 2.18 | 10.10 | 5.62 | | 9130 | |
| TOTALS ... | 49.45 | 37.98 | 49.37 | 41.38 | 41.70 | 38.49 | 42.53 | 37.25 | 50.93 | 35.30 | | | |

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

RAINFALL at Alton Reservoir

County of C. Lancashire

Observer J. H. Smethurst Eng. E

River Basin Pebble &c.

126 East Franklin

(1950) M.O. Rain Gauge, by

E B Oakes SE (1925)

Avr 1881-1915 41.0

*Position of Station on reduced Ordnance Survey
Map, 2 miles to 1 inch Series*

No. of Man

References No.

| Date. | Lat. N. | Long. W. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge |
|-------|-------------|-----------|------------------|---------------------|----------------|---------------------|
| 1925. | 55° 49' 10" | 2° 36' 4" | Longridge | 4400 ft. S. | Longridge | 2100 ft. S.S.W. |

RAINFALL at Alston Reservoir

County of Central Lancashire

Observer E. C. Oakes, Esq., C.E.

River Basin Ribble & C - 1

Type of Gauge MO.

Annual Average, 41 Q.in. based on 35 years obs. un-weighted. Period of average 1921-1945 Ref Bagn
86201/31.

| Diameter | 8. | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1.2. | | | | | | | | | | |
| Altitude | 320. | | | | | | | 332 | 320 | 330 | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | 4.85 | 4.43 | 3.05 | 3.62 | 2.15 | 3.44 | 2.56 | 4.34 | 4.73 | 3.28 | |
| February | 4.87 | 0.7 | 3.60 | 2.2 | 5.55 | 1.90 | 5.37 | 1.62 | 3.25 | 1.94 | |
| March | 4.45 | 2.74 | 2.47 | 2.37 | 1.28 | 2.36 | 1.56 | 1.19 | 1.73 | 2.96 | |
| April | 3.24 | 2.90 | 1.66 | 2.18 | 3.15 | 1.37 | 2.56 | .51 | 2.01 | 2.75 | |
| May | 2.44 | 4.22 | 1.71 | 3.78 | 1.43 | 1.43 | 2.35 | 3.60 | .89 | 1.82 | |
| June | 7.13 | 1.25 | 1.91 | 2.32 | 3.20 | 4.46 | 2.74 | 4.08 | 3.01 | .87 | |
| July | 4.80 | 5.18 | 3.18 | 1.73 | 1.94 | 4.93 | 2.16 | 4.32 | 6.71 | 5.19 | |
| August | 5.88 | 1.80 | 2.91 | 5.09 | 1.82 | 3.09 | 2.73 | 4.63 | 2.89 | 2.26 | |
| September | 3.13 | 6.84 | 1.24 | 4.81 | 7.76 | 4.49 | 2.49 | 2.06 | 1.99 | 4.93 | |
| October | 2.90 | 6.87 | 4.97 | 6.17 | 7.85 | 3.84 | 1.94 | 8.14 | 1.97 | 3.84 | |
| November | 6.59 | 2.92 | 1.98 | 2.66 | 4.12 | 4.85 | 1.53 | 5.02 | 5.19 | 5.45 | |
| December | 2.81 | 2.15 | 7.9 | 5.85 | 3.74 | 5.19 | 1.61 | 5.00 | 2.97 | 4.18 | |
| TOTALS | 47.59 | 41.37 | 29.47 | 40.27 | 43.99 | 41.05 | 29.60 | 44.51 | 36.96 | 39.54 | 3943.5 |
| | D. | |

1937. See General Note been checked + corrected by Observer, note on 1940.

1940 Jan. adj. for snow.

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

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| 1931 | | | Longridge | 2640' | N | Longridge | 900' ENE |

Station No. 2972

41

RAINFALL at Alton Reservoir

County of Central Lancashire Observer E.C. Oakes Esq., C.E.

