

RAINFALL AT Pantre Foelas, Voclás Hall

Lat. _____

Lon. _____

County of Denbigh

Snowdon Rain Gauge, by _____
Conway - 3. Observer Mr. J. Dickie

| Diameter ... | | | | | | | | | | | 5 |
|--------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Height | | | | | | | | | | | 1 3 |
| Altitude ... | | | | | | | | | | | 640 |
| Year ... | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January ... | | | | | | | | | | | 5.78 4.02 |
| February ... | | | | | | | | | | | 5.34 2.37 |
| March | | | | | | | | | | | 6.71 4.00 |
| April | | | | | | | | | | | 2.94 3.99 |
| May | | | | | | | | | | | 2.89 1.65 |
| June | | | | | | | | | | | 3.03 2.36 |
| July | | | | | | | | | | | 3.58 3.63 |
| August..... | | | | | | | | | | | 4.58 2.79 |
| September .. | | | | | | | | | | | 4.03 } 2 |
| October ... | | | | | | | | | | | .92 } 15.71 |
| November .. | | | | | | | | | | | 2.87 3.21 |
| December ... | | | | | | | | | | | 5.27 9.39 |
| TOTALS ... | | | | | | | | | | | 47.94 53.12 |

1908-9 recd. 3 XII 10. entd 24 VII 12

Bettws-y-coed Stn 52 m. W. N. W.

Pentrefoelas Ch. 12 m. E.

RAINFALL at Pentre Foellos Voesas Hall

County of Denbigh

Observer Mr T. Dickie

River Basin Conway 3

Snowdon Rain Gauge, by

| Diameter ... | 5 | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|
| Height | 1 3 | | | | | | | | | | |
| Altitude ... | 640ft | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | TOTALS. MEANS. 1916-19 |
| January ... | 7.34 | 2.62 | 4.23 | 5.74 | 6.29 | 8.61 | 7.61 | 3.90 | 6.63 | 6.11 | 24.25 |
| February ... | 7.90 | 6.36 | 4.01 | 3.33 | 6.23 | 8.90 | 7.21 | 3.30 | 6.65 | 5.84 | 16.40 |
| March | 2.71 | 2.50 | 8.23 | 9.14 | 7.04 | 1.07 | 2.65 | 2.87 | 2.67 | 7.96 | 16.15 |
| April | 5.13 | 4.10 | .53 | 6.85 | 1.47 | 2.90 | 4.01 | 3.52 | 1.81 | 3.59 | 12.93 |
| May | 3.27 | 2.01 | 1.41 | 2.60 | 3.24 | 2.27 | 4.29 | 2.44 | 3.34 | 1.03 | 11.70 |
| June..... | 3.42 | 4.39 | 5.50 | 4.87 | 3.28 | .85 | 2.51 | 3.14 | 1.57 | 2.17 | 9.39 |
| July | 4.80 | 1.35 | 5.29 | 1.69 | 5.21 | 5.57 | 2.98 | 1.73 | 4.65 | 3.38 | 11.74 |
| August..... | 4.69 | 4.98 | 6.92 | 2.71 | 5.16 | 3.01 | 4.33 | 9.12 | 2.18 | 4.51 | 20.14 |
| September .. | .37 | 5.09 | 1.69 | 3.91 | 2.81 | 2.04 | 3.80 | 2.84 | 12.54 | 5.11 | 24.20 |
| October ... | 5.54 | 5.81 | 6.46 | 5.75 | 2.57 | 2.23 | 13.42 | 10.45 | 5.92 | 4.61 | 34.10 |
| November ... | 7.26 | 7.48 | 6.59 | 6.75 | 6.99 | 5.11 | 5.21 | 5.81 | 2.90 | 5.00 | 18.42 |
| December ... | 8.84 | 9.10 | 9.79 | 4.77 | 12.99 | 10.78 | 4.02 | 2.25 | 7.94 | 7.84 | 22.05 |
| TOTALS ... | 61.27 | 55.79 | 60.65 | 58.11 | 63.28 | 53.34 | 62.04 | 47.87 | 58.80 | 53.15 | 574.50 221.86 ✓ |

