

10 2964

RAINFALL at Great Harwood Parsonage ReservoirCounty of Central Lancashire

Observer

J. T. Shield Esq C.E.River Basin Ribble sc 1A. V. Roseman Esq. C.E. 1915

Rain Gauge, by

|              |      |      |      |      |      |       |       |       |       |       |        |
|--------------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| Diameter ... |      |      |      |      |      |       |       |       | 8     |       |        |
| Height ..... |      |      |      |      |      | 1 6   |       |       | 1 0   | 1 6   |        |
| Altitude ... |      |      |      |      |      | 631   |       |       |       |       |        |
| Year ...     | 1910 | 1911 | 1912 | 1918 | 1914 | 1915  | 1916  | 1917  | 1918  | 1919  | MEANS. |
| January ...  |      |      |      |      |      | 6.03  | 3.36  | 2.97  | 2.53  | 3.84  |        |
| February ... |      |      |      |      |      | 4.40  | 3.48  | 1.12  | 4.63  | .78   |        |
| March .....  |      |      |      |      |      | 1.98  | 2.49  | 1.97  | 1.73  | 4.75  |        |
| April .....  |      |      |      |      |      | 2.66  | 3.37  | 2.10  | 1.36  | 2.01  |        |
| May .....    |      |      |      |      |      | 1.71  | 3.13  | 1.58  | 2.31  | 2.12  |        |
| June .....   |      |      |      |      |      | 1.71  | 2.49  | 2.59  | 2.42  | 1.88  |        |
| July .....   |      |      |      |      |      | 4.17  | 3.73  | 2.39  | 3.27  | 1.74  |        |
| August ..... |      |      |      |      |      | 5.99  | 3.24  | 5.86  | 4.50  | 3.86  |        |
| September .. |      |      |      |      |      | .81   | 3.19  | 2.66  | 12.63 | 3.14  |        |
| October ...  |      |      |      |      |      | .88   | 7.98  | 8.21  | 4.40  | 2.78  |        |
| November ..  |      |      |      |      |      | 1.44  | 2.92  | 4.97  | 2.38  | 3.89  |        |
| December...  |      |      |      |      |      | 5.79  | 3.04  | 3.15  | 7.86  | 6.45  |        |
| TOTALS ...   |      |      |      |      |      | 37.57 | 42.44 | 39.57 | 50.02 | 36.64 |        |

1915 Wall 5' 6" high 50 yards or

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church.   | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|-----------|-----------|------------|
|       |         |       | Wilpshire        | 1 m       | W          | Salisbury | 2 m       | W          |

RAINFALL at Great Harwood Drainage ReservoirCounty of W. LancashireObserver A. T. Gossmann Esq. C.E.River Basin Ribble & C. 1H. M. Webb, Esq. L.C.

(1930) M.O. Rain Gauge, by

Ben. Esq. Blackburn

|               |       |       |       |       |       |       |       |       |       |       |              |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Diameter ...  | 8     |       |       |       |       |       |       |       |       |       |              |
| Height .....  | 10    |       |       |       |       |       |       |       |       |       |              |
| Altitude ...  | 631   |       |       |       |       |       |       |       |       |       |              |
| Year .....    | 1920  | 1921  | 1922  | 1923  | 1924  | 1925  | 1926  | 1927  | 1928  | 1929  | MEAN<br>1930 |
| January ...   | 4.58  | 7.48  | 2.68  | 4.87  | 2.75  | 2.46  | 4.52  | 5.52  | 12.02 | 2.07  | 6.53         |
| February ...  | 3.66  | .63   | 4.95  | 5.11  | 1.09  | 5.87  | 4.69  | 2.11  | 5.97  | 1.11  | .52          |
| March .....   | 4.05  | 3.92  | 2.32  | 1.47  | 1.37  | 2.71  | 2.81  | 3.98  | 3.00  | 1.03  | 3.34         |
| April .....   | 4.27  | 2.27  | 3.06  | 3.97  | 1.59  | 3.23  | 2.12  | 3.58  | 1.21  | 1.18  | 2.90         |
| May .....     | 5.86  | 2.35  | 2.02  | 4.12  | 4.35  | 5.33  | 3.85  | 1.58  | 1.59  | 3.08  | 2.27         |
| June .....    | 2.96  | .82   | 3.58  | 1.34  | 2.64  | .24   | 3.02  | 4.51  | 7.27  | 2.11  | 2.78         |
| July .....    | 6.51  | 2.55  | 6.25  | 4.92  | 4.06  | 2.80  | 3.66  | 4.20  | 3.28  | 3.87  | 6.42         |
| August .....  | 2.37  | 6.00  | 7.30  | 6.33  | 6.47  | 4.27  | 4.68  | 6.05  | 9.20  | 6.53  | 8.92         |
| September...  | 2.56  | 2.15  | 4.01  | 5.44  | 4.07  | 4.37  | 6.07  | 8.83  | 1.40  | 2.30  | 3.19         |
| October ..... | 2.03  | 3.79  | .89   | 5.69  | 3.36  | 6.63  | 3.66  | 4.55  | 6.24  | 7.16  | 7.50         |
| November...   | 2.23  | 2.50  | 3.55  | 5.67  | 2.53  | 2.86  | 6.92  | 4.99  | 7.60  | 7.96  | 6.35         |
| December...   | 2.58  | 6.55  | 5.52  | 3.61  | 4.26  | 3.50  | 2.78  | 1.21  | 3.13  | 9.22  | 3.71         |
| TOTALS...     | 43.66 | 41.01 | 46.13 | 52.54 | 39.04 | 44.27 | 48.78 | 51.11 | 61.91 | 47.62 | 54.43        |