River Basin Ribble & C. - 1

Type of Gauge 70.5 Standard

Annual Average 11.0 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N

File No. 86201/31

| Diameter | 8" | | 575 | 752 | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1' 2" | | | | 1 | | | | | | |
| Altitude | 332' | | | | 41 | 330' | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | 1.22 | 3.33 | 4.94 | 4.85 | 3.07 | 4.35 | 2.95 | 7.40 | 2.49 | 3.35 | |
| February | 3.81 | 1.68 | 2.10 | 1.61 | 4.37 | 5.04 | .27 | 2.96 | 2.18 | 4.62 | |
| March | 3.10 | 2.33 | 1.05 | .84 | 1.87 | .82 | 5.36 | 2.39 | 2.12 | 2.05 | |
| April | 1.12 | 1.58 | 3.04 | 2.55 | 2.46 | 1.26 | 3.72 | 1.97 | 4.30 | 3.56 | |
| May | 3.10 | 3.23 | 2.61 | 3.01 | 3.42 | 1.20 | 2.67 | 1.57 | 2.61 | 1.46 | |
| June | .53 | 1.11 | 4.02 | 4.02 | 4.71 | 3.07 | 3.32 | 5.67 | 1.20 | 3.25 | |
| July | 2.42 | 4.40 | 3.94 | 3.76 | 2.21 | 5.41 | 3.15 | 2.74 | 3.88 | 4.16 | |
| August | 5.61 | 4.52 | 6.15 | 2.70 | 1.97 | 7.12 | .15 | 4.11 | 3.79 | 8.54 | |
| September | 1.08 | 3.32 | 4.91 | 6.03 | 2.38 | 6.66 | 4.97 | 4.02 | 2.39 | 6.74 | |
| October | 4.83 | 5.53 | 4.66 | 4.50 | 5.29 | .77 | .89 | 3.29 | 5.00 | 3.36 | |
| November | 2.27 | 1.11 | 3.59 | 6.66 | .22 | 5.57 | 5.45 | 3.20 | 4.39 | 6.01 | |
| December | 2.26 | 3.36 | 2.05 | 3.44 | 1.78 | 4.30 | 3.63 | 3.21 | 6.69 | 2.64 | |
| TOTALS | 31.35 | 36.10 | 43.06 | 43.97 | 33.75 | 45.57 | 36.53 | 42.53 | 41.04 | 49.74 | 40.364 |
| | D | D | n.p. | n.p. | n.p. | D | D | D | D | D | |

1942 n.p. low about 5 in.

1943 n.p. about 3 in low? corr. deduct account for low total

1944 n.p. low.

1945 n.p. low.

353.90

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 |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1941 | | | Zongridge | .5 m. | N. | Zongridge | .2 m. | E.N.E |

Longridge

1953

Station No. 2972

RAINFALL at (Alston Reservoir)

County of Central Lancashire

Observer

E.C. Oakley Esq. C.E.

River Basin. Ribble & L.

1953 authority for B.R. Parkhouse Waterfalls

Type of Gauge. Standard

Annual Average 41.0 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N
 " " 41.93 " " 32 " " within 1916-57. " " 1916-50
 File No. 86201/35

| Diameter ... | 8" | | 575 | 752 | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height ... | 1' 2" | | | | 1 | | | | | | |
| Altitude ... | 330' | | | | 51 | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January | 4.38 | 4.09 | 2.02 | 5.17 | 2.80 | 4.28 | 3.67 | 3.63 | 2.65 | 5.69 | |
| February | 2.90 | 1.36 | 1.33 | 2.68 | 1.50 | 66 | 2.73 | 6.99 | .69 | 2.62 | |
| March | 4.97 | 2.05 | 1.03 | 2.26 | 1.30 | 1.19 | 3.41 | 1.74 | 1.82 | 1.08 | |
| April | 2.69 | 3.26 | 3.04 | 1.49 | 2.56 | 2.02 | .60 | 1.65 | 2.83 | 2.59 | |
| May | 2.01 | 2.37 | 2.41 | 2.55 | 3.21 | 1.88 | 1.85 | 5.49 | 1.62 | 2.31 | |
| June | 1.75 | 4.20 | 1.62 | 4.27 | 3.48 | 3.05 | 1.87 | 4.33 | 3.78 | 1.18 | |
| July | 2.92 | 2.43 | 6.22 | 6.83 | 1.09 | 4.59 | 5.19 | 3.99 | 3.79 | 6.70 | |
| August | 4.33 | 6.62 | 4.91 | 7.21 | 1.05 | 13.57 | 4.99 | 4.38 | .80 | 5.51 | |
| September | 2.86 | 3.75 | 4.67 | 6.26 | 3.62 | 4.45 | 7.89 | 5.39 | .51 | 3.69 | |
| October | 1.47 | 2.94 | 1.63 | 8.70 | 3.00 | 3.15 | 6.45 | 4.10 | 4.75 | 2.76 | |
| November | 8.35 | 2.25 | 4.97 | 6.20 | 1.77 | 1.88 | 1.46 | 2.27 | 5.51 | 8.44 | |
| December | 9.67 | 4.25 | 2.22 | 4.91 | 4.65 | 4.09 | 5.38 | 3.44 | 6.66 | 4.89 | |
| TOTALS ... | 48.20 | 39.57 | 36.07 | 58.53 | 30.03 | 44.81 | 45.49 | 47.40 | 35.41 | 47.46 | |
| | D | D | D | D | D | D | D | D | D | D | |

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference SD(34)604266

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|----------------|---------------------|
| 1951 | | | Longridge | 5 m. N. | Longridge | 5 m E.N.E. |

Summary of Earlier Records from 10-year Sheets :

| Record D, or d | | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|--|---------|--------------|---------|-----------------|---------|
| | | ✓ — | ✓ 329, 30 | ✓ ✓ | ✓ Dai, 46-56 | |