1912 Hedges 2.6 hyd 7.0 5

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|-------------|---------------|-----------|------------|
| 1911 | 53.3 | 3.43 | Pentre-y-Goed | 5mi | S.W. W.N.W. | Pentre Voesas | 2mi | E N.E. |

RAINFALL at Pentre Ffodlas (Nellos Hall)

County of Derbyshire Observer H. L. Dickie - gnrRiver Basin Conway - S Capt. J. C. Wyrace Finchstation Rain Gauge, by _____

| Diameter ... | 5" | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------------|-------------------|--|
| Height | 1.3 | | | | | | | | | | | | |
| Altitude ... | 640 | | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | <u>1930</u> | TOTALS 1920-30 | |
| January ... | 9.18 | 9.56 | 7.17 | 4.59 | 4.77 | 6.48 | 7.73 | 6.32 | 11.41 | 1.60 | 11.39 | 80.50 | |
| February ... | 6.63 | 4.46 | 7.07 | 11.18 | 1.96 | 9.20 | 4.22 | 3.91 | 7.86 | 1.72 | .56 | 53.87 | |
| March | 7.77 | 6.50 | 5.61 | 2.85 | 1.50 | 2.29 | 2.14 | 5.61 | 3.65 | 1.12 | 3.39 | 12.43 | |
| April | 7.61 | 1.72 | 4.71 | 3.99 | 3.57 | 3.89 | (2.76) | 2.52 | 2.22 | 1.55 | 4.63 | 39.17 | |
| May | 5.66 | 2.70 | 1.51 | 4.66 | 7.19 | 5.61 | (4.12) | 2.53 | 1.80 | 3.68 | 2.24 | 41.70 | |
| June | 2.87 | .61 | 2.32 | 1.99 | 2.67 | 04 | 3.23 | 5.60 | 8.81 | 2.18 | 1.81 | 31.65 | |
| July | 7.53 | 2.83 | 5.06 | 3.04 | 5.11 | 1.76 | 5.85 | 2.33 | 2.60 | 3.77 | 5.76 | 45.64 | |
| August | 2.69 | 7.47 | 3.11 | 7.23 | 5.76 | 3.31 | 5.00 | 9.39 | 5.15 | 5.35 | 5.41 | 60.87 | |
| September... | 4.09 | 2.01 | 3.81 | 5.54 | 7.95 | 5.17 | 4.05 | 6.81 | 2.22 | 2.37 | 5.12 | 39.14 | |
| October..... | 2.72 | 3.44 | 1.65 | 11.01 | 6.65 | 6.64 | 5.82 | 7.98 | 9.20 | 8.52 | 9.58 | 73.16 | |
| November... | 3.45 | 4.68 | 3.26 | 9.28 | 3.19 | 2.88 | 8.53 | 6.80 | 12.27 | 11.30 | 7.98 | 73.56 | |
| December... | 4.93 | 7.81 | 10.18 | 5.30 | 8.29 | 7.74 | 1.31 | 1.77 | 4.53 | 14.04 | 8.70 | 74.60 | |
| TOTALS... | 66.13 | 29.79 | 55.46 | 70.63 | 57.61 | 55.08 | 52.76 | 61.57 | 71.52 | 57.20 | 66.52 | 666.77 | |
| | 0 | d | d | d | d | d | d | d | d | d | d | | |

1920. Hedge 1.6" 7.0" d.

B5

1924. Observers say "These are not quite reliable, gauge leaking slightly".

1926. HEDGE 1.6" Bright 7.5"
 -dor 4.4" " 27" W
 WALL 6.0" " 46" N
 -dor 6.6" " 31" E

1920. Gauge read 9.9 m.

1930. October corrected by reference to Fm 1000.

| 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 |
| 1920. | 53° 3' S | 3° 43' W | Betws-y-Coed | 5.2m. | N.W. | Pentre Ffodlas | 2m. | E. |

RAINFALL at Pentre Coedas (Wales Hall)

County of Denbigh.

