

RAINFALL at Leek, Withens, Upper Hulme

County of Staffordshire Observer W. E. Beacham
 River Basin Trent - Dove, S. W. E. Beacham, C.E.
 Rain Gauge, by Water Engineer, Leek.
 Boreford

| Diameter ... | | | | | 5 | | | | | | | |
|----------------|------|------|------|------|-------|-------|---------|-------|-------|-------|-------|------|
| Height | | | | | 1.6 | | 1.1 | | | | | |
| Altitude | | | | | 1085' | | 1084.34 | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | | |
| January ... | | | | | | 3.10 | 3.68 | 3.87 | 6.81 | 2.71 | 4.35 | |
| February ... | | | | | | 4.85 | 3.45 | 2.66 | 3.44 | 7.6 | .61 | |
| March | | | | | | 1.35 | 1.75 | 4.53 | 2.18 | .65 | 2.56 | |
| April..... | | | | | | 3.27 | 1.76 | 3.82 | 1.40 | 1.17 | 3.25 | |
| May | | | | | | 6.12 | 4.78 | 1.93 | 1.00 | 1.97 | 2.11 | |
| June | | | | | | .19 | 3.14 | 7.16 | 4.75 | 2.85 | 2.75 | |
| July | | | | | | 2.49 | 3.50 | 5.40 | 2.27 | 4.30 | 7.42 | |
| August | | | | | | 3.78 | 3.59 | 5.07 | 5.57 | 5.02 | 4.85 | |
| September... | | | | | | 5.75 | 3.07 | 5.79 | 0.86 | 2.04 | 4.85 | |
| October..... | | | | | | 5.67 | 3.39 | 3.27 | 5.26 | 5.41 | 6.44 | |
| November... | | | | | | 2.90 | 5.33 | 4.40 | 6.26 | 7.90 | 4.39 | |
| December... | | | | | | 2.95 | 2.86 | 2.23 | 2.32 | 2.99 | 6.75 | 4.02 |
| TOTALS... | | | | | | 42.83 | 39.67 | 50.22 | 42.79 | 41.53 | 47.60 | |

1925. Iron fence 5' high around gauge 9" dia. / 661437/26
 Hedge 10' .. 21 yds. N.W.

25/IX/25 Inspected by R. Glampiote see green file.

| 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 |
| 1925 | 53° 9' 15" | 1° 58' 48" | Leek L.M.S.R. | 42 m. | SW | Meerbrook | 12 m. | SW. |

RAINFALL at Leek (Withens, Upper Hulme)

County of Staffordshire

Observer W.E. Becham Esq., C.E.

River Basin Trent Dovc F.

(1927) J.A. Gilchrist, Esq., -

Type of Gauge Bradford N.W.

Annual Average 39.0 in. based on 20 years obs. $\frac{1}{4}$ -weighted. Period of average..... Ref.....

661437/26.

| Diameter | 5 | | | | | | | | | | | |
|-----------|-------|-------|---------|---------|--------|-------|---------|-------|-------|---------|----------------|--|
| Height | 1 | 1 | | | | | | | | | | |
| Altitude | 1084 | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means Total | |
| January | 5.43 | 3.40 | 1.90 | 3.08 | 2.54 | 2.40 | 3.93 | 4.51 | 4.32 | (2.00) | 335.1 | |
| February | 4.87 | 3.32 | 3.41 | 1.45 | 4.28 | 1.90 | 5.20 | 1.74 | 2.17 | (2.40) | 267.4 | |
| March | 2.20 | 2.86 | 3.67 | 2.65 | 1.31 | 2.00 | 2.15 | 1.14 | 2.57 | (2.30) | 205.5 | |
| April | 5.65 | 3.55 | 1.17 | 2.55 | 3.52 | 1.40 | 4.28 | 3.36 | 2.18 | (2.50) | 271.6 | |
| May | 3.84 | 4.15 | 1.80 | 1.86 | 1.64 | 1.65 | 2.49 | 2.65 | 1.73 | 1.67 | 214.8 | |
| June | 6.43 | 1.01 | (4.00) | 1.96 | 5.63 | 3.29 | 1.49 | 2.92 | 2.31 | 1.47 | 305.1 | |
| July | 4.44 | 4.38 | (3.50) | 2.28 | 2.18 | 6.93 | 3.35 | 4.10 | 6.22 | 6.17 | 435.5 | |
| August | 7.26 | 2.50 | .85 | 2.88 | 1.90 | 2.47 | 1.40 | 2.76 | 1.52 | 1.70 | 252.4 | |
| September | 4.90 | 3.43 | .87 | (3.00) | 5.30 | 6.30 | 1.02 | 2.81 | 1.24 | 3.20 | 320.9 | |
| October | 1.42 | 6.67 | 5.83 | 3.87 | 6.95 | 5.30 | 2.40 | 5.48 | 3.21 | 4.01 | 453.4 | |
| November | 5.68 | 3.26 | 2.12 | (2.00) | 5.58 | 4.85 | 1.60 | 3.93 | 6.37 | 7.73 | 429.9 | |
| December | 2.03 | 1.98 | 1.45 | 6.19 | 4.60 | 3.40 | 3.28 | 5.23 | 2.24 | 3.85 | 332.5 | |
| TOTALS | 52.15 | 37.21 | (29.57) | (32.77) | 444.35 | 40.89 | ? 32.59 | 37.83 | 36.10 | (39.00) | 382.41 | |