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

Map, 2 miles to 1 inch Series

Reference No.

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church.   | Distance from gauge | Direction |
|-------|---------|-------|------------------|---------------------|-----------|------------------|---------------------|-----------|
|       |         |       | <u>Widnes</u>    | <u>1 mi</u>         | <u>W.</u> | <u>Salisbury</u> | <u>2 mi</u>         | <u>W.</u> |

## RAINFALL at Great Harwood (Parsonage Res.)

County of Central LancashireObserver H. M. Webb Esq., C.E.River Basin Ribble & C.W. Pughstone Esq., C.E.Type of Gauge NO. Swindon 1900G. Mc Kay Esq. (from 1939)Annual Average 40.7 in. based on 15 years obs. un-weighted. Period of average 1891-1915 Ref 5

660553/26.

|           |             |            |            |            |            |            |            |            |            |            |                    |
|-----------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|
| Diameter  | 4.          |            |            |            |            |            |            |            |            |            |                    |
| Height    | 1-0.        |            |            |            |            |            |            |            |            |            |                    |
| Altitude  | 631.        |            |            |            |            |            |            |            |            |            |                    |
| Year      | 1931        | 1932       | 1933       | 1934       | 1935       | 1936       | 1937       | 1938       | 1939       | 1940       | Means<br>1891-1915 |
| January   | 6.46        | 5.73       | 3.21       | 3.95       | 3.22       | 3.93       | 3.39       | 5.12       | 4.72       | (3.22)     | 41.85              |
| February  | 5.22        | 1.9        | 4.44       | 4.0        | 6.88       | 2.42       | 4.98       | 1.68       | 4.45       | 1.16       | 31.82              |
| March     | 9.3         | 3.15       | 2.77       | 2.89       | 1.32       | 2.55       | 1.98       | 1.81       | 2.15       | 2.59       | 22.14              |
| April     | 3.57        | 3.63       | 1.91       | 2.63       | 3.37       | 1.14       | 3.09       | 1.08       | 2.26       | 2.72       | 25.40              |
| May       | 2.49        | 4.53       | 1.70       | 3.72       | 1.57       | 1.13       | 2.47       | 3.22       | 1.32       | .94        | 23.09              |
| June      | 7.24        | 1.15       | 2.60       | 2.34       | 3.40       | 4.12       | 2.83       | 4.61       | 3.03       | .91        | 32.23              |
| July      | 4.63        | 5.29       | 3.20       | 2.22       | 2.02       | 3.89       | 2.06       | 4.54       | 5.57       | 4.18       | 37.60              |
| August    | 5.47        | 1.73       | 3.63       | 4.99       | 1.83       | 2.79       | 3.30       | 4.29       | 2.39       | 2.55       | 33.07              |
| September | 3.84        | 7.24       | 1.21       | 3.70       | 7.62       | 4.71       | 2.18       | 1.84       | 1.35       | 4.84       | 38.53              |
| October   | 3.52        | 7.44       | 4.74       | 6.70       | 10.26      | 5.06       | 1.78       | 9.12       | 1.71       | 4.03       | 54.36              |
| November  | 6.95        | 3.21       | 2.03       | 2.56       | 4.62       | 5.17       | 1.80       | 5.67       | 6.45       | 6.19       | 44.65              |
| December  | 2.89        | 2.11       | .80        | 5.92       | 3.63       | 5.41       | 1.73       | 5.48       | 3.20       | 4.89       | 36.06              |
| TOTALS    | 53.21<br>2. | 45.40<br>3 | 32.24<br>2 | 42.02<br>2 | 49.74<br>2 | 42.22<br>2 | 31.59<br>2 | 48.56<br>2 | 38.60<br>2 | 37.22<br>2 | 420.80             |