Observer J.N. Dickie

River Basin 3 - Conway

Type of Gauge Smoother B.R.A.U.93b

Annual Average 5.2 in. based on years obs. un-weighted. Period of average Ref.

| Diameter | 5 | | | | | | | | | | | | | TOTALS MEANS 1931-40 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|----------------------------|
| Height | 1.3 | | | | | | | | | | | | | |
| Altitude | 660 | | | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | | | | |
| January | 6.41 | 9.54 | 6.40 | 6.56 | 2.40 | 8.47 | 6.27 | 10.08 | 10.14 | 2.90 | 69.17 | | | |
| February | 6.21 | 1.12 | 4.81 | 4.49 | 9.59 | 4.74 | 11.71 | 1.28 | 5.84 | 3.40 | 48.79 | | | |
| March | 1.44 | 4.37 | 3.05 | 3.57 | 1.41 | 4.06 | 3.47 | 2.60 | 4.33 | 3.79 | 32.09 | | | |
| April | 4.44 | 6.26 | 1.25 | 3.30 | 4.84 | 2.61 | 3.59 | .35 | 3.03 | 2.79 | 32.46 | | | |
| May | 4.06 | 4.88 | 1.68 | 4.49 | 1.54 | 3.04 | 1.64 | 3.99 | 1.79 | 2.36 | 29.47 | | | |
| June | 3.97 | 1.48 | 3.13 | 2.67 | 8.21 | 0.16 | 2.56 | 6.13 | 3.11 | 1.25 | 38.67 | | | |
| July | 4.28 | 6.04 | 3.16 | 1.79 | 1.08 | 6.51 | 1.96 | 5.61 | 9.11 | 2.98 | 42.52 | | | |
| August | 5.88 | 1.98 | 1.85 | 5.94 | 2.01 | 1.70 | .99 | 5.08 | 1.76 | 1.03 | 27.92 | | | |
| September | 4.36 | 5.38 | 1.23 | 4.61 | 9.64 | 3.95 | 2.44 | 1.40 | 1.01 | 5.68 | 41.70 | | | |
| October | 2.23 | 9.18 | 6.05 | 10.18 | 10.40 | 5.13 | 3.33 | 12.04 | 3.95 | 7.28 | 69.77 | | | |
| November | 10.96 | 4.66 | 2.14 | 1.88 | 7.16 | 7.71 | 2.21 | 8.02 | 11.90 | 11.10 | 67.74 | | | |
| December | 3.55 | 4.21 | 1.36 | 9.35 | 3.80 | 9.80 | 4.27 | 5.83 | 4.97 | 4.24 | 51.37 | | | |
| TOTALS | 57.79 | 58.10 | 36.80 | 54.83 | 62.08 | 65.88 | 44.44 | 63.01 | 60.94 | 48.80 | 55167 | KM | | |

1934. Hedge 1' 6" high 7' 0 S.

" 12 " 24' S.W.

Wall 10' " 19' E.

1940. Same point exact,

5

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1934 | | | Bettws-y-Cold | 5.2 m | N.W. | Pontrodeo | 2 m | E. |

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

Station No. 4321

RAINFALL at Pentre Voclao (Voclao Hall)

41

County of Derbyshire

Observer J. H. Dickie

River Basin 3 - Company

The Head Gardener

Type of Gauge B.A. Standard (sq.m.)