1931. W. 9 Yards 4' 6" high 10' dig surrounding.

1933 June & July estimated in B.R.O. by near station.

1935 * Corrected by observer see 661437/26 inc 22.

1940. Jan & Apr. estimated.

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 |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1931. | | | Leek Ltn. S. | 4½ m | S.W. | Munbrook | 1½ m | S.W. |

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

Station No. T.F. 2375

RAINFALL at Leek (Withens Upper Hulme) 1

41

County of Staffordshire Observer J. A. Gilchrist Esq., F.R.C.S.
 River Basin Trent - Dove - 5
 Type of Gauge Bradford M.O.

Annual Average 39.0 in. based on 20 years obs. $\frac{1}{2}$ h-weighted. Period of average 1881 - 1915 Ref P.B. 499.

File No. 661434/26

| Diameter | 5" | | | 102 | 771 | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|
| Height | 1' 1" | | | | 1 | | | | | | | |
| Altitude | 1084' | | | | 41 | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means | Total |
| January | 1.33 | 3.00 | 4.32 | 4.81 | 2.61 | 3.29 | 2.00 | 7.59 | 2.48 | 2.20 | 33.63 | |
| February | 3.62 | 2.12 | 2.41 | 2.57 | 3.78 | 6.39 | (1.25) | 1.86 | 1.22 | 4.82 | 30.23 | |
| March | 3.98 | 2.05 | 1.25 | .61 | 1.78 | 1.09 | 4.91 | 1.81 | 1.92 | 1.33 | 19.99 | |
| April | 2.63 | 1.41 | 1.49 | 2.81 | 1.91 | 1.59 | 2.55 | 1.62 | 3.04 | 4.12 | 22.97 | |
| May | 2.63 | 4.32 | 3.24 | 2.17 | 3.18 | 1.61 | 2.47 | 1.56 | 2.28 | 1.41 | 24.87 | |
| June | 1.00 | .95 | 3.41 | 3.22 | 3.90 | 3.35 | 1.43 | 6.62 | 1.32 | 2.04 | 26.24 | |
| July | 2.91 | 4.45 | 2.21 | 4.91 | .97 | 4.21 | 2.72 | 3.22 | 2.61 | 2.80 | 31.07 | |
| August | 6.41 | 2.41 | 4.54 | 2.78 | 2.43 | 5.31 | .61 | 5.48 | 3.23 | 4.25 | 37.45 | |
| September | .81 | 2.88 | 4.35 | 4.61 | 1.91 | 6.04 | 1.69 | 2.49 | 1.24 | 5.09 | 31.11 | |
| October | 6.17 | 5.35 | 2.65 | 5.26 | 6.02 | .71 | .61 | 2.87 | 4.19 | 2.02 | 34.85 | |
| November | 3.33 | .85 | 3.56 | 6.04 | .52 | 6.22 | 4.51 | 2.58 | 4.69 | 5.34 | 37.64 | |
| December | 2.11 | 3.79 | 2.36 | 2.11 | 3.59 | 4.05 | 4.56 | 3.18 | 4.41 | 2.64 | 32.80 | |
| TOTALS | 36.93 | 33.58 | 35.85 | 41.86 | 32.60 | 43.86 | 29.31 | 39.17 | 32.63 | 38.06 | 362.85 | |
| M | M | M | M | M | M | M | M | M | M | M | | |

1941. W. 1 fence 4' 6" high 6' diam. surrounded by gauge.

5-12-47 in gauge revised, in perfect order, now sheltered but open.
1947 Feb. set for snow.