1940 Jan. contd. for snow.

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1931  |         |       | Wilpshire        | Woodyde.            | E/S                  | Wilpshire      | 1630 yds.           | E/N                  |

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



Station No. 2964

RAINFALL at Great Harwood (Parsonage Res.)

41

County of Central Lancashire Observer G. McKay Esq. C.E.

River Basin Ribbles &amp; B. 1

Type of Gauge M.S. Standard

Annual Average 40.7 in. based on 15 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 650553/26

| Diameter  | 8"         |            |            | 5.75       | 4.83       |            |            |            |            |            |              |  |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--|
| Height    | 1'0"       |            |            |            | 1          |            |            |            |            |            |              |  |
| Altitude  | 631'       |            |            |            | 41         |            |            |            |            |            |              |  |
| Year      | 1941       | 1942       | 1943       | 1944       | 1945       | 1946       | 1947       | 1948       | 1949       | 1950       | Means-Totals |  |
| January   | 1.31       | 4.25       | 4.41       | 6.01       | 2.83       | 4.03       | 2.83       | 7.03       | 2.27       | 3.48       | 38.45        |  |
| February  | 4.59       | .93        | 2.55       | 2.01       | 4.96       | 5.35       | .10        | 2.51       | 2.77       | 4.61       | 30.38        |  |
| March     | 3.16       | 3.00       | 1.19       | .64        | 1.93       | 1.00       | 3.12       | 2.16       | 1.61       | 1.69       | 19.50        |  |
| April     | 1.63       | 1.92       | 2.57       | 2.31       | 2.48       | 1.60       | 2.63       | 2.19       | 4.34       | 3.15       | 24.82        |  |
| May       | 3.13       | 2.57       | 2.46       | 3.07       | 3.67       | 1.23       | 2.83       | 1.43       | 2.70       | 1.72       | 24.81        |  |
| June      | .47        | 1.47       | 3.83       | 3.57       | 4.99       | 3.04       | 2.97       | 6.25       | 1.28       | 3.05       | 30.92        |  |
| July      | 2.11       | 5.25       | 3.86       | 4.51       | 2.58       | 4.91       | 3.47       | 2.47       | 2.12       | 4.33       | 35.61        |  |
| August    | 5.47       | 5.03       | 6.33       | 3.27       | 1.86       | 7.13       | .18        | 4.50       | 3.40       | 8.14       | 45.71        |  |
| September | 1.36       | 3.24       | 4.87       | 6.02       | 2.46       | 7.32       | 4.32       | 3.23       | 1.72       | 6.28       | 40.82        |  |
| October   | 4.99       | 8.07       | 4.33       | 5.04       | 6.76       | 1.20       | .79        | 2.69       | 4.48       | 3.39       | 41.74        |  |
| November  | 2.80       | 1.09       | 3.45       | 5.57       | .36        | 5.68       | 5.47       | 2.49       | 5.10       | 6.46       | 38.47        |  |
| December  | 2.77       | 4.08       | 2.33       | 3.94       | 1.83       | 4.11       | 3.57       | 3.00       | 6.46       | 2.25       | 34.34        |  |
| TOTALS    | 34.19<br>D | 40.30<br>D | 42.18<br>D | 45.96<br>D | 36.71<br>D | 46.60<br>D | 32.28<br>D | 39.95<br>D | 38.25<br>D | 48.55<br>D | 405.57       |  |

16.4.47 Gauge tested and found correct.

15.4.48

1947. n.p. low

Sufficiently suitable to work for low tides

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 from gauge | Parish Church. | Distance from gauge. | Direction from gauge. |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|----------------------|-----------------------|
| 1941  |         |       | Willesden        | 1400y.              | S. of W.             | Willesden      | 1630y.               | N. of W.              |

BRITISH RAINFALL ORGANIZATION

Station No. 29614

RAINFALL at Great Harwood (Parsonage Res.)