Col. J. C. Wynn Finch

Annual Average 53.2 in. based on 40 years obs. un-weighted. Period of average 1881-1915 Ref. P.R. 538

File No. E3540746

| Diameter | 5 | | | | 534 | 901 | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|----|
| Height | 1 | 6 | | | | | 1 | 1' 3" | | | | |
| Altitude | b40 | | | | | | 41 | 644 | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | TOTALS Means 1941-50 | |
| January | 2.68 | 6.71 | 8.82 | 9.32 | 5.28 | 11.47 | 6.76 | 12.85 | 4.53 | 3.27 | 71.69 | |
| February | 6.30 | 2.24 | 5.21 | 2.56 | 8.66 | 9.42 | 1.51 | 5.06 | 3.61 | 9.34 | 53.91 | |
| March | 4.02 | 3.77 | 1.74 | 1.16 | 2.08 | 2.16 | 8.68 | 4.38 | 2.18 | 3.20 | 33.37 | |
| April | 1.19 | 2.97 | 2.13 | 2.72 | 2.86 | 1.29 | 7.25 | 2.59 | 6.68 | 5.90 | 35.58 | |
| May | 2.83 | 5.92 | 7.10 | 2.49 | 5.98 | 2.20 | 4.34 | 1.83 | 3.51 | 1.48 | 37.68 | |
| June | 0.76 | 0.51 | 4.33 | 3.62 | 4.31 | 4.99 | 3.39 | 7.01 | 1.02 | 1.60 | 31.54 | |
| July | 1.35 | 4.05 | 3.78 | 2.80 | 2.20 | 2.92 | 3.11 | 3.15 | 1.71 | 3.93 | 29.00 | |
| August | 5.46 | 4.25 | 6.13 | 3.19 | 2.18 | 6.58 | 0.75 | 5.72 | 5.26 | 6.43 | 46.96 | |
| September | 1.62 | 4.58 | 6.43 | 6.89 | 4.10 | 7.55 | 3.48 | 4.64 | 1.58 | 10.67 | 51.34 | |
| October | 7.37 | 5.66 | 6.44 | 8.88 | 7.52 | 1.31 | 0.82 | 3.62 | 8.99 | 5.44 | 56.05 | |
| November | 3.12 | 1.09 | 3.46 | 12.17 | 0.81 | 8.27 | 9.47 | 4.71 | 7.42 | 5.61 | 56.13 | |
| December | 4.46 | 7.43 | 3.00 | 9.33 | 6.39 | 7.17 | 4.62 | 8.67 | 11.45 | 5.07 | 67.59 | |
| TOTALS | 41.16 | 49.18 | 58.57 | 65.13 | 52.37 | 65.33 | 54.18 | 64.23 | 57.74 | 61.94 | 569.93 | 10 |
| | D | D | D | D | D | D | D | D | D | D | | |

1941 Hedge 1'3" high 6'S.

1942 Temp. Screen 1'6" 1'N. Gauge moved 1'N 2'42.

1947 Tree 30' high 30° E. Trees 60° 30° E.

1944 Annual total corrected for drift.

123 98 123 102 121

av 532

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 |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1941 | | | Bettwsycoed | 5 m | N.W. | Voclao | 1 1/2 m | E. |
| 1947 | | | " | 5 1/2 m | N.W. | Pentre Voclao | 2 m. | E. |

Station No. 4324

RAINFALL at Pentre Vaelas (Vaelas Hall)

51

County of Denbighshire Observer Col. J.C. Wynne Finch.

River Basin 3 - Conway

Type of Gauge Standard BA

Annual Average 53.2 in. based on 40 years obs. unweighted. Period of average 1881-1915. Ref. P.B. 538