20004

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 | | | Leek L.M.S. | 1 1/2 m. | S.W. | Meerbrook | 1 1/2 m. | S.W. |

Station No. 2375 TF 14

RAINFALL at Leek (Withens, Upper Holme)

County of Staffordshire Observer J.A. Gilchrist Esq.

River Basin Trent-Store -5

Type of Gauge... Bradford - Jr. O

Annual Average 39.0 in. based on 26 years obs. $\bar{y}h$ -weighted. Period of average 1881-1915 Ref. PB. 499

File No. 66-1437/26

| | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-----------------|--------|
| Diameter | 5" | | | 102 | 771 | | | | | | |
| Height | 1' 0" | | | | 1 | | | | | | |
| Altitude | 1084 | | | | 51 | | | | | | |
| Year | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | |
| | | | | | | | | | | Means Totals | |
| January | 3.53 | 3.34 | 2.04 | 2.95 | (2.93) | 5.10 | 2.35 | 3.35 | 2.83 | 5.46 | 33.88 |
| February | 3.35 | 1.63 | 1.52 | 2.63 | 1.72 | 1.10 | 2.41 | 6.87 | .74 | 2.00 | 23.97 |
| March | 5.42 | 2.63 | 2.15 | 2.05 | 2.48 | 1.92 | 3.92 | 1.70 | 2.50 | 1.58 | 26.65 |
| April | 3.49 | 3.63 | 2.95 | .75 | 2.23 | 2.08 | .30 | 1.53 | 3.25 | 1.78 | 21.99 |
| May | 2.02 | 2.48 | 2.38 | 2.93 | 4.06 | 1.06 | 1.45 | 3.84 | .91 | 1.96 | 23.03 |
| June | 2.21 | 3.58 | 3.30 | 4.33 | 2.92 | 2.98 | 2.33 | 6.25 | 1.73 | 2.18 | 31.81 |
| July | 2.32 | 3.44 | 5.53 | 6.46 | 1.13 | 4.79 | 5.25 | 5.28 | 2.63 | 5.20 | 42.03 |
| August | 6.64 | 2.22 | 3.88 | 5.94 | 1.02 | 10.23 | 5.85 | 3.16 | .57 | 5.08 | 44.59 |
| September | 2.52 | 3.63 | 2.78 | 4.72 | 2.95 | 3.46 | 8.14 | 6.00 | .18 | 4.59 | 38.97 |
| October | .82 | 4.06 | 1.95 | 6.75 | 3.35 | 2.75 | 3.27 | 4.12 | 2.86 | 6.75 | 36.68 |
| November | 9.25 | 2.71 | 2.14 | 6.24 | 2.25 | 1.72 | 2.16 | 1.74 | 4.45 | 5.35 | 37.01 |
| December | 4.53 | 3.22 | 1.82 | 4.87 | 3.56 | 3.93 | 3.60 | 3.74 | 6.03 | 4.25 | 39.55 |
| TOTALS | 46.10 | 36.57 | 32.04 | 49.92 | 30.64 | 41.12 | 41.03 | 47.58 | 28.68 | 46.18 | 400.16 |

1955 - Jan amended. Year slightly low.

Rejected

Annual Average 36.58 in based on 15 years data within 1962-57. 3½ in Low Period of average 1916-1950 S

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference SK(43) C4620

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge. | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|----------------------|-----------|
| 1956 | | | Heck | 5 miles | S. | Meerbrook | $\frac{13}{4}$ ml | S.W. |

Summary of Earlier Records from 10-year Sheets:

| | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|-------------------|---------|---------|---------|---------|---------|
| Record D, or d | | C1925 | / | / | - |