51

County of Central Lancashire

Observer S. McHarg, Esq. C.F.

River Basin Ribble &amp; C-1

Glyde Water Board (1/4/60)

Type of Gauge Stevenson's Rain Gauge

Annual Average 46.7 in. based on 12 years obs. by weighted. Period of average 1881-1915 Ref. S  
" " 41.21 " " 26 " " within 1916-57 " " 1916-50  
File No. 660553/26

|               |       |       |       |       |       |       |       |       |       |       |              |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Diameter ...  | 8"    |       |       | 575   | 483   |       |       |       |       |       |              |
| Height ...    | 1' 0" |       |       |       | 1     |       |       |       |       |       |              |
| Altitude ...  | 631'  |       |       |       | 51    |       |       |       |       |       |              |
| Year ...      | 1951  | 1952  | 1953  | 1954  | 1955  | 1956  | 1957  | 1958  | 1959  | 1960  | Means-Totals |
| January ...   | 4.16  | 4.24  | 1.65  | 4.90  | 2.15  | 3.35  | 2.99  | 2.90  | 2.42  | 5.36  | 34.12        |
| February ...  | 3.06  | 1.39  | .99   | 2.09  | 1.24  | .80   | 2.51  | 6.26  | .40   | 2.34  | 21.08        |
| March ...     | 4.87  | 1.59  | 1.61  | 2.14  | 1.52  | 1.25  | 2.97  | 1.21  | 1.38  | 0.92  | 19.46        |
| April ...     | 2.21  | 3.36  | 2.24  | 1.10  | 2.62  | 2.33  | .51   | 1.16  | 2.28  | 2.30  | 20.71        |
| May ...       | 1.11  | 2.46  | 2.49  | 2.44  | 3.74  | 1.88  | 1.88  | 4.80  | 1.32  | 1.68  | 23.80        |
| June ...      | 1.43  | 3.71  | 2.22  | 3.28  | 3.20  | 2.93  | 2.15  | 4.19  | 3.59  | 1.02  | 27.72        |
| July ...      | 4.54  | 3.19  | 5.90  | 6.62  | 1.08  | 5.13  | 5.45  | 3.64  | 4.62  | 8.99  | 49.16        |
| August ...    | 5.29  | 6.61  | 4.99  | 6.02  | 1.14  | 11.47 | 5.71  | 4.42  | .51   | 5.87  | 52.03        |
| September ... | 3.10  | 4.57  | 4.69  | 5.70  | 3.95  | 3.43  | 6.69  | 4.48  | .45   | 3.11  | 40.17        |
| October ...   | 1.10  | 3.29  | 2.12  | 7.91  | 2.62  | 2.64  | 6.81  | 4.29  | 5.35  | 3.22  | 39.35        |
| November ...  | 8.72  | 2.40  | 5.16  | 5.78  | 2.09  | 1.81  | 1.59  | 1.92  | 4.60  | 7.54  | 41.61        |
| December ...  | 10.30 | 4.04  | 2.05  | 5.43  | 4.65  | 4.34  | 5.11  | 3.28  | 6.89  | 4.64  | 50.83        |
| TOTALS ...    | 49.89 | 40.85 | 36.71 | 53.41 | 30.00 | 41.36 | 44.37 | 42.65 | 33.81 | 46.99 | 420.04       |

On 8.10.53. G. found one inside of funnel painted. Set in concrete slab. Run 7" above concrete. New g. recommended to be set up few feet south of present position

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Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD699321

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction<br>from gauge | Parish Church. | Distance Direction<br>from gauge. |
|-------|---------|-------|------------------|----------------------------------|----------------|-----------------------------------|
| 1951  |         |       | Wilpshire        | 1400 <sup>x</sup> S.W.           | Wilpshire      | 1650 <sup>x</sup> N.W.            |

Summary of Earlier Records from 10-year Sheets :

| Record<br>D, or d | 1910-19 | 1920-30     | 1931-40          | 1941-50      | 1951-60 |
|-------------------|---------|-------------|------------------|--------------|---------|
|                   | c1915   | ✓<br>D25-30 | ✓<br>✓ shut d to | ✓<br>Vnp. 47 | ✓       |