File No. E 35540/14/146

| Diameter | 5" | | | 534 | 901 | | | | 5" | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Height | 1' 3" | | | | | 1 | | | 10" | | |
| Altitude | 640' | 644' | | 644 | 51 | | | | 640' | | |
| Year | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means-Totals |
| January | 5.12 | 7.62 | 1.61 | 4.45 | 6.13 | 5.44 | 9.86 | 6.42 | 7.77 | 10.55 | 64.97 |
| February | 6.20 | 1.55 | 4.23 | 5.22 | 3.06 | 1.07 | 5.60 | 8.80 | 8.83 | 6.50 | 43.06 |
| March | 6.94 | 3.32 | 3.19 | 3.96 | 2.61 | 2.73 | 3.97 | 1.18 | 2.81 | 2.11 | 32.88 |
| April | 4.65 | 2.27 | 4.16 | 1.51 | 2.61 | 1.38 | 0.59 | 1.45 | 6.40 | 3.76 | 29.04 |
| May | 2.84 | 2.69 | 2.16 | 4.26 | 6.32 | 1.04 | 2.58 | 5.09 | 2.01 | 1.91 | 31.30 |
| June | 1.82 | 2.56 | 2.18 | 3.13 | 4.07 | 2.43 | 1.06 | 3.72 | 2.22 | 2.13 | 24.82 |
| July | 1.40 | 1.63 | 5.32 | 5.64 | 1.23 | 6.64 | 7.34 | 5.74 | 4.24 | 4.00 | 43.18 |
| August | 6.66 | 4.50 | 5.16 | 6.17 | 1.53 | 8.76 | 7.65 | 4.87 | 1.16 | 3.88 | 50.34 |
| September | 6.20 | 5.69 | 6.05 | 6.10 | 2.42 | 4.98 | 7.76 | 9.63 | 0.50 | 6.76 | 56.09 |
| October | 2.01 | 7.19 | 2.32 | 12.19 | 6.02 | 4.92 | 6.67 | 4.81 | 7.96 | 5.12 | 58.21 |
| November | 8.79 | 3.56 | 6.41 | 11.41 | 2.47 | 2.87 | 2.37 | 2.26 | 8.06 | 13.92 | 62.12 |
| December | 11.12 | 6.56 | 1.84 | 6.83 | 6.93 | 6.84 | 5.03 | 4.25 | 14.81 | 2.74 | 71.95 |
| TOTALS | 62.78 | 49.14 | 45.23 | 70.87 | 44.42 | 49.70 | 60.48 | 58.22 | 58.77 | 68.38 | 567.96 |

1947 Trees 30' high 30'S. Trees 60' high 30' yds E

1957 Hedge 1½' at 8' South.

Inferred 8.8.60 by Stobbs. On lowered slope 10' drop 10'S. Trees on hillside 50°-70°N → 110°-110°NE → 100°-90°E

G in poor condition. Rev. rev. g. at bottom 40-50 yds NNW and 30° N.E. - reasonably satisfactory.

1960 New gauge installed Oct 1960, overplus record will be maintained for a period.

851515

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference S.H.(23) 851515

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge. |
|-------|---------|-------|------------------|---------------------|----------------|----------------------|
| 1947 | | | Pentrefaelas | 5 miles NW | Pentre Vaelas | 2 miles E |
| 1957 | | | " | 4 3/4 miles " | " | 1 1/2 miles " |

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 |
|-------------------|---------|---------|--|-------------------------------|----------------------------------|
| | D | | M20 P M21 D M22-25 D M23-24 D M25-26 D M27-28 D M29-30 D | M21-32 D M33 D M34-40 D | 1941-42 D 1943 D 1944-50 D |

Air Ministry, Meteorological Office

Station No. 4321

RAINFALL at Voeles (New ^{one} Gauge)

County of Denbigh

Observer _____

River Basin 3 - Conway

Type of Gauge _____

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

File No. _____

| Diameter ... | | | | | | | | | | 5" | |
|---------------|------|------|------|------|------|------|------|------|------|-------------|-------|
| Height ... | | | | | | | | | | 1' 3" | |
| Altitude ... | | | | | | | | | | 700' | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | | | | | | | | | | | |
| February ... | | | | | | | | | | | |
| March ... | | | | | | | | | | | |
| April ... | | | | | | | | | | | |
| May ... | | | | | | | | | | | |
| June ... | | | | | | | | | | | |
| July ... | | | | | | | | | | | |
| August ... | | | | | | | | | | | |
| September ... | | | | | | | | | | | |
| October ... | | | | | | | | | | | |
| November ... | | | | | | | | | | 12.45 | |
| December ... | | | | | | | | | | 7.09 | |
| TOTALS ... | | | | | | | | | | 1960 np inc | |

1960 np inc

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

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

Summary of Earlier Records from 10-year Sheets:

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